The Goodyear Tire & Rubber Company
Akron, Ohio 44316-0001

Global EHS Sustainability
200 Innovation Way
Akron, Ohio 44316-0001

Phone: 330.796.0578
jeff_sussman@goodyear.com

11 February 2014

United States Environmental Protection Agency, Region 9
75 Hawthorne Street (SFD-8-2)
San Francisco, California 94105

Attention: Ms. Catherine Brown
Remedial Project Manager

Subject Second Semiannual Groundwater Monitoring Report - 2013
Phoenix-Goodyear Airport South Superfund Site
Goodyear, Arizona

Dear Ms. Brown:

The Goodyear Tire and Rubber Company is providing the enclosed draft Second Semiannual Groundwater Monitoring Report – 2013 for the Phoenix-Goodyear Airport South Site, Goodyear, Arizona, as required to fulfill the reporting requirements set forth in the Consent Decree.

Please feel free to call me at (330)796-0578 if you have any questions regarding this report.

Sincerely,

Jeff Sussman

Jeff Sussman
Global Remediation Manager

c: Arizona Department of Environmental Quality; Attn: Brian Stonebrink, (paper/electronic)
Brown and Caldwell; Attn: Jeff Littell, (electronic)
Brown and Caldwell; Attn: Chris Legg, (electronic)
City of Goodyear; Attn: Mark Holmes, (electronic)
City of Goodyear; Attn: Sandra Rode, (electronic)
City of Phoenix; Attn: Rebecca Godley, (electronic)
City of Phoenix; Attn: Julie Riemenschneider, (electronic)
City of Phoenix; Attn: Joseph Husband, (electronic)
Conger Environmental; Attn: Jennie Conger, (electronic)
Haley & Aldrich, Inc.; Attn: Paula Chang (electronic)
Hargis + Associates, Inc.; Attn: Michael Long, (electronic)
Hargis + Associates, Inc.; Attn: Laura Menken, (electronic)
ITSI; Attn: Nancy Nesky, (electronic)
ITSI; Attn: Dr. Ailiang Gu, (electronic)
ITSI;Kent Baugh, (electronic)
Los Alamos Technical Associates, Inc.; Attn: Todd Struttman, (electronic)
The Goodyear Tire & Rubber Company; Attn: Jeff Sussman, (electronic)
The Goodyear Tire & Rubber Company; Attn: Ron Clark, (electronic)
United States Environmental Protection Agency; Attn: Cooper Viola, (electronic)
United States Environmental Protection Agency; Attn: Glenn Bruck, (electronic)
W.L. Bouchard & Associates, Inc.; Attn: Walter Bouchard (electronic)

SECOND SEMIANNUAL GROUNDWATER MONITORING REPORT – 2013
PHOENIX-GOODYEAR AIRPORT SOUTH SUPERFUND SITE
GOODYEAR, ARIZONA

Draft

by

Haley & Aldrich, Inc.
Phoenix, Arizona

for

The Goodyear Tire & Rubber Company
Akron, Ohio

File No. 39049-103
11 February 2014

TABLE OF CONTENTS

		Page
LIST OF TABLES		**ii**
LIST OF FIGURES		**ii**
LIST OF CHARTS		**iii**
1.	**INTRODUCTION**	**1**
1.1	Site Description and Setting	1
1.2	Site Background and History	1
1.3	Site Geology and Hydrogeology	3
1.4	Remedial Activities	3
2.	**GROUNDWATER MONITORING PROGRAM**	**5**
2.1	Summary of Activities for the Reporting Period	5
2.1.1	Northern Subunit C Depth-Discrete Sampling	5
3.	**GROUNDWATER LEVEL MEASUREMENTS**	**7**
3.1	Subunit A Groundwater Elevations	7
3.2	Subunit C Groundwater Elevations	7
4.	**GROUNDWATER SAMPLING RESULTS AND DISCUSSION**	**9**
4.1	Subunit A – TCE	10
4.2	Subunit A – Chromium	11
4.3	Subunit C – TCE	12
4.4	Subunit C – Chromium	12
5.	**GROUNDWATER EXTRACTION AND TREATMENT**	**14**
5.1	Subunit A – Air Stripper Treatment	14
5.2	Subunit C – Treatment by Granular Activated Carbon	14
6.	**PLANS AND RECOMMENDATIONS FOR THE NEXT REPORTING PERIOD**	**16**
REFERENCES		**17**

TABLES
FIGURES
CHARTS
APPENDIX A - Analytical Laboratory Reports
APPENDIX B - Field Forms
APPENDIX C - Historical Analytical and Water Level Data
APPENDIX D - Data Validation
APPENDIX E - Chrome Drying Bed Cover Inspection

Draft

LIST OF TABLES

Table No.	Title
I	Monitoring Frequency and Analyses
II	Well Construction Details
III	Groundwater Elevations – Second Semiannual 2013
IV	TCE and Total and Dissolved Chromium Results – Second Semiannual 2013
V	Subunit A System Information
VI	Subunit C System Information

LIST OF FIGURES

Figure No.	Title
1	Project Locus
2	Subunit A Well Location Map
3	Subunit C Well Location Map
4	Water Level Contour Map – Subunit A, Third Quarter 2013
5	Water Level Contour Map – Subunit C, Third Quarter 2013
6	Water Level Contour Map – Subunit A, Fourth Quarter 2013
7	Water Level Contour Map – Subunit C, Fourth Quarter 2013
8	TCE Concentrations in Subunit A Groundwater – Second Half 2013
9	Total and Dissolved Chromium in Subunit A Groundwater – Second Half 2013
10	TCE Concentrations in Subunit C Groundwater – Second Half 2013
11	Total and Dissolved Chromium in Subunit C Groundwater – Second Half 2013

Draft

LIST OF CHARTS

Chart No.	Title
1	Subunit A – Annual TCE Mass Removal Over Time
2	Subunit A – TCE Concentrations in Active Extraction Wells
3	Subunit A – TCE Concentrations in Select Wells
4	Subunit A – Total Chromium in Active Extraction Wells
5	Northern Subunit C – TCE Concentrations in Select Wells
6	Northern Subunit C – TCE Concentrations in Select Wells
7	Subunit A – Extraction Well Production Rates
8	Subunit A – Influent TCE Concentrations Over Time

Draft

1. INTRODUCTION

Haley & Aldrich, Inc., (Haley & Aldrich) prepared this "Second Semi-Annual Groundwater Monitoring Report - 2013" on behalf of The Goodyear Tire & Rubber Company (GTRC) to summarize the activities and monitoring results from sampling events conducted from July through December 2013 at the Phoenix-Goodyear Airport (PGA) South Superfund Site (PGA-S), pursuant to the Consent Decrees and Records of Decision (ROD) issued by the United States Environmental Protection Agency (USEPA) under the Comprehensive Environmental Response, Compensation and Liability Act.

This report summarizes the activities conducted in accordance with the Comprehensive Groundwater Monitoring Plan (CGMP) prepared by TRC and dated 08 March 2013. Sampling protocols, standard operating procedures, data generation, acquisition, assessment, management, oversight, evaluation, and usability are described in the "Quality Assurance Project Plan" ([QAPP]; TRC/Los Alamos Technical Associates, Inc., 2009).

Groundwater monitoring program activities for PGA-S are presented in Section 2. A summary and discussion of the groundwater monitoring results for the reporting period are presented in Sections 3 and 4. A summary of groundwater treatment system performance and activities for both the Subunit A and Subunit C treatment systems is presented in Section 5. Plans and recommendations for the next reporting period are provided in Section 6.

Analytical laboratory reports are provided in Appendix A; field forms in Appendix B; historical analytical and water level data in Appendix C; data validation in Appendix D; and the annual chrome drying bed cover inspection report in Appendix E.

The site history, geology, hydrogeology, previous investigations, and operation of the remedial system are described in more detail in "Project and Site Background, Phoenix Goodyear Airport South Site, Goodyear, Arizona" prepared by TRC (TRC, 2013a) and in the "Second Five Year Review Report for Phoenix-Goodyear Airport (North and South Areas) Superfund Site, Goodyear, Arizona" (EPA, 2010).

1.1 Site Description and Setting

PGA-S is located 17 miles west of Phoenix, Arizona, in the western part of the Salt River Valley, and has an area of approximately four square miles encompassing the Phoenix-Goodyear Airport (formerly known as the Phoenix-Litchfield Naval Air station) and the JRC Goodyear property (formerly owned by Goodyear Aerospace Corporation; Figure 1).

The regional climate is semi-arid, with long hot summers and short mild winters. Relative humidity is low, particularly during early summer, and rainfall averages approximately 7.5 inches per year. The average daily maximum temperature is 107 degrees Fahrenheit (°F) in July and 62°F in January. The average median temperature is approximately 72°F.

1.2 Site Background and History

Historically, PGA-S was used by the United States Navy to preserve and activate decommissioned military aircraft. Goodyear Aerospace Corporation used the property to manufacture aerospace-related products. The majority of the waste streams generated were attributed to metal treatment processes and

Draft

included trichloroethylene (TCE), chromium sludge from chrome-plating operations, acids, and process wastewater.

In 1981, the Arizona Department of Health Services (ADHS) discovered that the groundwater underlying the PGA area was impacted by volatile organic compounds (VOCs) and chromium. Additional groundwater sampling was also conducted in 1982 and 1983 by ADHS and the USEPA. The primary constituents of concern (COCs) in PGA-S groundwater are TCE and chromium.

The PGA site was formally listed on the National Priorities List on 08 September 1983, and the following events have occurred since that time:

- 1983: Remedial Investigation begins;
- 1987: ROD issued for Subunit A groundwater;
- 1988: Consent Decree with GTRC related to extraction and treatment of Subunit A groundwater;
- 1989: Remedial Investigation/Feasibility Study (RI/FS) published by USEPA identifying PGA-North and PGA-South;
- 1989: ROD issued for Subunits B and C groundwater and soils (excluding sludge drying beds);
- 1990: Subunit A groundwater extraction and treatment system began operation;
- 1991: Explanation of Significant Differences (ESD) #1 issued to revise cleanup levels for acetone and methyl ethyl ketone;
- 1991: Consent Decree with GTRC and Loral Defense Systems to address Subunit C groundwater, soil vapor extraction (SVE) in the vadose zone, and continued operation of the Subunit A system;
- 1992: Consent Order with GTRC to excavate the sludge drying beds and stabilize soils;
- 1992 - 1993: Sludge drying beds were removed;
- 1993 – 1998: SVE was performed in select areas;
- 1993: ESD #2 was issued to decentralize treatment systems for Subunit C groundwater, change the end use from municipal to reinjection, and establish treatment standards for select constituents in groundwater;
- 1994: Northern and Southern Subunit C groundwater extraction and treatment systems began operation;
- 1995: ESD #3 issued to allow air sparging in Subunit A groundwater at select areas and require well head treatment (for chromium) at select extraction wells;
- 1995: Chromium well head treatment system installed at extraction well E-17;
- 1996–2003: Air sparging was performed in Subunit A groundwater in select areas;
- 1998: ESD #4 issued to update groundwater cleanup standards for select constituents;
- 2001: Chromium treatment at extraction well E-17 shut down due to operational problems;
- 2005: First Five-Year Review; and
- 2010: Second Five Year Review.

Draft

1.3 Site Geology and Hydrogeology

PGA-S is located in the western part of the Salt River Valley in the Sonoran Desert, and lies within the Basin and Range physiographic province consisting of alluvial basins and mountain ranges. The two major surface water drainages in the vicinity of PGA-S are the Gila River located two to three miles to the south, and the Agua Fria River located one to two miles to the east. The Agua Fria River remains dry most of the year and drains south into the perennial Gila River with occasional releases from the Bartlett Dam, storm runoffs from the areas below the dam, and effluent from the City of Phoenix 91st Avenue Wastewater Treatment Plant.

The western Salt River Valley is an alluvial sub-basin consisting of unconsolidated to semi-consolidated clastic sediments of Late Tertiary to Quaternary age, alluvial fan, playa, and fluvial deposits. The alluvial deposits consist of three hydrogeologic units, in descending order: the Upper Alluvial Unit (UAU), the Middle Fine-Grained Unit (MFU), and the Lower Alluvial Unit. In the vicinity of PGA-S, the UAU is approximately 350 feet thick and is further divided into three subunits known as Subunit A, Subunit B, and Subunit C.

Subunit A is the uppermost aquifer at PGA-S, extends from the ground surface to the top of Subunit B at approximately 80 to 120 feet below ground surface (bgs), and consists primarily of silty-sand and gravel. Subunit A is an unconfined aquifer with a saturated thickness on the order of 50 to 60 feet, with an average hydraulic conductivity of approximately 50 feet/day (USEPA, 1989). The overall groundwater flow direction in the vicinity of PGA-S is towards the southwest.

Subunit B is the middle hydrogeologic unit of the UAU, is comprised of fluvial sediments with interbedded materials of mostly silt, clay, and silty-sand, and is considered an aquitard between Subunits A and C, extending from approximately 120 to 190 feet bgs. The thickness of Subunit B averages about 50 to 70 feet, with an estimated average hydraulic conductivity of approximately 5 feet/day (USEPA, 1989).

Subunit C is a confined to semi-confined aquifer and consists predominantly of a medium to coarse sand with some silt. Subunit C extends to the top of the MFU at approximately 350 feet bgs, and ranges from 130 to 160 feet thick with an average hydraulic conductivity ranging from 80 to 130 feet/day (USEPA, 1989). Subunit C is the predominant groundwater source in the PGA area for agricultural, domestic, and municipal uses and groundwater flow within Subunit C is largely influenced by multiple domestic, municipal, irrigation, and remediation (extraction and injection) pumping operations in the PGA area. The overall groundwater flow direction in the vicinity of PGA-S is towards the northwest.

1.4 Remedial Activities

Groundwater extraction and ex-situ treatment of groundwater have been performed at PGA-S for over 20 years. SVE and air sparging have also been conducted at select areas of PGA-S, as described in the "2010 Five Year Review" (USEPA, 2010). Chart 1 shows the estimated annual TCE mass removal from Subunit A since 1990.

<u>Subunit A</u>: The Subunit A system extracts groundwater at a number of extraction wells within the TCE plume footprint, treats the groundwater with an air stripper, and reinjects the treated effluent via a series of Subunit A injection wells.

Draft

The current Subunit A treatment system consists of:

- Twelve extraction wells;
- Sixteen injection wells;
- A conveyance pipeline from extraction wells to the treatment system (influent);
- An acid tank to maintain dissolved salts in solution;
- A packed tower air stripper; and
- A conveyance pipeline from the treatment system to the reinjection wells (effluent).

During the reporting period, Subunit A extraction wells NE-02, NE-03, NE-04, E-07R, E-12, E-16, and E-17 were operating at average extraction rates ranging from 17 gallons per minute ([gpm]; NE-04) to 147 gpm (E-17) with an average extraction rate of approximately 385 gpm, lower than the average extraction rate for the first half of 2013 (425 gpm) but higher than the 2012 average rate of 341 gpm.

Northern Subunit C: The Northern Subunit C system extracts groundwater from one extraction well (E-102) with an average pumping rate of approximately 159 gpm during the reporting period. Extracted groundwater is treated by granular activated carbon (GAC) at the Southern Subunit C treatment system and then reinjected via Subunit C injection wells I-201, I-202, and I-203. E-102 began operating in November 2004.

Southern Subunit C: The Southern Subunit C system initially consisted of three extraction wells (E-201, E-202, and E-203) and three injection wells (I-201, I-202, and I-203), and began operating in September 1994. The Southern Subunit C extraction system was shut down in 2009 to initiate a pulsed pumping evaluation of the potential for rebound of TCE concentrations. Based on the water quality data set, the footprint of the former Southern Subunit C plume has been non-detect or below the TCE maximum contaminant level (MCL) of 5 micrograms per liter (μg/L) since approximately May 2012. The Southern Subunit C treatment system continues to treat groundwater from Northern Subunit C extraction well E-102.

Draft

2. GROUNDWATER MONITORING PROGRAM

The groundwater monitoring program is described in detail in the 2013 CGMP. The overall objectives of the monitoring program are to:

- Monitor plume migration, expansion, or reduction;
- Monitor trends in COC concentrations over time;
- Monitor progress of the groundwater remediation; and
- Demonstrate compliance with regulatory requirements.

The monitoring frequency and analytical requirements per the CGMP are provided in Table I[1]. Well construction details are shown in Table II. Subunit A and Subunit C well locations are provided on Figures 2 and 3, respectively.

2.1 Summary of Activities for the Reporting Period

The following routine activities were conducted at PGA-S during the reporting period:

- Annual, quarterly, and monthly groundwater monitoring and sampling events;
- Operation of the Subunit A groundwater extraction/treatment system;
- Operation of the Northern Subunit C groundwater extraction well E-102 and the Southern Subunit C treatment system; and
- Annual inspection of former chrome drying bed cover, September 2013 (Appendix E).

The following non-routine activities were conducted at PGA-S during the reporting period:

- The pump at NE-02 stopped on or about 14 June 2013 due to an electrical short. The pump was repaired and extraction well NE-02 was brought back on-line on 9 July 2013.
- GTRC performed voluntary depth-discrete sampling of wells GMW-13UC, GMW-14UC, and GMW-02 using Hydrasleeves™ to develop a better understanding of vertical TCE and chromium distribution in Northern Subunit C groundwater in this area.

2.1.1 Northern Subunit C Depth-Discrete Sampling

In October 2013, as part of recent voluntary characterization work at Northern Subunit C, GTRC collected depth-discrete Hydrasleeve™ samples in monitoring wells GMW-02, GMW-13UC, and GMW-14UC to evaluate whether stratification of TCE and/or chromium concentrations exist within the screened interval of these wells. The Hydrasleeves™ were deployed in approximate 10-foot intervals, starting at five feet below the top of the screen. The results of the sampling are provided in the table below. Based on the data set, there does not appear to be significant stratification of either TCE or

[1] Note that starting in Q4 2013, GTRC voluntarily increased the sampling frequency for TCE and/or chromium at select Northern Subunit C monitoring wells to expand the data set in this area. Changes to the original monitoring schedule are highlighted in yellow in Table I.

Draft

chromium concentrations. Overall, the concentrations were generally consistent with those observed during routine monitoring.

Well	Sample Date	Sample Depth (feet bls)	Trichloroethene (µg/L)	Chromium (µg/L)	Chromium, dissolved (µg/L)
GMW-02	10/21/2013	165	10	150	110
	10/21/2013	175	33	140	150
	10/21/2013	185	40	160	130
GMW-13UC	10/21/2013	195	81	430	430
	10/21/2013	205	73	400	430
	10/21/2013	215	45	420	350
	10/21/2013	225	80	430	410
GMW-14UC	10/21/2013	207	4	28	5.2
	10/21/2013	217	4.4	11	10
	10/21/2013	227	2.1	13	2.9
	10/21/2013	237	1.2	6.5	4.6

NOTES:
ug/L = micrograms per liter.
< = analyte was not detected below reporting limit.
(dup) = field duplicate.
bls = Below land surface.

Draft

3. GROUNDWATER LEVEL MEASUREMENTS

Groundwater levels were measured in accordance with the procedures outlined in the CGMP and QAPP and completed within a short period of time to eliminate potential variances caused by weather and pumping changes from extraction wells, production wells, and irrigation wells.

Groundwater elevations for the reporting period are provided in Table III. Groundwater elevation maps for Subunits A and C are presented in Figures 4 through 7, respectively, for the reporting period.

Historical groundwater level measurements are included in Appendix C; historical groundwater elevations at select monitoring wells in Subunit A (EMW-13, EMW-15, GMW-04, and NEW-01) and Subunit C (EMW-21UC, EMW-28LC, GMW-14UC, and SB-10LC) are shown on Charts C-1 and C-2, respectively (Appendix C). These charts illustrate seasonal variation in groundwater elevation, and indicate an overall water level elevation decline of approximately 15 feet in Subunits A and C since 1990, with a generally continuous declining trend over this time period.

3.1 Subunit A Groundwater Elevations

Third quarter (August 2013) water level data indicate that the groundwater flow direction in Subunit A was radially inward along the long axis of the TCE plume, towards the hydraulic depressions established around extraction wells NE-02 through NE-04, E-07R and E-12, E-16, and E-17 (Figure 4); mounding observed in the vicinity of the Subunit A injection wells also assists in maintaining hydraulic control of the downgradient edge of the TCE plume. During this period, the hydraulic low shifted slightly south of the line of extraction wells along the toe of the plume, possibly a result of an overall decline in Subunit A extraction well production in this area, along with seasonal fluctuations in water levels.

During the fourth quarter (November 2013) monitoring event, overall groundwater flow directions were similar to the first quarter with minor variations (Figure 6), with the hydraulic low in alignment with the extraction wells along the toe of the plume. Mounding remained apparent in the vicinity of the Subunit A injection wells.

Chart C-1 (Appendix C) shows long-term water level trends for Subunit A monitoring wells EMW-13, EMW-15, GMW-4, and NEW-01. Water levels in these wells have declined approximately 10 to 25 feet from maximum observed water levels in 1993, likely due to a combination of groundwater extraction and long-term drought conditions. Some Subunit A monitoring wells (NEW-1 and EMW-13) exhibit seasonal fluctuations ranging up to 10 feet, possibly due to the influence of groundwater production wells located south of PGA-S that are screened across both Subunit A and Subunit C. These seasonal trends are not as apparent in Subunit A wells GMW-4 and EMW-15.

3.2 Subunit C Groundwater Elevations

Third quarter water level data indicate that the groundwater flow direction in Subunit C remained generally to the west-northwest, with a hydraulic depression established around extraction well E-102, and hydraulic mounding at injection wells I-201, I-202, and I-203 (Figure 5). The overall hydraulic gradient was approximately 0.002 foot/foot towards the west-northwest, with an apparent steepening of the gradient near extraction well E-102.

Draft

Groundwater flow directions during the fourth quarter monitoring event were similar to the third quarter, with overall water levels approximately 5 to 10 feet higher than third quarter due to seasonal fluctuations (Figure 7 and Chart C-2, Appendix C).

Chart C-2 (Appendix C) shows long-term water level trends for Subunit C monitoring wells EMW-21UC, EMW-28LC, GMW-14UC, and SB-10LC. These monitoring wells exhibit a similar long-term trend as well as seasonal fluctuations within Subunit C. Overall, the Subunit C potentiometric surface has declined approximately 15 to 20 feet since the early 1990s, primarily the result of overproduction within Subunit C combined with drought conditions. Seasonal fluctuations within Subunit C monitoring wells appear to be consistent in timing and magnitude, with peak-to-trough fluctuations ranging up to 30 feet in the late 1990s. More recent seasonal fluctuations have been more subdued, ranging from approximately 10 to 15 feet.

Draft

4. GROUNDWATER SAMPLING RESULTS AND DISCUSSION

The third and fourth quarter groundwater sampling events were conducted in August 2013 and November 2013, respectively. Groundwater samples were collected from monitoring wells using no-purge (Hydrasleeve™) methods, in accordance with the CGMP and QAPP, while extraction well and treatment system samples were collected at designated sample ports. Note that in Q4 2013, GTRC voluntarily increased the sampling frequency for TCE and/or chromium at select Northern Subunit C monitoring wells to expand the data set to help refine the Subunit C conceptual site model. Changes to the monitoring schedule are provided in Table I.

Specific conductivity, pH, temperature, turbidity, dissolved oxygen, and oxygen reduction potential were measured during extraction well and treatment system sampling. Since stabilization parameters are not required for no-purge sampling, these water quality parameters were not measured, although turbidity was measured in the field for those monitoring wells requiring chromium analysis.

The groundwater samples were analyzed for the following analytical parameters:

- VOCs using USEPA Test Method SW8260B; and
- Total chromium using USEPA Test Method SW6010B, both unfiltered and lab-filtered[2].

The samples were placed in laboratory-provided containers, labeled, placed in a cooler of wet ice with associated trip blanks, secured with custody seals, and transported under chain of custody documentation to Curtis & Tompkins, Ltd., (Curtis & Tompkins), an Arizona-certified analytical laboratory. Field quality assurance samples (field duplicates, field blanks, and trip blanks) were also collected and analyzed for VOCs and/or chromium in accordance with the QAPP.

Purge water generated from the sampling events was properly containerized and treated at the Subunit A groundwater treatment system. Disposable personal protective equipment and sampling equipment were disposed of as solid waste.

Laboratory reports and field forms for the reporting period are included in Appendix A and Appendix B, respectively. Appendix C contains historical laboratory analytical results for groundwater sampling and treatment system sampling through December 2013.

A data validation summary is provided in Appendix D. Analytical data was reported in Level III type data packages from Curtis & Tompkins. Completed data review checklist forms are included with the laboratory reports. The analytical data were reviewed for:

- Completeness;
- Chain of custody;
- Sample hold time;
- Trip blank contamination;
- Method blank contamination;

[2] Total chromium analysis of lab-filtered groundwater is performed by GTRC on a voluntarily basis.

Draft

- Sample reporting limits;
- Laboratory control sample recovery and replicates;
- Matrix Spike/Matrix Spike Duplicates; and
- Field duplicate sample replication.

Additional quality reviews conducted included:

- Laboratory control charts;
- Field quality control (equipment, field, and trip blank) control charts; and
- Verification of Curtis & Tompkins Arizona certification.

Arizona Department of Environmental Quality qualifiers were included in the state-required electronic data deliverables provided with each analytical report. The data were qualified in accordance with the "National Functional Guidelines for Organic Data Review" (USEPA, 1999) and "National Functional Guidelines for Inorganic Data Review" (USEPA, 2004).

Table IV presents the TCE and total and dissolved chromium analytical results for the samples collected during the reporting period.

4.1 Subunit A – TCE

Subunit A TCE concentration data for the reporting period are shown on Figure 8 and TCE concentration trends for active Subunit A extraction wells and select Subunit A monitoring wells are illustrated in Charts 2 and 3, respectively.

The overall Subunit A TCE plume is oriented northeast to southwest along the primary historical groundwater flow direction, with the highest TCE concentrations within the northeast area of the plume. TCE concentrations greater than 50 μg/L extend from EMW-08R (in the northeast) towards E-04 (in the southwest; Figure 8). The highest observed TCE concentration during the reporting period was 430 μg/L at EMW-10R. Note that TCE concentrations in this well have declined approximately an order of magnitude over time, from 2,600 μg/L in 1990 to 430 μg/L currently.

During the reporting period, TCE concentrations were either non-detect or less than the MCL of 5 μg/L at wells E-03, EMW-03, EMW-07R, EMW-13, EMW-15, GMW-03, and NE-02.

Subunit A TCE results from the reporting period were generally consistent with the previous groundwater monitoring events and the historical data set, with the following exceptions:

- NEW-01: TCE concentrations increased from 5.3 μg/L in Q2 to 9.9 μg/L and 6.5 μg/L in Q3 and Q4, respectively. These values are within the historical range. NEW-01 is on the downgradient edge of the Subunit A plume, and historical concentrations have fluctuated slightly above and below the MCL over time. Overall TCE concentrations at NEW-01 have declined from a maximum of 31.1 μg/L during 2002.
- EMW-10R: TCE concentration increased from 270 μg/L in Q1 to 430 μg/L during Q3;

Draft

- EMW-14R: TCE concentration increased from 62 μg/L in Q1 to 90 μg/L in Q3. The Q3 value is generally consistent with the historical data set from EMW-14, which ranged from 90 μg/L to 99 μg/L from 2009 and 2011; and
- EP-02R: TCE concentration decreased from 250 μg/L in Q1 to 51 μg/L in Q3.

EMW-10R, EMW-14R, and EP-02R are relatively new replacement wells. Subsequent monitoring events will confirm whether these changes are part of either long-term concentration trends or short-term fluctuations in TCE concentrations.

Chart 2 shows TCE concentrations over the last five years for active Subunit A extraction wells. TCE concentrations for these extraction wells exhibit either a relatively consistent trend, albeit with some temporal fluctuations, in the downgradient portion of the plume (NE-02, NE-03, NE-04) or an overall declining concentration trend further upgradient of the plume (E-07R, E-12, E-17). However, based on the overall data set, TCE concentrations in each of these Subunit A extraction wells have declined significantly since system startup, in most cases by up to an order of magnitude.

Chart 3 shows TCE concentrations for the past five years were plotted for select monitoring wells located along the axis (EMW-8R, EMW-10R, EMW-14R, and NEW-03) and along the outer perimeter (EMW-07, EMW-13, and NEW-01) of the Subunit A plume. The data indicate either stable or decreasing TCE concentration trends for these wells, except for EMW-08R and EMW-10R, which have exhibited an overall increasing TCE concentration trend. These wells have the highest current TCE concentrations in Subunit A (EMW-08R and EMW-10R at 290 μg/L and 430 μg/L, respectively), although they were drilled and constructed in 2012 and the data set is limited. Longer-term concentration trends for these wells will be developed with subsequent sample data.

4.2 Subunit A – Chromium

Subunit A total and dissolved chromium data for the reporting period are shown on Figure 9, and total chromium concentration trends for active Subunit A extraction wells are provided in Chart 4.

Total chromium was detected above the MCL of 100 μg/L in extraction well E-17 (140 μg/L), and monitoring well EMW-08R (150 μg/L), while dissolved chromium was detected above 100 μg/L in wells E-17 (130 μg/L)[3] and EMW-08R (150 μg/L). Total and dissolved chromium in the other sampled Subunit A wells were detected below 100 μg/L during the reporting period.

Total and dissolved chromium in Subunit A wells sampled during the reporting period were generally consistent with results from previous monitoring events.

Chart 4 shows total chromium concentrations over the last five years for active Subunit A extraction wells. While more variable compared to TCE, total chromium concentrations generally exhibit a similar concentration trend as TCE, with either overall stable or decreasing total chromium concentration trends for these wells. While total chromium concentrations at E-17 increased from 2008 to 2011, the overall concentration trend declined from 2011 to 2013. Since startup of E-17 in the mid-1990s, total chromium concentrations have declined by approximately an order of magnitude.

[3] Based on the historical data set, the Q4 dissolved chromium concentration of an estimated 2.4 μg/L at E-17 appears to be an anomaly.

Draft

4.3 Subunit C – TCE

Subunit C TCE concentration data for the reporting period is shown on Figure 10 and TCE concentration trends for select Northern Subunit C wells are illustrated in Charts 5 and 6.

The Southern Subunit C wells were either non-detect or less than the MCL of 5 μg/L during the reporting period (Figure 10). Except for SB-06UC (6.9 μg/L in August 2012 and less than the MCL after that), TCE concentrations in all of the Southern Subunit C monitoring wells in the current monitoring program have been below the MCL since May 2012.

The overall Northern Subunit C plume orientation continues to be towards the northwest, along the primary groundwater flow direction (Figure 10), with the highest TCE concentrations observed at GMW-13UC (75 μg/L and 59 μg/L) during the reporting period.

During the reporting period, TCE concentrations in Northern Subunit C were either non-detect or less than the MCL of 5 μg/L at wells E-102, GAC-02, GMW-1 (screened at the base of Subunit C), GMW-09MC, GMW-15UC, GMW-18UC, GMW-20LC, GMW-25LC, and GMW-26LC. The highest observed TCE concentration was 75 μg/L at GMW-13UC. TCE concentrations in recently installed monitoring wells GMW-25LC and GMW-26LC continued to be either non-detect or below the MCL of 5 μg/L, indicating that these wells delineate the downgradient extent of the Northern Subunit C TCE plume.

Northern Subunit C TCE concentrations during the reporting period were generally consistent with previous monitoring events, except for the following:

- GWM-17UC: TCE increased from 3.6 μg/L in Q2 to 10 μg/L and 14 μg/L in Q3 and Q4, respectively. These recent values are within the range of historical data, although TCE concentrations have been below 5 μg/L since 2008.
- E-101: TCE concentrations have increased from 9.6 μg/L in Q1 to 25 μg/L, 32 μg/L, and 23 μg/L in Q2, Q3, and Q4, respectively. TCE concentrations at E-101 have historically ranged from approximately 1 μg/L to 10 μg/L.

Charts 5 and 6 show TCE concentrations for select monitoring wells located in the central and downgradient portions of the Northern Subunit C plume, including active Northern Subunit C extraction well E-102. The highest TCE concentrations in Northern Subunit C have been detected at GMW-13UC. Since 2008, TCE concentrations at this well have declined overall, from a high of approximately 100 μg/L to the current concentration of 59 μg/L. Downgradient monitoring wells within the Northern Subunit C plume continue to exhibit generally stable or decreasing trends in reported TCE concentrations, except for GMW-16UC, which has exhibited a slight increasing trend from 2008 through 2013, with a decline in concentrations in 2013, and GMW-17UC, with an increase in TCE concentrations from approximately 5 μg/L since 2008 to approximately 10 μg/L during both Q3 and Q4. TCE concentrations in GMW-14UC, approximately 400 feet downgradient from GMW-13UC, have declined since 2009, from a high of 25 μg/L to the current concentration of 3.8 μg/L.

4.4 Subunit C – Chromium

Subunit C total and dissolved chromium data for the reporting period are shown on Figure 11.

Draft

Total chromium was detected at or above the MCL of 100 μg/L in Northern Subunit C wells COG-5 (690 μg/L), GMW-2 (140 μg/L and 190 μg/L), GMW-09MC (820 μg/L and 7,300 μg/L), GMW-13UC (450 μg/L and 460 μg/L), and GAC-03 (130 μg/L), while dissolved chromium was only detected above 100 μg/L in wells GMW-02 (130 μg/L) and GMW-13UC (390 μg/L). Total and dissolved chromium in the other sampled Northern Subunit C wells were detected below 100 μg/L during the reporting period.

Total and dissolved chromium concentrations in Northern Subunit C wells sampled during the reporting period were generally consistent with previous monitoring events and historical concentrations, except for the following wells:

- COG-05: Total chromium increased from 69 μg/L to 300 μg/L (Q1 and Q2) to 690 μg/L in Q3 2013, but then decreased to 83 μg/L in Q4. Note that dissolved chromium concentrations at COG-05 were non-detect (reporting limit of 5 μg/L) during both Q3 and Q4.
- GMW-09MC: Total chromium increased from 400 μg/L in Q1 to up to 7,300 μg/L in Q4. These concentrations are generally within historical ranges (Table C-1, Appendix C). Total chromium concentrations are variable in this well, which is constructed of stainless steel casing and well screen, and samples generally have relatively high turbidity concentrations, all of which can result in the observed elevated total chromium concentrations. Also note that dissolved chromium concentrations at GMW-09MC were much lower than total chromium, ranging from 2.6 μg/L to 8.4 μg/L during the reporting period.

Draft

5. GROUNDWATER EXTRACTION AND TREATMENT

The groundwater extraction, treatment, and injection data for the Subunit A and Subunit C treatment systems for the reporting period are presented in Tables V and VI, respectively. The tables include the volume of water extracted, average operating flow rate, monthly volume of water treated, and an estimate of TCE mass removed.

5.1 Subunit A – Air Stripper Treatment

Subunit A extraction wells NE-02, NE-03, NE-04, E-07R, E-12, E-16, and E-17 were operating during the reporting period. Subunit A groundwater treatment includes application of sulfuric acid to the influent to keep salts in solution and TCE treatment via a stainless steel packed tower air stripper operated by a five horsepower blower. Treated water is then reinjected into the Subunit A aquifer via injection wells I-02, I-05, I-06, I-12, I-13, I-14, I-16, I-17, and I-18.

During the reporting period, 98.7 million gallons (Mgal) of Subunit A groundwater were extracted and treated, with an average treatment flow rate of 385 gpm[4] and a system uptime of 96.7 percent. Extraction at individual wells ranged from 17 gpm (NE-04) to 147 gpm (E-17). Chart 7 provides production rates over time for the reporting period[5].

Maintenance activities performed on the Subunit A system included routine checks to review and record operating conditions and identify and remedy abnormal operating parameters (if present). The system operator also inspected the belts on the air blower (and replaced them as necessary), cleaned and/or replaced filters on the blower intake, and recorded the level in the acid feed tank. Additional routine maintenance included calibrating the pH sensors, adjusting the chemical injection pump as necessary, lubricating the rotating equipment, cleaning the level and temperature sensors, visual inspecting the injection/extraction well head and piping, and associated repairs. General housekeeping is also completed on a regular basis.

During the reporting period, influent TCE concentrations ranged from 33 μg/L to 37 μg/L. Subunit A influent TCE concentrations over time are illustrated on Chart 8. Approximately 28.2 pounds of TCE were removed from the Subunit A aquifer during the reporting period, an average of nearly 5 pounds per month. The cumulative Subunit A TCE removal through December 2013 is approximately 5,653 pounds (Table V).

5.2 Subunit C – Treatment by Granular Activated Carbon

E-102 is the primary extraction well operating within Subunit C. Groundwater extracted from E-102 is conveyed in subgrade piping to the south, beneath Yuma Road, and is treated by the Southern Subunit C GAC system located on PGA-S property. Extraction well E-101 is located immediately south of Yuma Road on the adjacent Cavco property; this extraction well operates minimally for

[4] The average production during the reporting period was lower than the average extraction rate for the first half of 2013 (425 gpm) but higher than the 2012 average rate of 341 gpm.

[5] The production decline in NE-04 at the end of December 2013 was the result of a tripped pump breaker just prior to flow measurement. Subsequent NE-04 production has been consistent with the average of 17 gpm over the reporting period.

DRAFT

sampling and as a backup to JRC Goodyear production well GAC-02, also located on the adjacent Cavco property. Water produced from both E-101 and GAC-02 is treated separately at the JRC Goodyear facility.

The Subunit C treatment system includes two 20,000-pound, liquid-phase GAC vessels. Treated water is reinjected back into the Subunit C aquifer via wells I-201, I-202, and I-203.

During the reporting period, 42.3 Mgal of groundwater were extracted by E-102 and treated by the Southern Subunit C GAC system, with an average treatment system flow rate of 159 gpm, and a system uptime of 100 percent. Groundwater extraction volume and average flow rate through the treatment system were generally consistent with the last reporting period. Operational information for extraction wells E-101 and GAC-02 is also presented in Table VI, although water from those wells is not treated through the Southern Subunit C system.

Maintenance activities performed on the Southern Subunit C GAC system included routine checks to review and record operating conditions and identify and remedy abnormal operating parameters (if present). Additional routine maintenance included cleaning level and temperature sensors, inspecting the system manifold and extraction/injection wellheads for leaks and completing necessary repairs, including lubrication of all rotating equipment, and general housekeeping.

During the reporting period, influent TCE concentrations were 2.7 μg/L for both Q3 and Q4, and approximately 1.2 pounds of TCE were removed from the Subunit C aquifer. Approximately 0.9 pound of TCE was removed from Subunit C by JRC Goodyear via operation of GAC-02 (Table VI). The cumulative Northern Subunit C TCE removal through December 2013 is approximately 69 pounds (Table VI).

Draft

6. PLANS AND RECOMMENDATIONS FOR THE NEXT REPORTING PERIOD

Plans and recommendations for the next reporting period (January through June 2014) include the following routine operations, maintenance, and monitoring activities: (1) continued operation of the Subunit A and Subunit C groundwater treatment systems; (2) conduct monthly, quarterly, and semiannual sampling events as detailed in the CGMP; and (3) continuation of supplemental sampling at select Subunit C monitoring wells.

Installation and start-up of a new Northern Subunit C extraction well is also planned for the next reporting period.

A summary of monitoring events and other activities performed during the next reporting period will be provided in the First Semiannual Groundwater Monitoring Report – 2014.

Draft

REFERENCES

1. Haley & Aldrich, Inc., 2013. "First Semiannual Groundwater Monitoring Report - 2013, PGA-South Superfund Site, Goodyear, Arizona," 14 August 2013.

2. TRC, 2013a. "Second Semiannual 2012 Monitoring Report, Phoenix-Goodyear Airport South Site, Goodyear, Arizona," 15 February 2013.

3. TRC, 2013b. "Comprehensive Groundwater Monitoring Plan, Phoenix-Goodyear Airport South Site, Goodyear, Arizona," 8 March 2013.

4. TRC/Los Alamos Technical Associates, Inc., 2009. "Quality Assurance Project Plan, Revision 3.0, Phoenix-Goodyear Airport South Superfund Site, Goodyear, Arizona," October 2009.

5. United States Environmental Protection Agency, 1989. "Remedial Investigation/Feasibility Study Report, Phoenix-Goodyear Airport Superfund Site, Goodyear, Arizona," June 1989.

6. United States Environmental Protection Agency, 1999. "Contract Laboratory Program National Functional Guidelines for Organic Data Review," October 1999.

7. United States Environmental Protection Agency, 2004. "Contract Laboratory Program National Functional Guidelines for Inorganic Data Review," October 2004.

8. United States Environmental Protection Agency, 2010. "Second Five Year Review Report for Phoenix-Goodyear Airport (North and South Areas) Superfund Site, Goodyear, Arizona," September 2010.

G:\39049 Goodyear Tire & Rubber\103 - Groundwater Monitoring\Deliverables\2013 Second Semi-Annual Report\2014_0210_Second SemiAnnual Report 2013_D5.docx

Draft

TABLE I
MONITORING FREQUENCY AND ANALYSES
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well ID	Subunit	Type	WL	Monthly	Quarterly	Semiannual (August)	Annual (February)	Comment
E-03	A	MW	x			TCE		Boundary well
E-04	A	MW	x		TCE			Interior well
E-07R	A	EW		Cr	TCE			Active extraction well; interior plume
E-11	A	EW	x					WL only
E-12	A	EW		Cr	TCE			Active extraction well; interior plume
E-16	A	EW	x				Cr/TCE	Active extraction well; boundary control
E-17	A	EW	x	Cr		TCE		Active extraction well; interior plume
EMW-03	A	MW	x			Cr/TCE		Interior well
EMW-06	A	MW	x			Cr/TCE		Interior well
EMW-07R	A	MW	x			TCE		Boundary well
EMW-08R	A	MW	x			Cr/TCE		Interior well
EMW-09	A	MW	x					WL only
EMW-10R	A	MW	x			Cr/TCE		Interior well
EMW-11R	A	MW	x			Cr/TCE		Interior well
EMW-12R	A	MW	x			TCE		Interior well
EMW-13	A	MW	x			TCE		Boundary well
EMW-14R	A	MW	x			Cr/TCE		Interior well
EMW-15	A	MW	x			TCE		Boundary well
EMW-16	A	MW	x				TCE	Boundary well
EMW-29A	A	MW	x					WL only
EO-01	A	EO	x					WL only
EO-02	A	EO	x					WL only
EO-03	A	EO	x					WL only
EO-04	A	EO	x					WL only
EO-05	A	EO	x					WL only
EO-07	A	EO	x					WL only
EO-12	A	EO	x					WL only
EO-17	A	EO	x					WL only
EP-02R	A	MW	x			Cr/TCE		Replacement boundary well
GMW-03	A	MW	x			TCE		Upgradient boundary well
GMW-04	A	MW	x				TCE	Upgradient boundary well
GMW-06	A	MW	x				Cr/TCE	Interior well
GMW-24A	A	MW	x		TCE			New interior well
IO-01	A	IO	x					WL only
IO-02	A	IO	x					WL only
IO-04	A	IO	x					WL only
IO-05	A	IO	x					WL only

TABLE I
MONITORING FREQUENCY AND ANALYSES
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well ID	Subunit	Type	WL	Monthly	Quarterly	Semiannual (August)	Annual (February)	Comment
IO-06	A	IO	x					WL only
IO-07	A	IO	x					WL only
IO-08	A	IO	x					WL only
IO-09	A	IO	x					WL only
IO-10	A	IO	x					WL only
IO-12	A	IO	x					WL only
IO-13	A	IO	x					WL only
IO-14	A	IO	x					WL only
IO-16	A	IO	x					WL only
IO-17	A	IO	x					WL only
IO-18	A	IO	x					WL only
NE-02	A	EW			Cr/TCE			Active extraction well
NE-03	A	EW			Cr/TCE			Active extraction well
NE-04	A	EW			Cr/TCE			Active extraction well
NEW-01	A	MW	x		TCE			Most downgradient well
NEW-03	A	MW	x			Cr/TCE		Interior well
NEW-04	A	MW	x				TCE	Boundary well
NEW-09	A	MW	x					WL only
PMW-06	A	MW					TCE	Boundary area well sampled by COP
PMW-08	A	MW					TCE	Boundary area well sampled by COP
PMW-15	A	MW					TCE	Boundary area well sampled by COP
PMW-16	A	MW					TCE	Boundary area well sampled by COP
PMW-17	A	MW					TCE	Boundary area well sampled by COP
COG-05	NC	CPW	x		Cr/TCE			Interior well near boundary
COG-11	C	CPW		TCE				Active supply well
COG-20	C	CPW		TCE				Active supply well
E-101	NC	EW			Cr/TCE			Boundary well
E-102	NC	EW			Cr/TCE		~~Cr~~	Boundary well
E-201	SC	EW	x		TCE			Boundary well
EMW-02	SC	MW	x					WL only
EMW-19LC	SC	MW	x					WL only
EMW-20LC	SC	MW	x				TCE	Boundary well
EMW-20UC	SC	MW					TCE	Boundary well
EMW-21UC	SC	MW	x				TCE	Boundary well
EMW-22LC	SC	MW	x					WL only
EMW-28LC	SC	MW	x					WL only
EMW-28UC	SC	MW	x				TCE	Boundary well

TABLE I
MONITORING FREQUENCY AND ANALYSES
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well ID	Subunit	Type	WL	Monthly	Quarterly	Semiannual (August)	Annual (February)	Comment
GAC-02	NC	PW			Cr/TCE			Interior well
GAC-03	NC	PW	x		Cr/TCE			Interior well
GMW-01	NC	MW	x		Cr/TCE			Interior well
GMW-02	NC	MW	x		Cr/TCE			Interior well
GMW-09MC	NC	MW	x		Cr/TCE			Interior well
GMW-10LC	SC	MW	x			TCE		Upgradient well
GMW-11LC	SC	MW	x				TCE	Interior well
GMW-11UC	SC	MW	x			TCE		Interior well
GMW-12LC	SC	MW	x					WL only
GMW-13UC	NC	MW	x		Cr/TCE			Interior well
GMW-14UC	NC	MW	x		Cr/TCE		~~Cr~~	Interior well
GMW-15UC	NC	MW	x		Cr/TCE		~~Cr~~	Boundary well
GMW-16UC	NC	MW	x		Cr/TCE		~~Cr~~	Interior well
GMW-17UC	NC	MW	x		Cr/TCE		~~Cr~~	Boundary well
GMW-18UC	NC	MW	x		Cr/TCE	~~TCE~~	~~Cr~~	Boundary well
GMW-19LC	NC	MW	x		Cr/TCE		~~Cr~~	Interior well
GMW-20LC	NC	MW	x		Cr/TCE		~~Cr~~	Boundary well
GMW-21UC	NC	MW	x			TCE		Upgradient well
GMW-22UC	NC	MW	x					WL only
GMW-23UC	NC	MW	x			TCE		Upgradient well
GMW-25LC	NC	MW	x		Cr/TCE		~~Cr~~	Boundary well
GMW-26LC	NC	MW	x		Cr/TCE		~~Cr~~	Boundary well
I-101	NC	IW	x					WL only
I-102	NC	IW	x					WL only
I-201	SC	IW	x					WL only
I-202	SC	IW	x					WL only
I-203	SC	IW	x					WL only
SB-06LC	SC	MW	x			TCE		Boundary well
SB-06UC	SC	MW				TCE		Boundary well
SB-07LC	SC	MW	x					WL only
SB-08LC	SC	MW	x			TCE		Downgradient well
SB-08UC	SC	MW				TCE		Downgradient well
SB-09LC	SC	MW	x			TCE		Downgradient well
SB-10LC	SC	MW	x			TCE		Downgradient well
SB-11LC	SC	MW	x			TCE		Interior well
SB-12LC	SC	MW	x					WL only
SB-13LC	SC	MW	x					WL only

TABLE I
MONITORING FREQUENCY AND ANALYSES
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well ID	Subunit	Type	WL	Monthly	Quarterly	Semiannual (August)	Annual (February)	Comment
AST-INF	A	TS		Cr/TCE				Subunit A system monitoring
AST-EFF	A	TS		Cr/TCE				Subunit A system monitoring
GAC-2-INF	C	TS		Cr/TCE				Subunit C system monitoring
GAC-2-EFF	C	TS		Cr/TCE				Subunit C system monitoring

NOTES AND ABBREVIATIONS:

1. Cr samples will be analyzed both unfiltered and filtered.
2. When Cr is a designated analyte, turbidity will be analyzed in the field.
3. Changes to the 2012 CGMP monitoring schedule are highlighted in yellow.
4. WL = Water level
5. TCE = Trichloroethene
6. Cr = Chromium
7. EO = Extraction observation well
8. EW = Extraction well
9. IO = Injection observation well
10. MW = Monitoring well
11. NC = Northern Subunit C
12. PW = Production well
13. SC = Southern Subunit C
14. TS = Treatment system

TABLE II
WELL CONSTRUCTION DETAILS
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well ID	Subunit	Type of Well	X Coordinate (NAD83)	Y Coordinate (NAD83)	Z Coordinate (NAVD88)	Well Owner	Well Registration Number	Well Install / Start Date	Casing Diameter (Inches)	Top of Screen (Feet)	Bottom of Screen (Feet)	Bottom of Boring (Feet)	Bottom of Casing (Feet)
E-03	A	Monitoring	560719.682	879630.416	942.9	GTRC	55-523628	---	---	---	---	---	---
E-04	A	Monitoring	560712.85	880251.93	942.13	GTRC	---	---	8	40	90	90	90
E-07R	A	Extraction	562974.61	883719.94	956.72	GTRC	55-532907	10/23/1993	8	52	111	121	120
E-08	A	Extraction	563809.86	883580.8	958.01	GTRC	55-532908	12/14/1991	8	75	95	98	98
E-10	A	Extraction	564035.36	884233.71	959.62	GTRC	55-532910	1/15/1992	18	39	99	101	101
E-11	A	Extraction	562418.209	880835.888	952.99	GTRC	55-532911	---	10	---	---	120	---
E-12	A	Extraction	563400.27	884382.29	955.49	GTRC	55-532912	6/24/1987	12	60	110	130	120
E-16	A	Extraction	561703.62	884552.7	958.42	GTRC	---	12/3/1994	8	50	90	110	110
E-17	A	Extraction	563969.15	885769.11	960.7	GTRC	---	10/25/1993	24	55	115	130	130
EMW-03	A	Monitoring	563977.45	883635.55	965.03	GTRC	---	3/20/1985	5	70	110	112	112
EMW-04	A	Monitoring	564037.29	883262.1	962.42	GTRC	55-515513	10/24/1986	4	49	70	82	70
EMW-05	A	Monitoring	563605.28	883802.831	966.86	GTRC	55-515510	10/25/1986	4	58	79	110	84
EMW-06	A	Monitoring	563829.73	884056.74	962.12	GTRC	55-515511	10/27/1986	4	54	76	100	85
EMW-07	A	Monitoring	563244.49	882726.68	962.1	GTRC	55-515514	10/28/1986	4	47	68	100	73
EMW-07R	A	Monitoring	563476.303	882652.263	957.434	GTRC	55-221882	01/09/2013	4	80	120	120	120
EMW-08*	A	Monitoring	563820.93	885394.03	963.98	GTRC	55-515527	10/29/1986	4	54	65	82	70
EMW-08R	A	Monitoring	563999.001	885529.415	962.286	GTRC	55-221160	12/5/2011	4	60	100	100	100
EMW-10*	A	Monitoring	563563.1	884702.76	959.91	GTRC	55-515515	11/6/1986	4	41	62	100	67
EMW-10R	A	Monitoring	564012.305	885045.467	961.063	GTRC	55-221161	12/5/2011	4	60	100	100	100
EMW-11*	A	Monitoring	563397.6	884244.34	960.55	GTRC	55-515523	11/20/1986	4	43	64	90	69
EMW-11R	A	Monitoring	563465.273	884272.376	958.492	GTRC	55-221162	12/5/2011	4	60	100	100	100
EMW-12*	A	Monitoring	562795.46	882378.28	959.86	GTRC	55-530636	11/8/1986	4	44	64	120	120
EMW-12R	A	Monitoring	562794.966	882360.468	959.095	GTRC	55-221163	12/5/2011	4	60	100	100	100
EMW-13	A	Monitoring	561957.38	880418.23	952.77	GTRC	55-515516	11/9/1986	4	63	84	120	89
EMW-14*	A	Monitoring	562267.23	882941.08	958.67	GTRC	55-515512	11/10/1986	4	43	64	110	69
EMW-14R	A	Monitoring	562252.789	882946.027	958.177	GTRC	55-221164	12/5/2011	4	60	100	100	100
EMW-15	A	Monitoring	560945.34	883627.88	960.2	GTRC	55-515519	11/12/1986	4	52	74	78	78
EMW-16	A	Monitoring	561923.12	884876.41	964.46	GTRC	55-515518	11/13/1986	4	56	78	100	83
EMW-17*	A	Monitoring	562823.16	886063.59	971.81	GTRC	55-515517	11/19/1986	4	52	74	100	78
EP-02	A	Piezometric	562220.85	883755.01	957.48	GTRC	---	1/16/1985	2	54	56	56	56
EP-02R	A	Monitoring	5562220.687	883770.605	955.535	GTRC	55-221881	1/08/2013	4	80	120	121	120
GMW-03	A	Monitoring	564639.22	886142.72	963.64	GTRC	---	5/11/1985	4	80	110	112	112
GMW-04	A	Monitoring	565844.25	885740.05	966.62	GTRC	55-515525	10/10/1986	4	58	78	110	78
GMW-06	A	Monitoring	564427.65	884433.41	965.03	GTRC	55-515528	10/13/1986	4	68	99	120	106
GMW-08*	A	Monitoring	564096.71	885761.64	966.32	GTRC	55-515522	10/22/1986	4	47	68	90	76
GMW-24A	A	Monitoring	561269.329	881015.066	944.715	GTRC	55-221880	6/01/2013	4	80	120	120	120

TABLE II
WELL CONSTRUCTION DETAILS
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well ID	Subunit	Type of Well	X Coordinate (NAD83)	Y Coordinate (NAD83)	Z Coordinate (NAVD88)	Well Owner	Well Registration Number	Well Install / Start Date	Casing Diameter (Inches)	Top of Screen (Feet)	Bottom of Screen (Feet)	Bottom of Boring (Feet)	Bottom of Casing (Feet)
GP-01	A	Piezometric	564705.698	883956.258	962.76	GTRC	---	12/15/1984	2	52	72	75	75
GP-02	A	Piezometric	564086	885076.7	965.01	GTRC	55-515510	12/20/1984	2	60	80	---	86
GP-09*	A	Piezometric	564167	883967.7	967.41	GTRC	55-516493	1/17/1987	2	52	73	78	78
NE-01	A	Extraction	559693.47	880135.13	944.51	GTRC	55-526385	6/5/1989	8	55	85	96	90
NE-02	A	Extraction	560250.95	880846.23	944.1	GTRC	55-526386	6/7/1989	8	65	85	91	91
NE-03	A	Extraction	560610.68	881307.4	944.52	GTRC	55-526387	6/2/1989	8	55	85	92	90
NE-04	A	Extraction	561221.14	882090.2	946.89	GTRC	55-526388	6/20/1989	8	70	90	97	95
NE-05	A	Extraction	561705.04	882707.87	950.33	GTRC	55-526389	6/14/1989	8	80	90	95	95
NEW-01	A	Monitoring	560038.39	879611.63	939.87	GTRC	55-523612	---	4	50	90	100	100
NEW-03	A	Monitoring	561925.15	881987.7	955.19	GTRC	55-523614	---	4	50	85	110	110
NEW-04	A	Monitoring	559406.83	881866.01	959.25	GTRC	55-523615	---	4	45	80	100	100
PMW-03	A	Monitoring	562719.61	884887.82	964.49	City of Phoenix	55-529484	9/17/1990	4	50	85	85	85
PMW-08	A	Monitoring	563272.31	884891.46	961.13	City of Phoenix	55-529478	9/20/1990	4	50	90	90	90
PMW-14	A	Monitoring	562844.23	884786.43	961.92	City of Phoenix	55-533432	10/28/1991	4	42	92	97	95
PMW-15	A	Monitoring	562831.85	884617.97	959.21	City of Phoenix	55-533435	10/31/1991	4	43	93	---	98
PMW-16	A	Monitoring	562632.24	884734.27	963.92	City of Phoenix	55-533792	12/3/1991	4	45	90	---	90
COG-01	C	Production	566075.47	886323.21	971.85	City of Goodyear	55-609571	2/15/1955	---	289	317	405	405
COG-05	C	Production	564113.56	887382.74	975.27	City of Goodyear	55-617170	8/2/1974	16	225	480	501	501
COG-07	C	Production	549712	876416	908	City of Goodyear	55-617173	7/28/1975	8	378	425	425	378
COG-11	C	Production	559947.5	885676.54	978.83	City of Goodyear	55-604506	4/14/1982	20	250	380	400	400
COG-20	C	Production	554924	884954.7	967.73	City of Goodyear	---	3/2/2005	20	172	342	417	357
E-101	C	Extraction	564347.82	886140.53	956.51	GTRC	55-808803	8/8/1993	20	181	266	290	271
E-102	C	Extraction	561965.113	887125.516	979.35	GTRC	55-808702	6/13/2003	12	195	285	320	295
E-201	C	Extraction	561282.3	885332.64	971.35	GTRC	55-808701	3/18/1994	20	190	290	318	300
E-202	C	Extraction	562087.85	885036.678	958.56	GTRC	---	3/24/1994	12	180	260	318	311
EMW-20LC	C	Monitoring	561900.92	884762.55	963.81	GTRC	---	9/1/1988	5	247	297	302	310
EMW-20UC	C	Monitoring	561900.48	884787.45	963.76	GTRC	55-808799	9/1/1988	5	175	225	230	230
EMW-21UC	C	Monitoring	562754.74	885976.74	971.01	GTRC	---	9/1/1988	5	180	230	235	235
EMW-28LC	C	Monitoring	562349.5	883929.96	957.25	GTRC	---	7/18/1987	5	247	297	302	302
EMW-28UC	C	Monitoring	562318.13	883880.11	957.67	GTRC	55-808804	7/14/1987	5	171	221	228	228
GAC-02	C	Extraction	564255.59	886100.31	963.71	Goodyear Aircraft	55-617070	7/8/1942	20	180	280	286	286
GAC-03	C	Extraction	564919.43	886126.41	966.06	Goodyear Aircraft	55-617071	1/1/1941	20	196	296	298	298
GAC-04*	C	Extraction	564103.88	884886.52	964.06	Goodyear Aircraft	55-617072	7/24/1944	20	170	275	275	275
GMW-01	C	Monitoring	564586.93	886126.99	964.16	GTRC	55-510290	4/18/1985	6	270	309	312	310
GMW-02	C	Monitoring	564536.21	886143.53	964.41	GTRC	55-510290?	5/3/1985	6	160	189	192	192
GMW-09MC	C	Monitoring	564390.67	886146.75	963.85	GTRC	55-808807	6/11/1992	4	205	235	240	238

TABLE II
WELL CONSTRUCTION DETAILS
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well ID	Subunit	Type of Well	X Coordinate (NAD83)	Y Coordinate (NAD83)	Z Coordinate (NAVD88)	Well Owner	Well Registration Number	Well Install / Start Date	Casing Diameter (Inches)	Top of Screen (Feet)	Bottom of Screen (Feet)	Bottom of Boring (Feet)	Bottom of Casing (Feet)
GMW-10LC	C	Monitoring	563695.1	884749.18	956.56	GTRC	---	---	4	276	296	302	302
GMW-10UC	C	Monitoring	563684.24	884758.61	956.66	GTRC	55-808802	7/11/1992	4	167	187	200	190
GMW-11LC	C	Monitoring	563382.3	884364.77	957.9	GTRC	---	6/19/1992	4	280	300	305	303
GMW-11UC	C	Monitoring	563373.33	884353.5	957.8	GTRC	---	6/22/1992	4	195	215	220	217
GMW-13UC	C	Monitoring	564366.3	886450.54	966.81	GTRC	---	1/13/1999	4	190	230	258	235
GMW-14UC	C	Monitoring	564005.72	886724.15	972.63	GTRC	---	8/20/1999	2	202	242	247	247
GMW-15UC	C	Monitoring	562611.8	886813.8	970.81	GTRC	---	8/18/1999	2	195	235	245	240
GMW-16UC	C	Monitoring	562611.04	887509.87	974.29	GTRC	---	3/14/2000	2	201	241	256	246
GMW-17UC	C	Monitoring	563228.06	887488.29	976.42	GTRC	---	3/16/2000	2	202	242	251	247
GMW-18UC	C	Monitoring	563495.385	887763.59	979.46	GTRC	55-910585	3/25/2009	2	180	220	225	225
GMW-19LC	C	Monitoring	562367.91	887778.97	975.68	GTRC	55-910553	3/19/2009	2	280	320	322	322
GMW-20LC	C	Monitoring	561417.53	887555.85	979.85	GTRC	55-910130	12/12/2008	2	240	280	280	281
GMW-21UC	C	Monitoring	563926.494	885048.148	961.18	GTRC	55-912169	6/11/2010	2	180	220	305	220
GMW-22UC	C	Monitoring	564636.145	884583.921	963.18	GTRC	55-912170	6/11/2010	2	180	220	307	220
GMW-23UC	C	Monitoring	564130.472	884822.874	962.962	GTRC	55-914007	1/25/2012	4	182	225	305	225
GMW-25LC	C	Monitoring	561730.157	888313.411	981.323	GTRC	55-915318	3/18/2013	4	280	320	327	320
GMW-26LC	C	Monitoring	562370.729	888391.108	977.402	GTRC	55-915319	3/11/2013	4	230	270	320	270
INJSB-05	C	Monitoring	562526.55	884775.78	964.42	GTRC	---	4/1/1993	2	220	260	289	270
SB-06LC	C	Piezometric	562083.4	885095.05	965.43	GTRC	---	---	2	250	290	300	300
SB-06UC	C	Piezometric	562082.87	885143.7	965.15	GTRC	---	---	2	190	230	250	250
SB-07LC	C	Piezometric	561684.39	884895.79	966.56	GTRC	---	---	2	255	295	300	300
SB-07UC	C	Piezometric	561694.19	884957.87	966.85	GTRC	---	---	2	190	230	246	246
SB-08LC	C	Monitoring	562385.18	885544.84	968.02	GTRC	---	9/22/1993	2	263	303	308	305
SB-08UC	C	Monitoring	562383.77	885599.7	968.23	GTRC	---	9/24/1993	2	188	228	234	233
SB-09LC	C	Monitoring	561443.42	885244.29	968.53	GTRC	---	10/1/1993	2	259	299	305	304
SB-09UC	C	Monitoring	561432.81	885301.38	968.93	GTRC	---	10/2/1993	2	190	230	236	235
SB-10LC	C	Monitoring	561082.92	885304.39	971.61	GTRC	---	10/25/1993	2	258	298	304	303
SB-11LC	C	Monitoring	563154.54	884645.61	958.91	GTRC	---	11/16/1993	2	255	295	300	304
SB-11UC	C	Monitoring	563168.82	884672.32	959.27	GTRC	---	11/18/1993	2	180	220	248	226
SB-12LC	C	Piezometric	561624.98	885925.66	972.78	GTRC	---	---	2	225	265	305	305
SB-13LC	C	Piezometric	560623.929	884699.91	972	GTRC	---	---	2	225	265	302	302

NOTES:

1. NAD83 = North American Datum of 1983
2. NAVD88 = North American Vertical Datum of 1988
3. --- = not known
4. * = Well abandoned

TABLE III
GROUNDWATER ELEVATIONS - SECOND SEMIANNUAL 2013
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well ID	Subunit	Date	Measuring Point Elevation (Feet Above Mean Sea Level)	Depth to Water (Feet)	Water Level Elevation (Feet Above Mean Sea Level)	Comments
THIRD QUARTER 2013						
E-03	A	8/6/2013	942.9	60.56	882.34	
E-04	A	8/6/2013	942.13	56.85	885.28	
E-11	A	8/6/2013	952.99	---	---	DRY
E-16	A	8/5/2013	958.42	73.09	885.33	
E-17	A	8/6/2013	960.7	87.43	873.27	
EMW-03	A	8/6/2013	965.03	72.6	892.43	
EMW-06	A	8/6/2013	962.12	68.68	893.44	
EMW-07R	A	8/6/2013	957.434	66.51	890.92	
EMW-08R	A	8/6/2013	962.286	71.44	890.85	
EMW-09	A	8/6/2013	962.96	---	---	DRY
EMW-10R	A	8/6/2013	961.063	68.96	892.10	
EMW-11R	A	8/6/2013	958.492	67.68	890.81	
EMW-12R	A	8/6/2013	959.095	68.84	890.26	
EMW-13	A	8/6/2013	952.77	64.15	888.62	
EMW-14R	A	8/6/2013	958.177	67.84	890.34	
EMW-15	A	8/5/2013	960.2	65.03	895.17	
EMW-16	A	8/5/2013	964.46	66.4	898.06	
EMW-29A	A	8/6/2013	973.52	78.42	895.10	
EO-01	A	8/6/2013	946.41	64.35	882.06	
EO-02	A	8/6/2013	947.4	64.35	883.05	
EO-03	A	8/6/2013	946.95	62.54	884.41	
EO-04	A	8/6/2013	948.79	60.3	888.49	
EO-05	A	8/6/2013	952.15	61.79	890.36	
EO-07	A	8/6/2013	959.93	70.57	889.36	
EO-12	A	8/6/2013	958.78	---	---	DRY
EO-17	A	8/6/2013	964.14	75.14	889.00	
EP-02R	A	8/6/2013	955.535	64.12	891.42	
GMW-03	A	8/6/2013	963.64	70.6	893.04	
GMW-04	A	8/6/2013	966.62	73.06	893.56	
GMW-06	A	8/7/2013	965.03	71.67	893.36	
GMW-24A	A	8/6/2013	944.715	61.57	883.15	
IO-01	A	8/5/2013	936.51	45.8	890.71	
IO-02	A	8/5/2013	932.57	36.93	895.64	
IO-04	A	8/5/2013	940.18	57.43	882.75	
IO-05	A	8/5/2013	936.88	38.66	898.22	
IO-06	A	8/5/2013	942.65	61.34	881.31	
IO-07	A	8/5/2013	938.51	42.35	896.16	
IO-08	A	8/5/2013	945.94	67.03	878.91	
IO-09	A	8/5/2013	943	53.19	889.81	
IO-10	A	8/5/2013	943.02	56.45	886.57	
IO-12	A	8/5/2013	941.81	40.32	901.49	
IO-13	A	8/5/2013	950.99	58.68	892.31	
IO-14	A	8/5/2013	934.18	41.76	892.42	
IO-16	A	8/5/2013	935.03	34.59	900.44	
IO-17	A	8/5/2013	945.85	59.83	886.02	
IO-18	A	8/5/2013	956.6	64.15	892.45	
NEW-01	A	8/6/2013	939.87	57.9	881.97	
NEW-03	A	8/6/2013	955.19	65.29	889.90	
NEW-09	A	8/6/2013	958.03	69.52	888.51	

TABLE III
GROUNDWATER ELEVATIONS - SECOND SEMIANNUAL 2013
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well ID	Subunit	Date	Measuring Point Elevation (Feet Above Mean Sea Level)	Depth to Water (Feet)	Water Level Elevation (Feet Above Mean Sea Level)	Comments
COG-05	C	8/6/2013	975.27	97.9	877.37	
E-201	C	8/5/2013	971.35	95.15	876.20	
EMW-02	C	8/6/2013	964.66	83.18	881.48	
EMW-19LC	C	8/6/2013	955.75	75.47	880.28	
EMW-20LC	C	8/5/2013	963.81	83.81	880.00	
EMW-21UC	C	8/5/2013	971.01	91.62	879.39	
EMW-22LC	C	8/6/2013	966.12	87.24	878.88	
EMW-28LC	C	8/6/2013	957.25	77.11	880.14	
EMW-28UC	C	8/6/2013	957.67	77.55	880.12	
GAC-03	C	8/7/2013	966.06	84.7	881.36	
GMW-01	C	8/6/2013	964.16	84.9	879.26	
GMW-02	C	8/6/2013	964.41	86.92	877.49	
GMW-09MC	C	8/6/2013	963.85	85.5	878.35	
GMW-10LC	C	8/6/2013	956.56	76.4	880.16	
GMW-11LC	C	8/6/2013	957.9	77.45	880.45	
GMW-11UC	C	8/6/2013	957.8	77.5	880.30	
GMW-12LC	C	8/6/2013	962.92	82.32	880.60	
GMW-13UC	C	8/5/2013	966.81	88.15	878.66	
GMW-14UC	C	8/5/2013	972.63	94.59	878.04	
GMW-15UC	C	8/5/2013	970.81	94.81	876.00	
GMW-16UC	C	8/5/2013	974.29	98.92	875.37	
GMW-17UC	C	8/5/2013	976.42	100	876.42	
GMW-18UC	C	8/5/2013	979.46	100.43	879.03	
GMW-19LC	C	8/5/2013	975.68	100.92	874.76	
GMW-20LC	C	8/5/2013	979.85	106.33	873.52	
GMW-21UC	C	8/6/2013	961.18	81.35	879.83	
GMW-22UC	C	8/7/2013	963.18	80.34	882.84	
GMW-23UC	C	8/6/2013	962.962	83.25	879.71	
GMW-25LC	C	8/5/2013	981.323	108.08	873.24	
GMW-26LC	C	8/5/2013	977.402	103	874.40	
I-101	C	8/7/2013	963.06	81.02	882.04	
I-102	C	8/7/2013	962.33	71.31	891.02	
I-201	C	8/5/2013	973.52	13.2	960.32	
I-202	C	8/5/2013	973.24	7.45	965.79	
I-203	C	8/5/2013	956.54	9.68	946.86	
SB-06LC	C	8/5/2013	965.43	87.68	877.75	
SB-07LC	C	8/5/2013	966.56	89.1	877.46	
SB-08LC	C	8/5/2013	968.02	90.37	877.65	
SB-09LC	C	8/5/2013	968.53	91.96	876.57	
SB-10LC	C	8/5/2013	971.61	96.05	875.56	
SB-11LC	C	8/6/2013	958.91	79.19	879.72	
SB-12LC	C	8/5/2013	972.78	96.47	876.31	
SB-13LC	C	8/5/2013	972	96.17	875.83	

TABLE III
GROUNDWATER ELEVATIONS - SECOND SEMIANNUAL 2013
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well ID	Subunit	Date	Measuring Point Elevation (Feet Above Mean Sea Level)	Depth to Water (Feet)	Water Level Elevation (Feet Above Mean Sea Level)	Comments
FOURTH QUARTER 2013						
E-03	A	11/4/2013	942.9	58	884.90	
E-04	A	11/4/2013	942.13	56.74	885.39	
E-11	A	11/4/2013	952.99	64.58	888.41	
E-16	A	11/4/2013	958.42	80.12	878.30	
E-17	A	11/4/2013	960.7	90.71	869.99	
EMW-03	A	11/4/2013	965.03	73.73	891.30	
EMW-06	A	11/4/2013	962.12	70.43	891.69	
EMW-07R	A	11/4/2013	957.434	67.35	890.08	
EMW-08R	A	11/4/2013	962.286	73.27	889.02	
EMW-09	A	11/4/2013	962.96	---	---	DRY
EMW-10R	A	11/4/2013	961.063	70.8	890.26	
EMW-11R	A	11/4/2013	958.492	69.15	889.34	
EMW-12R	A	11/4/2013	959.095	69.71	889.39	
EMW-13	A	11/4/2013	952.77	64.54	888.23	
EMW-14R	A	11/4/2013	958.177	68.91	889.27	
EMW-15	A	11/4/2013	960.2	66.54	893.66	
EMW-16	A	11/4/2013	964.46	68.6	895.86	
EMW-29A	A	11/5/2013	973.52	79.63	893.89	
EO-01	A	11/4/2013	946.41	62.91	883.50	
EO-02	A	11/4/2013	947.4	63.3	884.10	
EO-03	A	11/4/2013	946.95	62.23	884.72	
EO-04	A	11/4/2013	948.79	61	887.79	
EO-05	A	11/4/2013	952.15	62.82	889.33	
EO-07	A	11/4/2013	959.93	71.66	888.27	
EO-12	A	11/4/2013	958.78	---	---	DRY
EO-17	A	11/4/2013	964.14	76.95	887.19	
EP-02R	A	11/4/2013	955.535	65.5	890.04	
GMW-03	A	11/5/2013	963.64	72.1	891.54	
GMW-04	A	11/4/2013	966.62	74.33	892.29	
GMW-06	A	11/4/2013	965.03	73.02	892.01	
GMW-24A	A	11/4/2013	944.715	59.18	885.54	
IO-01	A	11/4/2013	936.51	43.7	892.81	
IO-02	A	11/4/2013	932.57	35.7	896.87	
IO-04	A	11/4/2013	940.18	56.15	884.03	
IO-05	A	11/4/2013	936.88	38.4	898.48	
IO-06	A	11/4/2013	942.65	62.98	879.67	
IO-07	A	11/4/2013	938.51	42.42	896.09	
IO-08	A	11/4/2013	945.94	66.56	879.38	
IO-09	A	11/4/2013	943	54.7	888.30	
IO-10	A	11/4/2013	943.02	56.11	886.91	
IO-12	A	11/4/2013	941.81	44.2	897.61	
IO-13	A	11/4/2013	950.99	60	890.99	
IO-14	A	11/4/2013	934.18	39.82	894.36	
IO-16	A	11/4/2013	935.03	36.9	898.13	
IO-17	A	11/4/2013	945.85	60.82	885.03	
IO-18	A	11/4/2013	956.6	---	---	DRY
NEW-01	A	11/4/2013	939.87	55.55	884.32	

TABLE III
GROUNDWATER ELEVATIONS - SECOND SEMIANNUAL 2013
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well ID	Subunit	Date	Measuring Point Elevation (Feet Above Mean Sea Level)	Depth to Water (Feet)	Water Level Elevation (Feet Above Mean Sea Level)	Comments
NEW-03	A	11/4/2013	955.19	66.13	889.06	
NEW-04	A	11/4/2013	959.25	67.73	891.52	
NEW-09	A	11/5/2013	958.03	69.1	888.93	
COG-05	C	11/5/2013	975.27	90.42	884.85	
E-201	C	11/4/2013	971.35	88.83	882.52	
EMW-02	C	11/4/2013	964.66	76.36	888.30	
EMW-19LC	C	11/4/2013	955.75	70.13	885.62	
EMW-20LC	C	11/4/2013	963.81	77.77	886.04	
EMW-21UC	C	11/4/2013	971.01	85.31	885.70	
EMW-22LC	C	11/4/2013	966.12	79.62	886.50	
EMW-28LC	C	11/4/2013	957.25	71.22	886.03	
EMW-28UC	C	11/4/2013	957.67	71.71	885.96	
GAC-03	C	11/5/2013	966.06	78.65	887.41	
GMW-01	C	11/5/2013	964.16	77.16	887.00	
GMW-02	C	11/5/2013	964.41	77.26	887.15	
GMW-09MC	C	11/5/2013	963.85	77.2	886.65	
GMW-10LC	C	11/4/2013	956.56	69.9	886.66	
GMW-11LC	C	11/4/2013	957.9	71.07	886.83	
GMW-11UC	C	11/4/2013	957.8	71.12	886.68	
GMW-12LC	C	11/4/2013	962.92	76.26	886.66	
GMW-13UC	C	11/5/2013	966.81	80.02	886.79	
GMW-14UC	C	11/5/2013	972.63	86.88	885.75	
GMW-15UC	C	11/5/2013	970.81	88.1	882.71	
GMW-16UC	C	11/5/2013	974.29	92.3	881.99	
GMW-17UC	C	11/5/2013	976.42	92.95	883.47	
GMW-18UC	C	11/5/2013	979.46	92.65	886.81	
GMW-19LC	C	11/5/2013	975.68	94.31	881.37	
GMW-20LC	C	11/5/2013	979.85	100	879.85	
GMW-21UC	C	11/4/2013	961.18	74.6	886.58	
GMW-22UC	C	11/4/2013	963.18	74.95	888.23	
GMW-23UC	C	11/4/2013	962.962	76.45	886.51	
GMW-25LC	C	11/5/2013	981.323	101.6	879.72	
GMW-26LC	C	11/5/2013	977.402	96.5	880.90	
I-101	C	11/4/2013	963.06	75.63	887.43	
I-102	C	11/4/2013	962.33	71.45	890.88	
I-201	C	11/4/2013	973.52	7.12	966.40	
I-202	C	11/4/2013	973.24	4.8	968.44	
I-203	C	11/4/2013	956.54	6.82	949.72	
SB-06LC	C	11/4/2013	965.43	81.49	883.94	
SB-07LC	C	11/4/2013	966.56	82.96	883.60	
SB-08LC	C	11/4/2013	968.02	84	884.02	
SB-09LC	C	11/4/2013	968.53	85.72	882.81	
SB-10LC	C	11/4/2013	971.61	89.7	881.91	
SB-11LC	C	11/4/2013	958.91	72.72	886.19	
SB-12LC	C	11/4/2013	972.78	90.12	882.66	
SB-13LC	C	11/4/2013	972	90.18	881.82	

TABLE IV

TCE AND TOTAL AND DISSOLVED CHROMIUM RESULTS - SECOND SEMIANNUAL 2013
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Sample Date	Subunit	Chromium (µg/L)	Chromium ADEQ Qualifiers	Chromium, dissolved (µg/L)	Chromium, dissolved ADEQ Qualifiers	Trichloroethene (µg/L)	Trichloroethene ADEQ Qualifiers
E-03	8/9/2013	A					<0.5	
E-04	8/9/2013	A					45	
E-04	11/5/2013	A					36	
E-07R	7/1/2013	A	46		18		60	
E-07R	8/7/2013	A	43		35		58	
E-07R	9/4/2013	A	35		39		64	
E-07R	10/2/2013	A	44		3	E4	67	
E-07R	11/5/2013	A	41		17		66	
E-07R	12/2/2013	A	44		37		64	
E-12	7/1/2013	A	36		1	E4	110	D2
E-12	8/7/2013	A	37		<5.0		100	D2
E-12	9/4/2013	A	32		22		90	D1
E-12	10/2/2013	A	34		9.1		77	D1
E-12	11/5/2013	A	32		1.4	E4	85	D1
E-12	12/2/2013	A	34		0.9	E4	99	
E-17	7/1/2013	A	140		140		26	
E-17	8/7/2013	A	140		130		27	
E-17	9/4/2013	A	140		130		29	
E-17	10/2/2013	A	150		110		29	
E-17	11/5/2013	A	140		2.4	E4	29	
E-17	12/2/2013	A	140		39		31	
E-17 (Dup)	7/1/2013	A	140		130		28	
E-17 (Dup)	8/7/2013	A	140		130		27	
E-17 (Dup)	9/4/2013	A	150		140		29	
E-17 (Dup)	10/2/2013	A	140		110		29	
E-17 (Dup)	11/5/2013	A	140		2.1	E4	29	
E-17 (Dup)	12/2/2013	A	140		50		30	
EMW-03	8/8/2013	A	32		24		1.7	
EMW-03 (Dup)	8/8/2013	A	29		24		1.6	
EMW-06	8/8/2013	A	14		12		8.1	
EMW-07R	8/8/2013	A					0.3	E4
EMW-07R (Dup)	8/8/2013	A					0.3	E4
EMW-08R	8/8/2013	A	150		150		290	D2
EMW-10R	8/8/2013	A	29		30		430	D2
EMW-11R	8/8/2013	A	29		27		52	
EMW-12R	8/8/2013	A					17	
EMW-13	8/9/2013	A					1	
EMW-14R	8/8/2013	A	28		24		90	
EMW-15	8/9/2013	A					<0.5	
EP-02R	8/8/2013	A	16		12		51	
GMW-03	8/8/2013	A					1.1	
GMW-24A	8/9/2013	A					77	
GMW-24A	11/5/2013	A					74	
NE-02	8/7/2013	A	12		6.2		2	
NE-02	11/5/2013	A	8.7		4.2	E4	0.8	
NE-03	8/7/2013	A	16		15		34	
NE-03	11/5/2013	A	14		11		28	
NE-04	8/7/2013	A	29		26		46	M2
NE-04	11/5/2013	A	24		22		48	
NEW-01	8/9/2013	A					9.9	
NEW-01	11/5/2013	A					6.5	
NEW-01 (Dup)	11/5/2013	A					5.8	
NEW-03	8/8/2013	A	87		15		79	D2
COG-05	8/7/2013	C	690		<5.0		5.4	
COG-05	11/6/2013	C	83		<5.0		2.8	
COG-11	7/1/2013	C					0.5	S1
COG-11	8/7/2013	C					0.5	
COG-11	9/4/2013	C					0.6	
COG-11	10/2/2013	C					0.5	

TABLE IV
TCE AND TOTAL AND DISSOLVED CHROMIUM RESULTS - SECOND SEMIANNUAL 2013
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Sample Date	Subunit	Chromium (µg/L)	Chromium ADEQ Qualifiers	Chromium, dissolved (µg/L)	Chromium, dissolved ADEQ Qualifiers	Trichloroethene (µg/L)	Trichloroethene ADEQ Qualifiers
COG-11	11/5/2013	C					0.5	E4
COG-11	12/2/2013	C					1	
COG-20	7/1/2013	C					2.3	
COG-20	8/7/2013	C					2.3	
COG-20	9/4/2013	C					2.4	
COG-20	10/2/2013	C					0.6	
COG-20	11/5/2013	C					2.1	
COG-20	12/2/2013	C					2.4	
E-101	8/7/2013	C					32	
E-101	11/5/2013	C	940	R8	5.8		23	
E-101 (Dup)	11/5/2013	C	430	R8	5.8		23	
E-102	8/7/2013	C					3.1	
E-102	11/6/2013	C	15		8		3	
E-102 (Dup)	8/7/2013	C					3.1	
E-201	8/7/2013	C					0.7	
E-201	11/5/2013	C					0.9	
GAC-02	8/7/2013	C	18		13		4.6	
GAC-02	11/5/2013	C	16		11		2.7	
GAC-02 (Dup)	8/7/2013	C	17		15		3.8	
GAC-02 (Dup)	11/5/2013	C	16		9.7		2.3	
GAC-03	8/7/2013	C	130		6.7		33	
GAC-03	11/5/2013	C	84		4.5	E4	22	
GMW-01	8/8/2013	C	10		5		<0.5	
GMW-01	11/6/2013	C	19		1.3	E4	<0.5	
GMW-02	8/8/2013	C	140		130		43	
GMW-02_165'	10/21/2013	C	150		110		10	
GMW-02_175'	10/21/2013	C	140		150		33	
GMW-02_185'	10/21/2013	C	160		130		40	
GMW-02	11/6/2013	C	190		70		49	
GMW-09MC	8/8/2013	C	820		2.6	E4	<0.5	
GMW-09MC	11/6/2013	C	7300		8.4		<0.5	
GMW-10LC	8/8/2013	C					0.9	
GMW-11UC	8/8/2013	C					1.1	D1
GMW-13UC	8/8/2013	C	450		390		75	
GMW-13UC_195'	10/21/2013	C	430		430		81	D1
GMW-13UC_195' (Dup)	10/21/2013	C					91	
GMW-13UC_205'	10/21/2013	C	400		430		73	
GMW-13UC_215'	10/21/2013	C	420		350		45	
GMW-13UC_225'	10/21/2013	C	430		410		80	
GMW-13UC	11/6/2013	C	460		50		59	
GMW-13UC (Dup)	8/8/2013	C	410		360		71	
GMW-14UC	8/9/2013	C					5.9	
GMW-14UC_207'	10/21/2013	C	28		5.2		4	
GMW-14UC_217'	10/21/2013	C	11		10		4.4	
GMW-14UC_227'	10/21/2013	C	13		2.9	E4	2.1	
GMW-14UC_237'	10/21/2013	C	6.5		4.6	E4	1.2	
GMW-14UC	11/6/2013	C	23		3.9	E4	3.8	
GMW-15UC	8/9/2013	C					0.3	E4
GMW-15UC	11/6/2013	C	8	B1	<5.0		0.1	E4
GMW-16UC	8/9/2013	C					9.7	
GMW-16UC	11/6/2013	C	17		5.4		6.4	
GMW-17UC	8/9/2013	C					10	
GMW-17UC	11/6/2013	C	47		9.5		14	
GMW-18UC	8/9/2013	C					2.7	
GMW-18UC	11/6/2013	C	15		8.3		2.5	
GMW-19LC	8/9/2013	C					13	
GMW-19LC	11/6/2013	C	55		24		15	
GMW-20LC	8/9/2013	C					1.4	
GMW-20LC	11/6/2013	C	37		6		1.9	

TABLE IV
TCE AND TOTAL AND DISSOLVED CHROMIUM RESULTS - SECOND SEMIANNUAL 2013
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Sample Date	Subunit	Chromium (µg/L)	Chromium ADEQ Qualifiers	Chromium, dissolved (µg/L)	Chromium, dissolved ADEQ Qualifiers	Trichloroethene (µg/L)	Trichloroethene ADEQ Qualifiers
GMW-21UC	8/8/2013	C					0.2	E4
GMW-23UC	8/8/2013	C					<0.5	
GMW-25LC	8/12/2013	C	18		18	D2, N2	<0.5	
GMW-25LC	11/6/2013	C	24		17		<0.5	
GMW-26LC	8/12/2013	C	4.9	E4	4.5	D1	1.2	
GMW-26LC	11/6/2013	C	8.7		1.2	E4	1.7	
SB-06LC	8/9/2013	C					0.3	E4
SB-06UC	8/9/2013	C					4.2	
SB-08LC	8/9/2013	C					0.3	E4
SB-08UC	8/9/2013	C					0.3	E4
SB-09LC	8/9/2013	C					0.5	
SB-10LC	8/9/2013	C					0.3	E4
SB-11LC	8/8/2013	C					0.9	
TREATMENT SYSTEMS								
AST-INF	7/1/2013	A	65		63		35	
AST-INF	8/7/2013	A	65		65		34	
AST-INF	9/4/2013	A	67		66		33	
AST-INF	10/2/2013	A	75		68		37	
AST-INF	11/5/2013	A	75		70		33	
AST-INF	12/2/2013	A	74		72		34	
AST-EFF	8/7/2013	A	67		53		0.2	E4
AST-EFF	9/4/2013	A	69		60		0.2	E4
AST-EFF	10/2/2013	A	86		64		<0.5	
AST-EFF	11/5/2013	A	67		61		0.1	E4
AST-EFF	12/2/2013	A	99*		53		<0.5	
GAC-02 EFF	7/1/2013	C	21		11		<0.5	
GAC-02 EFF	8/7/2013	C	14		1.7	E4	<0.5	
GAC-02 EFF	9/4/2013	C	9.9		0.99	E4	<0.5	
GAC-02 EFF	10/2/2013	C	12		4.5	E4	<0.5	
GAC-02 EFF	11/5/2013	C	2.2	E4	2.3	E4	<0.5	
GAC-02 EFF	12/2/2013	C	2.2	E4	2.2	E4	<0.5	
GAC-02 INF	7/1/2013	C	11		9.6		2.7	
GAC-02 INF	8/7/2013	C	12		9		3	
GAC-02 INF	9/4/2013	C	8.8		10		3.5	Q2
GAC-02 INF	10/2/2013	C	14		10		3.3	
GAC-02 INF	11/5/2013	C	21		6.1		2.7	
GAC-02 INF	12/2/2013	C	13		7.4		3.7	

NOTES:
1. ug/L = Micrograms per liter.
2. < = Analyte was not detected below reporting limit.
3. (dup) = Field duplicate.
4. * = A confirmation AST-EFF sample was collected shortly after receipt of the initial 02 December 2013 sample. The total chromium concentration in the confirmation sample was 74 ug/L, consistent with historical concentrations.

ADEQ Qualifiers:
D1 = Dilution was required due to associated matrix sample
D2 = Dilution was required due to high concentration of target analyte
E4 = Analtye was detected between the reporting limit and the method detection limit
M2 = The MS/MSD of sample NE-04 had a low recovery for trichloroethene.
N2 = Dilution was required.
Q2 = Sample received with head space.
S1 = Surrogate recovery was above laboratory acceptance limits, but within method acceptance limits.
R8 = Sample RPD exceeded the method acceptance limit.

TABLE V
SUBUNIT A SYSTEM INFORMATION
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

	SUBUNIT A TREATMENT SYSTEM - SECOND HALF 2013					
	July	August	September	October	November	December
Average Flow Rate (gpm)	399	394	381	380	382	377
Total Extracted (Mgal)	15.4	16.5	16.5	17	16.5	16.8
Influent TCE Concentration (ug/L)	35	34	33	37	33	34
Effluent TCE Concentration (ug/L)	0.2	0.2 J	0.2 J	<0.1	0.1 J	<0.1
TCE Removed (pounds)	4.6	4.6	4.5	5.2	4.5	4.8

Second Half 2013 Uptime =	96.7%
Second Half 2013 Average Flow Rate (gpm) =	385.5
Second Half 2013 Extraction (Mgal) =	98.7
Second Half 2013 TCE Mass Removal (lbs) =	28.2
Cumulative TCE Mass Removal (lbs) =	5652.7

Extraction Wells: NE-02, NE-03, NE-04, NE-07R, E-12, E-16, E-17

Injection Wells: I-02, I-05, I-06, I-12, I-13, I-14, I-16, I-17, and I-18

NOTES:
1. Mgal = million gallons
2. ug/L = micrograms per liter
3. gpm = gallons per minute
4. lbs = pounds
5. J = Estimated value. The analtye was detected between the reporting limit and the method detection limit.
6. < = Analyte not detected. Numerical value equals the method detection limit.

TABLE VI
SUBUNIT C SYSTEM INFORMATION
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

	NORTHERN SUBUNIT C TREATMENT SYSTEM - SECOND HALF 2013					
Well E-102	July	August	September	October	November	December
Average Flow Rate (gpm)	160	160	160	160	160	155
Total Extracted (Mgal)	7.2	7.2	6.9	7.2	6.9	6.9
Influent TCE Concentration (ug/L)	2.7	---	---	---	2.7	---
TCE Removed (pounds)	0.2	0.2	0.2	0.2	0.2	0.2

	WELL E-101 AND GAC-02 (TREATED BY OTHERS) - SECOND HALF 2013											
	July		August		September		October		November		December	
Wells E-101 and GAC-02	GAC-02	E-101	GAC-02	E-101	GAC-02	E-101	GAC-02	E-101	GAC-02	E-101	GAC-02	E-101
Total Extracted (Mgal)	6.82	0	6.8	0	4.82	0	4.73	0	2.13	0	1.53	0
Influent TCE Concentration (ug/L)	---	---	4.6	32	---	---	---	---	2.7	25	---	---
TCE Removed (pounds)	0.26	0	0.26	0	0.19	0	0.11	0	0.05	0	0.03	0

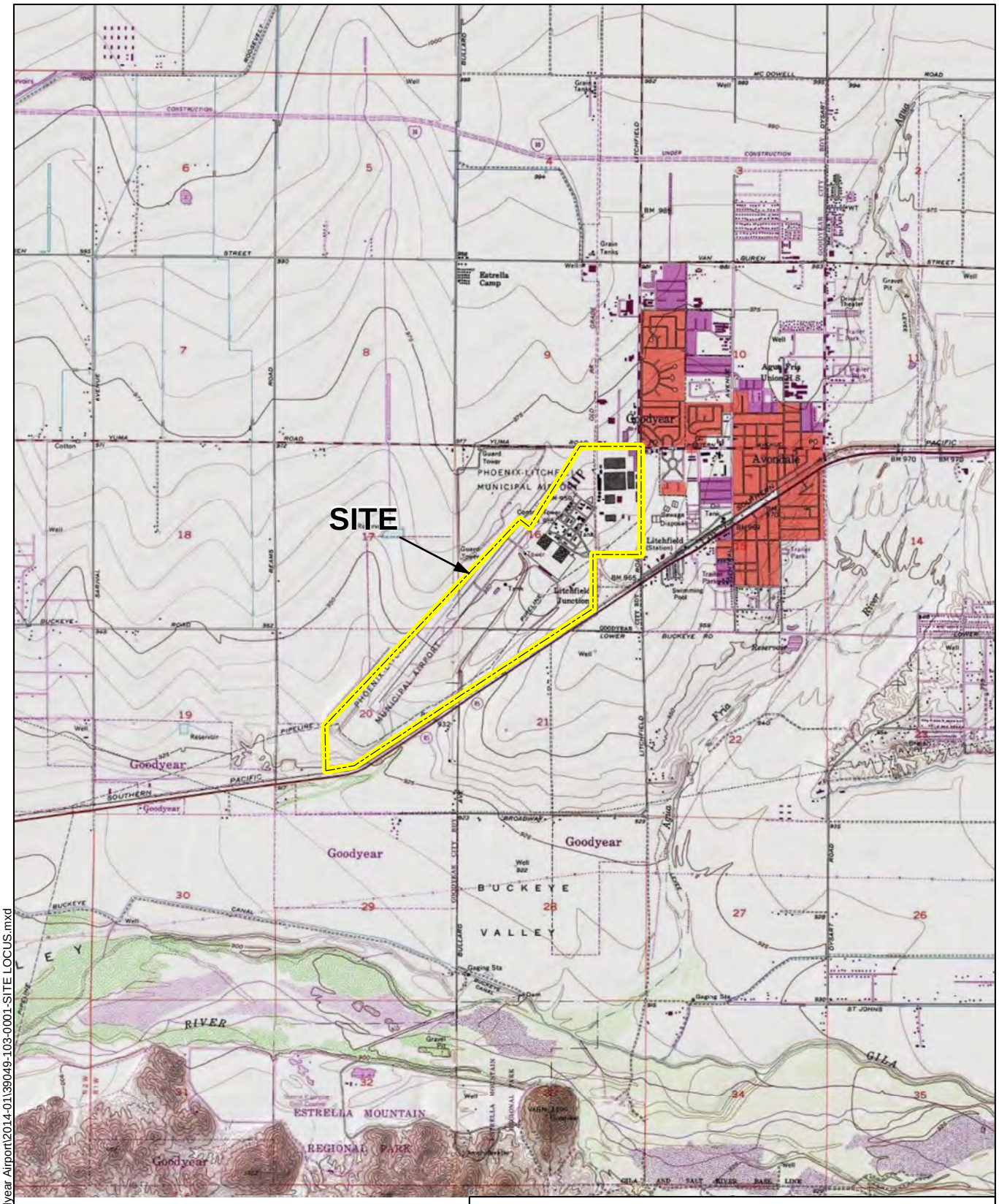
Northern Subunit C System

Second Half 2013 Uptime =	100.0%
Second Half 2013 Average Flow Rate (gpm) =	159.2
Second Half 2013 Extraction (Mgal) =	42.3
Second Half 2013 TCE Mass Removal (lbs) =	1.2
Cumulative TCE Mass Removal (lbs) =	69.4

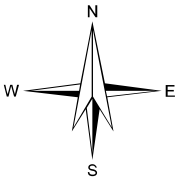
Extraction Wells: E-102

Injection Wells: I-201, I-202, I-203

NOTES:
1. Mgal = million gallons
2. ug/L = micrograms per liter
3. gpm = gallons per minute
4. lbs = pounds
5. "---" = not sampled
6. Extraction well E-101 is available as a backup in the event of failure of the JRC Goodyear production well (GAC-02).
7. GAC-02 is a production well maintained by JRC Goodyear and operated for use by Lockheed Martin. GAC-02 is not treated by the Subunit C treatment system.
8. Monthly GAC-02 flow data for July - December 2013 was provided by JRC Goodyear.



SITE COORDINATES: 33°26'5.71"N 112°21'29.15"WW



U.S.G.S. QUADRANGLE: TOLLESON, ARIZONA

HALEY & ALDRICH

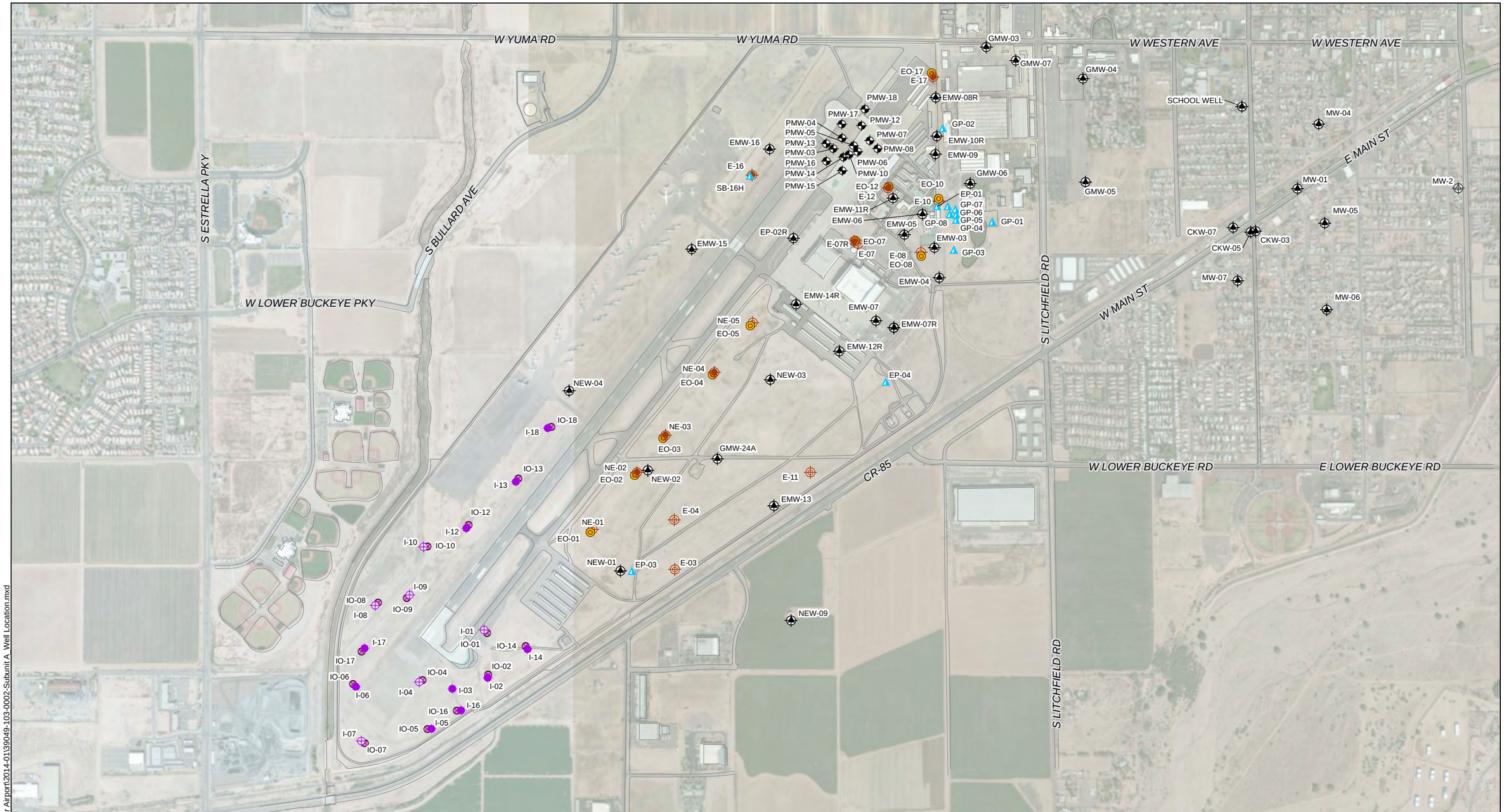
PHOENIX GOODYEAR AIRPORT -SOUTH
GOODYEAR, ARIZONA

PROJECT LOCUS

SCALE: 1:48,000
FEBRUARY 2014

FIGURE 1

Document Path: C:\Files\Phoenix Goodyear Airport\2014-01\39049-103-0001-SITE LOCUS.mxd



LEGEND

- PIEZOMETER
- EXTRACTION WELL - IN OPERATION
- EXTRACTION WELL - INACTIVE
- EXTRACTION WELL -OBSERVATION
- INJECTION WELL - IN OPERATION
- INJECTION WELL - INACTIVE
- INJECTION WELL - OBSERVATION
- MONITORING WELL
- MONITORING WELL - CITY OF PHOENIX
- MONITORING WELL - NOT USED

NOTES:

1. ALL LOCATIONS AND DIMENSION ARE APPROXIMATE.

N
W E
S

0 1,200 2,400
SCALE IN FEET

HALEY & ALDRICH

PHOENIX GOODYEAR AIRPORT - SOUTH
PHOENIX, ARIZONA

SUBUNIT A WELL LOCATION MAP

SCALE: AS SHOWN
FEBRUARY 2014

FIGURE 2

Document Path: C:\Files\Phoenix Goodyear Airport\2014-01\39049-103-0002-Subunit A Well Location.mxd

LEGEND

- EXTRACTION WELL - IN OPERATION
- EXTRACTION WELL - INACTIVE
- INJECTION WELL -IN OPERATION
- INJECTION WELL - INACTIVE
- INJECTION WELL -OBSERVATION
- PRODUCTION WELL - IN OPERATION
- PRODUCTION WELL -INACTIVE
- PRODUCTION WELL - ABANDONED
- MONITORING WELL -LOWER SUBUNIT C
- MONITORING WELL -UPPER SUBUNIT C
- MONITORING WELL
- MONITORING WELL -NOT USED

NOTES:

1. ALL LOCATIONS AND DIMENSION ARE APPROXIMATE.

N
W E
S

0 800 1,600
SCALE IN FEET

HALEY & ALDRICH

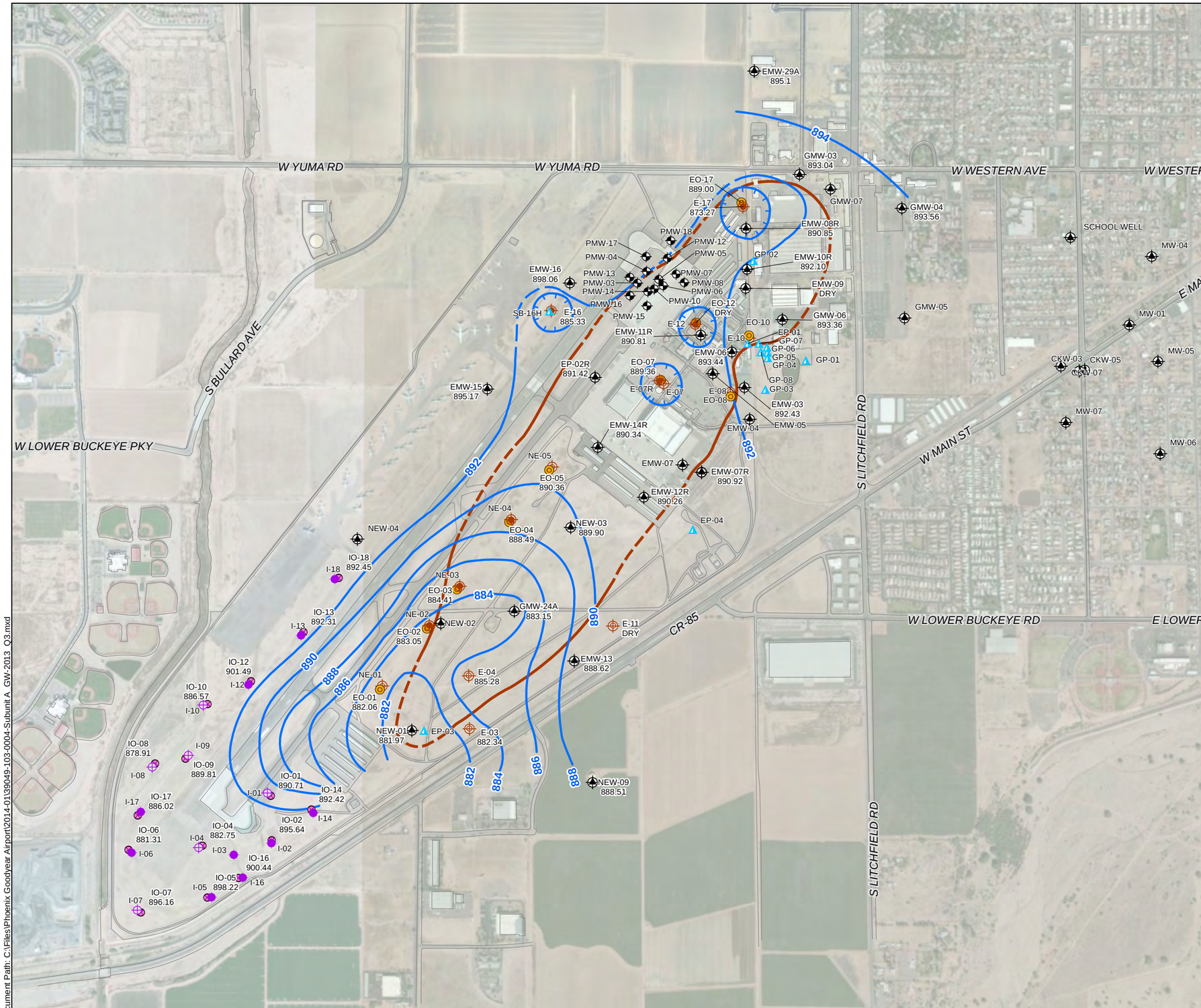
PHOENIX GOODYEAR AIRPORT - SOUTH
PHOENIX, ARIZONA

SUBUNIT C WELL LOCATION MAP

SCALE: AS SHOWN
FEBRUARY 2014

FIGURE 3

Document Path: C:\Files\Phoenix Goodyear Airport\2014-01\39049-103-0003-Subunit C_Well Location.mxd



LEGEND

- PIEZOMETER
- EXTRACTION WELL - IN OPERATION
- EXTRACTION WELL - INACTIVE
- EXTRACTION WELL -OBSERVATION
- INJECTION WELL - IN OPERATION
- INJECTION WELL - INACTIVE
- INJECTION WELL - OBSERVATION
- MONITORING WELL
- MONITORING WELL - CITY OF PHOENIX
- MONITORING WELL - NOT USED
- GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- 5 ug/L TCE CONTOUR LINE (Q3 2013 DATA) DASHED WHERE INFERRED
- 896.50 GROUNDWATER ELEVATION IN FOOT-MSL AUGUST 2013

NOTES:

1. ALL LOCATIONS AND DIMENSION ARE APPROXIMATE.
2. EXTRACTION WELLS NE-02, NE-03, NE-04, E-07R, E-12, E-16, AND E-17 WERE IN OPERATION AT THE TIME OF SAMPLING.

N
W E
S

0 1,200 2,400
SCALE IN FEET

HALEY & ALDRICH

PHOENIX GOODYEAR AIRPORT -SOUTH
PHOENIX, ARIZONA

WATER LEVEL CONTOUR MAP - SUBUNIT A
THIRD QUARTER 2013

SCALE: AS SHOWN
FEBRUARY 2014

FIGURE 4

Document Path: C:\Files\Phoenix Goodyear Airport\2014-0139049-103-0004-Subunit A_GW-2013_Q3.mxd

LEGEND

- EXTRACTION WELL - IN OPERATION
- EXTRACTION WELL - INACTIVE
- INJECTION WELL -IN OPERATION
- INJECTION WELL - INACTIVE
- INJECTION WELL -OBSERVATION
- PRODUCTION WELL - IN OPERATION
- PRODUCTION WELL -INACTIVE
- PRODUCTION WELL - ABANDONED
- MONITORING WELL -LOWER SUBUNIT C
- MONITORING WELL -UPPER SUBUNIT C
- MONITORING WELL
- MONITORING WELL -NOT USED
- GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- 5 ug/L TCE CONTOUT LINE (Q3 2013 DATA) DASHED WHERE INFERRED
- 894.69 GROUNDWATER ELEVATION IN FOOT-MSL AUGUST 2013

NOTES:

1. ALL LOCATIONS AND DIMENSION ARE APPROXIMATE.
2. * = ANOMALOUS MEASUREMENTS NOT USED IN CONTOURING.

N
W E
S

0 800 1,600
SCALE IN FEET

HALEY & ALDRICH

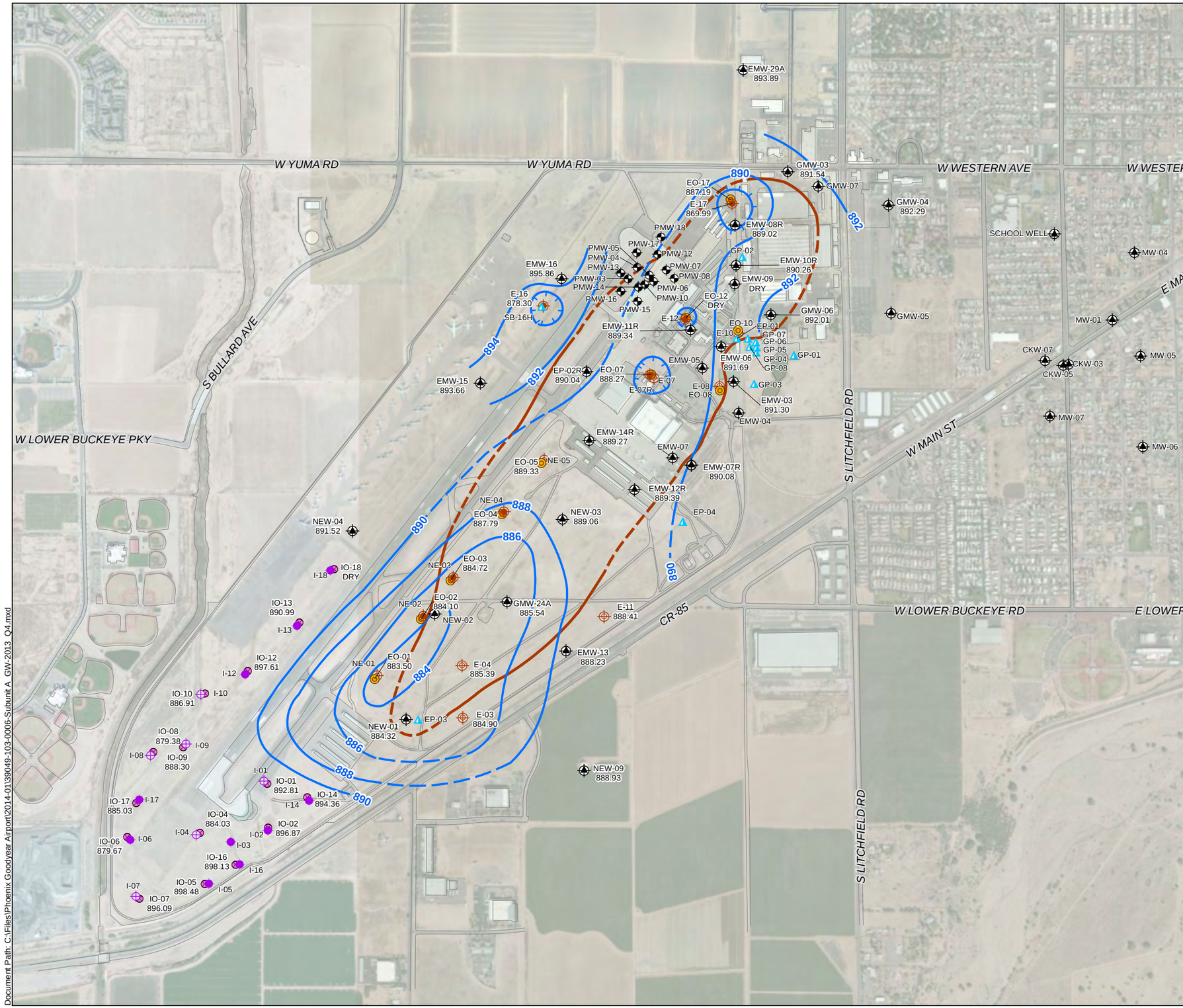
PHOENIX GOODYEAR AIRPORT -SOUTH
PHOENIX, ARIZONA

WATER LEVEL CONTOUR MAP - SUBUNIT C
THIRD QUARTER 2013

SCALE: AS SHOWN
FEBRUARY 2014

FIGURE 5

Document Path: C:\Files\Phoenix Goodyear Airport\2014-01139049-103-0005-Subunit C_GW-2013_Q3.mxd



LEGEND

- PIEZOMETER
- EXTRACTION WELL - IN OPERATION
- EXTRACTION WELL - INACTIVE
- EXTRACTION WELL -OBSERVATION
- INJECTION WELL - IN OPERATION
- INJECTION WELL - INACTIVE
- INJECTION WELL - OBSERVATION
- MONITORING WELL
- MONITORING WELL - CITY OF PHOENIX
- MONITORING WELL - NOT USED
- GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- 5 ug/L TCE CONTOUR LINE (Q3 2013 DATA) DASHED WHERE INFERRED
- 896.50 GROUNDWATER ELEVATION IN FOOT-MSL NOVEMBER 2013

NOTES:

1. ALL LOCATIONS AND DIMENSION ARE APPROXIMATE.
2. EXTRACTION WELLS NE-02, NE-03, NE-04, E-07R, E-12, E-16, AND E-17 WERE IN OPERATION AT THE TIME OF SAMPLING.

N
W E
S

0 1,200 2,400
SCALE IN FEET

HALEY & ALDRICH

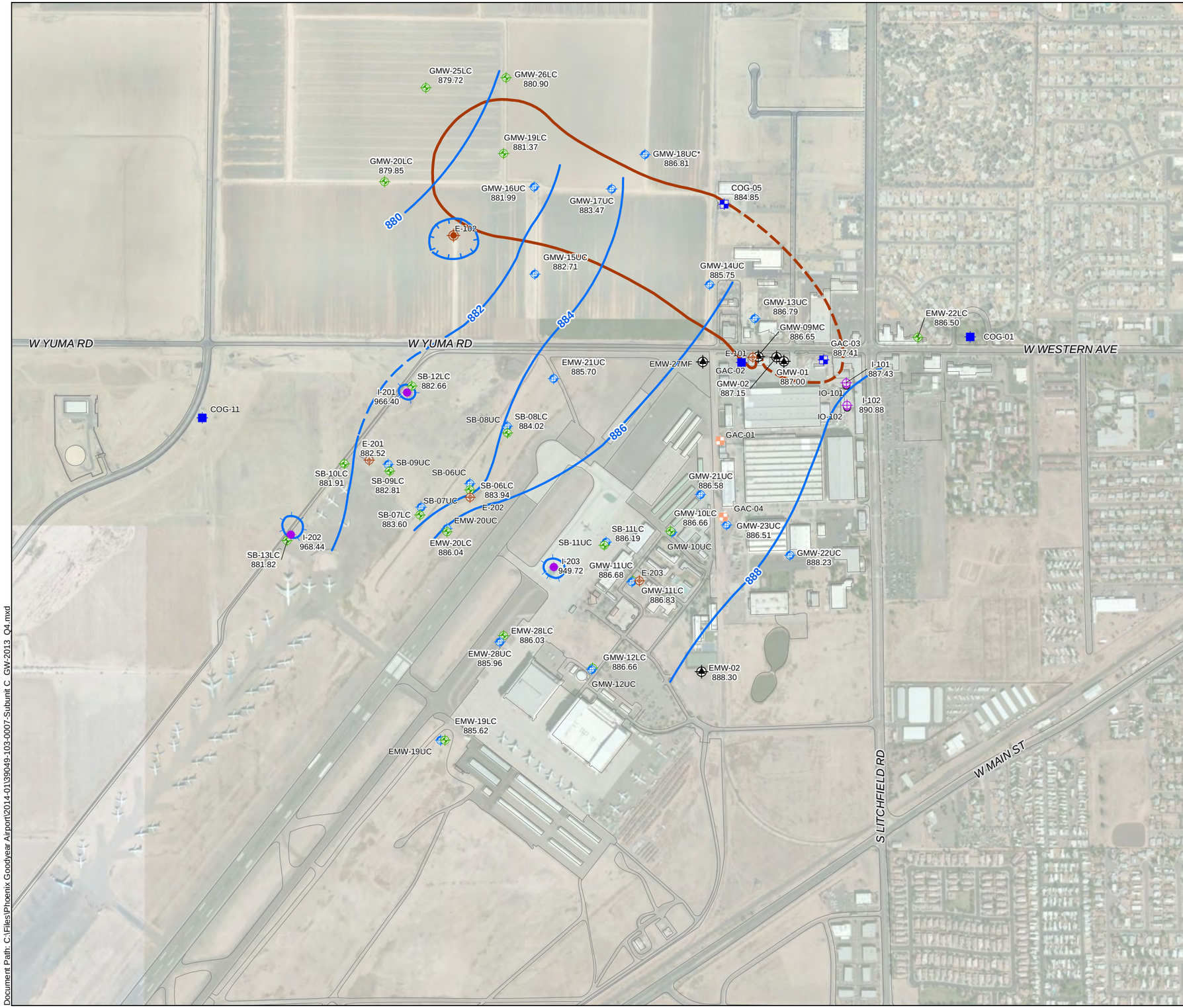
PHOENIX GOODYEAR AIRPORT - SOUTH
PHOENIX, ARIZONA

WATER LEVEL CONTOUR MAP - SUBUNIT A
FOURTH QUARTER 2013

SCALE: AS SHOWN
FEBRUARY 2014

FIGURE 6

Document Path: C:\Files\Phoenix Goodyear Airport\2014-01\39049-103-0006-Subunit A_GW-2013_Q4.mxd



LEGEND

- EXTRACTION WELL - IN OPERATION
- EXTRACTION WELL - INACTIVE
- INJECTION WELL -IN OPERATION
- INJECTION WELL - INACTIVE
- INJECTION WELL -OBSERVATION
- PRODUCTION WELL - IN OPERATION
- PRODUCTION WELL -INACTIVE
- PRODUCTION WELL - ABANDONED
- MONITORING WELL -LOWER SUBUNIT C
- MONITORING WELL -UPPER SUBUNIT C
- MONITORING WELL
- MONITORING WELL -NOT USED
- GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- 5 ug/L TCE CONTOUR LINE (Q3 2013 DATA) DASHED WHERE INFERRED
- 896.50 GROUNDWATER ELEVATION IN FOOT-MSL NOVEMBER 2013

NOTES:

1. ALL LOCATIONS AND DIMENSION ARE APPROXIMATE.
2. * = ANOMALOUS MEASUREMENTS NOT USED IN CONTOURING.

N
W E
S

0 800 1,600
SCALE IN FEET

HALEY & ALDRICH

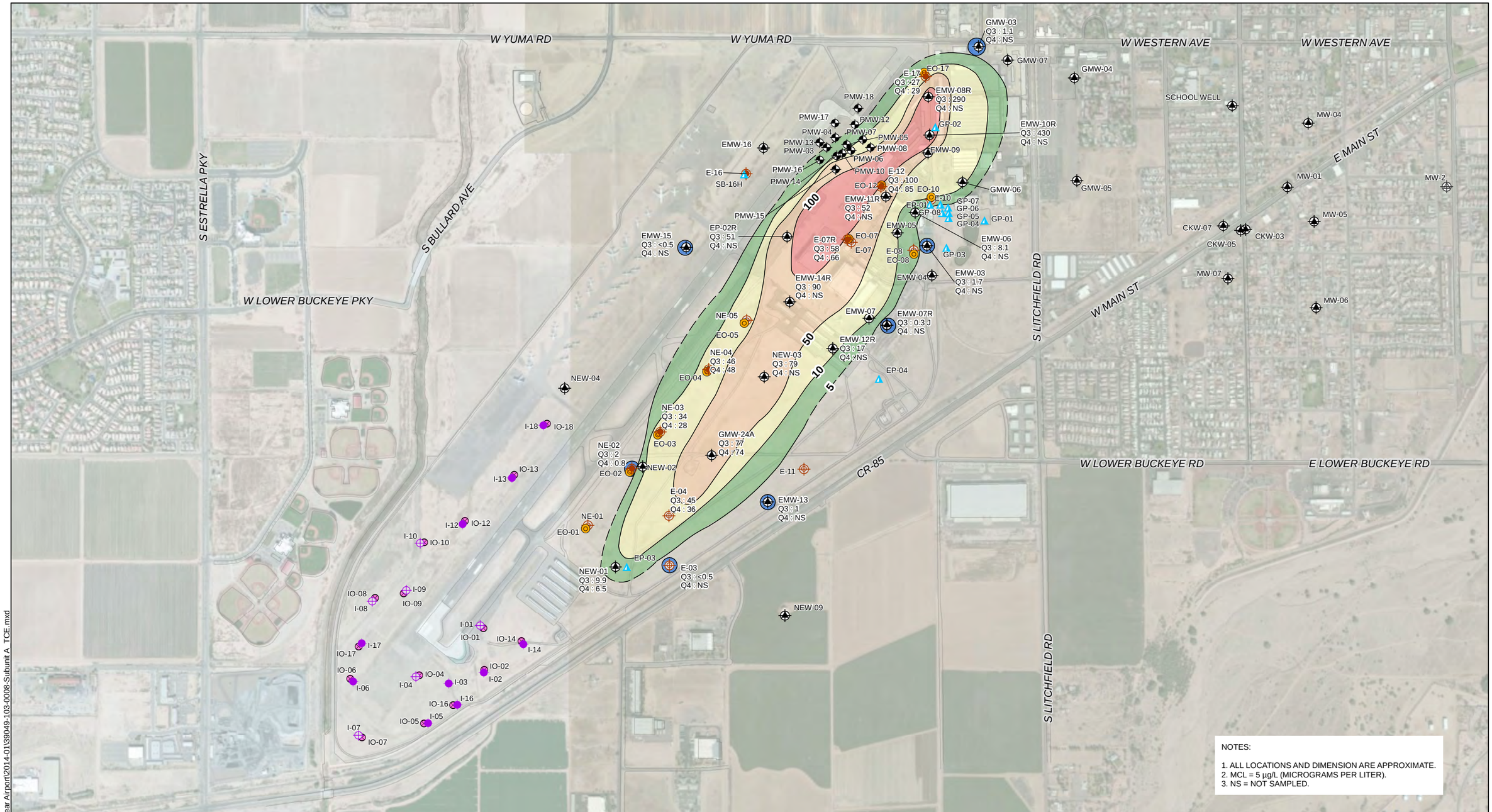
PHOENIX GOODYEAR AIRPORT
PHOENIX, ARIZONA - SOUTH

WATER LEVEL CONTOUR MAP - SUBUNIT C
FOURTH QUARTER 2013

SCALE: AS SHOWN
FEBRUARY 2014

FIGURE 7

Document Path: C:\Files\Phoenix Goodyear Airport\2014-01139049-103-0007-Subunit C_GW-2013_Q4.mxd



NOTES:

1. ALL LOCATIONS AND DIMENSION ARE APPROXIMATE.
2. MCL = 5 µg/L (MICROGRAMS PER LITER).
3. NS = NOT SAMPLED.

LEGEND

- PIEZOMETER
- EXTRACTION WELL - IN OPERATION
- EXTRACTION WELL - INACTIVE
- EXTRACTION WELL - OBSERVATION
- INJECTION WELL - IN OPERATION
- INJECTION WELL - INACTIVE
- INJECTION WELL - OBSERVATION
- MONITORING WELL
- MONITORING WELL - CITY OF PHOENIX
- MONITORING WELL - NOT USED

TCE CONCENTRATION (µg/L)

- <5 OR ND
- 5 - 10
- 10 - 50
- 50 - 100
- >100

— 5 — TCE CONCENTRATION CONTOUR LINE (µg/L) - DASHED WHERE INFERRED BASED ON THIRD QUARTER 2013 DATA

NE-04 WELL ID
Q3 : 45 THIRD QUARTER DATA
Q4 : 41 FOURTH QUARTER DATA

N
W E
S

0 1,200 2,400
SCALE IN FEET

HALEY & ALDRICH

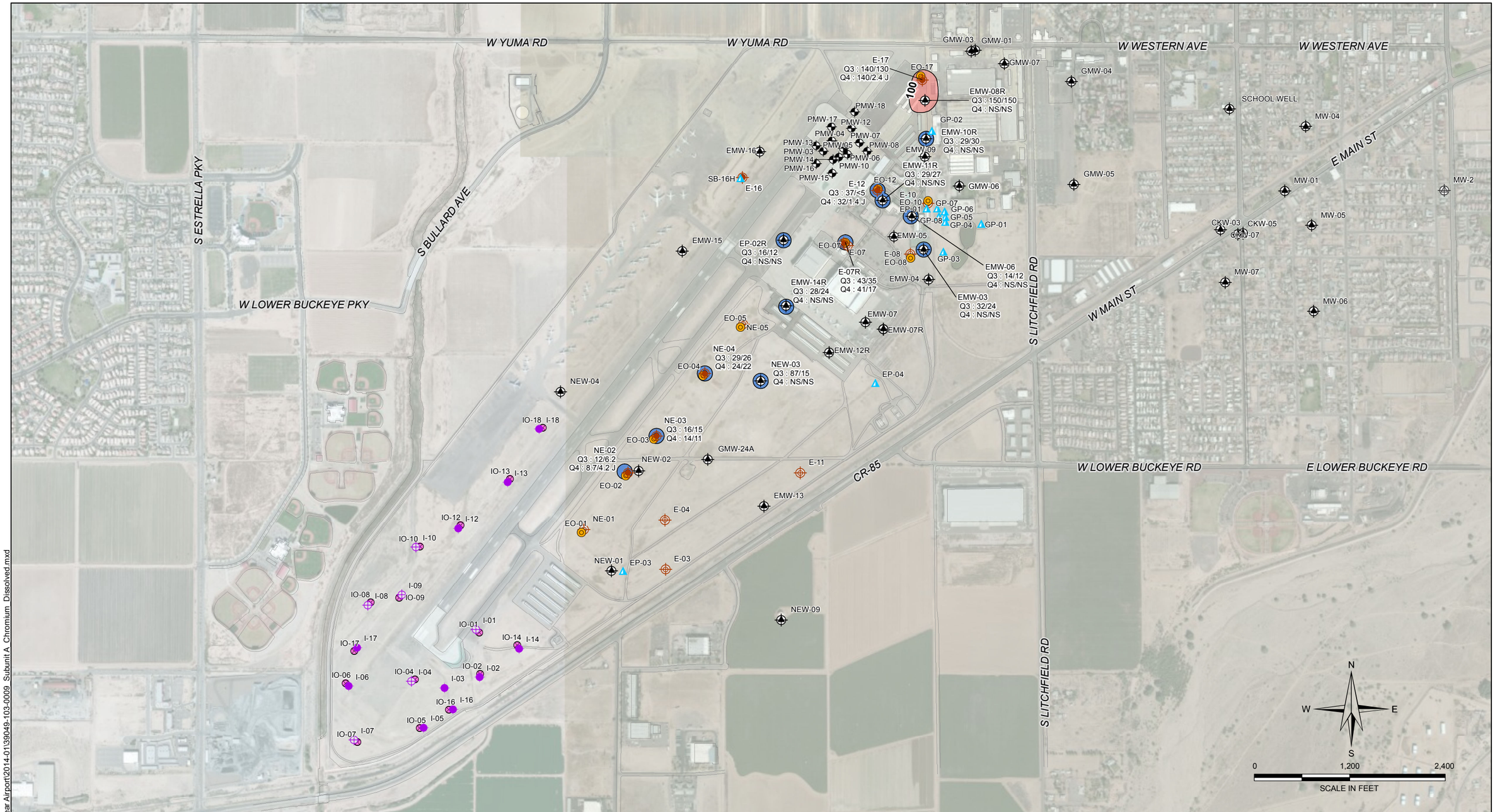
PHOENIX GOODYEAR AIRPORT - SOUTH
PHOENIX, ARIZONA

TCE CONCENTRATIONS IN SUBUNIT A GROUNDWATER - SECOND HALF 2013

SCALE: AS SHOWN
FEBRUARY 2014

FIGURE 8

Document Path: C:\Files\Phoenix Goodyear Airport\2014-01\39049-103-0008-Subunit A_TCE.mxd



LEGEND

- PIEZOMETER
- EXTRACTION WELL - IN OPERATION
- EXTRACTION WELL - INACTIVE
- EXTRACTION WELL -OBSERVATION
- INJECTION WELL - IN OPERATION
- INJECTION WELL - INACTIVE
- INJECTION WELL - OBSERVATION
- MONITORING WELL
- MONITORING WELL - CITY OF PHOENIX
- MONITORING WELL - NOT USED

DISSOLVED CHROMIUM CONCENTRATION (µg/L)

- <100
- >100
- —100— DISSOLVED CHROMIUM ISOCONCENTRATION CONTOUR BASED ON THIRD QUARTER 2013 DATA

NE-02 WELL ID
Q3 : 17/13 THIRD QUARTER: TOTAL/DISSOLVED CHROMIUM DATA
Q4 : 16/11 FOURTH QUARTER: TOTAL/DISSOLVED CHROMIUM DATA

NOTES:

1. ALL LOCATIONS AND DIMENSION ARE APPROXIMATE.
2. MCL = 100 µg/L (MICROGRAMS PER LITER).
3. NS = NOT SAMPLED.

HALEY & ALDRICH

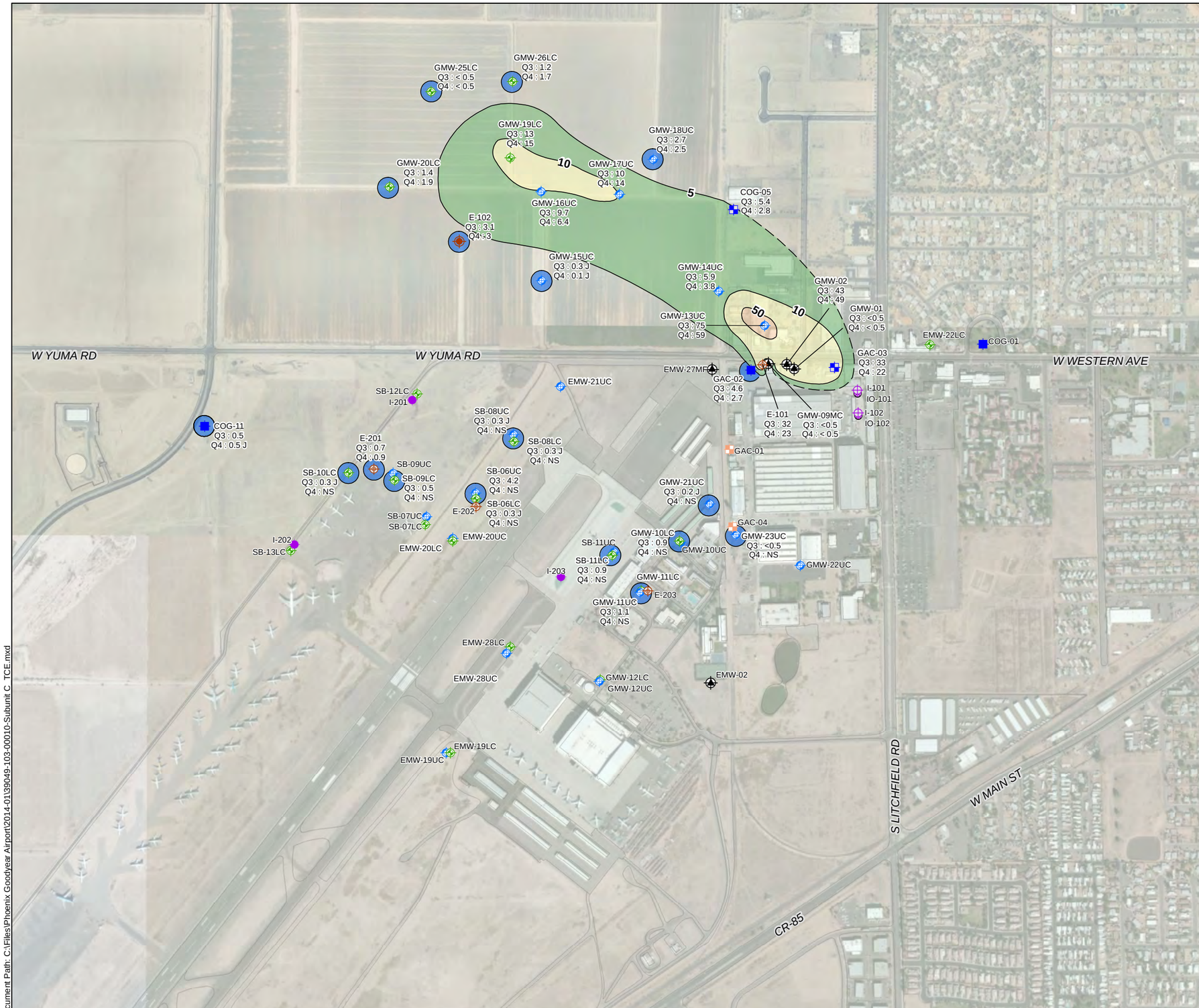
PHOENIX GOODYEAR AIRPORT -SOUTH
PHOENIX, ARIZONA

TOTAL AND DISSOLVED CHROMIUM IN SUBUNIT A GROUNDWATER - SECOND HALF 2013

SCALE: AS SHOWN
FEBRUARY 2014

FIGURE 9

Document Path: C:\Files\Phoenix Goodyear Airport\2014-01\39049-103-0009_Subunit A_Chromium_Dissolved.mxd



LEGEND

- EXTRACTION WELL - IN OPERATION
- EXTRACTION WELL - INACTIVE
- INJECTION WELL -IN OPERATION
- INJECTION WELL - INACTIVE
- INJECTION WELL -OBSERVATION
- PRODUCTION WELL - IN OPERATION
- PRODUCTION WELL -INACTIVE
- PRODUCTION WELL - ABANDONED
- MONITORING WELL -LOWER SUBUNIT C
- MONITORING WELL -UPPER SUBUNIT C
- MONITORING WELL
- MONITORING WELL -NOT USED

TCE CONCENTRATION (µg/L)

- <5 OR ND
- 5 - 10
- 10 - 50
- 50 - 100
- >100
- — 5 — TCE CONCENTRATION CONTOUR LINE (µg/L) - DASHED WHERE INFERRED BASED ON THIRD QUARTER 2013 DATA

GMW-15UC WELL ID
Q3 : 0.1 J THIRD QUARTER DATA
Q4 : <0.5 FOURTH QUARTER DATA

NOTES:

1. ALL LOCATIONS AND DIMENSION ARE APPROXIMATE.
2. MCL = 5 µg/L (MICROGRAMS PER LITER).
3. NS = NOT SAMPLED.

N
W E
S

0 800 1,600
SCALE IN FEET

HALEY & ALDRICH

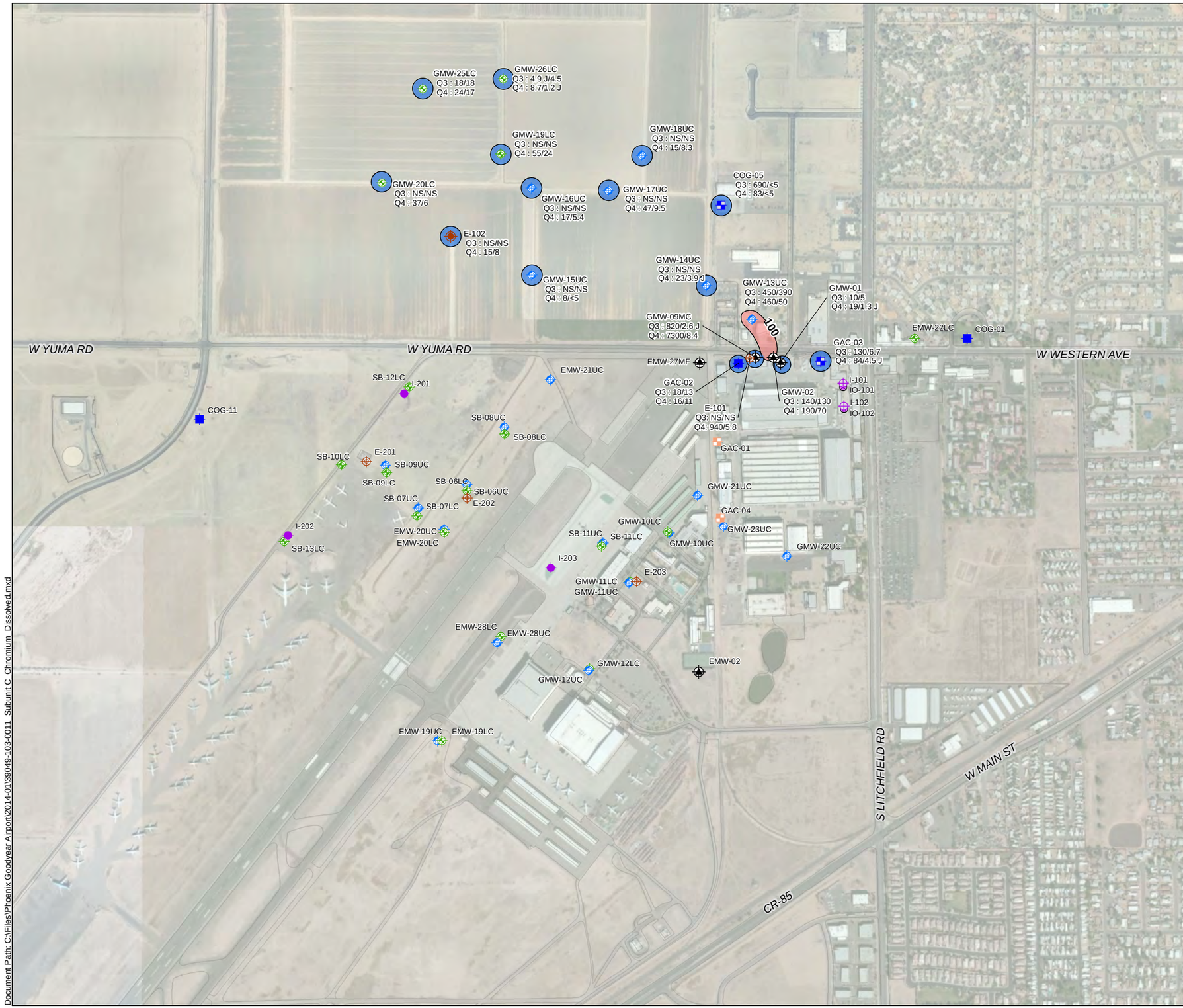
PHOENIX GOODYEAR AIRPORT - SOUTH
PHOENIX, ARIZONA

TCE CONCENTRATIONS IN SUBUNIT C GROUNDWATER - SECOND HALF 2013

SCALE: AS SHOWN
FEBRUARY 2014

FIGURE 10

Document Path: C:\Files\Phoenix Goodyear Airport\2014-01\39049-103-00010-Subunit C_TCE.mxd



LEGEND

- EXTRACTION WELL - IN OPERATION
- EXTRACTION WELL - INACTIVE
- INJECTION WELL -IN OPERATION
- INJECTION WELL - INACTIVE
- INJECTION WELL -OBSERVATION
- PRODUCTION WELL - IN OPERATION
- PRODUCTION WELL -INACTIVE
- PRODUCTION WELL - ABANDONED
- MONITORING WELL -LOWER SUBUNIT C
- MONITORING WELL -UPPER SUBUNIT C
- MONITORING WELL
- MONITORING WELL -NOT USED

DISSOLVED CHROMIUM CONCENTRATION (µg/L)

- <100
- >100
- —100— DISSOLVED CHROMIUM ISOCONCENTRATION CONTOUR BASED ON THIRD QUARTER 2013 DATA

NE-02 WELL ID
Q3 : 17/13 THIRD QUARTER: TOTAL/DISSOLVED CHROMIUM
Q4 : 16/11 FOURTH QUARTER: TOTAL/DISSOLVED CHROMIUM

NOTES:

1. ALL LOCATIONS AND DIMENSION ARE APPROXIMATE.
2. MCL = 100 µg/L (MICROGRAMS PER LITER).
3. NS = NOT SAMPLED.

N
W E
S

0 800 1,600
SCALE IN FEET

HALEY & ALDRICH

PHOENIX GOODYEAR AIRPORT - SOUTH
PHOENIX, ARIZONA

TOTAL AND DISSOLVED CHROMIUM IN SUBUNIT C GROUNDWATER - SECOND HALF 2013

SCALE: AS SHOWN
FEBRUARY 2014

FIGURE 11

Document Path: C:\Files\Phoenix Goodyear Airport\2014-01390049-103-0011_Subunit C_Chromium_Dissolved.mxd

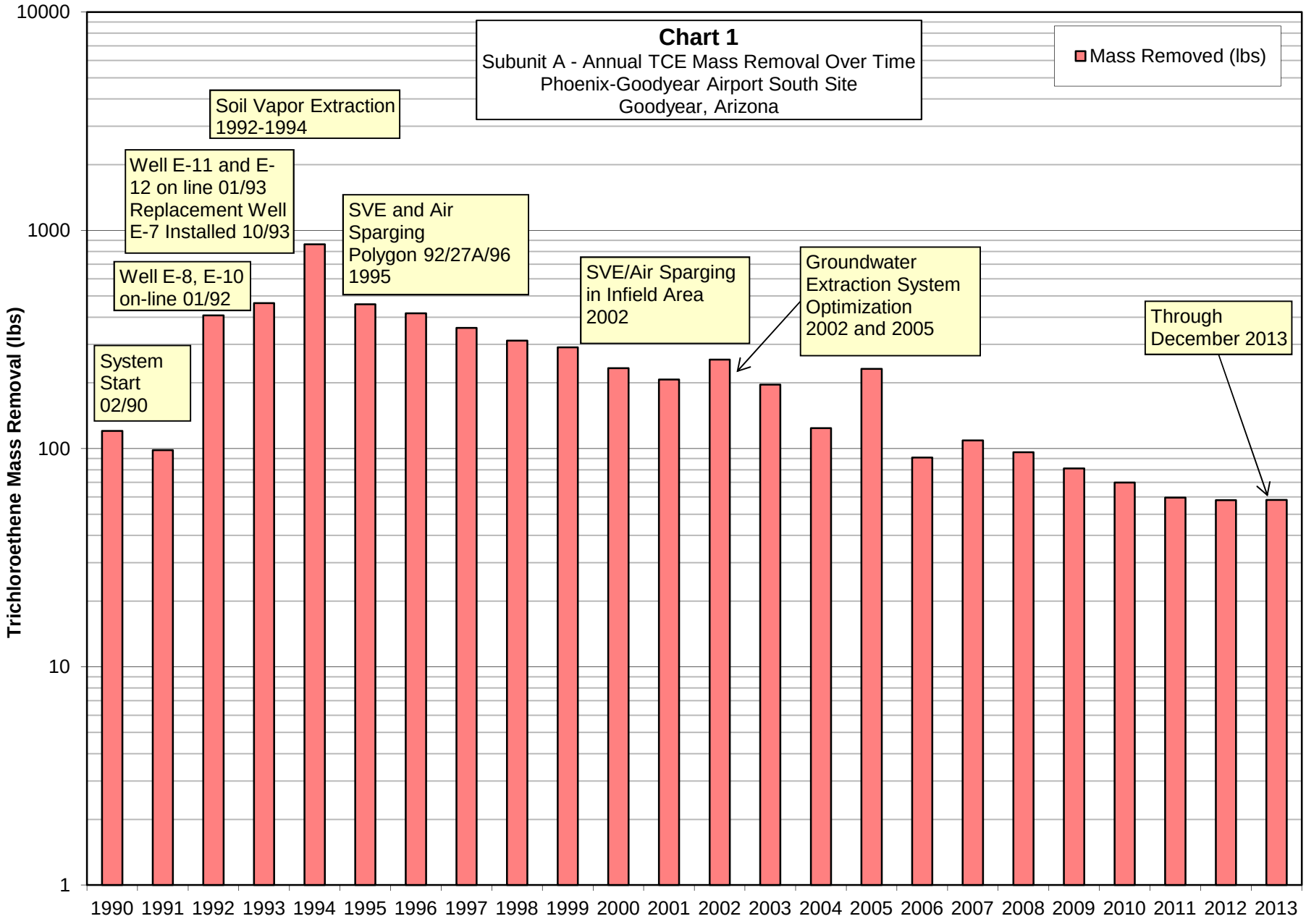


Chart 1
Subunit A - Annual TCE Mass Removal Over Time
Phoenix-Goodyear Airport South Site
Goodyear, Arizona
Mass Removed (lbs)
Trichloroethene Mass Removal (lbs)
10000
1000
100
10
1
System Start 02/90
Well E-8, E-10 on-line 01/92
Well E-11 and E-12 on line 01/93 Replacement Well E-7 Installed 10/93
Soil Vapor Extraction 1992-1994
SVE and Air Sparging Polygon 92/27A/96 1995
SVE/Air Sparging in Infield Area 2002
Groundwater Extraction System Optimization 2002 and 2005
Through December 2013
1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013

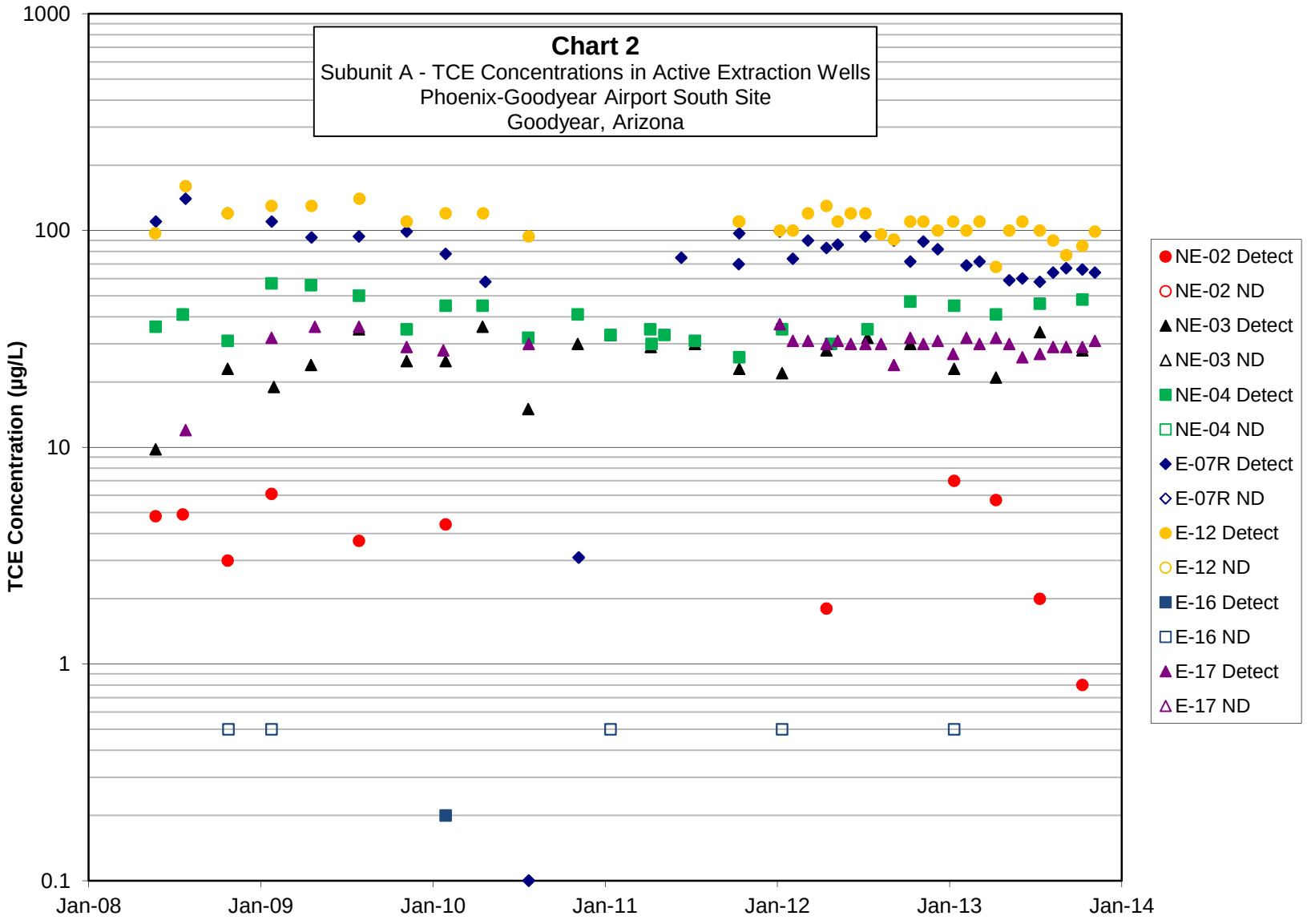


Chart 2
Subunit A - TCE Concentrations in Active Extraction Wells
Phoenix-Goodyear Airport South Site
Goodyear, Arizona
TCE Concentration (µg/L)
1000
100
10
1
0.1
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
NE-02 Detect
NE-02 ND
NE-03 Detect
NE-03 ND
NE-04 Detect
NE-04 ND
E-07R Detect
E-07R ND
E-12 Detect
E-12 ND
E-16 Detect
E-16 ND
E-17 Detect
E-17 ND

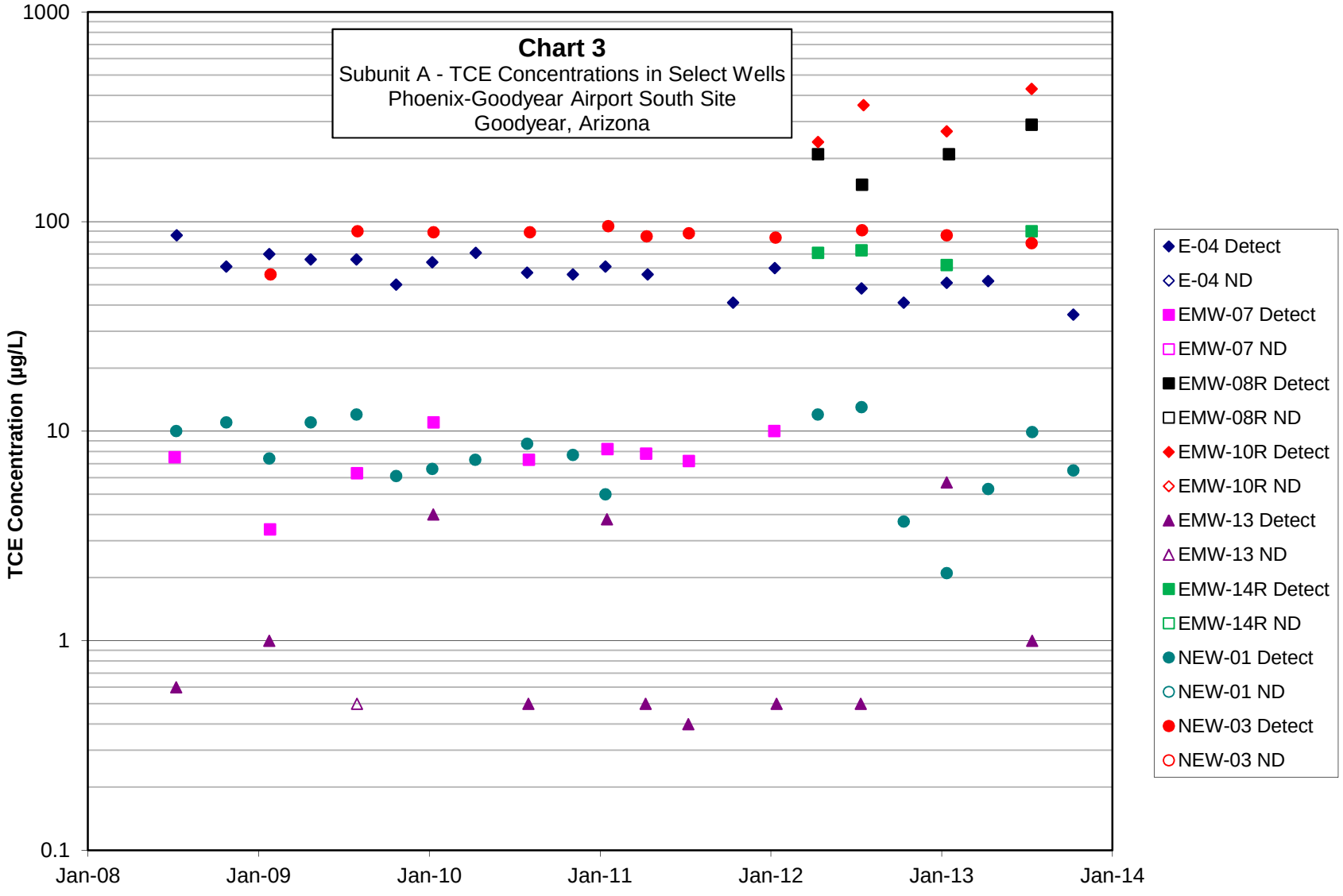


Chart 3
Subunit A - TCE Concentrations in Select Wells
Phoenix-Goodyear Airport South Site
Goodyear, Arizona
TCE Concentration (µg/L)
1000
100
10
1
0.1
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
E-04 Detect
E-04 ND
EMW-07 Detect
EMW-07 ND
EMW-08R Detect
EMW-08R ND
EMW-10R Detect
EMW-10R ND
EMW-13 Detect
EMW-13 ND
EMW-14R Detect
EMW-14R ND
NEW-01 Detect
NEW-01 ND
NEW-03 Detect
NEW-03 ND

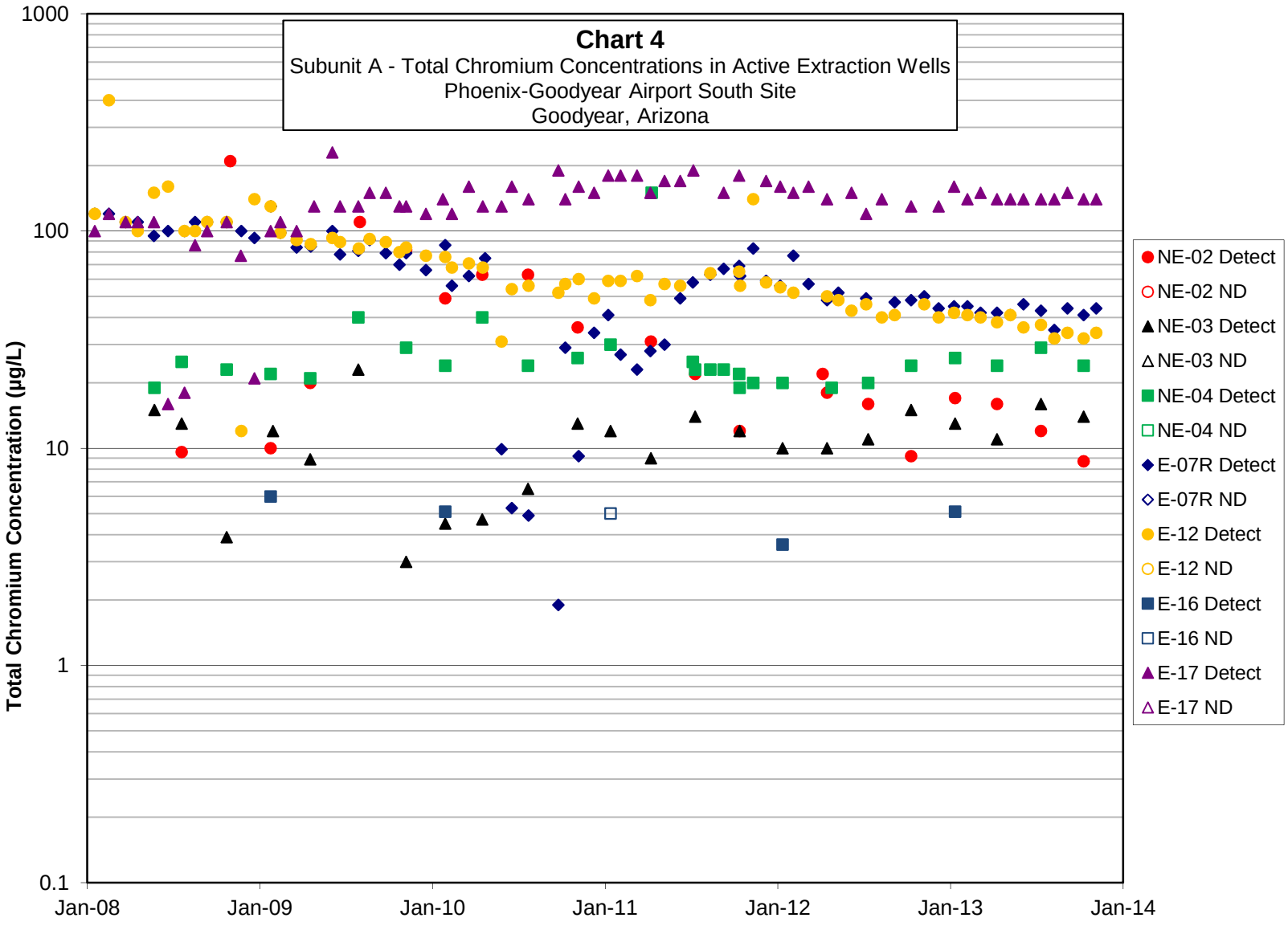


Chart 4
Subunit A - Total Chromium Concentrations in Active Extraction Wells
Phoenix-Goodyear Airport South Site
Goodyear, Arizona
Total Chromium Concentration (µg/L)
1000
100
10
1
0.1
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
NE-02 Detect
NE-02 ND
NE-03 Detect
NE-03 ND
NE-04 Detect
NE-04 ND
E-07R Detect
E-07R ND
E-12 Detect
E-12 ND
E-16 Detect
E-16 ND
E-17 Detect
E-17 ND

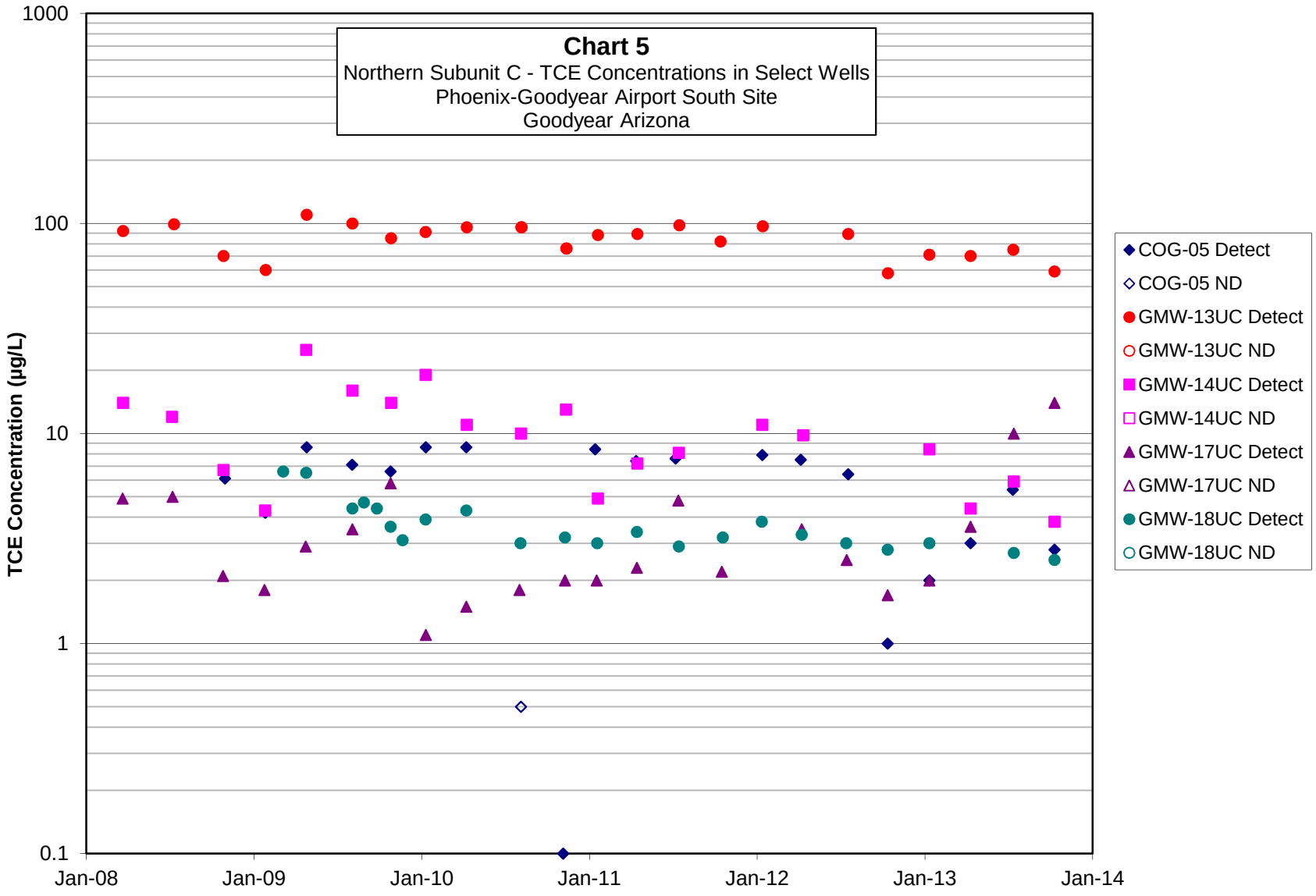


Chart 5
Northern Subunit C - TCE Concentrations in Select Wells
Phoenix-Goodyear Airport South Site
Goodyear Arizona
TCE Concentration (µg/L)
1000
100
10
1
0.1
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
COG-05 Detect
COG-05 ND
GMW-13UC Detect
GMW-13UC ND
GMW-14UC Detect
GMW-14UC ND
GMW-17UC Detect
GMW-17UC ND
GMW-18UC Detect
GMW-18UC ND

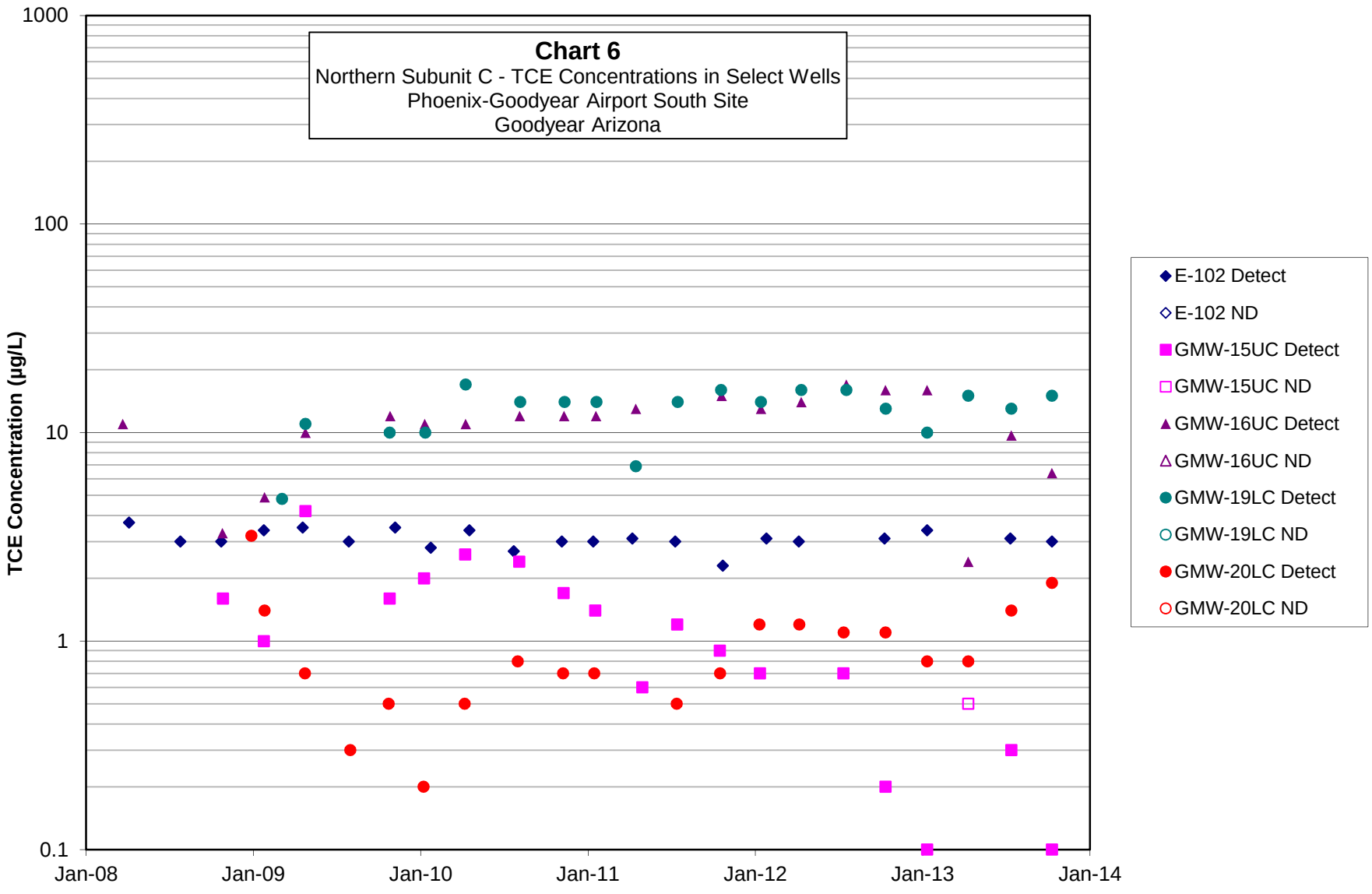


Chart 6
Northern Subunit C - TCE Concentrations in Select Wells
Phoenix-Goodyear Airport South Site
Goodyear Arizona
TCE Concentration (µg/L)
1000
100
10
1
0.1
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
E-102 Detect
E-102 ND
GMW-15UC Detect
GMW-15UC ND
GMW-16UC Detect
GMW-16UC ND
GMW-19LC Detect
GMW-19LC ND
GMW-20LC Detect
GMW-20LC ND

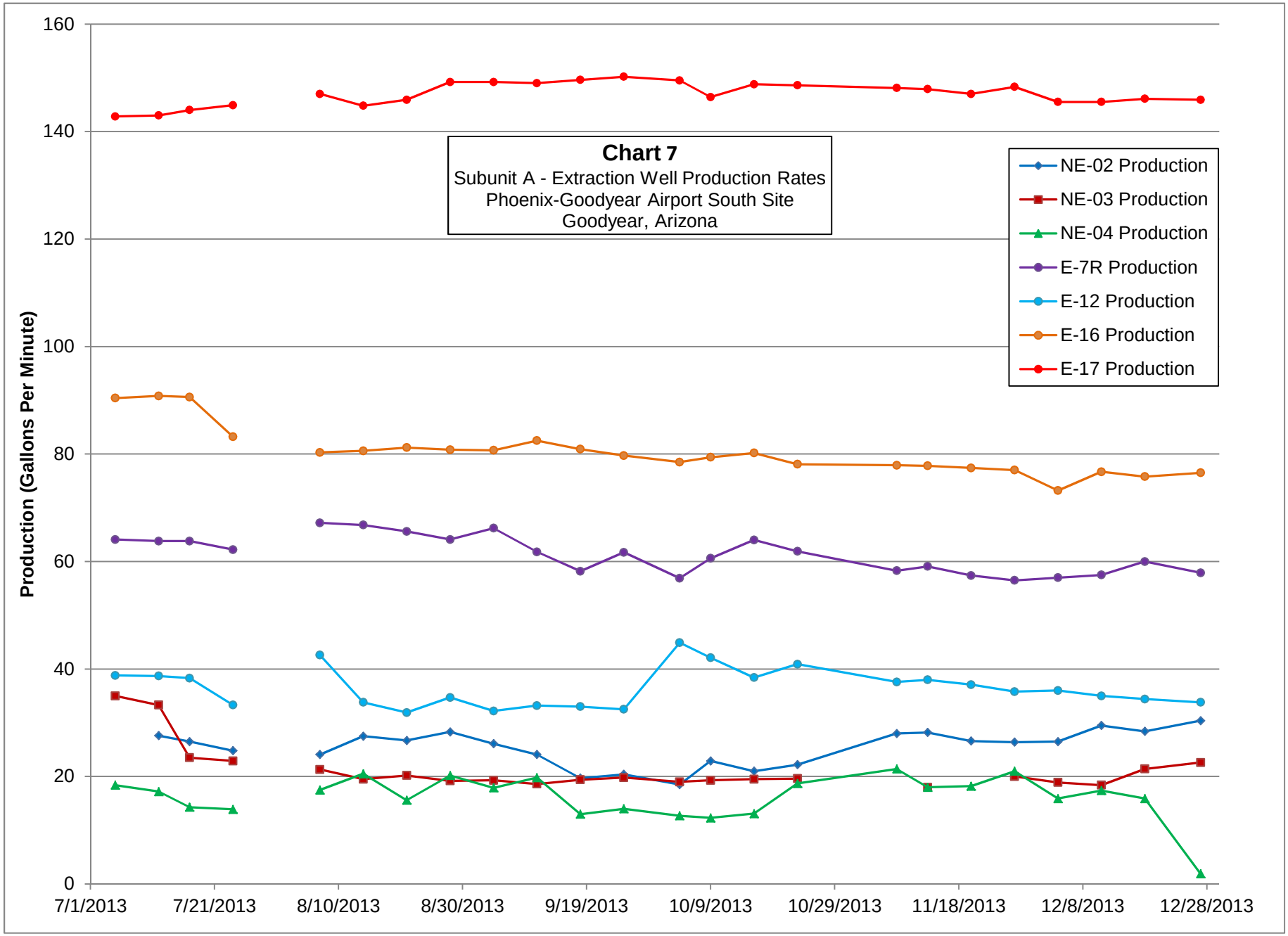


Chart 7
Subunit A - Extraction Well Production Rates
Phoenix-Goodyear Airport South Site
Goodyear, Arizona
NE-02 Production
NE-03 Production
NE-04 Production
E-7R Production
E-12 Production
E-16 Production
E-17 Production
Production (Gallons Per Minute)
160
140
120
100
80
60
40
20
0
7/1/2013
7/21/2013
8/10/2013
8/30/2013
9/19/2013
10/9/2013
10/29/2013
11/18/2013
12/8/2013
12/28/2013

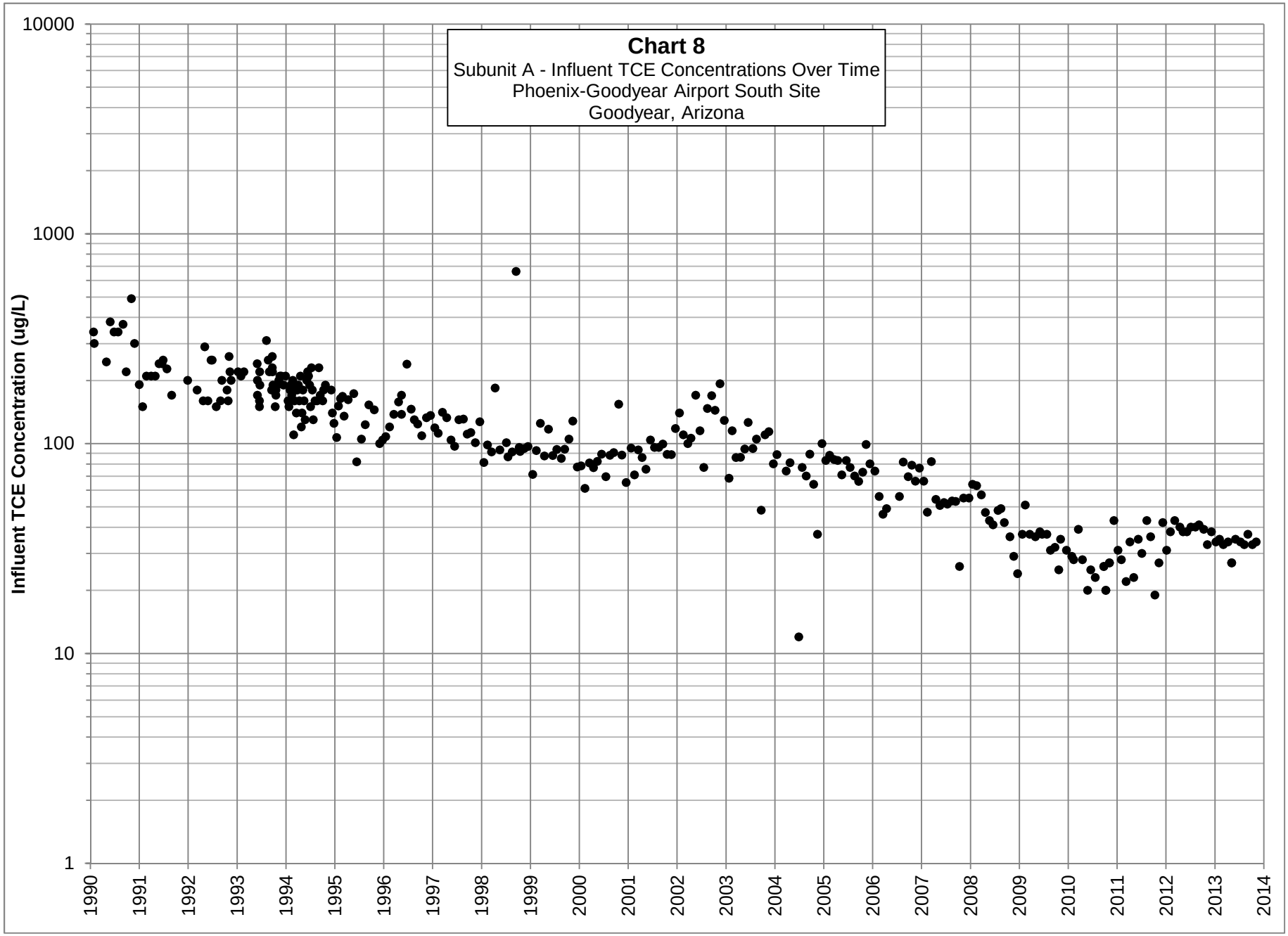


Chart 8
Subunit A - Influent TCE Concentrations Over Time
Phoenix-Goodyear Airport South Site
Goodyear, Arizona
Influent TCE Concentration (ug/L)
10000
1000
100
10
1
1990
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014

APPENDIX A

Analytical Laboratory Reports

(provided on CD in Hard Copy Report)

Draft

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 246655
ANALYTICAL REPORT

Haley & Aldrich 400 East Van Buren Street Phoenix, CA 85004	Project : 39049-103 Location : PGAS Level : III

Sample ID	Lab ID
AST-INF	246655-001
AST-EFF	246655-002
GAC-02 INF	246655-003
GAC-02 EFF	246655-004
E-07R	246655-005
COG-20	246655-006
COG-11	246655-007
E-12	246655-008
E-17	246655-009
E-117	246655-010
TRIP BLANK	246655-011

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Isabelle Choy Date: 07/12/2013

Isabelle Choy
Project Manager
(510) 486-0900

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**246655**
Client:	**Haley & Aldrich**
Project:	**39049-103**
Location:	**PGAS**
Request Date:	**07/02/13**
Samples Received:	**07/02/13**

This data package contains sample and QC results for eleven water samples, requested for the above referenced project on 07/02/13. See attached cooler receipt form for any sample receipt problems or discrepancies.

Volatile Organics by GC/MS (EPA 8260B):
Low response was observed for 2-hexanone in the CCV analyzed 07/06/13 17:07; this analyte met minimum response criteria. High responses were observed for bromomethane, chloroethane, and carbon tetrachloride; these analytes were not detected at or above the RL in the associated samples, and affected data was qualified with "b".

Low response was observed for bromoform in the CCV analyzed 07/08/13 10:42; this analyte met minimum response criteria.

High RPD was observed for 1,1-dichloroethene in the MS/MSD for batch 200508; the parent sample was not a project sample.

High surrogate recoveries were observed for dibromofluoromethane in GAC-02 INF (lab # 246655-003), GAC-02 EFF (lab # 246655-004), and COG-11 (lab # 246655-007).

Carbon disulfide was detected between the MDL and the RL in the method blank for batch 200508; this analyte was not detected in the sample at or above the RL.

No other analytical problems were encountered.

Metals (EPA 6010B) Water:
No analytical problems were encountered.

Metals (EPA 6010B) Filtrate:
No analytical problems were encountered.

Chain of Custody

CHAIN OF CUSTODY

Curtis & Tompkins Laboratories
ENVIRONMENTAL ANALYTICAL TESTING LABORATORY
In Business Since 1878

2323 Fifth Street
Berkeley, CA 94710

Phone (510) 486-0900
Fax (510) 486-0532

C&T LOGIN # 246655

Chain of Custody #

Project No: 39049-103
Project Name: P6AS
Project P. O. No: 39049-103
EDD Format: Report Level ☐ II ☐ III ☐ IV
Turnaround Time: ☐ RUSH ☒ Standard

Sampler: Mark Argall
Report To: Paula Chang
Company: H & A
Telephone: 602-760-2418
Email: pchang@haleyaldrich.com

Lab No.	Sample ID.	Date Collected	Time Collected	Water	Solid	# of Containers	HCl	H2SO4	HNO3	NaOH	None	8260B full list	8260B Halogenated only	6010B Total Chromium	6010B Lab filtered & preserved dissolved chromium
1	AST-Inf	7-1-13	0930	X		5	X		X			X		X	X
2	AST-Eff		0935	X		5	X		X			X		X	X
3	GAC-02 Inf		0905	X		5	X		X				X	X	X
4	GAC-02 Eff		0910	X		5	X		X				X	X	X
5	E-07R		0820	X		5	X		X				X	X	X
6	C06-20		1330	X		3	X						X		
7	C06-11		1340	X		3	X						X		
8	E-12		0840	X		5	X		X				X	X	X
9	E-17		0850	X		5	X		X				X	X	X
10	E-117		0850	X		5	X		X				X	X	X
11	Trip blank			X		3	X					X			
	Temp Blank			X		1									

ANALYTICAL REQUEST

Notes: Lab filter & preserve 6010B dissolved chromium upon receipt

SAMPLE RECEIPT
☐ Intact
☐ Cold
☐ On Ice
☐ Ambient

RELINQUISHED BY:
7-1-13 DATE: TIME:
DATE: TIME:
DATE: TIME:

RECEIVED BY:
7/2/13 DATE: TIME: 0930
DATE: TIME:
DATE: TIME:

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 246655 Date Received 7/2/13 Number of coolers 1
Client H&A Project PGAS

Date Opened 7/2/13 By (print) AM (sign) [illegible]
Date Logged in ↓ By (print) [illegible] ↓ (sign) [illegible] ↓

1. Did cooler come with a shipping slip (airbill, etc) YES NO MG
   Shipping info FedEx 8009 7835 2000

2A. Were custody seals present? .... ☒ YES (circle) on cooler on samples ☐ NO MG
   How many 2 Name JK Date 7/1/13
2B. Were custody seals intact upon arrival? YES NO N/A
3. Were custody papers dry and intact when received? YES NO
4. Were custody papers filled out properly (ink, signed, etc)? YES NO
5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO
6. Indicate the packing in cooler: (if other, describe)

   ☒ Bubble Wrap ☒ Foam blocks ☒ Bags ☐ None
   ☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

   Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) 5.4

   ☐ Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

   ☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO
   If YES, what time were they transferred to freezer?
9. Did all bottles arrive unbroken/unopened? YES NO
10. Are there any missing / extra samples? YES NO
11. Are samples in the appropriate containers for indicated tests? YES NO
12. Are sample labels present, in good condition and complete? YES NO
13. Do the sample labels agree with custody papers? YES NO
14. Was sufficient amount of sample sent for tests requested? YES NO
15. Are the samples appropriately preserved? YES NO N/A
16. Did you check preservatives for all bottles for each sample? YES NO N/A
17. Did you document your preservative check? YES NO N/A
18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO N/A
19. Did you change the hold time in LIMS for preserved terracores? YES NO N/A
20. Are bubbles > 6mm absent in VOA samples? YES NO N/A
21. Was the client contacted concerning this sample delivery? YES NO
   If YES, Who was called? By Date:

COMMENTS

Rev 10, 11/11

Curtis & Tompkins Sample Preservation for 246655

Sample	pH: <2	>9	>12	Other
-001a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[✓]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____
-002a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[✓]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____
-003a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[✓]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____
-004a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[✓]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____

Sample	pH: <2	>9	>12	Other
-005a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[✓]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____
-008a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[✓]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____
-009a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[✓]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____
-010a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[✓]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____

Analyst: AH

Date: 7/2/13

Laboratory Job Number 246655

ANALYTICAL REPORT

Volatile Organics by GC/MS

Matrix: Water

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	AST-INF	Batch#:	200508
Lab ID:	246655-001	Sampled:	07/01/13
Matrix:	Water	Received:	07/02/13
Units:	ug/L	Analyzed:	07/10/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
Chloromethane	ND	1.0	0.3
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.1
Acetone	ND	10	0.1
Freon 113	6.2	2.0	0.1
1,1-Dichloroethene	2.0	0.5	0.1
Methylene Chloride	ND	10	0.2
Carbon Disulfide	ND	0.5	0.1
MTBE	0.2 J	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
Vinyl Acetate	ND	10	0.1
1,1-Dichloroethane	0.1 J	0.5	0.1
2-Butanone	ND	10	0.3
cis-1,2-Dichloroethene	0.3 J	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	0.7	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	35	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.1
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	1.7	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	AST-INF	Batch#:	200508
Lab ID:	246655-001	Sampled:	07/01/13
Matrix:	Water	Received:	07/02/13
Units:	ug/L	Analyzed:	07/10/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.1
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.1
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.1
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	111	77-134
1,2-Dichloroethane-d4	102	72-140
Toluene-d8	103	80-120
Bromofluorobenzene	98	80-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	AST-EFF	Diln Fac:	1.000
Lab ID:	246655-002	Sampled:	07/01/13
Matrix:	Water	Received:	07/02/13
Units:	ug/L		

Analyte	Result	RL	MDL	Batch#	Analyzed
Freon 12	ND	1.0	0.1	200418	07/08/13
Chloromethane	ND	1.0	0.3	200418	07/08/13
Vinyl Chloride	ND	0.5	0.1	200418	07/08/13
Bromomethane	ND	1.0	0.2	200418	07/08/13
Chloroethane	ND	1.0	0.3	200418	07/08/13
Trichlorofluoromethane	ND	1.0	0.2	200418	07/08/13
Acetone	ND	10	1.6	200418	07/08/13
Freon 113	ND	2.0	0.1	200418	07/08/13
1,1-Dichloroethene	ND	0.5	0.2	200418	07/08/13
Methylene Chloride	ND	10	0.2	200418	07/08/13
Carbon Disulfide	ND	0.5	0.1	200418	07/08/13
MTBE	ND	0.5	0.1	200418	07/08/13
trans-1,2-Dichloroethene	ND	0.5	0.2	200418	07/08/13
Vinyl Acetate	ND	10	1.1	200418	07/08/13
1,1-Dichloroethane	ND	0.5	0.2	200418	07/08/13
2-Butanone	ND	10	0.4	200418	07/08/13
cis-1,2-Dichloroethene	ND	0.5	0.1	200418	07/08/13
2,2-Dichloropropane	ND	0.5	0.1	200418	07/08/13
Chloroform	ND	0.5	0.1	200418	07/08/13
Bromochloromethane	ND	0.5	0.1	200418	07/08/13
1,1,1-Trichloroethane	ND	0.5	0.1	200418	07/08/13
1,1-Dichloropropene	ND	0.5	0.1	200418	07/08/13
Carbon Tetrachloride	ND	0.5	0.1	200418	07/08/13
1,2-Dichloroethane	ND	0.5	0.1	200418	07/08/13
Benzene	ND	0.5	0.1	200418	07/08/13
Trichloroethene	0.2 J	0.5	0.1	200418	07/08/13
1,2-Dichloropropane	ND	0.5	0.1	200418	07/08/13
Bromodichloromethane	ND	0.5	0.1	200418	07/08/13
Dibromomethane	ND	0.5	0.1	200418	07/08/13
4-Methyl-2-Pentanone	ND	10	0.7	200418	07/08/13
cis-1,3-Dichloropropene	ND	0.5	0.1	200418	07/08/13
Toluene	ND	0.5	0.1	200418	07/08/13
trans-1,3-Dichloropropene	ND	0.5	0.1	200418	07/08/13
1,1,2-Trichloroethane	ND	0.5	0.2	200418	07/08/13
2-Hexanone	ND	10	0.2	200418	07/08/13
1,3-Dichloropropane	ND	0.5	0.1	200418	07/08/13
Tetrachloroethene	ND	0.5	0.1	200418	07/08/13
Dibromochloromethane	ND	0.5	0.1	200409	07/06/13
1,2-Dibromoethane	ND	0.5	0.1	200418	07/08/13
Chlorobenzene	ND	0.5	0.1	200418	07/08/13
1,1,1,2-Tetrachloroethane	ND	0.5	0.1	200418	07/08/13
Ethylbenzene	ND	0.5	0.1	200418	07/08/13
m,p-Xylenes	ND	0.5	0.1	200418	07/08/13
o-Xylene	ND	0.5	0.1	200418	07/08/13
Styrene	ND	0.5	0.1	200418	07/08/13
Bromoform	ND	1.0	0.1	200409	07/06/13
Isopropylbenzene	ND	0.5	0.1	200418	07/08/13
1,1,2,2-Tetrachloroethane	ND	0.5	0.1	200418	07/08/13
1,2,3-Trichloropropane	ND	0.5	0.2	200418	07/08/13
Propylbenzene	ND	0.5	0.1	200418	07/08/13
Bromobenzene	ND	0.5	0.1	200418	07/08/13
1,3,5-Trimethylbenzene	ND	0.5	0.1	200418	07/08/13
2-Chlorotoluene	ND	0.5	0.1	200418	07/08/13

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	AST-EFF	Diln Fac:	1.000
Lab ID:	246655-002	Sampled:	07/01/13
Matrix:	Water	Received:	07/02/13
Units:	ug/L		

Analyte	Result	RL	MDL	Batch#	Analyzed
4-Chlorotoluene	ND	0.5	0.1	200418	07/08/13
tert-Butylbenzene	ND	0.5	0.1	200418	07/08/13
1,2,4-Trimethylbenzene	ND	0.5	0.1	200418	07/08/13
sec-Butylbenzene	ND	0.5	0.1	200418	07/08/13
para-Isopropyl Toluene	ND	0.5	0.1	200418	07/08/13
1,3-Dichlorobenzene	ND	0.5	0.1	200418	07/08/13
1,4-Dichlorobenzene	ND	0.5	0.1	200418	07/08/13
n-Butylbenzene	ND	0.5	0.1	200418	07/08/13
1,2-Dichlorobenzene	ND	0.5	0.1	200418	07/08/13
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2	200418	07/08/13
1,2,4-Trichlorobenzene	ND	0.5	0.1	200418	07/08/13
Hexachlorobutadiene	ND	2.0	0.1	200418	07/08/13
Naphthalene	ND	2.0	0.1	200418	07/08/13
1,2,3-Trichlorobenzene	ND	0.5	0.1	200418	07/08/13

Surrogate	%REC	Limits	Batch#	Analyzed
Dibromofluoromethane	95	77-134	200418	07/08/13
1,2-Dichloroethane-d4	120	72-140	200418	07/08/13
Toluene-d8	106	80-120	200418	07/08/13
Bromofluorobenzene	115	80-120	200418	07/08/13

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GAC-02 INF	Batch#:	200409
Lab ID:	246655-003	Sampled:	07/01/13
Matrix:	Water	Received:	07/02/13
Units:	ug/L	Analyzed:	07/06/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	0.3 J	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.3 J	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	0.1 J b	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	2.7	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	141 *	77-134
1,2-Dichloroethane-d4	117	72-140
Toluene-d8	96	80-120
Bromofluorobenzene	91	80-120

*= Value outside of QC limits; see narrative
J= Estimated value
b= See narrative
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GAC-02 EFF	Batch#:	200409
Lab ID:	246655-004	Sampled:	07/01/13
Matrix:	Water	Received:	07/02/13
Units:	ug/L	Analyzed:	07/06/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.2 J	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	139 *	77-134
1,2-Dichloroethane-d4	119	72-140
Toluene-d8	96	80-120
Bromofluorobenzene	95	80-120

*= Value outside of QC limits; see narrative
J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	E-07R	Diln Fac:	1.000
Lab ID:	246655-005	Sampled:	07/01/13
Matrix:	Water	Received:	07/02/13
Units:	ug/L		

Analyte	Result	RL	MDL	Batch#	Analyzed
Chloromethane	ND	1.0	0.3	200418	07/08/13
Vinyl Chloride	ND	0.5	0.1	200418	07/08/13
Bromomethane	ND	1.0	0.2	200418	07/08/13
Chloroethane	ND	1.0	0.3	200418	07/08/13
Trichlorofluoromethane	ND	1.0	0.2	200418	07/08/13
Freon 113	10	2.0	0.1	200418	07/08/13
1,1-Dichloroethene	3.9	0.5	0.2	200418	07/08/13
Methylene Chloride	ND	20	0.2	200418	07/08/13
trans-1,2-Dichloroethene	ND	0.5	0.2	200418	07/08/13
1,1-Dichloroethane	0.2 J	0.5	0.2	200418	07/08/13
cis-1,2-Dichloroethene	0.4 J	0.5	0.1	200418	07/08/13
Chloroform	0.5 J	0.5	0.1	200418	07/08/13
1,1,1-Trichloroethane	ND	0.5	0.1	200418	07/08/13
Carbon Tetrachloride	ND	0.5	0.1	200418	07/08/13
1,2-Dichloroethane	ND	0.5	0.1	200418	07/08/13
Trichloroethene	60	0.5	0.1	200418	07/08/13
1,2-Dichloropropane	ND	0.5	0.1	200418	07/08/13
Bromodichloromethane	ND	0.5	0.1	200418	07/08/13
cis-1,3-Dichloropropene	ND	0.5	0.1	200418	07/08/13
trans-1,3-Dichloropropene	ND	0.5	0.1	200418	07/08/13
1,1,2-Trichloroethane	ND	0.5	0.2	200418	07/08/13
Tetrachloroethene	1.3	0.5	0.1	200418	07/08/13
Dibromochloromethane	ND	0.5	0.1	200409	07/06/13
Chlorobenzene	ND	0.5	0.1	200418	07/08/13
Bromoform	ND	0.5	0.1	200409	07/06/13
1,1,2,2-Tetrachloroethane	ND	0.5	0.1	200418	07/08/13
1,3-Dichlorobenzene	ND	0.5	0.1	200418	07/08/13
1,4-Dichlorobenzene	ND	0.5	0.1	200418	07/08/13
1,2-Dichlorobenzene	ND	0.5	0.1	200418	07/08/13

Surrogate	%REC	Limits	Batch#	Analyzed
Dibromofluoromethane	95	77-134	200418	07/08/13
1,2-Dichloroethane-d4	120	72-140	200418	07/08/13
Toluene-d8	107	80-120	200418	07/08/13
Bromofluorobenzene	112	80-120	200418	07/08/13

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	COG-20	Diln Fac:	1.000
Lab ID:	246655-006	Sampled:	07/01/13
Matrix:	Water	Received:	07/02/13
Units:	ug/L		

Analyte	Result	RL	MDL	Batch#	Analyzed
Chloromethane	ND	1.0	0.3	200418	07/08/13
Vinyl Chloride	ND	0.5	0.1	200418	07/08/13
Bromomethane	ND	1.0	0.2	200418	07/08/13
Chloroethane	ND	1.0	0.3	200418	07/08/13
Trichlorofluoromethane	ND	1.0	0.2	200418	07/08/13
Freon 113	ND	2.0	0.1	200418	07/08/13
1,1-Dichloroethene	ND	0.5	0.2	200418	07/08/13
Methylene Chloride	ND	20	0.2	200418	07/08/13
trans-1,2-Dichloroethene	ND	0.5	0.2	200418	07/08/13
1,1-Dichloroethane	ND	0.5	0.2	200418	07/08/13
cis-1,2-Dichloroethene	ND	0.5	0.1	200418	07/08/13
Chloroform	0.9	0.5	0.1	200418	07/08/13
1,1,1-Trichloroethane	ND	0.5	0.1	200418	07/08/13
Carbon Tetrachloride	ND	0.5	0.1	200418	07/08/13
1,2-Dichloroethane	ND	0.5	0.1	200418	07/08/13
Trichloroethene	2.3	0.5	0.1	200418	07/08/13
1,2-Dichloropropane	ND	0.5	0.1	200418	07/08/13
Bromodichloromethane	ND	0.5	0.1	200418	07/08/13
cis-1,3-Dichloropropene	ND	0.5	0.1	200418	07/08/13
trans-1,3-Dichloropropene	ND	0.5	0.1	200418	07/08/13
1,1,2-Trichloroethane	ND	0.5	0.2	200418	07/08/13
Tetrachloroethene	ND	0.5	0.1	200418	07/08/13
Dibromochloromethane	ND	0.5	0.1	200409	07/06/13
Chlorobenzene	ND	0.5	0.1	200418	07/08/13
Bromoform	ND	0.5	0.1	200409	07/06/13
1,1,2,2-Tetrachloroethane	ND	0.5	0.1	200418	07/08/13
1,3-Dichlorobenzene	ND	0.5	0.1	200418	07/08/13
1,4-Dichlorobenzene	ND	0.5	0.1	200418	07/08/13
1,2-Dichlorobenzene	ND	0.5	0.1	200418	07/08/13

Surrogate	%REC	Limits	Batch#	Analyzed
Dibromofluoromethane	96	77-134	200418	07/08/13
1,2-Dichloroethane-d4	125	72-140	200418	07/08/13
Toluene-d8	105	80-120	200418	07/08/13
Bromofluorobenzene	114	80-120	200418	07/08/13

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	COG-11	Batch#:	200409
Lab ID:	246655-007	Sampled:	07/01/13
Matrix:	Water	Received:	07/02/13
Units:	ug/L	Analyzed:	07/06/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	0.5	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	142 *	77-134
1,2-Dichloroethane-d4	120	72-140
Toluene-d8	96	80-120
Bromofluorobenzene	92	80-120

*= Value outside of QC limits; see narrative
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	E-12	Batch#:	200419
Lab ID:	246655-008	Sampled:	07/01/13
Matrix:	Water	Received:	07/02/13
Units:	ug/L	Analyzed:	07/08/13
Diln Fac:	2.000		

Analyte	Result	RL	MDL
Chloromethane	ND	2.0	0.4
Vinyl Chloride	ND	1.0	0.2
Bromomethane	ND	2.0	0.3
Chloroethane	ND	2.0	0.3
Trichlorofluoromethane	ND	2.0	0.4
Freon 113	11	4.0	0.3
1,1-Dichloroethene	1.1	1.0	0.2
Methylene Chloride	ND	40	0.3
trans-1,2-Dichloroethene	ND	1.0	0.2
1,1-Dichloroethane	ND	1.0	0.2
cis-1,2-Dichloroethene	1.5	1.0	0.2
Chloroform	1.2	1.0	0.2
1,1,1-Trichloroethane	ND	1.0	0.2
Carbon Tetrachloride	ND	1.0	0.2
1,2-Dichloroethane	ND	1.0	0.2
Trichloroethene	110	1.0	0.2
1,2-Dichloropropane	ND	1.0	0.3
Bromodichloromethane	ND	1.0	0.2
cis-1,3-Dichloropropene	ND	1.0	0.2
trans-1,3-Dichloropropene	ND	1.0	0.2
1,1,2-Trichloroethane	ND	1.0	0.3
Tetrachloroethene	2.5	1.0	0.2
Dibromochloromethane	ND	1.0	0.2
Chlorobenzene	ND	1.0	0.2
Bromoform	ND	1.0	0.2
1,1,2,2-Tetrachloroethane	ND	1.0	0.2
1,3-Dichlorobenzene	ND	1.0	0.2
1,4-Dichlorobenzene	ND	1.0	0.2
1,2-Dichlorobenzene	ND	1.0	0.2

Surrogate	%REC	Limits
Dibromofluoromethane	94	77-134
1,2-Dichloroethane-d4	83	72-140
Toluene-d8	91	80-120
Bromofluorobenzene	86	80-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	E-17	Batch#:	200419
Lab ID:	246655-009	Sampled:	07/01/13
Matrix:	Water	Received:	07/02/13
Units:	ug/L	Analyzed:	07/08/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	6.5	2.0	0.2
1,1-Dichloroethene	1.6	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.9	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	0.4 J	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	26	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	3.6	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	93	77-134
1,2-Dichloroethane-d4	86	72-140
Toluene-d8	92	80-120
Bromofluorobenzene	88	80-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	E-117	Batch#:	200508
Lab ID:	246655-010	Sampled:	07/01/13
Matrix:	Water	Received:	07/02/13
Units:	ug/L	Analyzed:	07/10/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.3
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	5.9	2.0	0.1
1,1-Dichloroethene	1.7	0.5	0.1
Methylene Chloride	ND	20	0.2
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	1.1	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	0.3 J	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	28	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	3.3	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	112	77-134
1,2-Dichloroethane-d4	103	72-140
Toluene-d8	104	80-120
Bromofluorobenzene	98	80-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	TRIP BLANK	Diln Fac:	1.000
Lab ID:	246655-011	Sampled:	07/01/13
Matrix:	Water	Received:	07/02/13
Units:	ug/L		

Analyte	Result	RL	MDL	Batch#	Analyzed
Freon 12	ND	1.0	0.1	200418	07/08/13
Chloromethane	ND	1.0	0.3	200418	07/08/13
Vinyl Chloride	ND	0.5	0.1	200418	07/08/13
Bromomethane	ND	1.0	0.2	200418	07/08/13
Chloroethane	ND	1.0	0.3	200418	07/08/13
Trichlorofluoromethane	ND	1.0	0.2	200418	07/08/13
Acetone	ND	10	1.6	200418	07/08/13
Freon 113	ND	2.0	0.1	200418	07/08/13
1,1-Dichloroethene	ND	0.5	0.2	200418	07/08/13
Methylene Chloride	ND	10	0.2	200418	07/08/13
Carbon Disulfide	ND	0.5	0.1	200418	07/08/13
MTBE	ND	0.5	0.1	200418	07/08/13
trans-1,2-Dichloroethene	ND	0.5	0.2	200418	07/08/13
Vinyl Acetate	ND	10	1.1	200418	07/08/13
1,1-Dichloroethane	ND	0.5	0.2	200418	07/08/13
2-Butanone	ND	10	0.4	200418	07/08/13
cis-1,2-Dichloroethene	ND	0.5	0.1	200418	07/08/13
2,2-Dichloropropane	ND	0.5	0.1	200418	07/08/13
Chloroform	ND	0.5	0.1	200418	07/08/13
Bromochloromethane	ND	0.5	0.1	200418	07/08/13
1,1,1-Trichloroethane	ND	0.5	0.1	200418	07/08/13
1,1-Dichloropropene	ND	0.5	0.1	200418	07/08/13
Carbon Tetrachloride	ND	0.5	0.1	200418	07/08/13
1,2-Dichloroethane	ND	0.5	0.1	200418	07/08/13
Benzene	ND	0.5	0.1	200418	07/08/13
Trichloroethene	ND	0.5	0.1	200418	07/08/13
1,2-Dichloropropane	ND	0.5	0.1	200418	07/08/13
Bromodichloromethane	ND	0.5	0.1	200418	07/08/13
Dibromomethane	ND	0.5	0.1	200418	07/08/13
4-Methyl-2-Pentanone	ND	10	0.7	200418	07/08/13
cis-1,3-Dichloropropene	ND	0.5	0.1	200418	07/08/13
Toluene	ND	0.5	0.1	200418	07/08/13
trans-1,3-Dichloropropene	ND	0.5	0.1	200418	07/08/13
1,1,2-Trichloroethane	ND	0.5	0.2	200418	07/08/13
2-Hexanone	ND	10	0.2	200418	07/08/13
1,3-Dichloropropane	ND	0.5	0.1	200418	07/08/13
Tetrachloroethene	ND	0.5	0.1	200418	07/08/13

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	TRIP BLANK	Diln Fac:	1.000
Lab ID:	246655-011	Sampled:	07/01/13
Matrix:	Water	Received:	07/02/13
Units:	ug/L		

Analyte	Result	RL	MDL	Batch#	Analyzed
Dibromochloromethane	ND	0.5	0.1	200409	07/06/13
1,2-Dibromoethane	ND	0.5	0.1	200418	07/08/13
Chlorobenzene	ND	0.5	0.1	200418	07/08/13
1,1,1,2-Tetrachloroethane	ND	0.5	0.1	200418	07/08/13
Ethylbenzene	ND	0.5	0.1	200418	07/08/13
m,p-Xylenes	ND	0.5	0.1	200418	07/08/13
o-Xylene	ND	0.5	0.1	200418	07/08/13
Styrene	ND	0.5	0.1	200418	07/08/13
Bromoform	ND	1.0	0.1	200409	07/06/13
Isopropylbenzene	ND	0.5	0.1	200418	07/08/13
1,1,2,2-Tetrachloroethane	ND	0.5	0.1	200418	07/08/13
1,2,3-Trichloropropane	ND	0.5	0.2	200418	07/08/13
Propylbenzene	ND	0.5	0.1	200418	07/08/13
Bromobenzene	ND	0.5	0.1	200418	07/08/13
1,3,5-Trimethylbenzene	ND	0.5	0.1	200418	07/08/13
2-Chlorotoluene	ND	0.5	0.1	200418	07/08/13
4-Chlorotoluene	ND	0.5	0.1	200418	07/08/13
tert-Butylbenzene	ND	0.5	0.1	200418	07/08/13
1,2,4-Trimethylbenzene	ND	0.5	0.1	200418	07/08/13
sec-Butylbenzene	ND	0.5	0.1	200418	07/08/13
para-Isopropyl Toluene	ND	0.5	0.1	200418	07/08/13
1,3-Dichlorobenzene	ND	0.5	0.1	200418	07/08/13
1,4-Dichlorobenzene	ND	0.5	0.1	200418	07/08/13
n-Butylbenzene	ND	0.5	0.1	200418	07/08/13
1,2-Dichlorobenzene	ND	0.5	0.1	200418	07/08/13
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2	200418	07/08/13
1,2,4-Trichlorobenzene	ND	0.5	0.1	200418	07/08/13
Hexachlorobutadiene	ND	2.0	0.1	200418	07/08/13
Naphthalene	ND	2.0	0.1	200418	07/08/13
1,2,3-Trichlorobenzene	ND	0.5	0.1	200418	07/08/13

Surrogate	%REC	Limits	Batch#	Analyzed
Dibromofluoromethane	95	77-134	200418	07/08/13
1,2-Dichloroethane-d4	117	72-140	200418	07/08/13
Toluene-d8	107	80-120	200418	07/08/13
Bromofluorobenzene	119	80-120	200418	07/08/13

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	200409
Units:	ug/L	Analyzed:	07/06/13
Diln Fac:	1.000		

Type: BS Lab ID: QC696629

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	10.17	81	61-137
Trichloroethene	12.50	12.47	100	77-122
Chlorobenzene	12.50	12.80	102	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	110	77-134
1,2-Dichloroethane-d4	117	72-140
Toluene-d8	94	80-120
Bromofluorobenzene	91	80-120

Type: BSD Lab ID: QC696630

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	9.859	79	61-137	3	24
Trichloroethene	12.50	12.15	97	77-122	3	20
Chlorobenzene	12.50	12.40	99	80-120	3	20

Surrogate	%REC	Limits
Dibromofluoromethane	110	77-134
1,2-Dichloroethane-d4	117	72-140
Toluene-d8	95	80-120
Bromofluorobenzene	93	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	200409
Units:	ug/L	Analyzed:	07/06/13
Diln Fac:	1.000		

Type: BS Lab ID: QC696629

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	10.17	81	61-137
Benzene	12.50	13.54	108	78-125
Trichloroethene	12.50	12.47	100	77-122
Toluene	12.50	12.39	99	79-123
Chlorobenzene	12.50	12.80	102	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	110	77-134
1,2-Dichloroethane-d4	117	72-140
Toluene-d8	94	80-120
Bromofluorobenzene	91	80-120

Type: BSD Lab ID: QC696630

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	9.859	79	61-137	3	24
Benzene	12.50	12.92	103	78-125	5	20
Trichloroethene	12.50	12.15	97	77-122	3	20
Toluene	12.50	12.01	96	79-123	3	20
Chlorobenzene	12.50	12.40	99	80-120	3	20

Surrogate	%REC	Limits
Dibromofluoromethane	110	77-134
1,2-Dichloroethane-d4	117	72-140
Toluene-d8	95	80-120
Bromofluorobenzene	93	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC696631	Batch#:	200409
Matrix:	Water	Analyzed:	07/06/13
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	10	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	131	77-134
1,2-Dichloroethane-d4	118	72-140
Toluene-d8	94	80-120
Bromofluorobenzene	93	80-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC696631	Batch#:	200409
Matrix:	Water	Analyzed:	07/06/13
Units:	ug/L		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	0.6
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	10	0.1
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
Vinyl Acetate	ND	10	0.5
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.4
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.2
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1
2-Chlorotoluene	ND	0.5	0.1

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC696631	Batch#:	200409
Matrix:	Water	Analyzed:	07/06/13
Units:	ug/L		

Analyte	Result	RL	MDL
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.3
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.1
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	131	77-134
1,2-Dichloroethane-d4	118	72-140
Toluene-d8	94	80-120
Bromofluorobenzene	93	80-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	200418
Units:	ug/L	Analyzed:	07/08/13
Diln Fac:	1.000		

Type: BS Lab ID: QC696675

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	23.03	92	61-137
Trichloroethene	25.00	25.51	102	77-122
Chlorobenzene	25.00	22.99	92	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	100	77-134
1,2-Dichloroethane-d4	124	72-140
Toluene-d8	103	80-120
Bromofluorobenzene	115	80-120

Type: BSD Lab ID: QC696676

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	22.31	89	61-137	3	24
Trichloroethene	25.00	25.03	100	77-122	2	20
Chlorobenzene	25.00	23.07	92	80-120	0	20

Surrogate	%REC	Limits
Dibromofluoromethane	99	77-134
1,2-Dichloroethane-d4	123	72-140
Toluene-d8	104	80-120
Bromofluorobenzene	114	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	200418
Units:	ug/L	Analyzed:	07/08/13
Diln Fac:	1.000		

Type: BS Lab ID: QC696675

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	23.03	92	61-137
Benzene	25.00	23.37	93	78-125
Trichloroethene	25.00	25.51	102	77-122
Toluene	25.00	25.24	101	79-123
Chlorobenzene	25.00	22.99	92	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	100	77-134
1,2-Dichloroethane-d4	124	72-140
Toluene-d8	103	80-120
Bromofluorobenzene	115	80-120

Type: BSD Lab ID: QC696676

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	22.31	89	61-137	3	24
Benzene	25.00	23.49	94	78-125	1	20
Trichloroethene	25.00	25.03	100	77-122	2	20
Toluene	25.00	25.11	100	79-123	1	20
Chlorobenzene	25.00	23.07	92	80-120	0	20

Surrogate	%REC	Limits
Dibromofluoromethane	99	77-134
1,2-Dichloroethane-d4	123	72-140
Toluene-d8	104	80-120
Bromofluorobenzene	114	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC696679	Batch#:	200418
Matrix:	Water	Analyzed:	07/08/13
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.3
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	10	0.2
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.2
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	96	77-134
1,2-Dichloroethane-d4	113	72-140
Toluene-d8	108	80-120
Bromofluorobenzene	117	80-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC696679	Batch#:	200418
Matrix:	Water	Analyzed:	07/08/13
Units:	ug/L		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.1
Chloromethane	ND	1.0	0.3
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	1.6
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	10	0.2
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
Vinyl Acetate	ND	10	1.1
1,1-Dichloroethane	ND	0.5	0.2
2-Butanone	ND	10	0.4
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.7
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.2
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1
2-Chlorotoluene	ND	0.5	0.1

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC696679	Batch#:	200418
Matrix:	Water	Analyzed:	07/08/13
Units:	ug/L		

Analyte	Result	RL	MDL
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.1
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	96	77-134
1,2-Dichloroethane-d4	113	72-140
Toluene-d8	108	80-120
Bromofluorobenzene	117	80-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	200419
Units:	ug/L	Analyzed:	07/08/13
Diln Fac:	1.000		

Type: BS Lab ID: QC696680

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	25.97	104	61-137
Trichloroethene	25.00	26.21	105	77-122
Chlorobenzene	25.00	23.78	95	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	90	77-134
1,2-Dichloroethane-d4	81	72-140
Toluene-d8	91	80-120
Bromofluorobenzene	86	80-120

Type: BSD Lab ID: QC696681

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	25.76	103	61-137	1	24
Trichloroethene	25.00	26.22	105	77-122	0	20
Chlorobenzene	25.00	24.89	100	80-120	5	20

Surrogate	%REC	Limits
Dibromofluoromethane	90	77-134
1,2-Dichloroethane-d4	80	72-140
Toluene-d8	92	80-120
Bromofluorobenzene	91	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC696684	Batch#:	200419
Matrix:	Water	Analyzed:	07/08/13
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	91	77-134
1,2-Dichloroethane-d4	86	72-140
Toluene-d8	93	80-120
Bromofluorobenzene	92	80-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC697037	Batch#:	200508
Matrix:	Water	Analyzed:	07/10/13
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.3
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.2
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	105	77-134
1,2-Dichloroethane-d4	102	72-140
Toluene-d8	102	80-120
Bromofluorobenzene	100	80-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC697037	Batch#:	200508
Matrix:	Water	Analyzed:	07/10/13
Units:	ug/L		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
Chloromethane	ND	1.0	0.3
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.1
Acetone	ND	10	0.1
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.2
Carbon Disulfide	0.1 J	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
Vinyl Acetate	ND	10	0.1
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.3
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.1
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC697037	Batch#:	200508
Matrix:	Water	Analyzed:	07/10/13
Units:	ug/L		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.1
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.1
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.1
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	105	77-134
1,2-Dichloroethane-d4	102	72-140
Toluene-d8	102	80-120
Bromofluorobenzene	100	80-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC697083	Batch#:	200508
Matrix:	Water	Analyzed:	07/10/13
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	12.04	96	61-137
Trichloroethene	12.50	12.06	96	77-122
Chlorobenzene	12.50	12.05	96	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	102	77-134
1,2-Dichloroethane-d4	101	72-140
Toluene-d8	102	80-120
Bromofluorobenzene	101	80-120

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC697083	Batch#:	200508
Matrix:	Water	Analyzed:	07/10/13
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	12.04	96	61-137
Benzene	12.50	12.56	100	78-125
Trichloroethene	12.50	12.06	96	77-122
Toluene	12.50	12.78	102	79-123
Chlorobenzene	12.50	12.05	96	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	102	77-134
1,2-Dichloroethane-d4	101	72-140
Toluene-d8	102	80-120
Bromofluorobenzene	101	80-120

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	200508
MSS Lab ID:	246716-026	Sampled:	07/03/13
Matrix:	Water	Received:	07/03/13
Units:	ug/L	Analyzed:	07/11/13
Diln Fac:	1.000		

Type: MS Lab ID: QC697084

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	0.6384	12.50	16.07	123	68-130
Trichloroethene	11.92	12.50	21.07	73	72-123
Chlorobenzene	<0.1000	12.50	11.91	95	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	104	77-134
1,2-Dichloroethane-d4	98	72-140
Toluene-d8	100	80-120
Bromofluorobenzene	98	80-120

Type: MSD Lab ID: QC697085

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	12.10	92	68-130	28 *	26
Trichloroethene	12.50	21.37	76	72-123	1	20
Chlorobenzene	12.50	12.48	100	80-120	5	21

Surrogate	%REC	Limits
Dibromofluoromethane	102	77-134
1,2-Dichloroethane-d4	98	72-140
Toluene-d8	101	80-120
Bromofluorobenzene	98	80-120

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	200508
MSS Lab ID:	246716-026	Sampled:	07/03/13
Matrix:	Water	Received:	07/03/13
Units:	ug/L	Analyzed:	07/11/13
Diln Fac:	1.000		

Type: MS Lab ID: QC697084

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	0.6384	12.50	16.07	123	68-130
Benzene	<0.1000	12.50	12.56	100	80-125
Trichloroethene	11.92	12.50	21.07	73	72-123
Toluene	<0.1000	12.50	12.67	101	80-122
Chlorobenzene	<0.1000	12.50	11.91	95	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	104	77-134
1,2-Dichloroethane-d4	98	72-140
Toluene-d8	100	80-120
Bromofluorobenzene	98	80-120

Type: MSD Lab ID: QC697085

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	12.10	92	68-130	28 *	26
Benzene	12.50	12.76	102	80-125	2	21
Trichloroethene	12.50	21.37	76	72-123	1	20
Toluene	12.50	12.99	104	80-122	2	21
Chlorobenzene	12.50	12.48	100	80-120	5	21

Surrogate	%REC	Limits
Dibromofluoromethane	102	77-134
1,2-Dichloroethane-d4	98	72-140
Toluene-d8	101	80-120
Bromofluorobenzene	98	80-120

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Initial & Continuing Calibration Data

CURTIS & TOMPKINS BFB TUNE FOR 246655 MSVOA Water
EPA 8260B

Inst : MSVOA07 Run Name : BFB IDF : 1.0
Seqnum : 463265607008 File : gg308 Time : 03-JUL-2013 18:30

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	23114	17.67	
75	30% - 60% of mass 95	63816	48.79	
95		130800	100.00	
96	5% - 9% of mass 95	8889	6.80	
173	< 2% of mass 174	467	0.47	
174	> 50% and < 100% of mass 95	98578	75.37	
175	5% - 9% of mass 174	7017	7.12	
176	> 95% and < 101% of mass 174	96338	97.73	
177	5% - 9% of mass 176	6410	6.65	

Analyst: DAR Date: 07/09/13 Reviewer: LW Date: 07/09/13

CURTIS & TOMPKINS BFB TUNE FOR 246655 MSVOA Water
EPA 8260B

Inst : MSVOA07 Run Name : BFB IDF : 1.0
Seqnum : 463270231001 File : gg601 Time : 06-JUL-2013 15:51

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	23648	17.74	
75	30% - 60% of mass 95	65426	49.08	
95		133306	100.00	
96	5% - 9% of mass 95	9279	6.96	
173	< 2% of mass 174	493	0.50	
174	> 50% and < 100% of mass 95	98760	74.09	
175	5% - 9% of mass 174	7652	7.75	
176	> 95% and < 101% of mass 174	96032	97.24	
177	5% - 9% of mass 176	6106	6.36	

Analyst: DAR Date: 07/06/13 Reviewer: LW Date: 07/09/13

CURTIS & TOMPKINS BFB TUNE FOR 246655 MSVOA Water
EPA 8260B

Inst : MSVOA07 Run Name : BFB IDF : 1.0
Seqnum : 463275501002 File : gga02 Time : 10-JUL-2013 09:04

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	13251	17.49	
75	30% - 60% of mass 95	36920	48.72	
95		75773	100.00	
96	5% - 9% of mass 95	5474	7.22	
173	< 2% of mass 174	355	0.64	
174	> 50% and < 100% of mass 95	55661	73.46	
175	5% - 9% of mass 174	3903	7.01	
176	> 95% and < 101% of mass 174	53706	96.49	
177	5% - 9% of mass 176	3881	7.23	

Analyst: MCT Date: 07/10/13 Reviewer: LW Date: 07/11/13

CURTIS & TOMPKINS BFB TUNE FOR 246655 MSVOA Water
EPA 8260B

Inst : MSVOA07 Run Name : BFB IDF : 1.0
Seqnum : 463276901015 File : ggb15 Time : 11-JUL-2013 14:27

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	20557	17.90	
75	30% - 60% of mass 95	55448	48.29	
95		114832	100.00	
96	5% - 9% of mass 95	8605	7.49	
173	< 2% of mass 174	367	0.41	
174	> 50% and < 100% of mass 95	89520	77.96	
175	5% - 9% of mass 174	6301	7.04	
176	> 95% and < 101% of mass 174	86504	96.63	
177	5% - 9% of mass 176	5760	6.66	

Analyst: DAR Date: 07/11/13 Reviewer: LW Date: 07/12/13

CURTIS & TOMPKINS BFB TUNE FOR 246655 MSVOA Water
EPA 8260B

Inst : MSVOA08 Run Name : BFB IDF : 1.0
Seqnum : 473114230007 File : hck07 Time : 20-MAR-2013 14:05

Standards: S21369

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	11442	22.41	
75	30% - 60% of mass 95	23940	46.89	
95		51061	100.00	
96	5% - 9% of mass 95	3250	6.36	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	39269	76.91	
175	5% - 9% of mass 174	2784	7.09	
176	> 95% and < 101% of mass 174	37378	95.18	
177	5% - 9% of mass 176	2389	6.39	

Analyst: MJB Date: 03/22/13 Reviewer: LW Date: 03/22/13

CURTIS & TOMPKINS BFB TUNE FOR 246655 MSVOA Water
EPA 8260B

Inst : MSVOA08 Run Name : BFB IDF : 1.0
Seqnum : 473272638003 File : hg803 Time : 08-JUL-2013 09:40

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	7619	19.15	
75	30% - 60% of mass 95	18987	47.73	
95		39781	100.00	
96	5% - 9% of mass 95	2722	6.84	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	28602	71.90	
175	5% - 9% of mass 174	1541	5.39	
176	> 95% and < 101% of mass 174	28365	99.17	
177	5% - 9% of mass 176	2016	7.11	

Analyst: MJB Date: 07/08/13 Reviewer: LW Date: 07/09/13

CURTIS & TOMPKINS BFB TUNE FOR 246655 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : BFB IDF : 1.0
Seqnum : 483147320011 File : idc11 Time : 12-APR-2013 14:37

Standards: S21369

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	82690	20.27	
75	30% - 60% of mass 95	177445	43.49	
95		408000	100.00	
96	5% - 9% of mass 95	27293	6.69	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	324138	79.45	
175	5% - 9% of mass 174	24104	7.44	
176	> 95% and < 101% of mass 174	310613	95.83	
177	5% - 9% of mass 176	20056	6.46	

Analyst: MJB Date: 04/15/13 Reviewer: TW Date: 04/17/13

CURTIS & TOMPKINS BFB TUNE FOR 246655 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : BFB IDF : 1.0
Seqnum : 483272623003 File : ig803 Time : 08-JUL-2013 08:46

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	36973	18.58	
75	30% - 60% of mass 95	80664	40.54	
95		198976	100.00	
96	5% - 9% of mass 95	13640	6.86	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	190762	95.87	
175	5% - 9% of mass 174	14375	7.54	
176	> 95% and < 101% of mass 174	185450	97.22	
177	5% - 9% of mass 176	11998	6.47	

Analyst: MJB Date: 07/08/13 Reviewer: LW Date: 07/08/13

CURTIS & TOMPKINS BFB TUNE FOR 246655 MSVOA Water
EPA 8260B

Inst : MSVOA13 Run Name : BFB IDF : 1.0
Seqnum : 943212676003 File : mer03 Time : 27-MAY-2013 17:13

Standards: S21369

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	15942	18.63	
75	30% - 60% of mass 95	40560	47.39	
95		85581	100.00	
96	5% - 9% of mass 95	5574	6.51	
173	< 2% of mass 174	544	0.82	
174	> 50% and < 100% of mass 95	66053	77.18	
175	5% - 9% of mass 174	4914	7.44	
176	> 95% and < 101% of mass 174	64264	97.29	
177	5% - 9% of mass 176	3869	6.02	

Analyst: DAR Date: 05/27/13 Reviewer: LW Date: 05/29/13

CURTIS & TOMPKINS BFB TUNE FOR 246655 MSVOA Water
EPA 8260B

Inst : MSVOA13 Run Name : BFB IDF : 1.0
Seqnum : 943270172003 File : mg603 Time : 06-JUL-2013 16:12

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	20715	17.11	
75	30% - 60% of mass 95	58515	48.33	
95		121077	100.00	
96	5% - 9% of mass 95	7785	6.43	
173	< 2% of mass 174	1783	1.87	
174	> 50% and < 100% of mass 95	95421	78.81	
175	5% - 9% of mass 174	6935	7.27	
176	> 95% and < 101% of mass 174	92291	96.72	
177	5% - 9% of mass 176	6154	6.67	

Analyst: MCT Date: 07/08/13 Reviewer: LW Date: 07/08/13

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 246655 MSVOA Water: EPA 8260B

Inst : MSVOA07 Name : 826GOX7
Calnum : 463265607001 Date : 03-JUL-2013 21:09 Type : WATER
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	gg313	463265607013		03-JUL-2013 21:09	S21483 (1000000X), S22575 (2000000X), S22549 (2000000X), S21953 (2000000X), S22539 (5000X)
L2	gg314	463265607014		03-JUL-2013 21:41	S21483 (500000X), S22575 (1000000X), S22549 (1000000X), S21953 (1000000X), S22539 (5000X)
L3	gg315	463265607015		03-JUL-2013 22:14	S21483 (250000X), S22575 (250000X), S22549 (250000X), S21953 (500000X), S22539 (5000X)
L4	gg316	463265607016		03-JUL-2013 22:47	S21483 (100000X), S22575 (100000X), S22549 (100000X), S21953 (200000X), S22539 (5000X)
L5	gg317	463265607017		03-JUL-2013 23:19	S21483 (50000X), S22575 (50000X), S22549 (50000X), S22539 (5000X), S21953 (100000X)
L6	gg318	463265607018		03-JUL-2013 23:52	S21483 (25000X), S22575 (25000X), S22549 (25000X), S21953 (50000X), S22539 (5000X)
L7	gg319	463265607019		04-JUL-2013 00:25	S21483 (10000X), S22575 (10000X), S22549 (10000X), S21953 (20000X), S22539 (5000X)
L8	gg320	463265607020		04-JUL-2013 00:57	S21483 (6667X), S22575 (6667X), S22549 (6667X), S21953 (13330X), S22539 (5000X)
L9	gg321	463265607021		04-JUL-2013 01:30	S21483 (5000X), S22575 (5000X), S22549 (5000X), S21953 (10000X), S22539 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.6672	0.6417	0.6718	0.5984	0.6376	0.6752	0.6795	0.6778	AVRG		1.52404		0.6561	4	15	0.05	0.99	
Chloromethane	0.8889	0.9121	0.8013	0.7860	0.7839	0.7549	0.7768	0.7174	0.6924	AVRG		1.26516		0.7904	9	15	0.10	0.99	
Vinyl Chloride	0.7211	0.6901	0.6643	0.6634	0.6612	0.6709	0.6960	0.6329	0.5838	AVRG		1.50407		0.6649	6	15	0.05	0.99	
Bromomethane		0.5864	0.5928	0.5425	0.5028	0.4919	0.5265	0.5105	0.4931	AVRG		1.88390		0.5308	8	15	0.05	0.99	
Chloroethane		0.4522	0.3986	0.4029	0.4190	0.3984	0.4145	0.3698	0.3454	AVRG		2.49946		0.4001	8	15	0.05	0.99	
Trichlorofluoromethane		0.9357	0.9375	0.9871	0.9255	0.9699	1.0017	0.9609	0.9336	AVRG		1.04550		0.9565	3	15	0.05	0.99	
Acetone			0.1946	0.1865	0.1646	0.1701	0.1715	0.1707	0.1684	AVRG		5.70786		0.1752	6	15	0.05	0.99	
Freon 113		0.4714	0.5355	0.5400	0.4172	0.4390	0.4539	0.4658	0.4325	AVRG		2.13031		0.4694	10	15	0.05	0.99	
1,1-Dichloroethene		0.6277	0.4730	0.4379	0.4304	0.4270	0.4427	0.4424	0.4382	AVRG		2.15096		0.4649	14	15	0.05	0.99	
Methylene Chloride		0.6938	0.5654	0.5282	0.5252	0.5188	0.5425	0.5227	0.5147	AVRG		1.81353		0.5514	11	15	0.05	0.99	
Carbon Disulfide		1.7640	1.4790	1.4346	1.4895	1.4586	1.5160	1.4923	1.4822	AVRG		0.66028		1.5145	7	15	0.05	0.99	
MTBE		1.5465	1.3431	1.3544	1.3891	1.3902	1.4751	1.4614	1.4482	AVRG		0.70127		1.4260	5	15	0.05	0.99	
trans-1,2-Dichloroethene		0.6307	0.5157	0.4948	0.5045	0.4966	0.5162	0.5073	0.5037	AVRG		1.91871		0.5212	9	15	0.05	0.99	
Vinyl Acetate			0.6838	0.6801	0.6303	0.6431	0.6614	0.6395	0.6989	AVRG		1.50957		0.6624	4	15	0.05	0.99	
1,1-Dichloroethane		1.0879	0.9252	0.9127	0.9261	0.9128	0.9510	0.9220	0.9111	AVRG		1.05978		0.9436	6	15	0.10	0.99	
2-Butanone			0.2384	0.2279	0.2185	0.2265	0.2251	0.2262	0.2240	AVRG		4.41231		0.2266	3	15	0.05	0.99	
2,2-Dichloropropane		0.6627	0.6154	0.6271	0.6270	0.6375	0.6799	0.6764	0.6665	AVRG		1.54065		0.6491	4	15	0.05	0.99	
cis-1,2-Dichloroethene		0.7159	0.5575	0.5475	0.5570	0.5495	0.5778	0.5708	0.5661	AVRG		1.72337		0.5803	10	15	0.05	0.99	
Chloroform		0.9969	0.8321	0.8095	0.8431	0.8394	0.8791	0.8601	0.8492	AVRG		1.15786		0.8637	7	15	0.05	0.99	
Bromochloromethane		0.3069	0.2534	0.2571	0.2595	0.2594	0.2763	0.2725	0.2703	AVRG		3.71162		0.2694	6	15	0.05	0.99	
1,1,1-Trichloroethane		0.8081	0.6853	0.6803	0.6892	0.6917	0.7262	0.7217	0.7213	AVRG		1.39768		0.7155	6	15	0.05	0.99	
1,1-Dichloropropene		0.4420	0.3648	0.3711	0.3699	0.3753	0.4032	0.4106	0.4104	AVRG		2.54204		0.3934	7	15	0.05	0.99	
Carbon Tetrachloride		0.2842	0.2763	0.2780	0.2847	0.3041	0.3321	0.3474	0.3511	AVRG		3.25461		0.3073	10	15	0.05	0.99	
1,2-Dichloroethane		0.4416	0.3844	0.3881	0.3880	0.3840	0.3961	0.3945	0.3894	AVRG		2.52680		0.3958	5	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		1.4780	1.2389	1.2247	1.2321	1.2508	1.3183	1.3057	1.2981	AVRG		0.77320		1.2933	6	15	0.05	0.99	
Trichloroethene		0.3262	0.3073	0.2966	0.2897	0.2977	0.3137	0.3146	0.3110	AVRG		3.25623		0.3071	4	15	0.05	0.99	
1,2-Dichloropropane		0.3389	0.3011	0.3017	0.3036	0.3052	0.3220	0.3199	0.3182	AVRG		3.18653		0.3138	4	15	0.05	0.99	
Bromodichloromethane		0.3808	0.3270	0.3351	0.3438	0.3527	0.3853	0.3887	0.3889	AVRG		2.75634		0.3628	7	15	0.05	0.99	
Dibromomethane		0.2156	0.1821	0.1838	0.1822	0.1819	0.1911	0.1919	0.1910	AVRG		5.26462		0.1899	6	15	0.05	0.99	
4-Methyl-2-Pentanone			0.2484	0.2479	0.2508	0.2634	0.2796	0.2850	0.2864	AVRG		3.76047		0.2659	7	15	0.05	0.99	
cis-1,3-Dichloropropene		0.4386	0.4197	0.4120	0.4310	0.4508	0.4966	0.5045	0.5061	AVRG		2.18614		0.4574	9	15	0.05	0.99	
Toluene		0.9174	0.8003	0.7976	0.7832	0.8043	0.8510	0.8593	0.8479	AVRG		1.20102		0.8326	5	15	0.05	0.99	
trans-1,3-Dichloropropene		0.4771	0.4033	0.4132	0.4319	0.4518	0.4938	0.5038	0.5022	AVRG		2.17557		0.4596	9	15	0.05	0.99	
1,1,2-Trichloroethane		0.1832	0.1622	0.1511	0.1532	0.1505	0.1592	0.1590	0.1574	AVRG		6.27015		0.1595	7	15	0.05	0.99	
2-Hexanone			0.1927	0.1840	0.1950	0.2035	0.2147	0.2175	0.2163	AVRG		4.91676		0.2034	7	15	0.05	0.99	
1,3-Dichloropropane		0.5919	0.5330	0.5146	0.5253	0.5289	0.5525	0.5487	0.5393	AVRG		1.84577		0.5418	4	15	0.05	0.99	
Tetrachloroethene		0.3367	0.3069	0.2914	0.2909	0.3084	0.3178	0.3263	0.3275	AVRG		3.19247		0.3132	5	15	0.05	0.99	
Dibromochloromethane		0.2318	0.2263	0.2276	0.2434	0.2614	0.2920	0.3033	0.3060	AVRG		3.82455		0.2615	13	15	0.05	0.99	
1,2-Dibromoethane		0.3231	0.2693	0.2677	0.2733	0.2786	0.2948	0.2962	0.2963	AVRG		3.47942		0.2874	7	15	0.05	0.99	
Chlorobenzene		1.0276	0.8790	0.8606	0.8458	0.8654	0.9083	0.9164	0.9108	AVRG		1.10897		0.9017	6	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.2763	0.2482	0.2436	0.2541	0.2679	0.2961	0.3030	0.3062	AVRG		3.64388		0.2744	9	15	0.05	0.99	
Ethylbenzene		1.6218	1.3786	1.3676	1.3811	1.4532	1.5466	1.5659	1.5599	AVRG		0.67371		1.4843	7	15	0.05	0.99	
m,p-Xylenes	0.5291	0.5926	0.5395	0.5383	0.5498	0.5809	0.6299	0.6431	0.6523	AVRG		1.71246		0.5840	8	15	0.05	0.99	
o-Xylene		0.5625	0.4917	0.4955	0.5116	0.5429	0.5981	0.6128	0.6224	AVRG		1.80282		0.5547	9	15	0.05	0.99	
Styrene		0.8247	0.7907	0.8218	0.8738	0.9333	1.0393	1.0658	1.0790	AVRG		1.07693		0.9286	13	15	0.05	0.99	
Bromoform		0.1093	0.1118	0.1163	0.1257	0.1373	0.1649			QUAD	0.29446	7.84450	-0.22044	0.1275	1.000	15	0.10	0.99	
Isopropylbenzene		2.4224	2.2197	2.2743	2.2898	2.4394	2.6338	2.7009	2.6630	AVRG		0.40727		2.4554	8	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		0.6712	0.5918	0.5883	0.5948	0.6068	0.6164	0.6221	0.6221	AVRG		1.62819		0.6142	4	15	0.30	0.99	
1,2,3-Trichloropropane		0.7930	0.6621	0.5965	0.6442	0.6501	0.6647	0.6734	0.6560	AVRG		1.49809		0.6675	8	15	0.05	0.99	
Propylbenzene		3.1798	2.8953	2.8276	2.8094	2.9862	3.2071	3.2900	3.2584	AVRG		0.32715		3.0567	7	15	0.05	0.99	
Bromobenzene		0.7509	0.6363	0.6378	0.6336	0.6476	0.6927	0.7201	0.7227	AVRG		1.47015		0.6802	7	15	0.05	0.99	
1,3,5-Trimethylbenzene		2.1785	1.9399	1.9821	1.9843	2.1197	2.3016	2.4020	2.3922	AVRG		0.46242		2.1625	9	15	0.05	0.99	
2-Chlorotoluene		2.2497	1.9940	1.9613	1.9353	2.0550	2.1935	2.2340	2.2187	AVRG		0.47502		2.1052	6	15	0.05	0.99	
4-Chlorotoluene		2.0944	1.8154	1.8067	1.7971	1.8882	1.9994	2.0316	1.9942	AVRG		0.51857		1.9284	6	15	0.05	0.99	
tert-Butylbenzene		1.7818	1.6152	1.6080	1.6177	1.7152	1.8779	1.9343	1.9271	AVRG		0.56830		1.7596	8	15	0.05	0.99	
1,2,4-Trimethylbenzene		2.1839	1.9823	2.0009	2.0580	2.1838	2.3497	2.4131	2.3873	AVRG		0.45560		2.1949	8	15	0.05	0.99	
sec-Butylbenzene		2.6745	2.3421	2.3831	2.3665	2.5475	2.7534	2.8345	2.8240	AVRG		0.38600		2.5907	8	15	0.05	0.99	
para-Isopropyl Toluene		2.1960	1.9559	2.0249	2.0736	2.2005	2.4036	2.4959	2.4987	AVRG		0.44820		2.2311	10	15	0.05	0.99	
1,3-Dichlorobenzene		1.3751	1.2072	1.1596	1.1608	1.1977	1.2722	1.3030	1.2969	AVRG		0.80221		1.2466	6	15	0.05	0.99	
1,4-Dichlorobenzene		1.5531	1.3101	1.2364	1.2268	1.2539	1.3203	1.3449	1.3380	AVRG		0.75589		1.3229	8	15	0.05	0.99	
n-Butylbenzene		2.2094	1.8924	1.9323	1.9234	2.0516	2.2109	2.2857	2.2733	AVRG		0.47679		2.0974	8	15	0.05	0.99	
1,2-Dichlorobenzene		1.3702	1.1276	1.1724	1.1634	1.1820	1.2424	1.2624	1.2615	AVRG		0.81783		1.2227	6	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane			0.1281	0.1151	0.1176	0.1212	0.1283	0.1357	0.1348	AVRG		7.94698		0.1258	6	15	0.05	0.99	
1,2,4-Trichlorobenzene		0.9399	0.8518	0.8344	0.8520	0.8878	0.9342	0.9781	0.9924	AVRG		1.10031		0.9088	7	15	0.05	0.99	
Hexachlorobutadiene		0.2950	0.2689	0.2731	0.2713	0.2801	0.3155	0.3260	0.3358	AVRG		3.38159		0.2957	9	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene		2.4815	2.1903	2.2473	2.3445	2.5443	2.7070	2.8402	2.7891	AVRG		0.39714		2.5180	10	15	0.05	0.99	
1,2,3-Trichlorobenzene		0.9779	0.8202	0.8179	0.8450	0.8733	0.9294	0.9718	0.9607	AVRG		1.11170		0.8995	8	15	0.05	0.99	
Dibromofluoromethane	0.4980	0.5010	0.4982	0.4960	0.5051	0.4916	0.5013	0.4908	0.4959	AVRG		2.00990		0.4975	1	15	0.05	0.99	
1,2-Dichloroethane-d4	0.3561	0.3571	0.3591	0.3633	0.3601	0.3596	0.3635	0.3654	0.3645	AVRG		2.77045		0.3610	1	15	0.05	0.99	
Toluene-d8	1.3580	1.3601	1.3596	1.3593	1.3626	1.3558	1.3451	1.3464	1.3316	AVRG		0.73901		1.3532	1	15	0.05	0.99	
Bromofluorobenzene	0.9127	0.8991	0.9040	0.8958	0.9066	0.8923	0.8911	0.8885	0.8738	AVRG		1.11609		0.8960	1	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Freon 12			1.0000	2	2.0000	-2	5.0000	2	10.000	-9	20.000	-3	50.000	3	75.000	4	100.00	3
Chloromethane	0.5000	12	1.0000	15	2.0000	1	5.0000	-1	10.000	-1	20.000	-4	50.000	-2	75.000	-9	100.00	-12
Vinyl Chloride	0.5000	8	1.0000	4	2.0000	0	5.0000	0	10.000	-1	20.000	1	50.000	5	75.000	-5	100.00	-12
Bromomethane			1.0000	10	2.0000	12	5.0000	2	10.000	-5	20.000	-7	50.000	-1	75.000	-4	100.00	-7
Chloroethane			1.0000	13	2.0000	0	5.0000	1	10.000	5	20.000	0	50.000	4	75.000	-8	100.00	-14
Trichlorofluoromethane			1.0000	-2	2.0000	-2	5.0000	3	10.000	-3	20.000	1	50.000	5	75.000	0	100.00	-2
Acetone					2.0000	11	5.0000	6	10.000	-6	20.000	-3	50.000	-2	75.000	-3	100.00	-4
Freon 113			0.5000	0	2.0000	14	5.0000	15	10.000	-11	20.000	-6	50.000	-3	75.000	-1	100.00	-8
1,1-Dichloroethene			0.5000	**35**	2.0000	2	5.0000	-6	10.000	-7	20.000	-8	50.000	-5	75.000	-5	100.00	-6
Methylene Chloride			0.5000	**26**	2.0000	3	5.0000	-4	10.000	-5	20.000	-6	50.000	-2	75.000	-5	100.00	-7
Carbon Disulfide			0.5000	16	2.0000	-2	5.0000	-5	10.000	-2	20.000	-4	50.000	0	75.000	-1	100.00	-2
MTBE			0.5000	8	2.0000	-6	5.0000	-5	10.000	-3	20.000	-3	50.000	3	75.000	2	100.00	2
trans-1,2-Dichloroethene			0.5000	**21**	2.0000	-1	5.0000	-5	10.000	-3	20.000	-5	50.000	-1	75.000	-3	100.00	-3
Vinyl Acetate					2.0000	3	5.0000	3	10.000	-5	20.000	-3	50.000	0	75.000	-3	100.00	6
1,1-Dichloroethane			0.5000	15	2.0000	-2	5.0000	-3	10.000	-2	20.000	-3	50.000	1	75.000	-2	100.00	-3
2-Butanone					2.0000	5	5.0000	1	10.000	-4	20.000	0	50.000	-1	75.000	0	100.00	-1
2,2-Dichloropropane			0.5000	2	2.0000	-5	5.0000	-3	10.000	-3	20.000	-2	50.000	5	75.000	4	100.00	3
cis-1,2-Dichloroethene			0.5000	**23**	2.0000	-4	5.0000	-6	10.000	-4	20.000	-5	50.000	0	75.000	-2	100.00	-2
Chloroform			0.5000	15	2.0000	-4	5.0000	-6	10.000	-2	20.000	-3	50.000	2	75.000	0	100.00	-2
Bromochloromethane			0.5000	14	2.0000	-6	5.0000	-5	10.000	-4	20.000	-4	50.000	3	75.000	1	100.00	0
1,1,1-Trichloroethane			0.5000	13	2.0000	-4	5.0000	-5	10.000	-4	20.000	-3	50.000	2	75.000	1	100.00	1
1,1-Dichloropropene			0.5000	12	2.0000	-7	5.0000	-6	10.000	-6	20.000	-5	50.000	2	75.000	4	100.00	4
Carbon Tetrachloride			0.5000	-7	2.0000	-10	5.0000	-10	10.000	-7	20.000	-1	50.000	8	75.000	13	100.00	14
1,2-Dichloroethane			0.5000	12	2.0000	-3	5.0000	-2	10.000	-2	20.000	-3	50.000	0	75.000	0	100.00	-2
Benzene			0.5000	14	2.0000	-4	5.0000	-5	10.000	-5	20.000	-3	50.000	2	75.000	1	100.00	0
Trichloroethene			0.5000	6	2.0000	0	5.0000	-3	10.000	-6	20.000	-3	50.000	2	75.000	2	100.00	1
1,2-Dichloropropane			0.5000	8	2.0000	-4	5.0000	-4	10.000	-3	20.000	-3	50.000	3	75.000	2	100.00	1
Bromodichloromethane			0.5000	5	2.0000	-10	5.0000	-8	10.000	-5	20.000	-3	50.000	6	75.000	7	100.00	7
Dibromomethane			0.5000	13	2.0000	-4	5.0000	-3	10.000	-4	20.000	-4	50.000	1	75.000	1	100.00	1
4-Methyl-2-Pentanone					2.0000	-7	5.0000	-7	10.000	-6	20.000	-1	50.000	5	75.000	7	100.00	8
cis-1,3-Dichloropropene			0.5000	-4	2.0000	-8	5.0000	-10	10.000	-6	20.000	-1	50.000	9	75.000	10	100.00	11
Toluene			0.5000	10	2.0000	-4	5.0000	-4	10.000	-6	20.000	-3	50.000	2	75.000	3	100.00	2
trans-1,3-Dichloropropene			0.5000	4	2.0000	-12	5.0000	-10	10.000	-6	20.000	-2	50.000	7	75.000	10	100.00	9
1,1,2-Trichloroethane			0.5000	15	2.0000	2	5.0000	-5	10.000	-4	20.000	-6	50.000	0	75.000	0	100.00	-1
2-Hexanone					2.0000	-5	5.0000	-10	10.000	-4	20.000	0	50.000	6	75.000	7	100.00	6
1,3-Dichloropropane			0.5000	9	2.0000	-2	5.0000	-5	10.000	-3	20.000	-2	50.000	2	75.000	1	100.00	0
Tetrachloroethene			0.5000	7	2.0000	-2	5.0000	-7	10.000	-7	20.000	-2	50.000	1	75.000	4	100.00	5
Dibromochloromethane			0.5000	-11	2.0000	-13	5.0000	-13	10.000	-7	20.000	0	50.000	12	75.000	16	100.00	17
1,2-Dibromoethane			0.5000	12	2.0000	-6	5.0000	-7	10.000	-5	20.000	-3	50.000	3	75.000	3	100.00	3
Chlorobenzene			0.5000	14	2.0000	-3	5.0000	-5	10.000	-6	20.000	-4	50.000	1	75.000	2	100.00	1
1,1,1,2-Tetrachloroethane			0.5000	1	2.0000	-10	5.0000	-11	10.000	-7	20.000	-2	50.000	8	75.000	10	100.00	12
Ethylbenzene			0.5000	9	2.0000	-7	5.0000	-8	10.000	-7	20.000	-2	50.000	4	75.000	5	100.00	5

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
m,p-Xylenes	0.5000	-9	1.0000	1	4.0000	-8	10.000	-8	20.000	-6	40.000	-1	100.00	8	150.00	10	200.00	12
o-Xylene			0.5000	1	2.0000	-11	5.0000	-11	10.000	-8	20.000	-2	50.000	8	75.000	10	100.00	12
Styrene			0.5000	-11	2.0000	-15	5.0000	-11	10.000	-6	20.000	1	50.000	12	75.000	15	100.00	16
Bromoform			0.5000	**44**	2.0000	2	5.0000	-4	10.000	-2	20.000	1	50.000	0				
Isopropylbenzene			0.5000	-1	2.0000	-10	5.0000	-7	10.000	-7	20.000	-1	50.000	7	75.000	10	100.00	8
1,1,2,2-Tetrachloroethane			0.5000	9	2.0000	-4	5.0000	-4	10.000	-3	20.000	-1	50.000	0	75.000	1	100.00	1
1,2,3-Trichloropropane			0.5000	19	2.0000	-1	5.0000	-11	10.000	-3	20.000	-3	50.000	0	75.000	1	100.00	-2
Propylbenzene			0.5000	4	2.0000	-5	5.0000	-7	10.000	-8	20.000	-2	50.000	5	75.000	8	100.00	7
Bromobenzene			0.5000	10	2.0000	-6	5.0000	-6	10.000	-7	20.000	-5	50.000	2	75.000	6	100.00	6
1,3,5-Trimethylbenzene			0.5000	1	2.0000	-10	5.0000	-8	10.000	-8	20.000	-2	50.000	6	75.000	11	100.00	11
2-Chlorotoluene			0.5000	7	2.0000	-5	5.0000	-7	10.000	-8	20.000	-2	50.000	4	75.000	6	100.00	5
4-Chlorotoluene			0.5000	9	2.0000	-6	5.0000	-6	10.000	-7	20.000	-2	50.000	4	75.000	5	100.00	3
tert-Butylbenzene			0.5000	1	2.0000	-8	5.0000	-9	10.000	-8	20.000	-3	50.000	7	75.000	10	100.00	10
1,2,4-Trimethylbenzene			0.5000	0	2.0000	-10	5.0000	-9	10.000	-6	20.000	-1	50.000	7	75.000	10	100.00	9
sec-Butylbenzene			0.5000	3	2.0000	-10	5.0000	-8	10.000	-9	20.000	-2	50.000	6	75.000	9	100.00	9
para-Isopropyl Toluene			0.5000	-2	2.0000	-12	5.0000	-9	10.000	-7	20.000	-1	50.000	8	75.000	12	100.00	12
1,3-Dichlorobenzene			0.5000	10	2.0000	-3	5.0000	-7	10.000	-7	20.000	-4	50.000	2	75.000	5	100.00	4
1,4-Dichlorobenzene			0.5000	17	2.0000	-1	5.0000	-7	10.000	-7	20.000	-5	50.000	0	75.000	2	100.00	1
n-Butylbenzene			0.5000	5	2.0000	-10	5.0000	-8	10.000	-8	20.000	-2	50.000	5	75.000	9	100.00	8
1,2-Dichlorobenzene			0.5000	12	2.0000	-8	5.0000	-4	10.000	-5	20.000	-3	50.000	2	75.000	3	100.00	3
1,2-Dibromo-3-Chloropropane					2.0000	2	5.0000	-9	10.000	-7	20.000	-4	50.000	2	75.000	8	100.00	7
1,2,4-Trichlorobenzene			0.5000	3	2.0000	-6	5.0000	-8	10.000	-6	20.000	-2	50.000	3	75.000	8	100.00	9
Hexachlorobutadiene			0.5000	0	2.0000	-9	5.0000	-8	10.000	-8	20.000	-5	50.000	7	75.000	10	100.00	14
Naphthalene			0.5000	-1	2.0000	-13	5.0000	-11	10.000	-7	20.000	1	50.000	8	75.000	13	100.00	11
1,2,3-Trichlorobenzene			0.5000	9	2.0000	-9	5.0000	-9	10.000	-6	20.000	-3	50.000	3	75.000	8	100.00	7
Dibromofluoromethane	50.000	0	50.000	1	50.000	0	50.000	0	50.000	2	50.000	-1	50.000	1	50.000	-1	50.000	0
1,2-Dichloroethane-d4	50.000	-1	50.000	-1	50.000	-1	50.000	1	50.000	0	50.000	0	50.000	1	50.000	1	50.000	1
Toluene-d8	50.000	0	50.000	1	50.000	0	50.000	0	50.000	1	50.000	0	50.000	-1	50.000	-1	50.000	-2
Bromofluorobenzene	50.000	2	50.000	0	50.000	1	50.000	0	50.000	1	50.000	0	50.000	-1	50.000	-1	50.000	-2

DAR 07/09/13 [2-Chloroethylvinylether]: Combined split peak in (gg314).

DAR 07/09/13 [Bromoform]: Quadratic lowpoint is high, rerun hits under 2 ppb

Analyst: DAR Date: 07/09/13 Reviewer: LW Date: 07/09/13

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; QUAD=Quadratic regression

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 246655 MSVOA Water
EPA 8260B

Inst : MSVOA07 Name : 826GOX7
Calnum : 463265607001 Cal Date : 03-JUL-2013 Type : WATER

ICV 463265607022 (gg322 04-JUL-2013) stds: S22435 (10000X), S22539 (5000X)
ICV 463265607023 (gg323 04-JUL-2013) stds: S22666 (10000X), S22596 (10000X), S22609 (10000X), S22539 (5000X)

Analyte	ICV Seqnum	Spiked	Quant	Units	%D	Max	Flags
Freon 12	463265607022	20.00	17.52	ug/L	-12	30	
Chloromethane	463265607022	20.00	18.38	ug/L	-8	30	
Vinyl Chloride	463265607022	20.00	18.66	ug/L	-7	20	
Bromomethane	463265607022	20.00	16.39	ug/L	-18	30	
Chloroethane	463265607022	20.00	18.47	ug/L	-8	30	
Trichlorofluoromethane	463265607022	20.00	18.41	ug/L	-8	30	
Acetone	463265607023	25.00	25.91	ug/L	4	40	
Freon 113	463265607023	25.00	22.67	ug/L	-9	30	
1,1-Dichloroethene	463265607023	25.00	23.12	ug/L	-8	20	
Methylene Chloride	463265607023	25.00	24.73	ug/L	-1	30	
Carbon Disulfide	463265607023	25.00	26.07	ug/L	4	30	
MTBE	463265607023	25.00	25.47	ug/L	2	30	
trans-1,2-Dichloroethene	463265607023	25.00	25.33	ug/L	1	30	
Vinyl Acetate	463265607023	25.00	22.75	ug/L	-9	40	
1,1-Dichloroethane	463265607023	25.00	24.80	ug/L	-1	30	
2-Butanone	463265607023	25.00	25.30	ug/L	1	40	
2,2-Dichloropropane	463265607023	25.00	24.97	ug/L	0	30	
cis-1,2-Dichloroethene	463265607023	25.00	24.92	ug/L	0	30	
Chloroform	463265607023	25.00	25.48	ug/L	2	20	
Bromochloromethane	463265607023	25.00	25.34	ug/L	1	30	
1,1,1-Trichloroethane	463265607023	25.00	25.93	ug/L	4	30	
1,1-Dichloropropene	463265607023	25.00	26.46	ug/L	6	30	
Carbon Tetrachloride	463265607023	25.00	27.01	ug/L	8	30	
1,2-Dichloroethane	463265607023	25.00	25.62	ug/L	2	30	
Benzene	463265607023	25.00	25.45	ug/L	2	30	
Trichloroethene	463265607023	25.00	26.30	ug/L	5	30	
1,2-Dichloropropane	463265607023	25.00	25.83	ug/L	3	20	
Bromodichloromethane	463265607023	25.00	25.27	ug/L	1	30	
Dibromomethane	463265607023	25.00	24.99	ug/L	0	30	
4-Methyl-2-Pentanone	463265607023	25.00	25.28	ug/L	1	40	
cis-1,3-Dichloropropene	463265607023	25.00	27.87	ug/L	11	30	
Toluene	463265607023	25.00	26.02	ug/L	4	20	
trans-1,3-Dichloropropene	463265607023	25.00	25.33	ug/L	1	30	
1,1,2-Trichloroethane	463265607023	25.00	25.84	ug/L	3	30	
2-Hexanone	463265607023	25.00	26.28	ug/L	5	40	
1,3-Dichloropropane	463265607023	25.00	26.10	ug/L	4	30	
Tetrachloroethene	463265607023	25.00	26.36	ug/L	5	30	
Dibromochloromethane	463265607023	25.00	26.87	ug/L	7	30	
1,2-Dibromoethane	463265607023	25.00	25.78	ug/L	3	30	
Chlorobenzene	463265607023	25.00	24.30	ug/L	-3	30	
1,1,1,2-Tetrachloroethane	463265607023	25.00	26.56	ug/L	6	30	
Ethylbenzene	463265607023	25.00	26.64	ug/L	7	20	
m,p-Xylenes	463265607023	50.00	52.65	ug/L	5	30	
o-Xylene	463265607023	25.00	24.99	ug/L	0	30	
Styrene	463265607023	25.00	27.34	ug/L	9	30	
Bromoform	463265607023	25.00	29.12	ug/L	16	30	
Isopropylbenzene	463265607023	25.00	25.62	ug/L	2	30	

Analyte	ICV Seqnum	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	463265607023	25.00	26.36	ug/L	5	30	
1,2,3-Trichloropropane	463265607023	25.00	25.76	ug/L	3	30	
Propylbenzene	463265607023	25.00	24.39	ug/L	-2	30	
Bromobenzene	463265607023	25.00	25.69	ug/L	3	30	
1,3,5-Trimethylbenzene	463265607023	25.00	28.20	ug/L	13	30	
2-Chlorotoluene	463265607023	25.00	25.34	ug/L	1	30	
4-Chlorotoluene	463265607023	25.00	24.46	ug/L	-2	30	
tert-Butylbenzene	463265607023	25.00	25.23	ug/L	1	30	
1,2,4-Trimethylbenzene	463265607023	25.00	27.86	ug/L	11	30	
sec-Butylbenzene	463265607023	25.00	25.11	ug/L	0	30	
para-Isopropyl Toluene	463265607023	25.00	25.20	ug/L	1	30	
1,3-Dichlorobenzene	463265607023	25.00	24.63	ug/L	-1	30	
1,4-Dichlorobenzene	463265607023	25.00	26.32	ug/L	5	30	
n-Butylbenzene	463265607023	25.00	26.87	ug/L	7	30	
1,2-Dichlorobenzene	463265607023	25.00	24.83	ug/L	-1	30	
1,2-Dibromo-3-Chloropropane	463265607023	25.00	24.63	ug/L	-1	30	
1,2,4-Trichlorobenzene	463265607023	25.00	26.80	ug/L	7	30	
Hexachlorobutadiene	463265607023	25.00	26.82	ug/L	7	30	
Naphthalene	463265607023	25.00	27.78	ug/L	11	30	
1,2,3-Trichlorobenzene	463265607023	25.00	26.56	ug/L	6	30	

463265607022: Analyst: DAR Date: 07/09/13 Reviewer: LW Date: 07/09/13
463265607023: Analyst: DAR Date: 07/09/13 Reviewer: LW Date: 07/09/13

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 246655 MSVOA Water: EPA 8260B

Inst : MSVOA08 Name : 826GOX8
Calnum : 473114230005 Date : 20-MAR-2013 15:46 Type : WATER
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	hck10	473114230010		20-MAR-2013 15:46	S21889 (2000000X), S21576 (1000000X), S21635 (2000000X), S21908 (2000000X), S21822 (5000X)
L2	hck11	473114230011		20-MAR-2013 16:23	S21889 (1000000X), S21576 (500000X), S21635 (1000000X), S21908 (1000000X), S21822 (5000X)
L3	hck12	473114230012		20-MAR-2013 17:00	S21889 (250000X), S21576 (250000X), S21635 (500000X), S21908 (250000X), S21822 (5000X)
L4	hck13	473114230013		20-MAR-2013 17:40	S21889 (100000X), S21576 (100000X), S21635 (200000X), S21908 (100000X), S21822 (5000X)
L5	hck14	473114230014		20-MAR-2013 18:18	S21889 (50000X), S21576 (50000X), S21635 (100000X), S21908 (50000X), S21822 (5000X)
L6	hck15	473114230015		20-MAR-2013 18:55	S21889 (25000X), S21576 (25000X), S21635 (50000X), S21908 (25000X), S21822 (5000X)
L7	hck16	473114230016		20-MAR-2013 19:32	S21889 (10000X), S21576 (10000X), S21635 (20000X), S21908 (10000X), S21822 (5000X)
L8	hck17	473114230017		20-MAR-2013 20:10	S21889 (6667X), S21576 (6667X), S21635 (13330X), S21908 (6667X), S21822 (5000X)
L9	hck18	473114230018		20-MAR-2013 21:08	S21889 (5000X), S21576 (5000X), S21635 (10000X), S21908 (5000X), S21822 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.8456	0.8462	0.7309	0.6998	0.7889	0.7954	0.7353	0.7112	AVRG		1.30013		0.7692	8	15	0.05	0.99	
Chloromethane	0.9791	0.9239m	0.9947	0.8273	0.8638	0.8558	0.8198	0.7010	0.6768	AVRG		1.17765		0.8491	13	15	0.10	0.99	
Vinyl Chloride	0.7662	0.6398	0.7271	0.5984	0.6155	0.6641	0.6258	0.5646	0.5390	AVRG		1.56779		0.6378	11	15	0.05	0.99	
Bromomethane		0.3013m	0.4298m	0.3692	0.3863	0.4252	0.4059	0.3916	0.3808	AVRG		2.58886		0.3863	10	15	0.05	0.99	
Chloroethane		0.3466	0.4026	0.3451	0.3367	0.3558	0.3384	0.3151	0.2995	AVRG		2.91998		0.3425	9	15	0.05	0.99	
Trichlorofluoromethane		0.6748	0.7185	0.6067	0.5966	0.6635	0.6448	0.6006	0.5934	AVRG		1.56899		0.6374	7	15	0.05	0.99	
Acetone				0.1453	0.1298	0.1272	0.1307	0.1239	0.1363	AVRG		7.56449		0.1322	6	15	0.05	0.99	
Freon 113		0.4332	0.5352	0.4485	0.4253	0.4844	0.4932	0.4567	0.4418	AVRG		2.15157		0.4648	8	15	0.05	0.99	
1,1-Dichloroethene		0.4741	0.5506	0.4390	0.4832	0.4900	0.4946	0.4531	0.4459	AVRG		2.08855		0.4788	7	15	0.05	0.99	
Methylene Chloride		0.6388	0.6687	0.5796	0.6438	0.6399	0.6207	0.5630	0.5594	AVRG		1.62806		0.6142	7	15	0.05	0.99	
Carbon Disulfide		1.9961	2.2114	1.8393	1.9774	2.0022	1.9480	1.7716	1.7422	AVRG		0.51652		1.9360	8	15	0.05	0.99	
MTBE		1.0500	1.2627	1.1211	1.1835	1.1890	1.1913	1.1048	1.1442	AVRG		0.86519		1.1558	6	15	0.05	0.99	
trans-1,2-Dichloroethene		0.5135	0.5843	0.5184	0.5586	0.5643	0.5587	0.5079	0.4989	AVRG		1.85852		0.5381	6	15	0.05	0.99	
Vinyl Acetate			0.8355	0.7122	0.7023	0.7301	0.6831	0.6122		AVRG		1.40338		0.7126	10	15	0.05	0.99	
1,1-Dichloroethane		1.0574	1.2250	0.9754	1.0828	1.0661	1.0301	0.9321	0.8996	AVRG		0.96754		1.0335	10	15	0.10	0.99	
2-Butanone				0.1820	0.1683	0.1728	0.1679	0.1571	0.1710	AVRG		5.88764		0.1698	5	15	0.05	0.99	
2,2-Dichloropropane		0.6519	0.7715	0.6376	0.6908	0.6894	0.6787	0.6192	0.6065	AVRG		1.49654		0.6682	8	15	0.05	0.99	
cis-1,2-Dichloroethene		0.5888	0.6660	0.5357	0.6130	0.6091	0.5998	0.5508	0.5426	AVRG		1.70000		0.5882	7	15	0.05	0.99	
Chloroform		0.9104	1.0458	0.8736	0.9803	0.9649	0.9411	0.8488	0.8317	AVRG		1.08157		0.9246	8	15	0.05	0.99	
Bromochloromethane		0.2682	0.3151	0.2547	0.2864	0.2881	0.2845	0.2610	0.2497	AVRG		3.62357		0.2760	8	15	0.05	0.99	
1,1,1-Trichloroethane		0.6679	0.7283	0.5800	0.6440	0.6570	0.6567	0.6110	0.5906	AVRG		1.55780		0.6419	7	15	0.05	0.99	
1,1-Dichloropropene		0.4099	0.4692	0.3820	0.4185	0.4379	0.4251	0.4024	0.3805	AVRG		2.40568		0.4157	7	15	0.05	0.99	
Carbon Tetrachloride		0.3072	0.3654	0.3158	0.3416	0.3643	0.3633	0.3509	0.3340	AVRG		2.91721		0.3428	7	15	0.05	0.99	
1,2-Dichloroethane		0.4102	0.4259	0.3692	0.3895	0.3933	0.3773	0.3623	0.3508	AVRG		2.59859		0.3848	7	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		1.3063	1.4491	1.1789	1.3169	1.2979	1.2247	1.1272	1.0486	AVRG		0.80405		1.2437	10	15	0.05	0.99	
Trichloroethene		0.3186	0.3703	0.2964	0.3381	0.3410	0.3313	0.3201	0.3075	AVRG		3.04956		0.3279	7	15	0.05	0.99	
1,2-Dichloropropane		0.3864	0.4175	0.3396	0.3791	0.3832	0.3620	0.3349	0.3168	AVRG		2.74021		0.3649	9	15	0.05	0.99	
Bromodichloromethane		0.3769	0.4403	0.3762	0.4272	0.4308	0.4235	0.4055	0.3940	AVRG		2.44325		0.4093	6	15	0.05	0.99	
Dibromomethane		0.1781	0.2112	0.1883	0.2038	0.2020	0.2046	0.1964	0.1920	AVRG		5.07468		0.1971	5	15	0.05	0.99	
4-Methyl-2-Pentanone				0.2304	0.2248	0.2273	0.2250	0.2173	0.2368	AVRG		4.40638		0.2269	3	15	0.05	0.99	
cis-1,3-Dichloropropene		0.4323	0.5096	0.4373	0.4928	0.4862	0.4801	0.4550	0.4419	AVRG		2.14186		0.4669	6	15	0.05	0.99	
Toluene		0.9034	0.9995	0.8188	0.8987	0.8963	0.8399	0.7867	0.7459	AVRG		1.16121		0.8612	9	15	0.05	0.99	
trans-1,3-Dichloropropene		0.4479	0.5261	0.4620	0.5050	0.5214	0.5163	0.4867	0.4772	AVRG		2.02917		0.4928	6	15	0.05	0.99	
1,1,2-Trichloroethane		0.1408	0.1726	0.1611	0.1697	0.1687	0.1716	0.1636	0.1614	AVRG		6.10856		0.1637	6	15	0.05	0.99	
2-Hexanone				0.1942	0.1884	0.1899	0.1885	0.1747	0.1891	AVRG		5.33441		0.1875	4	15	0.05	0.99	
1,3-Dichloropropane		0.4996	0.5650	0.4917	0.5255	0.5299	0.5139	0.4756	0.4772	AVRG		1.96153		0.5098	6	15	0.05	0.99	
Tetrachloroethene		0.3642	0.3963	0.3255	0.3401	0.3543	0.3530	0.3430	0.3336	AVRG		2.84702		0.3512	6	15	0.05	0.99	
Dibromochloromethane		0.2976	0.3656	0.3193	0.3635	0.3736	0.3810	0.3767	0.3764	AVRG		2.80343		0.3567	9	15	0.05	0.99	
1,2-Dibromoethane		0.2868	0.3183	0.2820	0.3091	0.3166	0.3123	0.3027	0.3058	AVRG		3.28746		0.3042	4	15	0.05	0.99	
Chlorobenzene		0.9822	1.1174	0.9190	1.0266	1.0033	0.9377	0.8726	0.8270	AVRG		1.04087		0.9607	10	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.3306	0.3562	0.3139	0.3377	0.3530	0.3475	0.3302	0.3174	AVRG		2.97805		0.3358	5	15	0.05	0.99	
Ethylbenzene		1.7286	1.8761	1.5558	1.6514	1.6480	1.5103	1.3444	1.2566	AVRG		0.63637		1.5714	13	15	0.05	0.99	
m,p-Xylenes	0.4864	0.6188	0.7082	0.5702	0.6161	0.6094	0.5526	0.4922	0.4476	AVRG		1.76422		0.5668	14	15	0.05	0.99	
o-Xylene		0.6478	0.6960	0.5653	0.6279	0.6143	0.5991	0.5572	0.5142	AVRG		1.65916		0.6027	9	15	0.05	0.99	
Styrene		0.9039	1.1014	0.9580	1.0633	1.0416	0.9796	0.8978	0.8316	AVRG		1.02862		0.9722	10	15	0.05	0.99	
Bromoform		0.1424	0.1879	0.1754	0.1898	0.2032	0.2163	0.2217	0.2337	AVRG		5.09409		0.1963	15	15	0.10	0.99	
Isopropylbenzene		2.9653	3.2359	2.7632	2.9622	3.0133	2.6717	2.3797	2.2186	AVRG		0.36020		2.7762	12	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		0.5836	0.6565	0.6297	0.6676	0.6668	0.6251	0.5915	0.5906	AVRG		1.59631		0.6264	6	15	0.30	0.99	
1,2,3-Trichloropropane		0.1006	0.1628	0.1513	0.1576	0.1557	0.1575	0.1478	0.1562	AVRG		6.72589		0.1487	13	15	0.05	0.99	
Propylbenzene		3.9451	4.0213	3.3830	3.6422	3.6031	3.1210	2.7124		AVRG		0.28656		3.4897	13	15	0.05	0.99	
Bromobenzene		0.7904	0.8835	0.7341	0.8338	0.8176	0.7583	0.7006	0.6634	AVRG		1.29418		0.7727	9	15	0.05	0.99	
1,3,5-Trimethylbenzene		2.5364	2.5915	2.2352	2.4180	2.4177	2.1411	1.8734	1.7135	AVRG		0.44626		2.2408	14	15	0.05	0.99	
2-Chlorotoluene		2.5633	2.6726	2.2470	2.4843	2.4784	2.1924	1.9201	1.7495	AVRG		0.43698		2.2885	14	15	0.05	0.99	
4-Chlorotoluene		2.2434	2.4624	2.0334	2.2889	2.2833	2.0039	1.8189	1.6915	AVRG		0.47546		2.1032	12	15	0.05	0.99	
tert-Butylbenzene		2.1457	2.4230	1.9975	2.1952	2.2337	2.0164	1.8431	1.6778	AVRG		0.48390		2.0666	11	15	0.05	0.99	
1,2,4-Trimethylbenzene		2.5097	2.6021	2.2529	2.4469	2.4976	2.2196	1.9872	1.8103	AVRG		0.43653		2.2908	12	15	0.05	0.99	
sec-Butylbenzene		3.3116	3.5547	2.9503	3.1593	3.1932	2.9136	2.5973	2.3235	AVRG		0.33329		3.0004	13	15	0.05	0.99	
para-Isopropyl Toluene		2.7101	2.7723	2.3723	2.5717	2.5680	2.3328	2.0772	1.8729	AVRG		0.41500		2.4097	13	15	0.05	0.99	
1,3-Dichlorobenzene		1.6121	1.6237	1.3606	1.5203	1.4872	1.3710	1.2822	1.1718	AVRG		0.69998		1.4286	11	15	0.05	0.99	
1,4-Dichlorobenzene		1.5744	1.5960	1.3186	1.4945	1.4683	1.3548	1.2428	1.1609	AVRG		0.71363		1.4013	11	15	0.05	0.99	
n-Butylbenzene		2.5161	2.5129	2.1759	2.2925	2.3071	2.0529	1.8581	1.6986	AVRG		0.45940		2.1768	13	15	0.05	0.99	
1,2-Dichlorobenzene		1.4518	1.5532	1.3292	1.4868	1.4403	1.3427	1.2506	1.1908	AVRG		0.72428		1.3807	9	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.0808	0.1022	0.0994	0.0946	0.1025	0.1068	0.1038	0.1098	AVRG		10.0013		0.1000	9	15	0.05	0.99	
1,2,4-Trichlorobenzene		0.8086	0.8667	0.7104	0.7880	0.7986	0.7691	0.7429	0.7156	AVRG		1.29036		0.7750	7	15	0.05	0.99	
Hexachlorobutadiene		0.3553	0.3376	0.2835	0.3115	0.3236	0.3280	0.3373	0.3254	AVRG		3.07451		0.3253	7	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene		1.6250	1.7525	1.6695	1.8453	1.8665	1.7896	1.7156	1.6881	AVRG		0.57339		1.7440	5	15	0.05	0.99	
1,2,3-Trichlorobenzene		0.7198	0.7550	0.6657	0.7511	0.7464	0.7231	0.7101	0.7015	AVRG		1.38584		0.7216	4	15	0.05	0.99	
Dibromofluoromethane	0.5681	0.5635	0.5751	0.5730	0.5657	0.5680	0.5568	0.5413	0.5402	AVRG		1.78158		0.5613	2	15	0.05	0.99	
1,2-Dichloroethane-d4	0.3285	0.3158	0.3222	0.3223	0.3053	0.3057	0.2878	0.2763	0.2733	AVRG		3.28802		0.3041	7	15	0.05	0.99	
Toluene-d8	1.2132	1.2073	1.2265	1.2020	1.2150	1.2227	1.2015	1.2046	1.2115	AVRG		0.82537		1.2116	1	15	0.05	0.99	
Bromofluorobenzene	0.9812	0.9792	0.9538	0.9701	0.9884	0.9947	0.9315	0.9215	0.9161	AVRG		1.04209		0.9596	3	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Freon 12			1.0000	10	2.0000	10	5.0000	-5	10.000	-9	20.000	3	50.000	3	75.000	-4	100.00	-8
Chloromethane	0.5000	15	1.0000	9	2.0000	17	5.0000	-3	10.000	2	20.000	1	50.000	-3	75.000	-17	100.00	-20
Vinyl Chloride	0.5000	20	1.0000	0	2.0000	14	5.0000	-6	10.000	-3	20.000	4	50.000	-2	75.000	-11	100.00	-15
Bromomethane			1.0000	**-22**	2.0000	11	5.0000	-4	10.000	0	20.000	10	50.000	5	75.000	1	100.00	-1
Chloroethane			1.0000	1	2.0000	18	5.0000	1	10.000	-2	20.000	4	50.000	-1	75.000	-8	100.00	-13
Trichlorofluoromethane			1.0000	6	2.0000	13	5.0000	-5	10.000	-6	20.000	4	50.000	1	75.000	-6	100.00	-7
Acetone							5.0000	10	10.000	-2	20.000	-4	50.000	-1	75.000	-6	100.00	3
Freon 113			0.5000	-7	2.0000	15	5.0000	-3	10.000	-9	20.000	4	50.000	6	75.000	-2	100.00	-5
1,1-Dichloroethene			0.5000	-1	2.0000	15	5.0000	-8	10.000	1	20.000	2	50.000	3	75.000	-5	100.00	-7
Methylene Chloride			0.5000	4	2.0000	9	5.0000	-6	10.000	5	20.000	4	50.000	1	75.000	-8	100.00	-9
Carbon Disulfide			0.5000	3	2.0000	14	5.0000	-5	10.000	2	20.000	3	50.000	1	75.000	-8	100.00	-10
MTBE			0.5000	-9	2.0000	9	5.0000	-3	10.000	2	20.000	3	50.000	3	75.000	-4	100.00	-1
trans-1,2-Dichloroethene			0.5000	-5	2.0000	9	5.0000	-4	10.000	4	20.000	5	50.000	4	75.000	-6	100.00	-7
Vinyl Acetate					2.0000	17	5.0000	0	10.000	-1	20.000	2	50.000	-4	75.000	-14		
1,1-Dichloroethane			0.5000	2	2.0000	19	5.0000	-6	10.000	5	20.000	3	50.000	0	75.000	-10	100.00	-13
2-Butanone							5.0000	7	10.000	-1	20.000	2	50.000	-1	75.000	-8	100.00	1
2,2-Dichloropropane			0.5000	-2	2.0000	15	5.0000	-5	10.000	3	20.000	3	50.000	2	75.000	-7	100.00	-9
cis-1,2-Dichloroethene			0.5000	0	2.0000	13	5.0000	-9	10.000	4	20.000	4	50.000	2	75.000	-6	100.00	-8
Chloroform			0.5000	-2	2.0000	13	5.0000	-6	10.000	6	20.000	4	50.000	2	75.000	-8	100.00	-10
Bromochloromethane			0.5000	-3	2.0000	14	5.0000	-8	10.000	4	20.000	4	50.000	3	75.000	-5	100.00	-10
1,1,1-Trichloroethane			0.5000	4	2.0000	13	5.0000	-10	10.000	0	20.000	2	50.000	2	75.000	-5	100.00	-8
1,1-Dichloropropene			0.5000	-1	2.0000	13	5.0000	-8	10.000	1	20.000	5	50.000	2	75.000	-3	100.00	-8
Carbon Tetrachloride			0.5000	-10	2.0000	7	5.0000	-8	10.000	0	20.000	6	50.000	6	75.000	2	100.00	-3
1,2-Dichloroethane			0.5000	7	2.0000	11	5.0000	-4	10.000	1	20.000	2	50.000	-2	75.000	-6	100.00	-9
Benzene			0.5000	5	2.0000	17	5.0000	-5	10.000	6	20.000	4	50.000	-2	75.000	-9	100.00	-16
Trichloroethene			0.5000	-3	2.0000	13	5.0000	-10	10.000	3	20.000	4	50.000	1	75.000	-2	100.00	-6
1,2-Dichloropropane			0.5000	6	2.0000	14	5.0000	-7	10.000	4	20.000	5	50.000	-1	75.000	-8	100.00	-13
Bromodichloromethane			0.5000	-8	2.0000	8	5.0000	-8	10.000	4	20.000	5	50.000	3	75.000	-1	100.00	-4
Dibromomethane			0.5000	-10	2.0000	7	5.0000	-4	10.000	3	20.000	3	50.000	4	75.000	0	100.00	-3
4-Methyl-2-Pentanone							5.0000	2	10.000	-1	20.000	0	50.000	-1	75.000	-4	100.00	4
cis-1,3-Dichloropropene			0.5000	-7	2.0000	9	5.0000	-6	10.000	6	20.000	4	50.000	3	75.000	-3	100.00	-5
Toluene			0.5000	5	2.0000	16	5.0000	-5	10.000	4	20.000	4	50.000	-2	75.000	-9	100.00	-13
trans-1,3-Dichloropropene			0.5000	-9	2.0000	7	5.0000	-6	10.000	2	20.000	6	50.000	5	75.000	-1	100.00	-3
1,1,2-Trichloroethane			0.5000	-14	2.0000	5	5.0000	-2	10.000	4	20.000	3	50.000	5	75.000	0	100.00	-1
2-Hexanone							5.0000	4	10.000	0	20.000	1	50.000	1	75.000	-7	100.00	1
1,3-Dichloropropane			0.5000	-2	2.0000	11	5.0000	-4	10.000	3	20.000	4	50.000	1	75.000	-7	100.00	-6
Tetrachloroethene			0.5000	4	2.0000	13	5.0000	-7	10.000	-3	20.000	1	50.000	0	75.000	-2	100.00	-5
Dibromochloromethane			0.5000	-17	2.0000	2	5.0000	-10	10.000	2	20.000	5	50.000	7	75.000	6	100.00	6
1,2-Dibromoethane			0.5000	-6	2.0000	5	5.0000	-7	10.000	2	20.000	4	50.000	3	75.000	0	100.00	1
Chlorobenzene			0.5000	2	2.0000	16	5.0000	-4	10.000	7	20.000	4	50.000	-2	75.000	-9	100.00	-14
1,1,1,2-Tetrachloroethane			0.5000	-2	2.0000	6	5.0000	-7	10.000	1	20.000	5	50.000	3	75.000	-2	100.00	-5
Ethylbenzene			0.5000	10	2.0000	19	5.0000	-1	10.000	5	20.000	5	50.000	-4	75.000	-14	100.00	-20

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
m,p-Xylenes	0.5000	-14	1.0000	9	4.0000	**25**	10.000	1	20.000	9	40.000	8	100.00	-3	150.00	-13	200.00	**-21**
o-Xylene			0.5000	7	2.0000	15	5.0000	-6	10.000	4	20.000	2	50.000	-1	75.000	-8	100.00	-15
Styrene			0.5000	-7	2.0000	13	5.0000	-1	10.000	9	20.000	7	50.000	1	75.000	-8	100.00	-14
Bromoform			0.5000	**-27**	2.0000	-4	5.0000	-11	10.000	-3	20.000	4	50.000	10	75.000	13	100.00	19
Isopropylbenzene			0.5000	7	2.0000	17	5.0000	0	10.000	7	20.000	9	50.000	-4	75.000	-14	100.00	-20
1,1,2,2-Tetrachloroethane			0.5000	-7	2.0000	5	5.0000	1	10.000	7	20.000	6	50.000	0	75.000	-6	100.00	-6
1,2,3-Trichloropropane			0.5000	**-32**	2.0000	9	5.0000	2	10.000	6	20.000	5	50.000	6	75.000	-1	100.00	5
Propylbenzene			0.5000	13	2.0000	15	5.0000	-3	10.000	4	20.000	3	50.000	-11	75.000	**-22**		
Bromobenzene			0.5000	2	2.0000	14	5.0000	-5	10.000	8	20.000	6	50.000	-2	75.000	-9	100.00	-14
1,3,5-Trimethylbenzene			0.5000	13	2.0000	16	5.0000	0	10.000	8	20.000	8	50.000	-4	75.000	-16	100.00	**-24**
2-Chlorotoluene			0.5000	12	2.0000	17	5.0000	-2	10.000	9	20.000	8	50.000	-4	75.000	-16	100.00	**-24**
4-Chlorotoluene			0.5000	7	2.0000	17	5.0000	-3	10.000	9	20.000	9	50.000	-5	75.000	-14	100.00	-20
tert-Butylbenzene			0.5000	4	2.0000	17	5.0000	-3	10.000	6	20.000	8	50.000	-2	75.000	-11	100.00	-19
1,2,4-Trimethylbenzene			0.5000	10	2.0000	14	5.0000	-2	10.000	7	20.000	9	50.000	-3	75.000	-13	100.00	**-21**
sec-Butylbenzene			0.5000	10	2.0000	18	5.0000	-2	10.000	5	20.000	6	50.000	-3	75.000	-13	100.00	**-23**
para-Isopropyl Toluene			0.5000	12	2.0000	15	5.0000	-2	10.000	7	20.000	7	50.000	-3	75.000	-14	100.00	**-22**
1,3-Dichlorobenzene			0.5000	13	2.0000	14	5.0000	-5	10.000	6	20.000	4	50.000	-4	75.000	-10	100.00	-18
1,4-Dichlorobenzene			0.5000	12	2.0000	14	5.0000	-6	10.000	7	20.000	5	50.000	-3	75.000	-11	100.00	-17
n-Butylbenzene			0.5000	16	2.0000	15	5.0000	0	10.000	5	20.000	6	50.000	-6	75.000	-15	100.00	**-22**
1,2-Dichlorobenzene			0.5000	5	2.0000	12	5.0000	-4	10.000	8	20.000	4	50.000	-3	75.000	-9	100.00	-14
1,2-Dibromo-3-Chloropropane			0.5000	-19	2.0000	2	5.0000	-1	10.000	-5	20.000	3	50.000	7	75.000	4	100.00	10
1,2,4-Trichlorobenzene			0.5000	4	2.0000	12	5.0000	-8	10.000	2	20.000	3	50.000	-1	75.000	-4	100.00	-8
Hexachlorobutadiene			0.5000	9	2.0000	4	5.0000	-13	10.000	-4	20.000	-1	50.000	1	75.000	4	100.00	0
Naphthalene			0.5000	-7	2.0000	0	5.0000	-4	10.000	6	20.000	7	50.000	3	75.000	-2	100.00	-3
1,2,3-Trichlorobenzene			0.5000	0	2.0000	5	5.0000	-8	10.000	4	20.000	3	50.000	0	75.000	-2	100.00	-3
Dibromofluoromethane	50.000	1	50.000	0	50.000	2	50.000	2	50.000	1	50.000	1	50.000	-1	50.000	-4	50.000	-4
1,2-Dichloroethane-d4	50.000	8	50.000	4	50.000	6	50.000	6	50.000	0	50.000	1	50.000	-5	50.000	-9	50.000	-10
Toluene-d8	50.000	0	50.000	0	50.000	1	50.000	-1	50.000	0	50.000	1	50.000	-1	50.000	-1	50.000	0
Bromofluorobenzene	50.000	2	50.000	2	50.000	-1	50.000	1	50.000	3	50.000	4	50.000	-3	50.000	-4	50.000	-5

MJB 03/22/13 [Chloromethane]: Combined split peak in (hck11).

MJB 03/22/13 [Bromomethane]: Corrected baseline noise or negative peak in (hck11).

MJB 03/22/13 [Ethanol]: Corrected baseline noise or negative peak in (hck11).

MJB 03/22/13 [Acetone]: Corrected baseline noise or negative peak in multiple levels.

MJB 03/22/13 [Isopropanol]: Corrected baseline noise or negative peak in (hck11).

MJB 03/22/13 [2-Butanone]: Corrected baseline noise or negative peak in multiple levels.

MJB 03/22/13 [Bromomethane]: Combined split peak in (hck12).

Analyst: MJB Date: 03/22/13 Reviewer: LW Date: 03/22/13

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 246655 MSVOA Water
EPA 8260B

Inst : MSVOA08 Name : 826GOX8
Calnum : 473114230005 Cal Date : 20-MAR-2013 Type : WATER

ICV 473114230019 (hck19 20-MAR-2013) stds: S21932 (10000X), S21822 (5000X)
ICV 473114230020 (hck20 20-MAR-2013) stds: S21957 (10000X), S21915 (10000X), S21822 (5000X), S21791 (10000X)

Analyte	ICV Seqnum	Spiked	Quant	Units	%D	Max	Flags
Freon 12	473114230019	20.00	20.94	ug/L	5	30	
Chloromethane	473114230019	20.00	16.09	ug/L	-20	30	
Vinyl Chloride	473114230019	20.00	18.99	ug/L	-5	20	
Bromomethane	473114230019	20.00	15.85	ug/L	**-21**	30	!v-
Chloroethane	473114230019	20.00	18.63	ug/L	-7	30	
Trichlorofluoromethane	473114230019	20.00	19.27	ug/L	-4	30	
Acetone	473114230020	25.00	31.58	ug/L	**26**	40	!v+
Freon 113	473114230020	25.00	25.53	ug/L	2	30	
1,1-Dichloroethene	473114230020	25.00	25.32	ug/L	1	20	
Methylene Chloride	473114230020	25.00	25.90	ug/L	4	30	
Carbon Disulfide	473114230020	25.00	27.55	ug/L	10	30	
MTBE	473114230020	25.00	26.89	ug/L	8	30	
trans-1,2-Dichloroethene	473114230020	25.00	27.09	ug/L	8	30	
Vinyl Acetate	473114230020	25.00	26.16	ug/L	5	40	
1,1-Dichloroethane	473114230020	25.00	25.25	ug/L	1	30	
2-Butanone	473114230020	25.00	29.66	ug/L	19	40	
2,2-Dichloropropane	473114230020	25.00	24.28	ug/L	-3	30	
cis-1,2-Dichloroethene	473114230020	25.00	26.01	ug/L	4	30	
Chloroform	473114230020	25.00	25.54	ug/L	2	20	
Bromochloromethane	473114230020	25.00	26.54	ug/L	6	30	
1,1,1-Trichloroethane	473114230020	25.00	26.12	ug/L	4	30	
1,1-Dichloropropene	473114230020	25.00	28.04	ug/L	12	30	
Carbon Tetrachloride	473114230020	25.00	27.95	ug/L	12	30	
1,2-Dichloroethane	473114230020	25.00	26.21	ug/L	5	30	
Benzene	473114230020	25.00	26.46	ug/L	6	30	
Trichloroethene	473114230020	25.00	26.78	ug/L	7	30	
1,2-Dichloropropane	473114230020	25.00	25.48	ug/L	2	20	
Bromodichloromethane	473114230020	25.00	26.87	ug/L	7	30	
Dibromomethane	473114230020	25.00	27.43	ug/L	10	30	
4-Methyl-2-Pentanone	473114230020	25.00	28.73	ug/L	15	40	
cis-1,3-Dichloropropene	473114230020	25.00	30.27	ug/L	**21**	30	!v+
Toluene	473114230020	25.00	26.65	ug/L	7	20	
trans-1,3-Dichloropropene	473114230020	25.00	26.97	ug/L	8	30	
1,1,2-Trichloroethane	473114230020	25.00	27.91	ug/L	12	30	
2-Hexanone	473114230020	25.00	30.20	ug/L	**21**	40	!v+
1,3-Dichloropropane	473114230020	25.00	27.41	ug/L	10	30	
Tetrachloroethene	473114230020	25.00	26.89	ug/L	8	30	
Dibromochloromethane	473114230020	25.00	27.46	ug/L	10	30	
1,2-Dibromoethane	473114230020	25.00	27.94	ug/L	12	30	
Chlorobenzene	473114230020	25.00	25.05	ug/L	0	30	
1,1,1,2-Tetrachloroethane	473114230020	25.00	27.29	ug/L	9	30	
Ethylbenzene	473114230020	25.00	26.56	ug/L	6	20	
m,p-Xylenes	473114230020	50.00	53.02	ug/L	6	30	
o-Xylene	473114230020	25.00	25.22	ug/L	1	30	
Styrene	473114230020	25.00	27.81	ug/L	11	30	
Bromoform	473114230020	25.00	31.12	ug/L	**24**	30	!v+
Isopropylbenzene	473114230020	25.00	24.64	ug/L	-1	30	

Analyte	ICV Seqnum	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	473114230020	25.00	27.84	ug/L	11	30	
1,2,3-Trichloropropane	473114230020	25.00	28.43	ug/L	14	30	
Propylbenzene	473114230020	25.00	22.95	ug/L	-8	30	
Bromobenzene	473114230020	25.00	27.26	ug/L	9	30	
1,3,5-Trimethylbenzene	473114230020	25.00	27.44	ug/L	10	30	
2-Chlorotoluene	473114230020	25.00	24.82	ug/L	-1	30	
4-Chlorotoluene	473114230020	25.00	24.13	ug/L	-3	30	
tert-Butylbenzene	473114230020	25.00	25.16	ug/L	1	30	
1,2,4-Trimethylbenzene	473114230020	25.00	26.96	ug/L	8	30	
sec-Butylbenzene	473114230020	25.00	24.46	ug/L	-2	30	
para-Isopropyl Toluene	473114230020	25.00	24.62	ug/L	-2	30	
1,3-Dichlorobenzene	473114230020	25.00	24.26	ug/L	-3	30	
1,4-Dichlorobenzene	473114230020	25.00	26.09	ug/L	4	30	
n-Butylbenzene	473114230020	25.00	25.55	ug/L	2	30	
1,2-Dichlorobenzene	473114230020	25.00	25.00	ug/L	0	30	
1,2-Dibromo-3-Chloropropane	473114230020	25.00	28.82	ug/L	15	30	
1,2,4-Trichlorobenzene	473114230020	25.00	27.27	ug/L	9	30	
Hexachlorobutadiene	473114230020	25.00	27.53	ug/L	10	30	
Naphthalene	473114230020	25.00	30.04	ug/L	20	30	
1,2,3-Trichlorobenzene	473114230020	25.00	29.17	ug/L	17	30	

473114230019: Analyst: MJB Date: 03/22/13 Reviewer: LW Date: 03/22/13
473114230020: Analyst: MJB Date: 03/22/13 Reviewer: LW Date: 03/22/13

!=warning +=high bias -=low bias v=ICV

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 246655 MSVOA Water: EPA 8260B

Inst : MSVOA09 Name : 826GOX9W
Calnum : 483147320002 Date : 12-APR-2013 16:14 Type : WATER
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	idc14	483147320014		12-APR-2013 16:14	S21889 (2000000X), S21761 (1000000X), S21635 (2000000X), S21908 (2000000X), S22165 (5000X)
L2	idc15	483147320015		12-APR-2013 16:49	S21889 (1000000X), S21761 (500000X), S21635 (1000000X), S21908 (1000000X), S22165 (5000X)
L3	idc16	483147320016		12-APR-2013 17:23	S21889 (250000X), S21761 (250000X), S21635 (500000X), S21908 (250000X), S22165 (5000X)
L4	idc17	483147320017		12-APR-2013 17:58	S21889 (100000X), S21761 (100000X), S21635 (200000X), S21908 (100000X), S22165 (5000X)
L5	idc18	483147320018		12-APR-2013 18:32	S21889 (50000X), S21761 (50000X), S21635 (100000X), S21908 (50000X), S22165 (5000X)
L6	idc19	483147320019		12-APR-2013 19:06	S21889 (25000X), S21761 (25000X), S21635 (50000X), S21908 (25000X), S22165 (5000X)
L7	idc20	483147320020		12-APR-2013 19:41	S21889 (10000X), S21761 (10000X), S21635 (20000X), S21908 (10000X), S22165 (5000X)
L8	idc21	483147320021		12-APR-2013 20:15	S21889 (6667X), S21761 (6667X), S21635 (13330X), S21908 (6667X), S22165 (5000X)
L9	idc22	483147320022		12-APR-2013 20:50	S21889 (5000X), S21761 (5000X), S21635 (10000X), S21908 (5000X), S22165 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.3692	0.3732	0.3606	0.3706	0.3868	0.3679	0.3632	0.3332	AVRG		2.73525		0.3656	4	15	0.05	0.99	
Chloromethane	0.6814	0.6494	0.6139	0.5558	0.5799	0.6241	0.5400	0.5369	0.5279	AVRG		1.69513		0.5899	9	15	0.10	0.99	
Vinyl Chloride	0.3855	0.4200	0.3887	0.3695	0.3820	0.4169	0.3727	0.3276	0.3327	AVRG		2.65044		0.3773	8	15	0.05	0.99	
Bromomethane		0.1642m	0.1655	0.1593	0.1706	0.2125	0.2143	0.1889	0.2101	AVRG		5.38545		0.1857	13	15	0.05	0.99	
Chloroethane		0.2946m	0.2784	0.2570	0.2538	0.2779	0.2452	0.2137	0.2217	AVRG		3.91703		0.2553	11	15	0.05	0.99	
Trichlorofluoromethane		0.4651	0.4719	0.4475	0.4536	0.4826	0.4441	0.4438	0.4259	AVRG		2.20107		0.4543	4	15	0.05	0.99	
Acetone				0.1071	0.0915	0.0924	0.0940	0.1071	0.0945	AVRG		10.2278		0.0978	7	15	0.05	0.99	
Freon 113		0.1862	0.2660	0.2461	0.2318	0.2487	0.2484	0.2599	0.2472	AVRG		4.13554		0.2418	10	15	0.05	0.99	
1,1-Dichloroethene		0.2949	0.2791	0.2696	0.2662	0.2847	0.2651	0.2735	0.2650	AVRG		3.63951		0.2748	4	15	0.05	0.99	
Methylene Chloride		0.3676	0.3880	0.3662	0.3658	0.3832	0.3550	0.3524	0.3485	AVRG		2.73350		0.3658	4	15	0.05	0.99	
Carbon Disulfide		1.2370	1.1221	1.0731	1.0719	1.1645	1.0900	1.0947	1.0484	AVRG		0.89873		1.1127	6	15	0.05	0.99	
MTBE		0.7382	0.7768	0.7291	0.7090	0.7868	0.7247	0.7648	0.7399	AVRG		1.34016		0.7462	4	15	0.05	0.99	
trans-1,2-Dichloroethene		0.3484	0.3170	0.3139	0.3128	0.3296	0.3141	0.3250	0.3082	AVRG		3.11415		0.3211	4	15	0.05	0.99	
Vinyl Acetate			0.7604	0.7079	0.6267	0.7619	0.5474	0.6832		AVRG		1.46788		0.6813	12	15	0.05	0.99	
1,1-Dichloroethane		0.7302	0.6930	0.6590	0.6930	0.7100	0.6572	0.6603	0.6285	AVRG		1.47296		0.6789	5	15	0.10	0.99	
2-Butanone			0.1416	0.1494	0.1398	0.1454	0.1410	0.1488	0.1396	AVRG		6.95990		0.1437	3	15	0.05	0.99	
2,2-Dichloropropane		0.4445	0.4409	0.4140	0.3989	0.4229	0.4003	0.3974	0.3821	AVRG		2.42352		0.4126	5	15	0.05	0.99	
cis-1,2-Dichloroethene		0.3834	0.3921	0.3581	0.3614	0.3787	0.3595	0.3621	0.3545	AVRG		2.71194		0.3687	4	15	0.05	0.99	
Chloroform		0.6132	0.6115	0.5692	0.6017	0.6153	0.5736	0.5814	0.5517	AVRG		1.69581		0.5897	4	15	0.05	0.99	
Bromochloromethane		0.1568	0.1681	0.1655	0.1683	0.1786	0.1632	0.1554	0.1479	AVRG		6.13561		0.1630	6	15	0.05	0.99	
1,1,1-Trichloroethane		0.4418	0.4519	0.4104	0.4142	0.4274	0.4084	0.4136	0.4007	AVRG		2.37493		0.4211	4	15	0.05	0.99	
1,1-Dichloropropene		0.2812	0.2815	0.2655	0.2712	0.2804	0.2716	0.2777	0.2639	AVRG		3.64805		0.2741	3	15	0.05	0.99	
Carbon Tetrachloride		0.2464	0.2455	0.2319	0.2346	0.2470	0.2412	0.2501	0.2449	AVRG		4.12026		0.2427	3	15	0.05	0.99	
1,2-Dichloroethane		0.2796	0.2983	0.2627	0.2789	0.2870	0.2671	0.2774	0.2629	AVRG		3.61359		0.2767	4	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		0.9100	0.8825	0.8033	0.8276	0.8507	0.7875	0.7923	0.7472	AVRG		1.21192		0.8251	7	15	0.05	0.99	
Trichloroethene		0.2300	0.2297	0.2097	0.2309	0.2310	0.2258	0.2279	0.2152	AVRG		4.44407		0.2250	4	15	0.05	0.99	
1,2-Dichloropropane		0.2917	0.2909	0.2705	0.2831	0.2920	0.2676	0.2703	0.2583	AVRG		3.59643		0.2781	5	15	0.05	0.99	
Bromodichloromethane		0.3031	0.2955	0.2794	0.2950	0.3098	0.2911	0.2973	0.2913	AVRG		3.38608		0.2953	3	15	0.05	0.99	
Dibromomethane		0.1374	0.1465	0.1384	0.1424	0.1509	0.1394	0.1494	0.1422	AVRG		6.97736		0.1433	4	15	0.05	0.99	
4-Methyl-2-Pentanone			0.2232	0.2192	0.2149m	0.2350m	0.2234	0.2376	0.2249	AVRG		4.43549		0.2255	4	15	0.05	0.99	
cis-1,3-Dichloropropene		0.3400	0.3513	0.3238	0.3447	0.3593	0.3325	0.3378	0.3195	AVRG		2.95316		0.3386	4	15	0.05	0.99	
Toluene		0.6792	0.6726	0.6366	0.6561	0.6677	0.6352	0.6227	0.6113	AVRG		1.54400		0.6477	4	15	0.05	0.99	
trans-1,3-Dichloropropene		0.3464	0.4017	0.3801	0.4071	0.4232	0.4010	0.4025	0.3975	AVRG		2.53191		0.3950	6	15	0.05	0.99	
1,1,2-Trichloroethane		0.1229	0.1381	0.1341	0.1389	0.1422	0.1348	0.1400	0.1378	AVRG		7.34592		0.1361	4	15	0.05	0.99	
2-Hexanone			0.1924	0.1975	0.2028	0.2200	0.2092	0.2265	0.2115	AVRG		4.79482		0.2086	6	15	0.05	0.99	
1,3-Dichloropropane		0.3884	0.4097	0.3988	0.4222	0.4251	0.3914	0.4109	0.3893	AVRG		2.47233		0.4045	4	15	0.05	0.99	
Tetrachloroethene		0.2574	0.2560	0.2447	0.2511	0.2625	0.2628	0.2708	0.2614	AVRG		3.87089		0.2583	3	15	0.05	0.99	
Dibromochloromethane		0.2610	0.2700	0.2703	0.2853	0.3091	0.2899	0.3118	0.3106	AVRG		3.46628		0.2885	7	15	0.05	0.99	
1,2-Dibromoethane		0.2079	0.2364	0.2394	0.2484	0.2530	0.2465	0.2620	0.2573	AVRG		4.10054		0.2439	7	15	0.05	0.99	
Chlorobenzene		0.7289	0.7712	0.7297	0.7391	0.7635	0.7239	0.7273	0.7034	AVRG		1.35891		0.7359	3	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.2231	0.2637	0.2454	0.2570	0.2688	0.2617	0.2657	0.2597	AVRG		3.91189		0.2556	6	15	0.05	0.99	
Ethylbenzene		1.2175	1.2503	1.1906	1.2136	1.2116	1.1765	1.1562	1.0743	AVRG		0.84294		1.1863	5	15	0.05	0.99	
m,p-Xylenes	0.4397	0.4266	0.4622	0.4365	0.4306	0.4536	0.4176	0.3979	0.3629	AVRG		2.35134		0.4253	7	15	0.05	0.99	
o-Xylene		0.4122	0.4605	0.4425	0.4496	0.4622	0.4451	0.4305	0.4076	AVRG		2.27906		0.4388	5	15	0.05	0.99	
Styrene		0.7444	0.7868	0.7843	0.7853	0.8160	0.7601	0.7597	0.7121	AVRG		1.30111		0.7686	4	15	0.05	0.99	
Bromoform		0.1254	0.1609	0.1577	0.1699	0.1795	0.1824	0.1944	0.1990	AVRG		5.84287		0.1711	14	15	0.10	0.99	
Isopropylbenzene		2.0626	2.3314	2.2267	2.2073	2.3066	2.2321	2.1759	2.1825	AVRG		0.45134		2.2156	4	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		0.5668	0.6096	0.5952	0.5871	0.6072	0.5649	0.6160	0.6253	AVRG		1.67647		0.5965	4	15	0.30	0.99	
1,2,3-Trichloropropane		0.1298	0.1378	0.1363	0.1286	0.1347	0.1353	0.1410	0.1433	AVRG		7.36167		0.1358	4	15	0.05	0.99	
Propylbenzene		2.5101	2.8849	2.6427	2.7005	2.7710	2.5869	2.3749		AVRG		0.37897		2.6387	6	15	0.05	0.99	
Bromobenzene		0.5958	0.6236	0.6174	0.6286	0.6452	0.6307	0.6037	0.6178	AVRG		1.61200		0.6203	3	15	0.05	0.99	
1,3,5-Trimethylbenzene		1.6398	1.8158	1.7589	1.7652	1.7714	1.7299	1.6302	1.5309	AVRG		0.58641		1.7053	6	15	0.05	0.99	
2-Chlorotoluene		1.7281	1.9560	1.8482	1.8189	1.8071	1.7558	1.6264	1.5357	AVRG		0.56834		1.7595	7	15	0.05	0.99	
4-Chlorotoluene		1.7203	1.7799	1.6623	1.7176	1.7249	1.6827	1.6775	1.6015	AVRG		0.58968		1.6958	3	15	0.05	0.99	
tert-Butylbenzene		1.4048	1.5248	1.4780	1.4473	1.5315	1.4890	1.4975	1.4968	AVRG		0.67399		1.4837	3	15	0.05	0.99	
1,2,4-Trimethylbenzene		1.6261	1.7673	1.7129	1.7829	1.8226	1.7851	1.7928	1.7125	AVRG		0.57134		1.7503	4	15	0.05	0.99	
sec-Butylbenzene		2.1100	2.4328	2.2905	2.1916	2.2983	2.2303	2.2937		AVRG		0.44172		2.2639	4	15	0.05	0.99	
para-Isopropyl Toluene		1.5140	1.7367	1.7129	1.6452	1.7775	1.7429	1.7507	1.7158	AVRG		0.58842		1.6995	5	15	0.05	0.99	
1,3-Dichlorobenzene		0.9508	1.0994	1.0608	1.0408	1.1101	1.0904	1.0959	1.0953	AVRG		0.93638		1.0679	5	15	0.05	0.99	
1,4-Dichlorobenzene		1.0187	1.0892	1.0456	1.0709	1.0859	1.0743	1.0917	1.0938	AVRG		0.93347		1.0713	2	15	0.05	0.99	
n-Butylbenzene		1.4041	1.6256	1.5558	1.5201	1.6421	1.6404	1.6350		AVRG		0.63503		1.5747	6	15	0.05	0.99	
1,2-Dichlorobenzene		0.8927	1.0783	1.0048	1.0073	1.0683	1.0544	1.0697	1.0611	AVRG		0.97127		1.0296	6	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane			0.0861	0.0848	0.0808	0.0848	0.0884	0.0964	0.0972	AVRG		11.3174		0.0884	7	15	0.05	0.99	
1,2,4-Trichlorobenzene		0.3961	0.5282	0.5378	0.5272	0.5870	0.5983	0.6450	0.6647	AVRG		1.78401		0.5605	15	15	0.05	0.99	
Hexachlorobutadiene		0.2137	0.2911	0.2712	0.2685	0.2893	0.2964	0.3116		AVRG		3.60489		0.2774	11	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene			0.8498	0.8552	0.9112	0.9966	1.0653	1.1598	1.1741	AVRG		0.99830		1.0017	14	15	0.05	0.99	
1,2,3-Trichlorobenzene		0.4020	0.5106	0.4748	0.4879	0.5412	0.5576	0.6098	0.6163	AVRG		1.90463		0.5250	14	15	0.05	0.99	
Dibromofluoromethane	0.5487	0.5528	0.5408	0.5409	0.5356	0.5407	0.5283	0.5246	0.5090	AVRG		1.86669		0.5357	2	15	0.05	0.99	
1,2-Dichloroethane-d4	0.3101	0.3096	0.3146	0.3177	0.3128	0.3105	0.2957	0.2978	0.2777	AVRG		3.27684		0.3052	4	15	0.05	0.99	
Toluene-d8	1.2928	1.3445	1.3757	1.3977	1.4204	1.4087	1.4242	1.4355	1.3842	AVRG		0.72094		1.3871	3	15	0.05	0.99	
Bromofluorobenzene	1.0104	1.0400	1.0558	1.0411	1.0470	1.0375	1.0504	0.9933	1.0202	AVRG		0.96818		1.0329	2	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Freon 12			1.0000	1	2.0000	2	5.0000	-1	10.000	1	20.000	6	50.000	1	75.000	-1	100.00	-9
Chloromethane	0.5000	16	1.0000	10	2.0000	4	5.0000	-6	10.000	-2	20.000	6	50.000	-8	75.000	-9	100.00	-11
Vinyl Chloride	0.5000	2	1.0000	11	2.0000	3	5.0000	-2	10.000	1	20.000	10	50.000	-1	75.000	-13	100.00	-12
Bromomethane			1.0000	-12	2.0000	-11	5.0000	-14	10.000	-8	20.000	14	50.000	15	75.000	2	100.00	13
Chloroethane			1.0000	15	2.0000	9	5.0000	1	10.000	-1	20.000	9	50.000	-4	75.000	-16	100.00	-13
Trichlorofluoromethane			1.0000	2	2.0000	4	5.0000	-2	10.000	0	20.000	6	50.000	-2	75.000	-2	100.00	-6
Acetone							5.0000	10	10.000	-6	20.000	-6	50.000	-4	75.000	10	100.00	-3
Freon 113			0.5000	**-23**	2.0000	10	5.0000	2	10.000	-4	20.000	3	50.000	3	75.000	8	100.00	2
1,1-Dichloroethene			0.5000	7	2.0000	2	5.0000	-2	10.000	-3	20.000	4	50.000	-4	75.000	0	100.00	-4
Methylene Chloride			0.5000	0	2.0000	6	5.0000	0	10.000	0	20.000	5	50.000	-3	75.000	-4	100.00	-5
Carbon Disulfide			0.5000	11	2.0000	1	5.0000	-4	10.000	-4	20.000	5	50.000	-2	75.000	-2	100.00	-6
MTBE			0.5000	-1	2.0000	4	5.0000	-2	10.000	-5	20.000	5	50.000	-3	75.000	3	100.00	-1
trans-1,2-Dichloroethene			0.5000	8	2.0000	-1	5.0000	-2	10.000	-3	20.000	3	50.000	-2	75.000	1	100.00	-4
Vinyl Acetate					2.0000	12	5.0000	4	10.000	-8	20.000	12	50.000	-20	75.000	0		
1,1-Dichloroethane			0.5000	8	2.0000	2	5.0000	-3	10.000	2	20.000	5	50.000	-3	75.000	-3	100.00	-7
2-Butanone					2.0000	-1	5.0000	4	10.000	-3	20.000	1	50.000	-2	75.000	4	100.00	-3
2,2-Dichloropropane			0.5000	8	2.0000	7	5.0000	0	10.000	-3	20.000	2	50.000	-3	75.000	-4	100.00	-7
cis-1,2-Dichloroethene			0.5000	4	2.0000	6	5.0000	-3	10.000	-2	20.000	3	50.000	-2	75.000	-2	100.00	-4
Chloroform			0.5000	4	2.0000	4	5.0000	-3	10.000	2	20.000	4	50.000	-3	75.000	-1	100.00	-6
Bromochloromethane			0.5000	-4	2.0000	3	5.0000	2	10.000	3	20.000	10	50.000	0	75.000	-5	100.00	-9
1,1,1-Trichloroethane			0.5000	5	2.0000	7	5.0000	-3	10.000	-2	20.000	2	50.000	-3	75.000	-2	100.00	-5
1,1-Dichloropropene			0.5000	3	2.0000	3	5.0000	-3	10.000	-1	20.000	2	50.000	-1	75.000	1	100.00	-4
Carbon Tetrachloride			0.5000	2	2.0000	1	5.0000	-4	10.000	-3	20.000	2	50.000	-1	75.000	3	100.00	1
1,2-Dichloroethane			0.5000	1	2.0000	8	5.0000	-5	10.000	1	20.000	4	50.000	-3	75.000	0	100.00	-5
Benzene			0.5000	10	2.0000	7	5.0000	-3	10.000	0	20.000	3	50.000	-5	75.000	-4	100.00	-9
Trichloroethene			0.5000	2	2.0000	2	5.0000	-7	10.000	3	20.000	3	50.000	0	75.000	1	100.00	-4
1,2-Dichloropropane			0.5000	5	2.0000	5	5.0000	-3	10.000	2	20.000	5	50.000	-4	75.000	-3	100.00	-7
Bromodichloromethane			0.5000	3	2.0000	0	5.0000	-5	10.000	0	20.000	5	50.000	-1	75.000	1	100.00	-1
Dibromomethane			0.5000	-4	2.0000	2	5.0000	-3	10.000	-1	20.000	5	50.000	-3	75.000	4	100.00	-1
4-Methyl-2-Pentanone					2.0000	-1	5.0000	-3	10.000	-5	20.000	4	50.000	-1	75.000	5	100.00	0
cis-1,3-Dichloropropene			0.5000	0	2.0000	4	5.0000	-4	10.000	2	20.000	6	50.000	-2	75.000	0	100.00	-6
Toluene			0.5000	5	2.0000	4	5.0000	-2	10.000	1	20.000	3	50.000	-2	75.000	-4	100.00	-6
trans-1,3-Dichloropropene			0.5000	-12	2.0000	2	5.0000	-4	10.000	3	20.000	7	50.000	2	75.000	2	100.00	1
1,1,2-Trichloroethane			0.5000	-10	2.0000	1	5.0000	-1	10.000	2	20.000	4	50.000	-1	75.000	3	100.00	1
2-Hexanone					2.0000	-8	5.0000	-5	10.000	-3	20.000	5	50.000	0	75.000	9	100.00	1
1,3-Dichloropropane			0.5000	-4	2.0000	1	5.0000	-1	10.000	4	20.000	5	50.000	-3	75.000	2	100.00	-4
Tetrachloroethene			0.5000	0	2.0000	-1	5.0000	-5	10.000	-3	20.000	2	50.000	2	75.000	5	100.00	1
Dibromochloromethane			0.5000	-10	2.0000	-6	5.0000	-6	10.000	-1	20.000	7	50.000	0	75.000	8	100.00	8
1,2-Dibromoethane			0.5000	-15	2.0000	-3	5.0000	-2	10.000	2	20.000	4	50.000	1	75.000	7	100.00	6
Chlorobenzene			0.5000	-1	2.0000	5	5.0000	-1	10.000	0	20.000	4	50.000	-2	75.000	-1	100.00	-4
1,1,1,2-Tetrachloroethane			0.5000	-13	2.0000	3	5.0000	-4	10.000	1	20.000	5	50.000	2	75.000	4	100.00	2
Ethylbenzene			0.5000	3	2.0000	5	5.0000	0	10.000	2	20.000	2	50.000	-1	75.000	-3	100.00	-9

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
m,p-Xylenes	0.5000	3	1.0000	0	4.0000	9	10.000	3	20.000	1	40.000	7	100.00	-2	150.00	-6	200.00	-15
o-Xylene			0.5000	-6	2.0000	5	5.0000	1	10.000	2	20.000	5	50.000	1	75.000	-2	100.00	-7
Styrene			0.5000	-3	2.0000	2	5.0000	2	10.000	2	20.000	6	50.000	-1	75.000	-1	100.00	-7
Bromoform			0.5000	**-27**	2.0000	-6	5.0000	-8	10.000	-1	20.000	5	50.000	7	75.000	14	100.00	16
Isopropylbenzene			0.5000	-7	2.0000	5	5.0000	0	10.000	0	20.000	4	50.000	1	75.000	-2	100.00	-1
1,1,2,2-Tetrachloroethane			0.5000	-5	2.0000	2	5.0000	0	10.000	-2	20.000	2	50.000	-5	75.000	3	100.00	5
1,2,3-Trichloropropane			0.5000	-4	2.0000	1	5.0000	0	10.000	-5	20.000	-1	50.000	0	75.000	4	100.00	5
Propylbenzene			0.5000	-5	2.0000	9	5.0000	0	10.000	2	20.000	5	50.000	-2	75.000	-10		
Bromobenzene			0.5000	-4	2.0000	1	5.0000	0	10.000	1	20.000	4	50.000	2	75.000	-3	100.00	0
1,3,5-Trimethylbenzene			0.5000	-4	2.0000	6	5.0000	3	10.000	4	20.000	4	50.000	1	75.000	-4	100.00	-10
2-Chlorotoluene			0.5000	-2	2.0000	11	5.0000	5	10.000	3	20.000	3	50.000	0	75.000	-8	100.00	-13
4-Chlorotoluene			0.5000	1	2.0000	5	5.0000	-2	10.000	1	20.000	2	50.000	-1	75.000	-1	100.00	-6
tert-Butylbenzene			0.5000	-5	2.0000	3	5.0000	0	10.000	-2	20.000	3	50.000	0	75.000	1	100.00	1
1,2,4-Trimethylbenzene			0.5000	-7	2.0000	1	5.0000	-2	10.000	2	20.000	4	50.000	2	75.000	2	100.00	-2
sec-Butylbenzene			0.5000	-7	2.0000	7	5.0000	1	10.000	-3	20.000	2	50.000	-1	75.000	1		
para-Isopropyl Toluene			0.5000	-11	2.0000	2	5.0000	1	10.000	-3	20.000	5	50.000	3	75.000	3	100.00	1
1,3-Dichlorobenzene			0.5000	-11	2.0000	3	5.0000	-1	10.000	-3	20.000	4	50.000	2	75.000	3	100.00	3
1,4-Dichlorobenzene			0.5000	-5	2.0000	2	5.0000	-2	10.000	0	20.000	1	50.000	0	75.000	2	100.00	2
n-Butylbenzene			0.5000	-11	2.0000	3	5.0000	-1	10.000	-3	20.000	4	50.000	4	75.000	4		
1,2-Dichlorobenzene			0.5000	-13	2.0000	5	5.0000	-2	10.000	-2	20.000	4	50.000	2	75.000	4	100.00	3
1,2-Dibromo-3-Chloropropane					2.0000	-3	5.0000	-4	10.000	-9	20.000	-4	50.000	0	75.000	9	100.00	10
1,2,4-Trichlorobenzene			0.5000	**-29**	2.0000	-6	5.0000	-4	10.000	-6	20.000	5	50.000	7	75.000	15	100.00	19
Hexachlorobutadiene			0.5000	**-23**	2.0000	5	5.0000	-2	10.000	-3	20.000	4	50.000	7	75.000	12		
Naphthalene					2.0000	-15	5.0000	-15	10.000	-9	20.000	-1	50.000	6	75.000	16	100.00	17
1,2,3-Trichlorobenzene			0.5000	**-23**	2.0000	-3	5.0000	-10	10.000	-7	20.000	3	50.000	6	75.000	16	100.00	17
Dibromofluoromethane	50.000	2	50.000	3	50.000	1	50.000	1	50.000	0	50.000	1	50.000	-1	50.000	-2	50.000	-5
1,2-Dichloroethane-d4	50.000	2	50.000	1	50.000	3	50.000	4	50.000	2	50.000	2	50.000	-3	50.000	-2	50.000	-9
Toluene-d8	50.000	-7	50.000	-3	50.000	-1	50.000	1	50.000	2	50.000	2	50.000	3	50.000	3	50.000	0
Bromofluorobenzene	50.000	-2	50.000	1	50.000	2	50.000	1	50.000	1	50.000	0	50.000	2	50.000	-4	50.000	-1

MJB 04/17/13 [Bromomethane]: Combined split peak in (idc15).

MJB 04/17/13 [Chloroethane]: Combined split peak in (idc15).

MJB 04/17/13 [Ethanol]: Combined split peak in (idc15).

MJB 04/17/13 [4-Methyl-2-Pentanone]: Picked or reassigned peak in (idc15).

MJB 04/17/13 [Naphthalene]: Combined split peak in (idc15).

MJB 04/17/13 : All integrations for file 15 done by TW

MJB 04/17/13 [4-Methyl-2-Pentanone]: Picked or reassigned peak in (idc18).

MJB 04/17/13 [4-Methyl-2-Pentanone]: Picked or reassigned peak in (idc19).

MJB 04/17/13 [Acetone]: Fails min RF; no 8260C samples.

MJB 04/17/13 [Iodomethane]: ICV at -63; do not run samples for this analyte.

TW 04/17/13 [Acetone]: Fails 8260C min RF; Acetone cannot be reported for 8260C jobs from this calibration. Meets Avg RF criteria for 8260B.

Analyst: MJB Date: 04/17/13 Reviewer: TW Date: 04/17/13

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 246655 MSVOA Water
EPA 8260B

Inst : MSVOA09 Name : 826GOX9W
Calnum : 483147320002 Cal Date : 12-APR-2013 Type : WATER

ICV 483147320023 (idc23 12-APR-2013) stds: S21932 (10000X), S22165 (5000X)
ICV 483147320024 (idc24 12-APR-2013) stds: S21957 (10000X), S22045 (10000X), S22146 (10000X), S22165 (5000X)

Analyte	ICV Seqnum	Spiked	Quant	Units	%D	Max	Flags
Freon 12	483147320023	20.00	23.85	ug/L	19	30	
Chloromethane	483147320023	20.00	19.18	ug/L	-4	30	
Vinyl Chloride	483147320023	20.00	21.44	ug/L	7	20	
Bromomethane	483147320023	20.00	14.73	ug/L	**-26**	30	!v- m
Chloroethane	483147320023	20.00	18.42	ug/L	-8	30	
Trichlorofluoromethane	483147320023	20.00	19.86	ug/L	-1	30	
Acetone	483147320024	25.00	30.20	ug/L	**21**	40	!v+
Freon 113	483147320024	25.00	27.29	ug/L	9	30	
1,1-Dichloroethene	483147320024	25.00	25.97	ug/L	4	20	
Methylene Chloride	483147320024	25.00	26.16	ug/L	5	30	
Carbon Disulfide	483147320024	25.00	27.06	ug/L	8	30	
MTBE	483147320024	25.00	25.57	ug/L	2	30	
trans-1,2-Dichloroethene	483147320024	25.00	27.41	ug/L	10	30	
Vinyl Acetate	483147320024	25.00	29.00	ug/L	16	40	
1,1-Dichloroethane	483147320024	25.00	25.36	ug/L	1	30	
2-Butanone	483147320024	25.00	27.65	ug/L	11	40	
2,2-Dichloropropane	483147320024	25.00	24.58	ug/L	-2	30	
cis-1,2-Dichloroethene	483147320024	25.00	26.70	ug/L	7	30	
Chloroform	483147320024	25.00	26.04	ug/L	4	20	
Bromochloromethane	483147320024	25.00	27.53	ug/L	10	30	
1,1,1-Trichloroethane	483147320024	25.00	25.61	ug/L	2	30	
1,1-Dichloropropene	483147320024	25.00	27.74	ug/L	11	30	
Carbon Tetrachloride	483147320024	25.00	27.14	ug/L	9	30	
1,2-Dichloroethane	483147320024	25.00	25.77	ug/L	3	30	
Benzene	483147320024	25.00	26.78	ug/L	7	30	
Trichloroethene	483147320024	25.00	26.74	ug/L	7	30	
1,2-Dichloropropane	483147320024	25.00	25.30	ug/L	1	20	
Bromodichloromethane	483147320024	25.00	26.42	ug/L	6	30	
Dibromomethane	483147320024	25.00	26.29	ug/L	5	30	
4-Methyl-2-Pentanone	483147320024	25.00	26.53	ug/L	6	40	
cis-1,3-Dichloropropene	483147320024	25.00	29.58	ug/L	18	30	
Toluene	483147320024	25.00	27.48	ug/L	10	20	
trans-1,3-Dichloropropene	483147320024	25.00	25.99	ug/L	4	30	
1,1,2-Trichloroethane	483147320024	25.00	27.32	ug/L	9	30	
2-Hexanone	483147320024	25.00	27.69	ug/L	11	40	
1,3-Dichloropropane	483147320024	25.00	27.10	ug/L	8	30	
Tetrachloroethene	483147320024	25.00	26.94	ug/L	8	30	
Dibromochloromethane	483147320024	25.00	27.10	ug/L	8	30	
1,2-Dibromoethane	483147320024	25.00	27.78	ug/L	11	30	
Chlorobenzene	483147320024	25.00	24.83	ug/L	-1	30	
1,1,1,2-Tetrachloroethane	483147320024	25.00	27.89	ug/L	12	30	
Ethylbenzene	483147320024	25.00	27.41	ug/L	10	20	
m,p-Xylenes	483147320024	50.00	53.53	ug/L	7	30	
o-Xylene	483147320024	25.00	25.05	ug/L	0	30	
Styrene	483147320024	25.00	27.37	ug/L	9	30	
Bromoform	483147320024	25.00	29.82	ug/L	19	30	
Isopropylbenzene	483147320024	25.00	25.72	ug/L	3	30	

Analyte	ICV Seqnum	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	483147320024	25.00	28.35	ug/L	13	30	
1,2,3-Trichloropropane	483147320024	25.00	26.60	ug/L	6	30	
Propylbenzene	483147320024	25.00	24.42	ug/L	-2	30	
Bromobenzene	483147320024	25.00	27.62	ug/L	10	30	
1,3,5-Trimethylbenzene	483147320024	25.00	29.51	ug/L	18	30	
2-Chlorotoluene	483147320024	25.00	26.96	ug/L	8	30	
4-Chlorotoluene	483147320024	25.00	24.99	ug/L	0	30	
tert-Butylbenzene	483147320024	25.00	26.38	ug/L	6	30	
1,2,4-Trimethylbenzene	483147320024	25.00	28.68	ug/L	15	30	
sec-Butylbenzene	483147320024	25.00	26.23	ug/L	5	30	
para-Isopropyl Toluene	483147320024	25.00	25.95	ug/L	4	30	
1,3-Dichlorobenzene	483147320024	25.00	25.42	ug/L	2	30	
1,4-Dichlorobenzene	483147320024	25.00	27.83	ug/L	11	30	
n-Butylbenzene	483147320024	25.00	27.55	ug/L	10	30	
1,2-Dichlorobenzene	483147320024	25.00	26.05	ug/L	4	30	
1,2-Dibromo-3-Chloropropane	483147320024	25.00	26.06	ug/L	4	30	
1,2,4-Trichlorobenzene	483147320024	25.00	28.81	ug/L	15	30	
Hexachlorobutadiene	483147320024	25.00	29.20	ug/L	17	30	
Naphthalene	483147320024	25.00	29.34	ug/L	17	30	
1,2,3-Trichlorobenzene	483147320024	25.00	29.79	ug/L	19	30	

483147320023: Analyst: MJB Date: 04/17/13 Reviewer: TW Date: 04/17/13
483147320024: Analyst: MJB Date: 04/17/13 Reviewer: TW Date: 04/17/13

!=warning +=high bias -=low bias m=manual integration v=ICV

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 246655 MSVOA Water: EPA 8260B

Inst : MSVOA13
Calnum : 943212676001 Date : 27-MAY-2013 21:08
Units : ug/L

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	mer12	943212676012		27-MAY-2013 21:08	S21635 (2000000X), S22288 (2000000X), S22105 (2000000X), S21634 (1000000X), S22401 (2500X)
L2	mer13	943212676013		27-MAY-2013 21:36	S21635 (1000000X), S22288 (1000000X), S22105 (1000000X), S21634 (500000X), S22401 (2500X)
L3	mer14	943212676014		27-MAY-2013 22:03	S21635 (500000X), S22288 (250000X), S22105 (250000X), S21634 (250000X), S22401 (2500X)
L4	mer15	943212676015		27-MAY-2013 22:31	S21635 (200000X), S22288 (100000X), S22105 (100000X), S21634 (100000X), S22401 (2500X)
L5	mer16	943212676016		27-MAY-2013 22:58	S21635 (100000X), S22288 (50000X), S22105 (50000X), S21634 (50000X), S22401 (2500X)
L6	mer17	943212676017		27-MAY-2013 23:26	S21635 (50000X), S22288 (25000X), S22105 (25000X), S21634 (25000X), S22401 (2500X)
L7	mer18	943212676018		27-MAY-2013 23:54	S21635 (20000X), S22288 (10000X), S22105 (10000X), S21634 (10000X), S22401 (2500X)
L8	mer19	943212676019		28-MAY-2013 00:21	S21635 (13333X), S22288 (6667X), S22105 (6667X), S21634 (6667X), S22401 (2500X)
L9	mer20	943212676020		28-MAY-2013 00:49	S21635 (10000X), S22288 (5000X), S22105 (5000X), S21634 (5000X), S22401 (2500X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	X	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.5824	0.5371	0.5496	0.5320	0.5452	0.5631	0.5898	0.5536	AVRG	R		1.79657		0.5566	4	15	0.05	0.99	
Chloromethane	0.6474	0.6037	0.6105	0.5905	0.6214	0.5897	0.6163	0.5978	0.5722	AVRG	R		1.65152		0.6055	4	15	0.10	0.99	
Vinyl Chloride	0.5043	0.5048	0.4682	0.4908	0.5107	0.4770	0.5182	0.5506	0.5228	AVRG	R		1.97913		0.5053	5	15	0.05	0.99	
Bromomethane		0.2161	0.2345	0.2126	0.2118	0.1968	0.1926	0.2215	0.2362	AVRG	R		4.64540		0.2153	7	15	0.05	0.99	
Chloroethane		0.2948	0.2835	0.3005	0.2933	0.2726	0.2924	0.2980	0.2928	AVRG	R		3.43650		0.2910	3	15	0.05	0.99	
Trichlorofluoromethane		0.8591	0.8152	0.8430	0.8249	0.8395	0.8773	0.9151	0.8607	AVRG	R		1.17049		0.8543	4	15	0.05	0.99	
Acetone				0.2177	0.2314	0.2295	0.2732	0.2653	0.2540	AVRG	R		4.07846		0.2452	9	15	0.05	0.99	
Freon 113		0.5153	0.4196	0.4742	0.3631	0.4761	0.4932	0.4882	0.4982	AVRG	R		2.14596		0.4660	11	15	0.05	0.99	
1,1-Dichloroethene		0.5075	0.4627	0.4479	0.3845	0.4310	0.4579	0.4563	0.4529	AVRG	R		2.22176		0.4501	8	15	0.05	0.99	
Methylene Chloride		0.5431	0.5292	0.5326	0.5290	0.5214	0.5419	0.5373	0.5200	AVRG	R		1.88039		0.5318	2	15	0.05	0.99	
Carbon Disulfide		1.3923	1.2832	1.3522	1.2677	1.4541	1.5660	1.5838	1.5694	AVRG	R		0.69755		1.4336	9	15	0.05	0.99	
MTBE		1.6736	1.5551	1.5436	1.5792	1.6032	1.7128	1.7055	1.6522	AVRG	R		0.61419		1.6282	4	15	0.05	0.99	
trans-1,2-Dichloroethene		0.5661	0.5294	0.5185	0.4758	0.5108	0.5267	0.5289	0.5128	AVRG	R		1.91894		0.5211	5	15	0.05	0.99	
Vinyl Acetate				0.6029	0.8520	0.8356	0.9372	0.9154	0.9641	AVRG	R		1.17480		0.8512	15	15	0.05	0.99	
1,1-Dichloroethane		1.0186	0.9960	1.0020	0.9538	0.9955	1.0282	1.0266	0.9984	AVRG	R		0.99760		1.0024	2	15	0.10	0.99	
2-Butanone				0.2503	0.2943	0.3135	0.3632	0.3514	0.3364	AVRG	R		3.14288		0.3182	13	15	0.05	0.99	
2,2-Dichloropropane		0.7304	0.6844	0.7018	0.6277	0.7210	0.7491	0.7562	0.7514	AVRG	R		1.39811		0.7153	6	15	0.05	0.99	
cis-1,2-Dichloroethene		0.6662	0.5885	0.5848	0.5573	0.5793	0.5942	0.5969	0.5750	AVRG	R		1.68699		0.5928	5	15	0.05	0.99	
Chloroform		0.9303	0.9121	0.9121	0.8710	0.9089	0.9456	0.9449	0.9185	AVRG	R		1.08942		0.9179	3	15	0.05	0.99	
Bromochloromethane		0.2860	0.2485	0.2635	0.2640	0.2610	0.2601	0.2539	0.2411	AVRG	R		3.84949		0.2598	5	15	0.05	0.99	
1,1,1-Trichloroethane		0.8394	0.7564	0.7842	0.6829	0.7747	0.8166	0.8151	0.8181	AVRG	R		1.27236		0.7859	6	15	0.05	0.99	
1,1-Dichloropropene		0.4834	0.4442	0.4534	0.3961	0.4639	0.4855	0.4818	0.4753	AVRG	R		2.17185		0.4604	7	15	0.05	0.99	
Carbon Tetrachloride		0.4036	0.3862	0.4185	0.3524	0.4213	0.4582	0.4591	0.4648	AVRG	R		2.37803		0.4205	9	15	0.05	0.99	
1,2-Dichloroethane		0.4936	0.4908	0.4921	0.4676	0.4803	0.4985	0.5048	0.4915	AVRG	R		2.04130		0.4899	2	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	X	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		1.4510	1.4757	1.4901	1.3691	1.4565	1.4506	1.4156	1.3433	AVRG	R		0.69857		1.4315	4	15	0.05	0.99	
Trichloroethene		0.3556	0.3676	0.3735	0.3383	0.3734	0.3866	0.3880	0.3739	AVRG	R		2.70556		0.3696	4	15	0.05	0.99	
1,2-Dichloropropane		0.3788	0.4035	0.3784	0.3820	0.3905	0.3970	0.4036	0.3892	AVRG	R		2.56164		0.3904	3	15	0.05	0.99	
Bromodichloromethane		0.4109	0.3984	0.4227	0.4181	0.4509	0.4815	0.4949	0.4803	AVRG	R		2.24869		0.4447	8	15	0.05	0.99	
Dibromomethane		0.2170	0.2098	0.2172	0.2163	0.2211	0.2311	0.2328	0.2250	AVRG	R		4.51916		0.2213	4	15	0.05	0.99	
4-Methyl-2-Pentanone				0.4106	0.4155	0.4211	0.4860	0.4656	0.4467	AVRG	R		2.26808		0.4409	7	15	0.05	0.99	
cis-1,3-Dichloropropene		0.4900	0.4990	0.5312	0.5264	0.5715	0.6084	0.6172	0.5989	AVRG	R		1.80074		0.5553	9	15	0.05	0.99	
Toluene		1.8643	1.7229	1.7676	1.5706	1.7489	1.7857	1.7551	1.7133	AVRG	R		0.57437		1.7410	5	15	0.05	0.99	
trans-1,3-Dichloropropene		0.4784	0.5041	0.5514	0.5427	0.6042	0.6571	0.6693	0.6586	AVRG	R		1.71462		0.5832	13	15	0.05	0.99	
1,1,2-Trichloroethane		0.2062	0.1990	0.1985	0.1910	0.2007	0.2101	0.2105	0.2041	AVRG	R		4.93830		0.2025	3	15	0.05	0.99	
2-Hexanone				0.3039	0.3080	0.3401	0.3984	0.3885	0.3720	AVRG	R		2.84233		0.3518	12	15	0.05	0.99	
1,3-Dichloropropane		0.6796	0.6594	0.6522	0.6482	0.6775	0.7031	0.6983	0.6789	AVRG	R		1.48228		0.6746	3	15	0.05	0.99	
Tetrachloroethene		0.3853	0.3741	0.3983	0.3279	0.4008	0.4189	0.4110	0.4141	AVRG	R		2.55555		0.3913	8	15	0.05	0.99	
Dibromochloromethane	0.2817	0.2703	0.3077	0.3268	0.3336	0.3693	0.4066			QUAD	A	-0.0670	0.34039	0.001355	0.3280	1.000	15	0.05	0.99	
1,2-Dibromoethane		0.3310	0.3545	0.3533	0.3539	0.3729	0.3985	0.4008	0.3885	AVRG	R		2.70876		0.3692	7	15	0.05	0.99	
Chlorobenzene		1.1555	1.0911	1.1048	0.9967	1.0923	1.1053	1.0831	1.0480	AVRG	R		0.92200		1.0846	4	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.3445	0.3401	0.3563	0.3346	0.3701	0.3919	0.3999	0.3933	AVRG	R		2.72980		0.3663	7	15	0.05	0.99	
Ethylbenzene		2.2290m	1.8271	1.9220	1.6524	1.9181	1.9272	1.8631	1.8242	AVRG	R		0.52759		1.8954	9	15	0.05	0.99	
m,p-Xylenes	0.6634	0.7338	0.6916	0.7345	0.6300	0.7346	0.7454	0.7243	0.7100	AVRG	R		1.41341		0.7075	5	15	0.05	0.99	
o-Xylene		0.6795	0.6689	0.7019	0.6261	0.7111	0.7330	0.7213	0.7063	AVRG	R		1.44194		0.6935	5	15	0.05	0.99	
Styrene		1.0902	1.1173	1.1763	1.1019	1.2246	1.2592	1.2531	1.2098	AVRG	R		0.84815		1.1790	6	15	0.05	0.99	
Bromoform	0.1540	0.1637	0.1810	0.1976	0.2067	0.2388	0.2702			QUAD	A	-0.0645	0.21400	0.001154	0.2017	1.000	15	0.10	0.99	
Isopropylbenzene		3.5544	3.3307	3.6587	2.9324	3.7020	3.7535	3.6174	3.6296	AVRG	R		0.28390		3.5223	8	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		0.9206	0.8949	0.9479	0.9175	0.9853	1.0490	1.0039	0.9927	AVRG	R		1.03738		0.9640	5	15	0.30	0.99	
1,2,3-Trichloropropane		1.0402	1.0346	1.0546	0.9806	1.0462	1.1110	1.0653	1.0281	AVRG	R		0.95688		1.0451	4	15	0.05	0.99	
Propylbenzene		4.5756	4.1156	4.4729	3.5061	4.4366	4.5255	4.3856	4.3385	AVRG	R		0.23285		4.2945	8	15	0.05	0.99	
Bromobenzene		0.9718	0.9472	0.9803	0.8781	0.9787	0.9918	0.9740	0.9495	AVRG	R		1.04282		0.9589	4	15	0.05	0.99	
1,3,5-Trimethylbenzene		2.8658	2.7319	2.9390	2.3888	2.9802	3.0934	3.0324	3.0150	AVRG	R		0.34712		2.8808	8	15	0.05	0.99	
2-Chlorotoluene		3.0132m	2.8803m	3.0075	2.5396	2.9724	3.0655	3.0278	3.0125	AVRG	R		0.34015		2.9398	6	15	0.05	0.99	
4-Chlorotoluene		2.9869	2.6842	2.8221	2.4515	2.8508	2.9174	2.8986	2.8486	AVRG	R		0.35619		2.8075	6	15	0.05	0.99	
tert-Butylbenzene		2.5415	2.3101	2.5198	1.9244	2.5304	2.6369	2.5615	2.6113	AVRG	R		0.40742		2.4545	10	15	0.05	0.99	
1,2,4-Trimethylbenzene		2.8643	2.8136	3.0449	2.5488	3.0753	3.1595	3.1113	3.0777	AVRG	R		0.33762		2.9619	7	15	0.05	0.99	
sec-Butylbenzene		3.5845	3.3307	3.6868	2.6988	3.7127	3.8360	3.7037	3.7434	AVRG	R		0.28272		3.5371	10	15	0.05	0.99	
para-Isopropyl Toluene		2.9719	2.6999	3.0396	2.2650	3.0665	3.2149	3.1371	3.1468	AVRG	R		0.33982		2.9427	11	15	0.05	0.99	
1,3-Dichlorobenzene		1.7037	1.6462	1.6894	1.4611	1.6760	1.7292	1.7239	1.6877	AVRG	R		0.60072		1.6647	5	15	0.05	0.99	
1,4-Dichlorobenzene		1.9191	1.7754	1.7558	1.5478	1.7369	1.7712	1.7721	1.7288	AVRG	R		0.57114		1.7509	6	15	0.05	0.99	
n-Butylbenzene		2.8341	2.6031	2.9190	2.0506	2.8788	3.0270	2.9324	2.9411	AVRG	R		0.36059		2.7733	11	15	0.05	0.99	
1,2-Dichlorobenzene		1.6392	1.5881	1.6502	1.4591	1.6302	1.6708	1.6762	1.6236	AVRG	R		0.61836		1.6172	4	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane			0.1842	0.1834	0.1721	0.1876	0.2231	0.2179	0.2152	AVRG	R		5.05930		0.1977	10	15	0.05	0.99	
1,2,4-Trichlorobenzene		0.9225	0.9369	0.9768	0.8330	1.0157	1.0745	1.0722	1.0416	AVRG	R		1.01610		0.9842	9	15	0.05	0.99	
Hexachlorobutadiene		0.4914	0.4181	0.5133	0.3146	0.4971	0.5227	0.4989	0.5251	AVRG	R		2.11565		0.4727	15	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	X	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene		2.5684	2.5334	2.6625	2.5042	2.8524	3.1151	3.0660	2.9171	AVRG	R		0.36005		2.7774	9	15	0.05	0.99	
1,2,3-Trichlorobenzene		0.9252	0.8795	0.9213	0.7908	0.9382	0.9994	0.9921	0.9619	AVRG	R		1.07985		0.9261	7	15	0.05	0.99	
Dibromofluoromethane	0.4309	0.4308	0.4333	0.4312	0.4356	0.4384	0.4384	0.4350	0.4334	AVRG	R		2.30355		0.4341	1	15	0.05	0.99	
1,2-Dichloroethane-d4	0.3726	0.3749	0.3707	0.3775	0.3739	0.3706	0.3736	0.3730	0.3716	AVRG	R		2.67978		0.3732	1	15	0.05	0.99	
Toluene-d8	1.3555	1.3627	1.3624	1.3757	1.3611	1.3743	1.3706	1.3753	1.3810	AVRG	R		0.73061		1.3687	1	15	0.05	0.99	
Bromofluorobenzene	1.0874	1.0681	1.0487	1.0856	1.0454	1.0712	1.0691	1.0728	1.0828	AVRG	R		0.93447		1.0701	1	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Freon 12			1.0000	5	2.0000	-4	5.0000	-1	10.000	-4	20.000	-2	50.000	1	74.996	6	100.00	-1
Chloromethane	0.5000	7	1.0000	0	2.0000	1	5.0000	-2	10.000	3	20.000	-3	50.000	2	74.996	-1	100.00	-6
Vinyl Chloride	0.5000	0	1.0000	0	2.0000	-7	5.0000	-3	10.000	1	20.000	-6	50.000	3	74.996	9	100.00	3
Bromomethane			1.0000	0	2.0000	9	5.0000	-1	10.000	-2	20.000	-9	50.000	-11	74.996	3	100.00	10
Chloroethane			1.0000	1	2.0000	-3	5.0000	3	10.000	1	20.000	-6	50.000	0	74.996	2	100.00	1
Trichlorofluoromethane			1.0000	1	2.0000	-5	5.0000	-1	10.000	-3	20.000	-2	50.000	3	74.996	7	100.00	1
Acetone							5.0000	-11	10.000	-6	20.000	-6	50.000	11	74.996	8	100.00	4
Freon 113			0.5000	11	2.0000	-10	5.0000	2	10.000	**-22**	20.000	2	50.000	6	74.996	5	100.00	7
1,1-Dichloroethene			0.5000	13	2.0000	3	5.0000	0	10.000	-15	20.000	-4	50.000	2	74.996	1	100.00	1
Methylene Chloride			0.5000	2	2.0000	0	5.0000	0	10.000	-1	20.000	-2	50.000	2	74.996	1	100.00	-2
Carbon Disulfide			0.5000	-3	2.0000	-10	5.0000	-6	10.000	-12	20.000	1	50.000	9	74.996	10	100.00	9
MTBE			0.5000	3	2.0000	-4	5.0000	-5	10.000	-3	20.000	-2	50.000	5	74.996	5	100.00	1
trans-1,2-Dichloroethene			0.5000	9	2.0000	2	5.0000	-1	10.000	-9	20.000	-2	50.000	1	74.996	1	100.00	-2
Vinyl Acetate							5.0000	**-29**	10.000	0	20.000	-2	50.000	10	74.996	8	100.00	13
1,1-Dichloroethane			0.5000	2	2.0000	-1	5.0000	0	10.000	-5	20.000	-1	50.000	3	74.996	2	100.00	0
2-Butanone							5.0000	**-21**	10.000	-7	20.000	-1	50.000	14	74.996	10	100.00	6
2,2-Dichloropropane			0.5000	2	2.0000	-4	5.0000	-2	10.000	-12	20.000	1	50.000	5	74.996	6	100.00	5
cis-1,2-Dichloroethene			0.5000	12	2.0000	-1	5.0000	-1	10.000	-6	20.000	-2	50.000	0	74.996	1	100.00	-3
Chloroform			0.5000	1	2.0000	-1	5.0000	-1	10.000	-5	20.000	-1	50.000	3	74.996	3	100.00	0
Bromochloromethane			0.5000	10	2.0000	-4	5.0000	1	10.000	2	20.000	0	50.000	0	74.996	-2	100.00	-7
1,1,1-Trichloroethane			0.5000	7	2.0000	-4	5.0000	0	10.000	-13	20.000	-1	50.000	4	74.996	4	100.00	4
1,1-Dichloropropene			0.5000	5	2.0000	-4	5.0000	-2	10.000	-14	20.000	1	50.000	5	74.996	5	100.00	3
Carbon Tetrachloride			0.5000	-4	2.0000	-8	5.0000	0	10.000	-16	20.000	0	50.000	9	74.996	9	100.00	11
1,2-Dichloroethane			0.5000	1	2.0000	0	5.0000	0	10.000	-5	20.000	-2	50.000	2	74.996	3	100.00	0
Benzene			0.5000	1	2.0000	3	5.0000	4	10.000	-4	20.000	2	50.000	1	74.996	-1	100.00	-6
Trichloroethene			0.5000	-4	2.0000	-1	5.0000	1	10.000	-8	20.000	1	50.000	5	74.996	5	100.00	1
1,2-Dichloropropane			0.5000	-3	2.0000	3	5.0000	-3	10.000	-2	20.000	0	50.000	2	74.996	3	100.00	0
Bromodichloromethane			0.5000	-8	2.0000	-10	5.0000	-5	10.000	-6	20.000	1	50.000	8	74.996	11	100.00	8
Dibromomethane			0.5000	-2	2.0000	-5	5.0000	-2	10.000	-2	20.000	0	50.000	4	74.996	5	100.00	2
4-Methyl-2-Pentanone							5.0000	-7	10.000	-6	20.000	-4	50.000	10	74.996	6	100.00	1
cis-1,3-Dichloropropene			0.5000	-12	2.0000	-10	5.0000	-4	10.000	-5	20.000	3	50.000	10	74.996	11	100.00	8
Toluene			0.5000	7	2.0000	-1	5.0000	2	10.000	-10	20.000	0	50.000	3	74.996	1	100.00	-2
trans-1,3-Dichloropropene			0.5000	-18	2.0000	-14	5.0000	-5	10.000	-7	20.000	4	50.000	13	74.996	15	100.00	13
1,1,2-Trichloroethane			0.5000	2	2.0000	-2	5.0000	-2	10.000	-6	20.000	-1	50.000	4	74.996	4	100.00	1
2-Hexanone							5.0000	-14	10.000	-12	20.000	-3	50.000	13	74.996	10	100.00	6
1,3-Dichloropropane			0.5000	1	2.0000	-2	5.0000	-3	10.000	-4	20.000	0	50.000	4	74.996	4	100.00	1
Tetrachloroethene			0.5000	-2	2.0000	-4	5.0000	2	10.000	-16	20.000	2	50.000	7	74.996	5	100.00	6
Dibromochloromethane	0.2500	**61**	0.5000	18	2.0000	-1	5.0000	-2	10.000	-4	20.000	1	50.000	0				
1,2-Dibromoethane			0.5000	-10	2.0000	-4	5.0000	-4	10.000	-4	20.000	1	50.000	8	74.996	9	100.00	5
Chlorobenzene			0.5000	7	2.0000	1	5.0000	2	10.000	-8	20.000	1	50.000	2	74.996	0	100.00	-3
1,1,1,2-Tetrachloroethane			0.5000	-6	2.0000	-7	5.0000	-3	10.000	-9	20.000	1	50.000	7	74.996	9	100.00	7
Ethylbenzene			0.5000	7	2.0000	-4	5.0000	1	10.000	-13	20.000	1	50.000	2	74.996	-2	100.00	-4

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
m,p-Xylenes	0.5000	-6	1.0000	4	4.0000	-2	10.000	4	20.000	-11	40.000	4	100.00	5	149.99	2	200.00	0
o-Xylene			0.5000	-2	2.0000	-4	5.0000	1	10.000	-10	20.000	3	50.000	6	74.996	4	100.00	2
Styrene			0.5000	-8	2.0000	-5	5.0000	0	10.000	-7	20.000	4	50.000	7	74.996	6	100.00	3
Bromoform	0.2500	**92**	0.5000	**36**	2.0000	-1	5.0000	-4	10.000	-5	20.000	2	50.000	0				
Isopropylbenzene			0.5000	1	2.0000	-5	5.0000	4	10.000	-17	20.000	5	50.000	7	74.996	3	100.00	3
1,1,2,2-Tetrachloroethane			0.5000	-4	2.0000	-7	5.0000	-2	10.000	-5	20.000	2	50.000	9	74.996	4	100.00	3
1,2,3-Trichloropropane			0.5000	0	2.0000	-1	5.0000	1	10.000	-6	20.000	0	50.000	6	74.996	2	100.00	-2
Propylbenzene			0.5000	7	2.0000	-4	5.0000	4	10.000	-18	20.000	3	50.000	5	74.996	2	100.00	1
Bromobenzene			0.5000	1	2.0000	-1	5.0000	2	10.000	-8	20.000	2	50.000	3	74.996	2	100.00	-1
1,3,5-Trimethylbenzene			0.5000	-1	2.0000	-5	5.0000	2	10.000	-17	20.000	3	50.000	7	74.996	5	100.00	5
2-Chlorotoluene			0.5000	-7	2.0000	-12	5.0000	2	10.000	-14	20.000	1	50.000	4	74.996	3	100.00	2
4-Chlorotoluene			0.5000	6	2.0000	-4	5.0000	1	10.000	-13	20.000	2	50.000	4	74.996	3	100.00	1
tert-Butylbenzene			0.5000	4	2.0000	-6	5.0000	3	10.000	**-22**	20.000	3	50.000	7	74.996	4	100.00	6
1,2,4-Trimethylbenzene			0.5000	-3	2.0000	-5	5.0000	3	10.000	-14	20.000	4	50.000	7	74.996	5	100.00	4
sec-Butylbenzene			0.5000	1	2.0000	-6	5.0000	4	10.000	**-24**	20.000	5	50.000	8	74.996	5	100.00	6
para-Isopropyl Toluene			0.5000	1	2.0000	-8	5.0000	3	10.000	**-23**	20.000	4	50.000	9	74.996	7	100.00	7
1,3-Dichlorobenzene			0.5000	2	2.0000	-1	5.0000	1	10.000	-12	20.000	1	50.000	4	74.996	4	100.00	1
1,4-Dichlorobenzene			0.5000	10	2.0000	1	5.0000	0	10.000	-12	20.000	-1	50.000	1	74.996	1	100.00	-1
n-Butylbenzene			0.5000	2	2.0000	-6	5.0000	5	10.000	**-26**	20.000	4	50.000	9	74.996	6	100.00	6
1,2-Dichlorobenzene			0.5000	1	2.0000	-2	5.0000	2	10.000	-10	20.000	1	50.000	3	74.996	4	100.00	0
1,2-Dibromo-3-Chloropropane					2.0000	-7	5.0000	-7	10.000	-13	20.000	-5	50.000	13	74.996	10	100.00	9
1,2,4-Trichlorobenzene			0.5000	-6	2.0000	-5	5.0000	-1	10.000	-15	20.000	3	50.000	9	74.996	9	100.00	6
Hexachlorobutadiene			0.5000	4	2.0000	-12	5.0000	9	10.000	**-33**	20.000	5	50.000	11	74.996	6	100.00	11
Naphthalene			0.5000	-8	2.0000	-9	5.0000	-4	10.000	-10	20.000	3	50.000	12	74.996	10	100.00	5
1,2,3-Trichlorobenzene			0.5000	0	2.0000	-5	5.0000	-1	10.000	-15	20.000	1	50.000	8	74.996	7	100.00	4
Dibromofluoromethane	50.000	-1	50.000	-1	50.000	0	50.000	-1	50.000	0	50.000	1	50.000	1	50.000	0	50.000	0
1,2-Dichloroethane-d4	50.000	0	50.000	0	50.000	-1	50.000	1	50.000	0	50.000	-1	50.000	0	50.000	0	50.000	0
Toluene-d8	50.000	-1	50.000	0	50.000	0	50.000	1	50.000	-1	50.000	0	50.000	0	50.000	0	50.000	1
Bromofluorobenzene	50.000	2	50.000	0	50.000	-2	50.000	1	50.000	-2	50.000	0	50.000	0	50.000	0	50.000	1

KKM 05/28/13 [Ethylbenzene]: Separated from coeluting peak in (mer13).

KKM 05/28/13 [2-Chlorotoluene]: Separated from coeluting peak in (mer13).

KKM 05/28/13 [Isopropanol]: Corrected fronting or tailing peak integration in (mer14).

KKM 05/28/13 [2-Chlorotoluene]: Separated from coeluting peak in (mer14).

KKM 05/28/13 [Dibromochloromethane]: Does not meet 8260C low point requant; high bias >30 at low end, but less than RL. Does not need to RR for hits above RL @0.5ppb

KKM 05/28/13 [Bromoform]: Does not meet 8260C low point requant; High bias >30 at low end. Will RR hits

<2ppb

Analyst: KKM Date: 05/28/13 Reviewer: LW Date: 05/29/13

m=manual integration

X=A: Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating); X=R: Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; QUAD=Quadratic regression

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 246655 MSVOA Water
EPA 8260B

Inst : MSVOA13
Calnum : 943212676001 Cal Date : 27-MAY-2013

ICV 943212676021 (mer21 28-MAY-2013) stds: S22095 (10000X), S22401 (2500X)
ICV 943212676022 (mer22 28-MAY-2013) stds: S22408 (10000X), S22258 (10000X), S22174 (10000X), S22401 (2500X)

Analyte	ICV Seqnum	Spiked	Quant	Units	%D	Max	Flags
Freon 12	943212676021	20.00	20.17	ug/L	1	30	
Chloromethane	943212676021	20.00	18.26	ug/L	-9	30	
Vinyl Chloride	943212676021	20.00	22.72	ug/L	14	20	
Bromomethane	943212676021	20.00	15.40	ug/L	**-23**	30	!v-
Chloroethane	943212676021	20.00	22.54	ug/L	13	30	
Trichlorofluoromethane	943212676021	20.00	21.06	ug/L	5	30	
Acetone	943212676022	25.00	27.03	ug/L	8	40	
Freon 113	943212676022	25.00	26.38	ug/L	6	30	
1,1-Dichloroethene	943212676022	25.00	26.42	ug/L	6	20	
Methylene Chloride	943212676022	25.00	26.95	ug/L	8	30	
Carbon Disulfide	943212676022	25.00	29.20	ug/L	17	30	
MTBE	943212676022	25.00	25.76	ug/L	3	30	
trans-1,2-Dichloroethene	943212676022	25.00	27.61	ug/L	10	30	
Vinyl Acetate	943212676022	25.00	26.78	ug/L	7	40	
1,1-Dichloroethane	943212676022	25.00	26.76	ug/L	7	30	
2-Butanone	943212676022	25.00	26.97	ug/L	8	40	
2,2-Dichloropropane	943212676022	25.00	26.43	ug/L	6	30	
cis-1,2-Dichloroethene	943212676022	25.00	26.48	ug/L	6	30	
Chloroform	943212676022	25.00	26.80	ug/L	7	20	
Bromochloromethane	943212676022	25.00	26.44	ug/L	6	30	
1,1,1-Trichloroethane	943212676022	25.00	27.68	ug/L	11	30	
1,1-Dichloropropene	943212676022	25.00	28.72	ug/L	15	30	
Carbon Tetrachloride	943212676022	25.00	28.38	ug/L	14	30	
1,2-Dichloroethane	943212676022	25.00	26.65	ug/L	7	30	
Benzene	943212676022	25.00	27.07	ug/L	8	30	
Trichloroethene	943212676022	25.00	27.94	ug/L	12	30	
1,2-Dichloropropane	943212676022	25.00	26.72	ug/L	7	20	
Bromodichloromethane	943212676022	25.00	26.61	ug/L	6	30	
Dibromomethane	943212676022	25.00	25.84	ug/L	3	30	
4-Methyl-2-Pentanone	943212676022	25.00	25.39	ug/L	2	40	
cis-1,3-Dichloropropene	943212676022	25.00	28.95	ug/L	16	30	
Toluene	943212676022	25.00	27.22	ug/L	9	20	
trans-1,3-Dichloropropene	943212676022	25.00	26.86	ug/L	7	30	
1,1,2-Trichloroethane	943212676022	25.00	26.85	ug/L	7	30	
2-Hexanone	943212676022	25.00	26.61	ug/L	6	40	
1,3-Dichloropropane	943212676022	25.00	26.73	ug/L	7	30	
Tetrachloroethene	943212676022	25.00	28.52	ug/L	14	30	
Dibromochloromethane	943212676022	25.00	26.68	ug/L	7	30	
1,2-Dibromoethane	943212676022	25.00	27.11	ug/L	8	30	
Chlorobenzene	943212676022	25.00	25.70	ug/L	3	30	
1,1,1,2-Tetrachloroethane	943212676022	25.00	27.36	ug/L	9	30	
Ethylbenzene	943212676022	25.00	27.30	ug/L	9	20	
m,p-Xylenes	943212676022	50.00	54.06	ug/L	8	30	
o-Xylene	943212676022	25.00	25.82	ug/L	3	30	
Styrene	943212676022	25.00	27.44	ug/L	10	30	
Bromoform	943212676022	25.00	28.83	ug/L	15	30	
Isopropylbenzene	943212676022	25.00	26.24	ug/L	5	30	

Analyte	ICV Seqnum	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	943212676022	25.00	27.40	ug/L	10	30	
1,2,3-Trichloropropane	943212676022	25.00	26.54	ug/L	6	30	
Propylbenzene	943212676022	25.00	25.41	ug/L	2	30	
Bromobenzene	943212676022	25.00	26.91	ug/L	8	30	
1,3,5-Trimethylbenzene	943212676022	25.00	29.06	ug/L	16	30	
2-Chlorotoluene	943212676022	25.00	22.99	ug/L	-8	30	m
4-Chlorotoluene	943212676022	25.00	24.92	ug/L	0	30	
tert-Butylbenzene	943212676022	25.00	26.13	ug/L	5	30	
1,2,4-Trimethylbenzene	943212676022	25.00	28.42	ug/L	14	30	
sec-Butylbenzene	943212676022	25.00	26.54	ug/L	6	30	
para-Isopropyl Toluene	943212676022	25.00	26.36	ug/L	5	30	
1,3-Dichlorobenzene	943212676022	25.00	25.53	ug/L	2	30	
1,4-Dichlorobenzene	943212676022	25.00	26.88	ug/L	8	30	
n-Butylbenzene	943212676022	25.00	28.48	ug/L	14	30	
1,2-Dichlorobenzene	943212676022	25.00	25.66	ug/L	3	30	
1,2-Dibromo-3-Chloropropane	943212676022	25.00	26.41	ug/L	6	30	
1,2,4-Trichlorobenzene	943212676022	25.00	27.75	ug/L	11	30	
Hexachlorobutadiene	943212676022	25.00	28.91	ug/L	16	30	
Naphthalene	943212676022	25.00	28.06	ug/L	12	30	
1,2,3-Trichlorobenzene	943212676022	25.00	27.39	ug/L	10	30	

943212676021: Analyst: KKM Date: 05/28/13 Reviewer: LW Date: 05/29/13
943212676022: Analyst: KKM Date: 05/28/13 Reviewer: LW Date: 05/29/13

!=warning -=low bias m=manual integration v=ICV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 246655 MSVOA Water
EPA 8260B

Inst : MSVOA07 IDF : 1.0
Seqnum : 463275501003 File : gga03 Time : 10-JUL-2013 09:32
Cal : 463265607001 Caldate : 03-JUL-2013 Caltype : WATER
Standards: S21953 (33330X), S22575 (33330X), S22755 (33330X), S21483 (33330X), S22539 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.6561	0.6257	15.00	14.30	ug/L	-5	30	0.0500	
Chloromethane	0.7904	0.8210	15.00	15.58	ug/L	4	30	0.1000	
Vinyl Chloride	0.6649	0.6950	15.00	15.68	ug/L	5	20	0.0500	
Bromomethane	0.5308	0.5578	15.00	15.76	ug/L	5	30	0.0500	
Chloroethane	0.4001	0.4216	15.00	15.81	ug/L	5	30	0.0500	
Trichlorofluoromethane	0.9565	1.0262	15.00	16.09	ug/L	7	30	0.0500	
Acetone	0.1752	0.1280	15.00	10.96	ug/L	**-27**	40	0.0500	!c-
Freon 113	0.4694	0.5520	15.00	17.64	ug/L	18	30	0.0500	
1,1-Dichloroethene	0.4649	0.5159	15.00	16.65	ug/L	11	20	0.0500	
Methylene Chloride	0.5514	0.4975	15.00	13.53	ug/L	-10	30	0.0500	
Carbon Disulfide	1.5145	1.4663	15.00	14.52	ug/L	-3	30	0.0500	
MTBE	1.4260	1.2366	15.00	13.01	ug/L	-13	30	0.0500	
trans-1,2-Dichloroethene	0.5212	0.4624	15.00	13.31	ug/L	-11	30	0.0500	
Vinyl Acetate	0.6624	0.8647	15.00	19.58	ug/L	**31**	40	0.0500	!c+
1,1-Dichloroethane	0.9436	0.8785	15.00	13.97	ug/L	-7	30	0.1000	
2-Butanone	0.2266	0.1965	15.00	13.01	ug/L	-13	40	0.0500	
2,2-Dichloropropane	0.6491	0.6608	15.00	15.27	ug/L	2	30	0.0500	
cis-1,2-Dichloroethene	0.5803	0.5058	15.00	13.08	ug/L	-13	30	0.0500	
Chloroform	0.8637	0.8001	15.00	13.90	ug/L	-7	20	0.0500	
Bromochloromethane	0.2694	0.2434	15.00	13.55	ug/L	-10	30	0.0500	
1,1,1-Trichloroethane	0.7155	0.6504	15.00	13.64	ug/L	-9	30	0.0500	
1,1-Dichloropropene	0.3934	0.3315	15.00	12.64	ug/L	-16	30	0.0500	
Carbon Tetrachloride	0.3073	0.2737	15.00	13.36	ug/L	-11	30	0.0500	
1,2-Dichloroethane	0.3958	0.3499	15.00	13.26	ug/L	-12	30	0.0500	
Benzene	1.2933	1.1569	15.00	13.42	ug/L	-11	30	0.0500	
Trichloroethene	0.3071	0.2556	15.00	12.48	ug/L	-17	30	0.0500	
1,2-Dichloropropane	0.3138	0.2781	15.00	13.29	ug/L	-11	20	0.0500	
Bromodichloromethane	0.3628	0.3249	15.00	13.43	ug/L	-10	30	0.0500	
Dibromomethane	0.1899	0.1669	15.00	13.18	ug/L	-12	30	0.0500	
4-Methyl-2-Pentanone	0.2659	0.2003	15.00	11.30	ug/L	**-25**	40	0.0500	!c-
cis-1,3-Dichloropropene	0.4574	0.4198	15.00	13.77	ug/L	-8	30	0.0500	
Toluene	0.8326	0.7331	15.00	13.21	ug/L	-12	20	0.0500	
trans-1,3-Dichloropropene	0.4596	0.4001	15.00	13.06	ug/L	-13	30	0.0500	
1,1,2-Trichloroethane	0.1595	0.1377	15.00	12.95	ug/L	-14	30	0.0500	
2-Hexanone	0.2034	0.1376	15.00	10.15	ug/L	**-32**	40	0.0500	!c-
1,3-Dichloropropane	0.5418	0.4762	15.00	13.18	ug/L	-12	30	0.0500	
Tetrachloroethene	0.3132	0.2697	15.00	12.92	ug/L	-14	30	0.0500	
Dibromochloromethane	0.2615	0.2318	15.00	13.30	ug/L	-11	30	0.0500	
1,2-Dibromoethane	0.2874	0.2426	15.00	12.66	ug/L	-16	30	0.0500	
Chlorobenzene	0.9017	0.7961	15.00	13.24	ug/L	-12	30	0.3000	
1,1,1,2-Tetrachloroethane	0.2744	0.2398	15.00	13.11	ug/L	-13	30	0.0500	
Ethylbenzene	1.4843	1.3286	15.00	13.43	ug/L	-10	20	0.0500	
m,p-Xylenes	0.5840	0.5295	30.00	27.20	ug/L	-9	30	0.0500	
o-Xylene	0.5547	0.4795	15.00	12.97	ug/L	-14	30	0.0500	
Styrene	0.9286	0.8323	15.00	13.45	ug/L	-10	30	0.0500	
Bromoform	0.1275	0.1185	15.00	13.54	ug/L	-10	30	0.1000	
Isopropylbenzene	2.4554	2.2211	15.00	13.57	ug/L	-10	30	0.0500	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	0.6142	0.5682	15.00	13.88	ug/L	-7	30	0.3000	
1,2,3-Trichloropropane	0.6675	0.5813	15.00	13.06	ug/L	-13	30	0.0500	
Propylbenzene	3.0567	2.7964	15.00	13.72	ug/L	-9	30	0.0500	
Bromobenzene	0.6802	0.5968	15.00	13.16	ug/L	-12	30	0.0500	
1,3,5-Trimethylbenzene	2.1625	1.9722	15.00	13.68	ug/L	-9	30	0.0500	
2-Chlorotoluene	2.1052	1.9145	15.00	13.64	ug/L	-9	30	0.0500	
4-Chlorotoluene	1.9284	1.7563	15.00	13.66	ug/L	-9	30	0.0500	
tert-Butylbenzene	1.7596	1.5696	15.00	13.38	ug/L	-11	30	0.0500	
1,2,4-Trimethylbenzene	2.1949	2.0112	15.00	13.75	ug/L	-8	30	0.0500	
sec-Butylbenzene	2.5907	2.3822	15.00	13.79	ug/L	-8	30	0.0500	
para-Isopropyl Toluene	2.2311	2.0644	15.00	13.88	ug/L	-7	30	0.0500	
1,3-Dichlorobenzene	1.2466	1.1316	15.00	13.62	ug/L	-9	30	0.0500	
1,4-Dichlorobenzene	1.3229	1.1812	15.00	13.39	ug/L	-11	30	0.0500	
n-Butylbenzene	2.0974	1.9591	15.00	14.01	ug/L	-7	30	0.0500	
1,2-Dichlorobenzene	1.2227	1.0916	15.00	13.39	ug/L	-11	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1258	0.0966	15.00	11.52	ug/L	**-23**	30	0.0500	!c-
1,2,4-Trichlorobenzene	0.9088	0.7977	15.00	13.17	ug/L	-12	30	0.0500	
Hexachlorobutadiene	0.2957	0.2902	15.00	14.72	ug/L	-2	30	0.0500	
Naphthalene	2.5180	2.1034	15.00	12.53	ug/L	-16	30	0.0500	
1,2,3-Trichlorobenzene	0.8995	0.7842	15.00	13.08	ug/L	-13	30	0.0500	
Dibromofluoromethane	0.4975	0.5269	50.00	52.95	ug/L	6	30	0.0500	
1,2-Dichloroethane-d4	0.3610	0.3653	50.00	50.60	ug/L	1	30	0.0500	
Toluene-d8	1.3532	1.3549	50.00	50.07	ug/L	0	30	0.0500	
Bromofluorobenzene	0.8960	0.9026	50.00	50.37	ug/L	1	30	0.0500	

ISTD (ICAL gg319)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1036698	960297	-7.37	10.09	10.08	-0.01
1,4-Difluorobenzene	1774032	1704245	-3.93	11.24	11.24	0.00
Chlorobenzene-d5	1648363	1594701	-3.26	15.34	15.33	-0.01
1,4-Dichlorobenzene-d4	924236	862048	-6.73	18.06	18.06	0.00

Analyst: MCT Date: 07/10/13 Reviewer: LW Date: 07/11/13

!=warning +=high bias -=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 246655 MSVOA Water
EPA 8260B

Inst : MSVOA07 IDF : 1.0
Seqnum : 463276901016 File : ggb16 Time : 11-JUL-2013 14:56
Cal : 463265607001 Caldate : 03-JUL-2013 Caltype : WATER
Standards: S21953 (33330X), S22575 (33670X), S22755 (33330X), S21483 (33330X), S22539 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.6561	0.5091	15.00	11.64	ug/L	**-22**	30	0.0500	!c-
Chloromethane	0.7904	0.7260	15.00	13.78	ug/L	-8	30	0.1000	
Vinyl Chloride	0.6649	0.6330	15.00	14.28	ug/L	-5	20	0.0500	
Bromomethane	0.5308	0.4894	15.00	13.83	ug/L	-8	30	0.0500	
Chloroethane	0.4001	0.4022	15.00	15.08	ug/L	1	30	0.0500	
Trichlorofluoromethane	0.9565	1.0013	15.00	15.70	ug/L	5	30	0.0500	
Acetone	0.1752	0.1409	15.00	12.07	ug/L	-20	40	0.0500	
Freon 113	0.4694	0.4626	15.00	14.78	ug/L	-1	30	0.0500	
1,1-Dichloroethene	0.4649	0.4970	15.00	16.04	ug/L	7	20	0.0500	
Methylene Chloride	0.5514	0.4952	15.00	13.47	ug/L	-10	30	0.0500	
Carbon Disulfide	1.5145	1.3367	15.00	13.24	ug/L	-12	30	0.0500	
MTBE	1.4260	1.1870	15.00	12.49	ug/L	-17	30	0.0500	
trans-1,2-Dichloroethene	0.5212	0.4494	15.00	12.93	ug/L	-14	30	0.0500	
Vinyl Acetate	0.6624	0.7946	15.00	17.99	ug/L	20	40	0.0500	
1,1-Dichloroethane	0.9436	0.8393	15.00	13.34	ug/L	-11	30	0.1000	
2-Butanone	0.2266	0.1905	15.00	12.61	ug/L	-16	40	0.0500	
2,2-Dichloropropane	0.6491	0.5992	15.00	13.85	ug/L	-8	30	0.0500	
cis-1,2-Dichloroethene	0.5803	0.5086	15.00	13.15	ug/L	-12	30	0.0500	
Chloroform	0.8637	0.7778	15.00	13.51	ug/L	-10	20	0.0500	
Bromochloromethane	0.2694	0.2475	15.00	13.78	ug/L	-8	30	0.0500	
1,1,1-Trichloroethane	0.7155	0.5894	15.00	12.36	ug/L	-18	30	0.0500	
1,1-Dichloropropene	0.3934	0.3098	15.00	11.81	ug/L	**-21**	30	0.0500	!c-
Carbon Tetrachloride	0.3073	0.2531	15.00	12.35	ug/L	-18	30	0.0500	
1,2-Dichloroethane	0.3958	0.3491	15.00	13.23	ug/L	-12	30	0.0500	
Benzene	1.2933	1.1251	15.00	13.05	ug/L	-13	30	0.0500	
Trichloroethene	0.3071	0.2470	15.00	12.07	ug/L	-20	30	0.0500	
1,2-Dichloropropane	0.3138	0.2792	15.00	13.34	ug/L	-11	20	0.0500	
Bromodichloromethane	0.3628	0.3225	15.00	13.33	ug/L	-11	30	0.0500	
Dibromomethane	0.1899	0.1721	15.00	13.59	ug/L	-9	30	0.0500	
4-Methyl-2-Pentanone	0.2659	0.1984	15.00	11.19	ug/L	**-25**	40	0.0500	!c-
cis-1,3-Dichloropropene	0.4574	0.4203	15.00	13.78	ug/L	-8	30	0.0500	
Toluene	0.8326	0.7082	15.00	12.76	ug/L	-15	20	0.0500	
trans-1,3-Dichloropropene	0.4596	0.4134	15.00	13.49	ug/L	-10	30	0.0500	
1,1,2-Trichloroethane	0.1595	0.1448	15.00	13.61	ug/L	-9	30	0.0500	
2-Hexanone	0.2034	0.1433	15.00	10.57	ug/L	**-30**	40	0.0500	!c-
1,3-Dichloropropane	0.5418	0.4923	15.00	13.63	ug/L	-9	30	0.0500	
Tetrachloroethene	0.3132	0.2495	15.00	11.95	ug/L	-20	30	0.0500	
Dibromochloromethane	0.2615	0.2402	15.00	13.78	ug/L	-8	30	0.0500	
1,2-Dibromoethane	0.2874	0.2547	15.00	13.29	ug/L	-11	30	0.0500	
Chlorobenzene	0.9017	0.7952	15.00	13.23	ug/L	-12	30	0.3000	
1,1,1,2-Tetrachloroethane	0.2744	0.2452	15.00	13.40	ug/L	-11	30	0.0500	
Ethylbenzene	1.4843	1.2275	15.00	12.40	ug/L	-17	20	0.0500	
m,p-Xylenes	0.5840	0.4908	30.00	25.21	ug/L	-16	30	0.0500	
o-Xylene	0.5547	0.4592	15.00	12.42	ug/L	-17	30	0.0500	
Styrene	0.9286	0.8155	15.00	13.17	ug/L	-12	30	0.0500	
Bromoform	0.1275	0.1252	15.00	14.25	ug/L	-5	30	0.1000	
Isopropylbenzene	2.4554	1.9705	15.00	12.04	ug/L	-20	30	0.0500	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	0.6142	0.5841	15.00	14.27	ug/L	-5	30	0.3000	
1,2,3-Trichloropropane	0.6675	0.5881	15.00	13.22	ug/L	-12	30	0.0500	
Propylbenzene	3.0567	2.4841	15.00	12.19	ug/L	-19	30	0.0500	
Bromobenzene	0.6802	0.6052	15.00	13.35	ug/L	-11	30	0.0500	
1,3,5-Trimethylbenzene	2.1625	1.7666	15.00	12.25	ug/L	-18	30	0.0500	
2-Chlorotoluene	2.1052	1.7733	15.00	12.64	ug/L	-16	30	0.0500	
4-Chlorotoluene	1.9284	1.6752	15.00	13.03	ug/L	-13	30	0.0500	
tert-Butylbenzene	1.7596	1.3683	15.00	11.66	ug/L	**-22**	30	0.0500	!c-
1,2,4-Trimethylbenzene	2.1949	1.8507	15.00	12.65	ug/L	-16	30	0.0500	
sec-Butylbenzene	2.5907	2.0518	15.00	11.88	ug/L	**-21**	30	0.0500	!c-
para-Isopropyl Toluene	2.2311	1.8022	15.00	12.12	ug/L	-19	30	0.0500	
1,3-Dichlorobenzene	1.2466	1.1099	15.00	13.36	ug/L	-11	30	0.0500	
1,4-Dichlorobenzene	1.3229	1.1865	15.00	13.45	ug/L	-10	30	0.0500	
n-Butylbenzene	2.0974	1.7173	15.00	12.28	ug/L	-18	30	0.0500	
1,2-Dichlorobenzene	1.2227	1.1089	15.00	13.60	ug/L	-9	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1258	0.1001	15.00	11.93	ug/L	-20	30	0.0500	
1,2,4-Trichlorobenzene	0.9088	0.8200	15.00	13.53	ug/L	-10	30	0.0500	
Hexachlorobutadiene	0.2957	0.2851	15.00	14.46	ug/L	-4	30	0.0500	
Naphthalene	2.5180	2.2600	15.00	13.46	ug/L	-10	30	0.0500	
1,2,3-Trichlorobenzene	0.8995	0.8281	15.00	13.81	ug/L	-8	30	0.0500	
Dibromofluoromethane	0.4975	0.5126	50.00	51.51	ug/L	3	30	0.0500	
1,2-Dichloroethane-d4	0.3610	0.3526	50.00	48.84	ug/L	-2	30	0.0500	
Toluene-d8	1.3532	1.3590	50.00	50.22	ug/L	0	30	0.0500	
Bromofluorobenzene	0.8960	0.8692	50.00	48.51	ug/L	-3	30	0.0500	

ISTD (ICAL gg319)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1036698	1127655	8.77	10.09	10.08	-0.01
1,4-Difluorobenzene	1774032	1934492	9.04	11.24	11.24	0.00
Chlorobenzene-d5	1648363	1763097	6.96	15.34	15.33	-0.01
1,4-Dichlorobenzene-d4	924236	961281	4.01	18.06	18.06	0.00

Analyst: DAR Date: 07/11/13 Reviewer: LW Date: 07/12/13

!=warning -=low bias c=CCV

CURTIS & TOMPKINS SPIKE USER REPORT FOR 246655 MSVOA Water
EPA 8260B

Inst : MSVOA08 Run Name : QC696675 IDF : 1.0
Seqnum : 473272638005.3 File : hg805 Time : 08-JUL-2013 10:42
Cal : 473114230005 Caldate : 20-MAR-2013 Caltype : WATER
Standards: S22666 (10000X), S22596 (10000X), S22609 (10000X), S22435 (10000X), S22572 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.7692	0.5609	20.00	14.58	ug/L	-27	30	0.0500	u
Chloromethane	0.8491	0.7683	20.00	18.09	ug/L	-10	30	0.1000	u
Vinyl Chloride	0.6378	0.6032	20.00	18.92	ug/L	-5	20	0.0500	u
Bromomethane	0.3863	0.3849	20.00	19.93	ug/L	0	30	0.0500	!v- u
Chloroethane	0.3425	0.3021	20.00	17.64	ug/L	-12	30	0.0500	u
Trichlorofluoromethane	0.6374	0.5995	20.00	18.81	ug/L	-6	30	0.0500	u
Acetone	0.1322	0.1356	25.00	25.64	ug/L	3	40	0.0500	!v+ u
Freon 113	0.4648	0.4049	25.00	21.78	ug/L	-13	30	0.0500	u
1,1-Dichloroethene	0.4788	0.4411	25.00	23.03	ug/L	-8	20	0.0500	u
Methylene Chloride	0.6142	0.5475	25.00	22.29	ug/L	-11	30	0.0500	u
Carbon Disulfide	1.9360	1.5732	25.00	20.32	ug/L	-19	30	0.0500	u
MTBE	1.1558	1.1422	25.00	24.70	ug/L	-1	30	0.0500	u
trans-1,2-Dichloroethene	0.5381	0.5081	25.00	23.61	ug/L	-6	30	0.0500	u
Vinyl Acetate	0.7126	0.6217	25.00	21.81	ug/L	-13	40	0.0500	u
1,1-Dichloroethane	1.0335	0.9596	25.00	23.21	ug/L	-7	30	0.1000	u
2-Butanone	0.1698	0.1500	25.00	22.08	ug/L	-12	40	0.0500	u
cis-1,2-Dichloroethene	0.5882	0.5471	25.00	23.25	ug/L	-7	30	0.0500	u
2,2-Dichloropropane	0.6682	0.7909	25.00	29.59	ug/L	18	30	0.0500	u
Chloroform	0.9246	0.9707	25.00	26.25	ug/L	5	20	0.0500	u
Bromochloromethane	0.2760	0.2400	25.00	21.74	ug/L	-13	30	0.0500	u
1,1,1-Trichloroethane	0.6419	0.7356	25.00	28.65	ug/L	15	30	0.0500	u
1,1-Dichloropropene	0.4157	0.4390	25.00	26.40	ug/L	6	30	0.0500	u
Carbon Tetrachloride	0.3428	0.2726	25.00	19.88	ug/L	-20	30	0.0500	u
1,2-Dichloroethane	0.3848	0.4604	25.00	29.91	ug/L	20	30	0.0500	u
Benzene	1.2437	1.1626	25.00	23.37	ug/L	-7	30	0.0500	u
Trichloroethene	0.3279	0.3346	25.00	25.51	ug/L	2	30	0.0500	u
1,2-Dichloropropane	0.3649	0.3090	25.00	21.17	ug/L	-15	20	0.0500	u
Bromodichloromethane	0.4093	0.3947	25.00	24.11	ug/L	-4	30	0.0500	u
Dibromomethane	0.1971	0.2010	25.00	25.50	ug/L	2	30	0.0500	u
4-Methyl-2-Pentanone	0.2269	0.2096	25.00	23.09	ug/L	-8	40	0.0500	u
cis-1,3-Dichloropropene	0.4669	0.5090	25.00	27.25	ug/L	9	30	0.0500	!v+ u
Toluene	0.8612	0.8693	25.00	25.24	ug/L	1	20	0.0500	u
trans-1,3-Dichloropropene	0.4928	0.4948	25.00	25.10	ug/L	0	30	0.0500	u
1,1,2-Trichloroethane	0.1637	0.1582	25.00	24.16	ug/L	-3	30	0.0500	u
2-Hexanone	0.1875	0.1717	25.00	22.90	ug/L	-8	40	0.0500	!v+ u
1,3-Dichloropropane	0.5098	0.4868	25.00	23.87	ug/L	-5	30	0.0500	u
Tetrachloroethene	0.3512	0.3404	25.00	24.23	ug/L	-3	30	0.0500	u
Dibromochloromethane	0.3567	0.2606	25.00	18.26	ug/L	-27	30	0.0500	u
1,2-Dibromoethane	0.3042	0.2925	25.00	24.04	ug/L	-4	30	0.0500	u
Chlorobenzene	0.9607	0.8834	25.00	22.99	ug/L	-8	30	0.3000	u
1,1,1,2-Tetrachloroethane	0.3358	0.3085	25.00	22.97	ug/L	-8	30	0.0500	u
Ethylbenzene	1.5714	1.6719	25.00	26.60	ug/L	6	20	0.0500	u
m,p-Xylenes	0.5668	0.5616	50.00	49.54	ug/L	-1	30	0.0500	u
o-Xylene	0.6027	0.5629	25.00	23.35	ug/L	-7	30	0.0500	u
Styrene	0.9722	1.0328	25.00	26.56	ug/L	6	30	0.0500	u
Bromoform	0.1963	0.1098	25.00	13.99	ug/L	**-44**	30	0.1000	!v+ c- u ***
Isopropylbenzene	2.7762	2.7807	25.00	25.04	ug/L	0	30	0.0500	u

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	0.6264	0.5547	25.00	22.14	ug/L	-11	30	0.3000	u
1,2,3-Trichloropropane	0.1487	0.1465	25.00	24.64	ug/L	-1	30	0.0500	u
Propylbenzene	3.4897	3.2799	25.00	23.50	ug/L	-6	30	0.0500	u
Bromobenzene	0.7727	0.8073	25.00	26.12	ug/L	4	30	0.0500	u
1,3,5-Trimethylbenzene	2.2408	2.5207	25.00	28.12	ug/L	12	30	0.0500	u
2-Chlorotoluene	2.2885	2.4369	25.00	26.62	ug/L	6	30	0.0500	u
4-Chlorotoluene	2.1032	2.1577	25.00	25.65	ug/L	3	30	0.0500	u
tert-Butylbenzene	2.0666	1.9209	25.00	23.24	ug/L	-7	30	0.0500	u
1,2,4-Trimethylbenzene	2.2908	2.4700	25.00	26.96	ug/L	8	30	0.0500	u
sec-Butylbenzene	3.0004	2.8908	25.00	24.09	ug/L	-4	30	0.0500	u
para-Isopropyl Toluene	2.4097	2.2483	25.00	23.33	ug/L	-7	30	0.0500	u
1,3-Dichlorobenzene	1.4286	1.2758	25.00	22.33	ug/L	-11	30	0.0500	u
1,4-Dichlorobenzene	1.4013	1.3254	25.00	23.65	ug/L	-5	30	0.0500	u
n-Butylbenzene	2.1768	2.1966	25.00	25.23	ug/L	1	30	0.0500	u
1,2-Dichlorobenzene	1.3807	1.2279	25.00	22.23	ug/L	-11	30	0.0500	u
1,2-Dibromo-3-Chloropropane	0.1000	0.0844	25.00	21.10	ug/L	-16	30	0.0500	u
1,2,4-Trichlorobenzene	0.7750	0.6682	25.00	21.56	ug/L	-14	30	0.0500	u
Hexachlorobutadiene	0.3253	0.2543	25.00	19.54	ug/L	-22	30	0.0500	u
Naphthalene	1.7440	1.4443	25.00	20.70	ug/L	-17	30	0.0500	u
1,2,3-Trichlorobenzene	0.7216	0.5822	25.00	20.17	ug/L	-19	30	0.0500	u
Dibromofluoromethane	0.5613	0.5611	50.00	49.99	ug/L	0	30	0.0500	u
1,2-Dichloroethane-d4	0.3041	0.3784	50.00	62.20	ug/L	24	30	0.0500	u
Toluene-d8	1.2116	1.2536	50.00	51.74	ug/L	3	30	0.0500	u
Bromofluorobenzene	0.9596	1.1013	50.00	57.38	ug/L	15	30	0.0500	u

ISTD (ICAL hck16)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	941940	1107573	17.58	10.05	10.04	-0.01
1,4-Difluorobenzene	1564588	1799163	14.99	11.23	11.22	-0.01
Chlorobenzene-d5	1292144	1529348	18.36	15.68	15.67	-0.01
1,4-Dichlorobenzene-d4	691346	793086	14.72	18.47	18.47	0.00

Analyst: KKM Date: 07/12/13 Reviewer: LW Date: 07/12/13

!=warning +=high bias -=low bias c=CCV u=use v=ICV

CURTIS & TOMPKINS SPIKE USER REPORT FOR 246655 MSVOA Water
EPA 8260B

Inst : MSVOA08 Run Name : QC696677 IDF : 1.0
Seqnum : 473272638007.2 File : hg807 Time : 08-JUL-2013 11:57
Cal : 473114230005 Caldate : 20-MAR-2013 Caltype : WATER
Standards: S22314 (10000X), S22572 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Dibromofluoromethane	0.5613	0.5603	50.00	49.91	ug/L	0	30	0.0500	u
1,2-Dichloroethane-d4	0.3041	0.3885	50.00	63.88	ug/L	28	30	0.0500	u
Toluene-d8	1.2116	1.2792	50.00	52.79	ug/L	6	30	0.0500	u
Bromofluorobenzene	0.9596	1.0980	50.00	57.21	ug/L	14	30	0.0500	u

ISTD (ICAL hck16)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	941940	1094201	16.16	10.05	10.04	-0.01
1,4-Difluorobenzene	1564588	1754868	12.16	11.23	11.23	0.00
Chlorobenzene-d5	1292144	1480222	14.56	15.68	15.66	-0.02
1,4-Dichlorobenzene-d4	691346	782401	13.17	18.47	18.47	0.00

ISTD (ICAL hcv06)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Chlorobenzene-d5 TIC	3785176	5027428	32.82	15.68	15.66	-0.02

MJB 07/08/13 [Gasoline C5-C12]: Separated from coeluting peak. [general version]

MJB 07/08/13 [Gasoline C6-C10]: Separated from coeluting peak. [general version]

MJB 07/08/13 [Gasoline C7-C12]: Separated from coeluting peak. [general version]

Analyst: KKM Date: 07/12/13 Reviewer: LW Date: 07/12/13

u=use

CURTIS & TOMPKINS SPIKE USER REPORT FOR 246655 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : QC696680 IDF : 1.0
Seqnum : 483272623005.7 File : ig805 Time : 08-JUL-2013 09:49
Cal : 483147320002 Caldate : 12-APR-2013 Caltype : WATER
Standards: S22666 (10000X), S22596 (10000X), S22609 (10000X), S22435 (10000X), S22539 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.3656	0.2916	20.00	15.95	ug/L	-20	30	0.0500	u
Chloromethane	0.5899	0.6019	20.00	20.41	ug/L	2	30	0.1000	u
Vinyl Chloride	0.3773	0.4322	20.00	22.91	ug/L	15	20	0.0500	u
Bromomethane	0.1857	0.2050	20.00	22.08	ug/L	10	30	0.0500	!v- u
Chloroethane	0.2553	0.2614	20.00	20.48	ug/L	2	30	0.0500	u
Trichlorofluoromethane	0.4543	0.4297	20.00	18.92	ug/L	-5	30	0.0500	u
Acetone	0.0978	0.0930	25.00	23.78	ug/L	-5	40	0.0500	!v+ u
Freon 113	0.2418	0.2725	25.00	28.17	ug/L	13	30	0.0500	u
1,1-Dichloroethene	0.2748	0.2854	25.00	25.97	ug/L	4	20	0.0500	u
Methylene Chloride	0.3658	0.3671	25.00	25.09	ug/L	0	30	0.0500	u
Carbon Disulfide	1.1127	1.1300	25.00	25.39	ug/L	2	30	0.0500	u
MTBE	0.7462	0.6866	25.00	23.00	ug/L	-8	30	0.0500	u
trans-1,2-Dichloroethene	0.3211	0.3400	25.00	26.47	ug/L	6	30	0.0500	u
Vinyl Acetate	0.6813	0.4565	25.00	16.75	ug/L	-33	40	0.0500	u
1,1-Dichloroethane	0.6789	0.6252	25.00	23.02	ug/L	-8	30	0.1000	u
2-Butanone	0.1437	0.1152	25.00	20.04	ug/L	-20	40	0.0500	u
cis-1,2-Dichloroethene	0.3687	0.3762	25.00	25.50	ug/L	2	30	0.0500	u
2,2-Dichloropropane	0.4126	0.4478	25.00	27.13	ug/L	9	30	0.0500	u
Chloroform	0.5897	0.5853	25.00	24.81	ug/L	-1	20	0.0500	u
Bromochloromethane	0.1630	0.1905	25.00	29.22	ug/L	17	30	0.0500	u
1,1,1-Trichloroethane	0.4211	0.4407	25.00	26.17	ug/L	5	30	0.0500	u
1,1-Dichloropropene	0.2741	0.3002	25.00	27.38	ug/L	10	30	0.0500	u
Carbon Tetrachloride	0.2427	0.2757	25.00	28.40	ug/L	14	30	0.0500	u
1,2-Dichloroethane	0.2767	0.2571	25.00	23.23	ug/L	-7	30	0.0500	u
Benzene	0.8251	0.8524	25.00	25.83	ug/L	3	30	0.0500	u
Trichloroethene	0.2250	0.2359	25.00	26.21	ug/L	5	30	0.0500	u
1,2-Dichloropropane	0.2781	0.2491	25.00	22.40	ug/L	-10	20	0.0500	u
Bromodichloromethane	0.2953	0.2882	25.00	24.39	ug/L	-2	30	0.0500	u
Dibromomethane	0.1433	0.1362	25.00	23.76	ug/L	-5	30	0.0500	u
4-Methyl-2-Pentanone	0.2255	0.1679	25.00	18.61	ug/L	-26	40	0.0500	u
cis-1,3-Dichloropropene	0.3386	0.3701	25.00	27.32	ug/L	9	30	0.0500	u
Toluene	0.6477	0.6491	25.00	25.06	ug/L	0	20	0.0500	u
trans-1,3-Dichloropropene	0.3950	0.3376	25.00	21.37	ug/L	-15	30	0.0500	u
1,1,2-Trichloroethane	0.1361	0.1173	25.00	21.54	ug/L	-14	30	0.0500	u
2-Hexanone	0.2086	0.1530	25.00	18.34	ug/L	-27	40	0.0500	u
1,3-Dichloropropane	0.4045	0.3524	25.00	21.78	ug/L	-13	30	0.0500	u
Tetrachloroethene	0.2583	0.3027	25.00	29.30	ug/L	17	30	0.0500	u
Dibromochloromethane	0.2885	0.2736	25.00	23.71	ug/L	-5	30	0.0500	u
1,2-Dibromoethane	0.2439	0.2246	25.00	23.02	ug/L	-8	30	0.0500	u
Chlorobenzene	0.7359	0.6998	25.00	23.78	ug/L	-5	30	0.3000	u
1,1,1,2-Tetrachloroethane	0.2556	0.2744	25.00	26.83	ug/L	7	30	0.0500	u
Ethylbenzene	1.1863	1.1969	25.00	25.22	ug/L	1	20	0.0500	u
m,p-Xylenes	0.4253	0.4308	50.00	50.65	ug/L	1	30	0.0500	u
o-Xylene	0.4388	0.4398	25.00	25.06	ug/L	0	30	0.0500	u
Styrene	0.7686	0.7886	25.00	25.65	ug/L	3	30	0.0500	u
Bromoform	0.1711	0.1868	25.00	27.29	ug/L	9	30	0.1000	u
Isopropylbenzene	2.2156	1.9427	25.00	21.92	ug/L	-12	30	0.0500	u

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	0.5965	0.4373	25.00	18.33	ug/L	-27	30	0.3000	u
1,2,3-Trichloropropane	0.1358	0.1074	25.00	19.76	ug/L	-21	30	0.0500	u
Propylbenzene	2.6387	2.0670	25.00	19.58	ug/L	-22	30	0.0500	u
Bromobenzene	0.6203	0.6120	25.00	24.67	ug/L	-1	30	0.0500	u
1,3,5-Trimethylbenzene	1.7053	1.6138	25.00	23.66	ug/L	-5	30	0.0500	u
2-Chlorotoluene	1.7595	1.4330	25.00	20.36	ug/L	-19	30	0.0500	u
4-Chlorotoluene	1.6958	1.3239	25.00	19.52	ug/L	-22	30	0.0500	u
tert-Butylbenzene	1.4837	1.3579	25.00	22.88	ug/L	-8	30	0.0500	u
1,2,4-Trimethylbenzene	1.7503	1.6141	25.00	23.06	ug/L	-8	30	0.0500	u
sec-Butylbenzene	2.2639	1.9783	25.00	21.85	ug/L	-13	30	0.0500	u
para-Isopropyl Toluene	1.6995	1.5506	25.00	22.81	ug/L	-9	30	0.0500	u
1,3-Dichlorobenzene	1.0679	1.0040	25.00	23.50	ug/L	-6	30	0.0500	u
1,4-Dichlorobenzene	1.0713	1.0506	25.00	24.52	ug/L	-2	30	0.0500	u
n-Butylbenzene	1.5747	1.3587	25.00	21.57	ug/L	-14	30	0.0500	u
1,2-Dichlorobenzene	1.0296	0.9276	25.00	22.52	ug/L	-10	30	0.0500	u
1,2-Dibromo-3-Chloropropane	0.0884	0.0546	25.00	15.44	ug/L	**-38**	30	0.0500	c- u ***
1,2,4-Trichlorobenzene	0.5605	0.5267	25.00	23.49	ug/L	-6	30	0.0500	u
Hexachlorobutadiene	0.2774	0.3206	25.00	28.90	ug/L	16	30	0.0500	u
Naphthalene	1.0017	0.8201	25.00	20.47	ug/L	-18	30	0.0500	u
1,2,3-Trichlorobenzene	0.5250	0.4834	25.00	23.02	ug/L	-8	30	0.0500	u
Dibromofluoromethane	0.5357	0.4818	50.00	44.96	ug/L	-10	30	0.0500	u
1,2-Dichloroethane-d4	0.3052	0.2472	50.00	40.51	ug/L	-19	30	0.0500	u
Toluene-d8	1.3871	1.2688	50.00	45.74	ug/L	-9	30	0.0500	u
Bromofluorobenzene	1.0329	0.8865	50.00	42.91	ug/L	-14	30	0.0500	u

ISTD (ICAL idc20)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1676048	1678500	0.15	11.44	11.41	-0.03
1,4-Difluorobenzene	2499222	2482529	-0.67	12.70	12.68	-0.02
Chlorobenzene-d5	1839785	2038620	10.81	16.96	16.94	-0.02
1,4-Dichlorobenzene-d4	910468	1161301	27.55	19.40	19.39	-0.01

Analyst: KKM Date: 07/12/13 Reviewer: LW Date: 07/12/13

!=warning +=high bias -=low bias c=CCV u=use v=ICV

CURTIS & TOMPKINS SPIKE USER REPORT FOR 246655 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : QC696682 IDF : 1.0
Seqnum : 483272623007.7 File : ig807 Time : 08-JUL-2013 10:56
Cal : 483147320002 Caldate : 12-APR-2013 Caltype : WATER
Standards: S22314 (10000X), S22539 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Dibromofluoromethane	0.5357	0.4722	50.00	44.08	ug/L	-12	30	0.0500	
1,2-Dichloroethane-d4	0.3052	0.2472	50.00	40.50	ug/L	-19	30	0.0500	
Toluene-d8	1.3871	1.2304	50.00	44.35	ug/L	-11	30	0.0500	
Bromofluorobenzene	1.0329	0.9391	50.00	45.46	ug/L	-9	30	0.0500	

ISTD (ICAL idc20)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1676048	1692569	0.99	11.44	11.43	-0.01
1,4-Difluorobenzene	2499222	2456933	-1.69	12.70	12.69	-0.01
Chlorobenzene-d5	1839785	1975526	7.38	16.96	16.95	-0.01
1,4-Dichlorobenzene-d4	910468	1053838	15.75	19.40	19.40	0.00

LW 07/12/13 : Gasoline ccv - not needed and not worked up

Analyst: KKM Date: 07/12/13 Reviewer: LW Date: 07/12/13

CURTIS & TOMPKINS SPIKE USER REPORT FOR 246655 MSVOA Water
EPA 8260B

Inst : MSVOA13 Run Name : QC696629 IDF : 1.0
Seqnum : 943270172005.3 File : mg605 Time : 06-JUL-2013 17:07
Cal : 943212676001 Caldate : 27-MAY-2013
Standards: S22609 (20000X), S22435 (20000X), S22666 (20000X), S22596 (20000X), S22610 (2500X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.5566	0.5713	10.00	10.26	ug/L	3	30	0.0500	u
Chloromethane	0.6055	0.5964	10.00	9.850	ug/L	-1	30	0.1000	u
Vinyl Chloride	0.5053	0.4790	10.00	9.480	ug/L	-5	20	0.0500	u
Bromomethane	0.2153	0.3015	10.00	14.00	ug/L	**40**	30	0.0500	!v- c+ u ***
Chloroethane	0.2910	0.4106	10.00	14.11	ug/L	**41**	30	0.0500	c+ u ***
Trichlorofluoromethane	0.8543	0.9025	10.00	10.56	ug/L	6	30	0.0500	u
Acetone	0.2452	0.1650	12.50	8.413	ug/L	-33	40	0.0500	m u
Freon 113	0.4660	0.4972	12.50	13.34	ug/L	7	30	0.0500	u
1,1-Dichloroethene	0.4501	0.3661	12.50	10.17	ug/L	-19	20	0.0500	u
Methylene Chloride	0.5318	0.5460	12.50	12.83	ug/L	3	30	0.0500	u
Carbon Disulfide	1.4336	1.5374	12.50	13.41	ug/L	7	30	0.0500	u
MTBE	1.6282	1.2789	12.50	9.819	ug/L	-21	30	0.0500	u
trans-1,2-Dichloroethene	0.5211	0.5219	12.50	12.52	ug/L	0	30	0.0500	u
Vinyl Acetate	0.8512	0.8445	12.50	12.40	ug/L	-1	40	0.0500	m u
1,1-Dichloroethane	1.0024	1.0298	12.50	12.84	ug/L	3	30	0.1000	u
2-Butanone	0.3182	0.2643	12.50	10.38	ug/L	-17	40	0.0500	m u
cis-1,2-Dichloroethene	0.5928	0.5588	12.50	11.78	ug/L	-6	30	0.0500	u
2,2-Dichloropropane	0.7153	0.8670	12.50	15.15	ug/L	21	30	0.0500	u
Chloroform	0.9179	1.0920	12.50	14.87	ug/L	19	20	0.0500	u
Bromochloromethane	0.2598	0.2974	12.50	14.31	ug/L	14	30	0.0500	u
1,1,1-Trichloroethane	0.7859	0.9819	12.50	15.62	ug/L	25	30	0.0500	u
1,1-Dichloropropene	0.4604	0.4595	12.50	12.47	ug/L	0	30	0.0500	u
Carbon Tetrachloride	0.4205	0.5653	12.50	16.80	ug/L	**34**	30	0.0500	c+ u ***
1,2-Dichloroethane	0.4899	0.5875	12.50	14.99	ug/L	20	30	0.0500	u
Benzene	1.4315	1.5509	12.50	13.54	ug/L	8	30	0.0500	u
Trichloroethene	0.3696	0.3688	12.50	12.47	ug/L	0	30	0.0500	u
1,2-Dichloropropane	0.3904	0.3654	12.50	11.70	ug/L	-6	20	0.0500	u
Bromodichloromethane	0.4447	0.5029	12.50	14.13	ug/L	13	30	0.0500	u
Dibromomethane	0.2213	0.2462	12.50	13.91	ug/L	11	30	0.0500	u
4-Methyl-2-Pentanone	0.4409	0.3480	12.50	9.868	ug/L	-21	40	0.0500	u
cis-1,3-Dichloropropene	0.5553	0.6425	12.50	14.46	ug/L	16	30	0.0500	u
Toluene	1.7410	1.7261	12.50	12.39	ug/L	-1	20	0.0500	u
trans-1,3-Dichloropropene	0.5832	0.5235	12.50	11.22	ug/L	-10	30	0.0500	u
1,1,2-Trichloroethane	0.2025	0.2021	12.50	12.47	ug/L	0	30	0.0500	u
2-Hexanone	0.3518	0.2058	12.50	7.313	ug/L	**-41**	40	0.0500	c- u ***
1,3-Dichloropropane	0.6746	0.6514	12.50	12.07	ug/L	-3	30	0.0500	u
Tetrachloroethene	0.3913	0.4273	12.50	13.65	ug/L	9	30	0.0500	u
Dibromochloromethane	0.3280	0.3874	12.50	13.68	ug/L	9	30	0.0500	u
1,2-Dibromoethane	0.3692	0.3435	12.50	11.63	ug/L	-7	30	0.0500	u
Chlorobenzene	1.0846	1.1106	12.50	12.80	ug/L	2	30	0.3000	u
1,1,1,2-Tetrachloroethane	0.3663	0.4133	12.50	14.10	ug/L	13	30	0.0500	u
Ethylbenzene	1.8954	1.9605	12.50	12.93	ug/L	3	20	0.0500	u
m,p-Xylenes	0.7075	0.7358	25.00	26.00	ug/L	4	30	0.0500	u
o-Xylene	0.6935	0.6264	12.50	11.29	ug/L	-10	30	0.0500	u
Styrene	1.1790	1.1781	12.50	12.49	ug/L	0	30	0.0500	u
Bromoform	0.2017	0.2839	12.50	15.57	ug/L	25	30	0.1000	u
Isopropylbenzene	3.5223	2.9720	12.50	10.55	ug/L	-16	30	0.0500	u

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	0.9640	0.9597	12.50	12.45	ug/L	0	30	0.3000	u
1,2,3-Trichloropropane	1.0451	0.9879	12.50	11.82	ug/L	-5	30	0.0500	u
Propylbenzene	4.2945	3.7468	12.50	10.91	ug/L	-13	30	0.0500	u
Bromobenzene	0.9589	0.9365	12.50	12.21	ug/L	-2	30	0.0500	u
1,3,5-Trimethylbenzene	2.8808	2.9503	12.50	12.80	ug/L	2	30	0.0500	u
2-Chlorotoluene	2.9398	2.7658	12.50	11.76	ug/L	-6	30	0.0500	u
4-Chlorotoluene	2.8075	2.4127	12.50	10.74	ug/L	-14	30	0.0500	u
tert-Butylbenzene	2.4545	2.1627	12.50	11.01	ug/L	-12	30	0.0500	u
1,2,4-Trimethylbenzene	2.9619	3.0320	12.50	12.80	ug/L	2	30	0.0500	u
sec-Butylbenzene	3.5371	3.1705	12.50	11.20	ug/L	-10	30	0.0500	u
para-Isopropyl Toluene	2.9427	2.6520	12.50	11.27	ug/L	-10	30	0.0500	u
1,3-Dichlorobenzene	1.6647	1.5624	12.50	11.73	ug/L	-6	30	0.0500	u
1,4-Dichlorobenzene	1.7509	1.8174	12.50	12.97	ug/L	4	30	0.0500	u
n-Butylbenzene	2.7733	2.6392	12.50	11.90	ug/L	-5	30	0.0500	u
1,2-Dichlorobenzene	1.6172	1.4859	12.50	11.49	ug/L	-8	30	0.0500	u
1,2-Dibromo-3-Chloropropane	0.1977	0.1690	12.50	10.69	ug/L	-15	30	0.0500	u
1,2,4-Trichlorobenzene	0.9842	0.8263	12.50	10.50	ug/L	-16	30	0.0500	u
Hexachlorobutadiene	0.4727	0.4974	12.50	13.15	ug/L	5	30	0.0500	u
Naphthalene	2.7774	2.1489	12.50	9.672	ug/L	-23	30	0.0500	u
1,2,3-Trichlorobenzene	0.9261	0.8092	12.50	10.92	ug/L	-13	30	0.0500	u
Dibromofluoromethane	0.4341	0.4791	50.00	55.18	ug/L	10	30	0.0500	u
1,2-Dichloroethane-d4	0.3732	0.4355	50.00	58.35	ug/L	17	30	0.0500	u
Toluene-d8	1.3687	1.2850	50.00	46.94	ug/L	-6	30	0.0500	u
Bromofluorobenzene	1.0701	0.9722	50.00	45.43	ug/L	-9	30	0.0500	u

ISTD (ICAL mer18)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1124892	1415444	25.83	11.43	11.43	0.00
1,4-Difluorobenzene	1742411	2151439	23.47	12.27	12.27	0.00
Chlorobenzene-d5	1563076	2196048	40.50	15.09	15.09	0.00
1,4-Dichlorobenzene-d4	746786	1182904	58.40	17.14	17.14	0.00

LW 07/08/13 : Integration narrations are on the BS/BSD form [general version]

Analyst: KKM Date: 07/12/13 Reviewer: LW Date: 07/12/13

!=warning +=high bias -=low bias c=CCV m=manual integration u=use v=ICV

Logbooks & Sequences

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 463275501

Date : 07/10/13 Reference : gg319
Sequence : MSVOA07 gga Analyzed : 07/04/13 00:25

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	1036698	10.09	1774032	11.24	1648363	15.34	924236	18.06
		LOWER LIMIT	518349	9.59	887016	10.74	824182	14.84	462118	17.56
		UPPER LIMIT	2073396	10.59	3548064	11.74	3296726	15.84	1848472	18.56
003	CCV		960297	10.08	1704245	11.24	1594701	15.33	862048	18.06
005	LCS	QC697083	908151	10.09	1553185	11.24	1393313	15.33	749880	18.06
006	IB		864199	10.09	1509582	11.24	1320643	15.33	694340	18.06
007	BLANK	QC697037	836334	10.09	1467725	11.24	1294040	15.33	681426	18.06
008	LOD	219030-019	831474	10.09	1470541	11.24	1278166	15.33	677717	18.06
009	SAMPLE	246716-015	818624	10.09	1443813	11.24	1261687	15.33	671222	18.06
010	SAMPLE	246716-016	799488	10.09	1422164	11.24	1237224	15.33	658168	18.06
011	SAMPLE	246716-017	798167	10.09	1428574	11.24	1251088	15.33	665165	18.06
012	SAMPLE	246716-018	786015	10.09	1411984	11.24	1220668	15.33	651971	18.06
013	SAMPLE	246716-019	786512	10.09	1401086	11.24	1242389	15.33	642851	18.06
014	SAMPLE	246716-020	777133	10.09	1399051	11.24	1230112	15.33	649829	18.06
015	SAMPLE	246716-021	762817	10.09	1381795	11.24	1212034	15.33	643257	18.06
016	SAMPLE	246716-022	751540	10.09	1361280	11.24	1185717	15.33	629486	18.06
017	MSS	246716-026	753203	10.09	1357836	11.24	1178843	15.33	632119	18.06
018	SAMPLE	246655-001	742334	10.09	1352538	11.24	1177081	15.33	627283	18.06
019	SAMPLE	246655-010	737428	10.09	1348697	11.24	1169712	15.33	623358	18.06
020	SAMPLE	246554-005	990119	10.08	1645274	11.23	1558154	15.33	943892	18.06
021	SAMPLE	246554-002	1266909	10.08	2005199	11.23	1826715	15.33	1072295	18.06
022	IB		1144507	10.08	1871565	11.24	1654135	15.33	902434	18.06
023	MS	QC697084	1033073	10.09	1726170	11.24	1519227	15.33	817498	18.06
024	MSD	QC697085	997182	10.09	1664756	11.24	1464248	15.33	775334	18.06
025	IB		934218	10.09	1595485	11.24	1361080	15.33	739591	18.06
026	IB		876934	10.09	1517290	11.24	1297587	15.33	698335	18.06
027	IB		843307	10.09	1477107	11.24	1269461	15.33	670877	18.06
028	IB		819907	10.09	1441794	11.24	1249285	15.33	673421	18.06
029	SAMPLE	246609-001	790495	10.09	1405627	11.24	1217691	15.33	653019	18.06
030	SAMPLE	246609-002	782251	10.09	1397570	11.24	1217660	15.33	647973	18.06
031	SAMPLE	246753-001	772398	10.09	1367993	11.24	1204959	15.33	629020	18.06

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 463276901

Date : 07/11/13 Reference : gg319
Sequence : MSVOA07 ggb Analyzed : 07/04/13 00:25

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	1036698	10.09	1774032	11.24	1648363	15.34	924236	18.06
		LOWER LIMIT	518349	9.59	887016	10.74	824182	14.84	462118	17.56
		UPPER LIMIT	2073396	10.59	3548064	11.74	3296726	15.84	1848472	18.56
005	CCV		837685	10.08	1508092	11.24	1407994	15.33	762363	18.06
006	CCV		817150	10.08	1435966	11.24	1315665	15.33	711787	18.06
010	CCV		1023715	10.08	1764885	11.24	1608452	15.33	869523	18.06
011	CCV/BS	QC697197	1015346	10.08	1785189	11.24	1626214	15.33	880585	18.06
013	CCV		1031945	10.08	1808463	11.24	1647339	15.33	893162	18.06
014	CCV		1028315	10.08	1786858	11.24	1634768	15.33	888089	18.06
016	CCV		1127655	10.08	1934492	11.24	1763097	15.33	961281	18.06
017	MS	QC697084	1115574	10.08	1931819	11.24	1762620	15.33	976841	18.06
018	MSD	QC697085	1105286	10.09	1881373	11.24	1678734	15.33	918994	18.06
019	BS	QC697197	1099722	10.08	1882889	11.24	1684948	15.33	922874	18.06
020	BSD	QC697198	1101163	10.09	1873716	11.24	1673873	15.33	926868	18.06
021	IB		1057771	10.09	1829559	11.24	1578609	15.33	856789	18.06
022	BLANK	QC697199	1025779	10.09	1788471	11.24	1551507	15.33	835193	18.06
023	LOD	219030-019	1005077	10.09	1747861	11.24	1512960	15.33	822866	18.06
024	LOD	219030-019	988216	10.09	1742741	11.24	1503276	15.33	825956	18.06
025	LOD	219030-019	987215	10.09	1734295	11.24	1504475	15.33	813870	18.06
026	LOD	219030-019	978424	10.09	1707391	11.24	1488871	15.33	815331	18.06
027	LOD	219030-019	978726	10.09	1704085	11.24	1511238	15.33	817087	18.06
028	SAMPLE	246871-002	954226	10.09	1706338	11.24	1470494	15.33	787672	18.06
029	SAMPLE	246871-003	984053	10.09	1730655	11.24	1489948	15.33	803506	18.06
030	SAMPLE	246869-024	1065066	10.08	1833717	11.24	1661999	15.33	891167	18.06
031	SAMPLE	246869-025	982256	10.09	1728849	11.24	1543905	15.33	831960	18.06
032	SAMPLE	246869-026	935445	10.09	1678134	11.24	1451582	15.33	785540	18.06
033	SAMPLE	246869-027	930143	10.09	1667101	11.24	1437187	15.33	782553	18.06
034	SAMPLE	246869-028	916787	10.09	1649754	11.24	1430641	15.33	780443	18.06
035	SAMPLE	246869-029	905060	10.09	1633256	11.24	1418032	15.33	771096	18.06
036	IB		904341	10.09	1611783	11.24	1406172	15.33	758858	18.06
037	IB		902890	10.09	1612906	11.24	1398292	15.33	747860	18.06
038	IB		888198	10.09	1616936	11.24	1420273	15.33	766453	18.06
039	IB		885416	10.09	1603253	11.24	1399823	15.33	756926	18.06

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 473272638

Date : 07/08/13 Reference : hck16
Sequence : MSVOA08 hg8 Analyzed : 03/20/13 19:32

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	941940	10.05	1564588	11.23	1292144	15.68	691346	18.47
		LOWER LIMIT	470970	9.55	782294	10.73	646072	15.18	345673	17.97
		UPPER LIMIT	1883880	10.55	3129176	11.73	2584288	16.18	1382692	18.97
004	CCV		967241	10.04	1568773	11.23	1360634	15.67	707417	18.46
005	CCV/BS	QC696675	1107573	10.04	1799163	11.22	1529348	15.67	793086	18.47
006	BSD	QC696676	1100229	10.04	1752104	11.23	1506116	15.67	776136	18.47
007	CCV/BS	QC696677	1094201	10.04	1754868	11.23	1480222	15.66	782401	18.47
008	BSD	QC696678	1113695	10.03	1810067	11.21	1487478	15.66	750171	18.46
009	IB		1013166	10.04	1627393	11.22	1364568	15.66	670525	18.46
010	BLANK	QC696679	1078751	10.03	1742334	11.22	1415403	15.67	687610	18.46
012	SAMPLE	246655-011	1107122	10.03	1740601	11.22	1433110	15.67	695633	18.46
013	SAMPLE	246704-001	1086716	10.04	1737151	11.22	1438454	15.66	707349	18.46
014	SAMPLE	246704-002	1094766	10.04	1715633	11.22	1412412	15.67	710007	18.46
015	SAMPLE	246704-003	1070962	10.03	1685592	11.22	1409623	15.67	693465	18.46
016	SAMPLE	246704-004	1091382	10.03	1702545	11.22	1393454	15.67	701941	18.46
017	SAMPLE	246704-005	1097216	10.04	1719014	11.22	1423518	15.67	712140	18.46
018	SAMPLE	246655-001	1101043	10.04	1701089	11.22	1429789	15.66	685567	18.47
019	SAMPLE	246655-002	1104577	10.04	1691854	11.23	1416636	15.66	699349	18.47
020	SAMPLE	246655-005	1068856	10.04	1655361	11.22	1377719	15.67	698487	18.46
021	SAMPLE	246655-006	1059648	10.03	1631000	11.22	1367386	15.67	685458	18.46
022	SAMPLE	246706-001	1048980	10.04	1634346	11.23	1400206	15.67	727335	18.46
024	IB		984535	10.04	1506274	11.22	1260224	15.67	636113	18.46
025	IB		1018633	10.05	1585627	11.23	1310580	15.67	667622	18.47

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 473272638

Date : 07/08/13 Reference : hcv06
Sequence : MSVOA08 hg8 Analyzed : 03/31/13 14:53

#	Type	Sample ID	CLBZD5-TIC	RT
		ICAL STD	3785176	15.68
		LOWER LIMIT	1892588	15.18
		UPPER LIMIT	7570352	16.18
007	CCV/BS	QC696677	5027428	15.66
011	LOD	219210-020	4395826	15.66
022	SAMPLE	246706-001	4644786	15.66

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 483272623

Date : 07/08/13 Reference : idc20
Sequence : MSVOA09 ig8 Analyzed : 04/12/13 19:41

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	1676048	11.44	2499222	12.70	1839785	16.96	910468	19.40
		LOWER LIMIT	838024	10.94	1249611	12.20	919893	16.46	455234	18.90
		UPPER LIMIT	3352096	11.94	4998444	13.20	3679570	17.46	1820936	19.90
004	CCV		1617234	11.42	2344827	12.68	1994655	16.94	1133856	19.39
005	CCV/BS	QC696680	1678500	11.41	2482529	12.68	2038620	16.94	1161301	19.39
006	BSD	QC696681	1628843	11.43	2423305	12.69	1946022	16.95	1054745	19.40
007	CCV/BS	QC696682	1692569	11.43	2456933	12.69	1975526	16.95	1053838	19.40
008	BSD	QC696683	1622571	11.43	2375207	12.69	1941596	16.95	1056082	19.40
010	BLANK	QC696684	1577935	11.43	2283265	12.69	1822286	16.95	979304	19.39
011	SAMPLE	246737-001	1652032	11.43	2309968	12.69	1946491	16.95	1045486	19.39
012	SAMPLE	246633-006	1539075	11.43	2260019	12.70	1864975	16.95	1021881	19.40
013	SAMPLE	246633-007	1700345	11.43	2498086	12.70	2025809	16.95	1119626	19.40
014	SAMPLE	246610-018	1673461	11.44	2440804	12.70	1999215	16.95	1111121	19.40
015	SAMPLE	246610-021	1552330	11.44	2313750	12.70	1902844	16.95	1010316	19.40
016	SAMPLE	246655-009	1615635	11.44	2440128	12.70	1993988	16.95	1102035	19.41
017	SAMPLE	246655-008	1553082	11.45	2351780	12.71	1896649	16.97	1029367	19.41
018	SAMPLE	246655-010	1631087	11.44	2434348	12.71	2027966	16.96	1100662	19.40
019	SAMPLE	246598-003	1553980	11.44	2303449	12.70	1868522	16.95	1014888	19.40
020	SAMPLE	246598-002	1672821	11.44	2473186	12.70	1991936	16.95	1133351	19.40
021	SAMPLE	246598-004	1645920	11.44	2467374	12.70	2048711	16.95	1094267	19.41
022	SAMPLE	246598-005	1631602	11.44	2445633	12.71	1980886	16.96	1119776	19.40
023	SAMPLE	246598-001	1645438	11.44	2399965	12.71	2069816	16.95	1118930	19.40
025	IB		1613305	11.44	2394419	12.70	1912687	16.95	1086113	19.40
026	IB		1574090	11.44	2326817	12.70	1976576	16.94	1075525	19.40

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 943270172

Date : 07/06/13 Reference : mer18
Sequence : MSVOA13 mg6 Analyzed : 05/27/13 23:54

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	1124892	11.43	1742411	12.27	1563076	15.09	746786	17.14
		LOWER LIMIT	562446	10.93	871206	11.77	781538	14.59	373393	16.64
		UPPER LIMIT	2249784	11.93	3484822	12.77	3126152	15.59	1493572	17.64
002	IB		1314842	11.43	2240759	12.27	2249835	15.10	1172905	17.14
004	CCV	15PPB	1414842	11.43	2153275	12.27	2200672	15.09	1147209	17.14
005	CCV/BS	QC696629	1415444	11.43	2151439	12.27	2196048	15.09	1182904	17.14
006	BSD	QC696630	1392662	11.43	2113268	12.27	2140408	15.09	1128984	17.14
007	IB		1162494	11.43	2007564	12.27	1913708	15.10	976756	17.15
008	BLANK	QC696631	1081524	11.43	1924430	12.27	1844568	15.09	930694	17.15
009	SAMPLE	246655-011	1045516	11.43	1890109	12.27	1824800	15.09	902516	17.15
010	SAMPLE	246633-022	1035720	11.43	1883719	12.27	1812446	15.10	885349	17.15
011	SAMPLE	246633-021	1058931	11.43	1884682	12.27	1809415	15.10	901722	17.15
012	SAMPLE	246655-002	1011645	11.43	1879413	12.27	1791959	15.10	901832	17.15
013	SAMPLE	246655-004	1014455	11.43	1878164	12.27	1802728	15.10	872759	17.15
014	SAMPLE	246655-003	1007851	11.43	1878919	12.27	1827952	15.10	919146	17.15
015	SAMPLE	246655-005	976485	11.43	1860728	12.27	1770190	15.10	846284	17.14
016	SAMPLE	246655-006	983637	11.43	1837975	12.27	1774306	15.10	874105	17.15
017	SAMPLE	246655-007	1004316	11.43	1877103	12.27	1807460	15.10	888355	17.15
018	SAMPLE	246655-008	967679	11.43	1809260	12.27	1740814	15.10	837171	17.15
019	SAMPLE	246655-009	953306	11.43	1819662	12.27	1747384	15.10	829284	17.15
020	SAMPLE	246655-010	936288	11.43	1799370	12.27	1728999	15.10	848456	17.15
021	SAMPLE	246733-002	969493	11.43	1830335	12.27	1795886	15.10	862687	17.15
022	SAMPLE	246733-003	1015323	11.43	1753126	12.27	1684850	15.10	799561	17.15
023	SAMPLE	246733-004	1134213	11.43	1845022	12.27	1780390	15.10	848913	17.15
024	SAMPLE	246733-005	941903	11.43	1792103	12.27	1736363	15.10	850434	17.15
025	SAMPLE	246733-006	1037540	11.43	1785491	12.27	1726221	15.10	830841	17.15
026	SAMPLE	246733-007	1017134	11.43	1804022	12.27	1787435	15.10	839457	17.15
027	IB		949432	11.43	1798317	12.27	1734520	15.10	847578	17.15
028	IB		942035	11.43	1753107	12.27	1718874	15.10	866286	17.15
029	IB		904774	11.43	1728002	12.27	1661558	15.10	809787	17.15

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 463265607

Instrument : MSVOA07 Begun : 07/03/13 10:47
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	gg301	X	IB			07/03/13 10:47	1.0	1	
002	gg302	TUN	BFB			07/03/13 11:38	1.0	2	
003	gg303	TUN	BFB			07/03/13 11:50	1.0	2	
004	gg304	X	IB			07/03/13 13:39	1.0	1	
005	gg305	X	LOWPT			07/03/13 14:11	1.0	1	
006	gg306	X	IB			07/03/13 14:44	1.0	1	
007	gg307	X	LOWPT			07/03/13 15:37	1.0	1	
008	gg308	TUN	BFB			07/03/13 18:30	1.0	2	
009	gg309	X	IB			07/03/13 18:58	1.0	1	
010	gg310	X	IB			07/03/13 19:30	1.0	1	
011	gg311	X	IB			07/03/13 20:03	1.0	1	
012	gg312	IB	CALIB			07/03/13 20:36	1.0	1	
013	gg313	ICAL				07/03/13 21:09	1.0	3 4 5 6 1	
014	gg314	ICAL				07/03/13 21:41	1.0	3 4 5 6 1	
015	gg315	ICAL				07/03/13 22:14	1.0	3 4 5 6 1	
016	gg316	ICAL				07/03/13 22:47	1.0	3 4 5 6 1	
017	gg317	ICAL				07/03/13 23:19	1.0	3 4 5 1 6	
018	gg318	ICAL				07/03/13 23:52	1.0	3 4 5 6 1	
019	gg319	ICAL				07/04/13 00:25	1.0	3 4 5 6 1	
020	gg320	ICAL				07/04/13 00:57	1.0	3 4 5 6 1	
021	gg321	ICAL				07/04/13 01:30	1.0	3 4 5 6 1	
022	gg322	ICV	GAS			07/04/13 02:03	1.0	7 1	
023	gg323	ICV				07/04/13 02:35	1.0	8 9 10 1	
024	gg324	X	IB			07/04/13 03:08	1.0	1	
025	gg325	X	IB			07/04/13 03:41	1.0	1	
026	gg326	X	IB			07/04/13 04:13	1.0	1	

Analyst: DAR Date: 07/06/13 Reviewer: LW Date: 07/09/13

Standards used: 1=S22539 2=S22624 3=S21483 4=S22575 5=S22549 6=S21953 7=S22435 8=S22666 9=S22596 10=S22609

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 463270231

Instrument : MSVOA07 Begun : 07/06/13 15:51
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	gg601	TUN	BFB			07/06/13 15:51	1.0	1	
002	gg602	X	IB			07/06/13 16:24	1.0	2	
003	gg603	ICV	2C			07/06/13 16:56	1.0	3 2	
004	gg604	ICV	IODO			07/06/13 17:29	1.0	4 2	

DAR 07/06/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 4.

Analyst: DAR Date: 07/06/13 Reviewer: LW Date: 07/09/13

Standards used: 1=S22624 2=S22539 3=S17234 4=S21712

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 463275501

Instrument : MSVOA07 Begun : 07/10/13 07:41
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	gga01	X	IB			07/10/13 07:41	1.0	1	
002	gga02	TUN	BFB			07/10/13 09:04	1.0	2	
003	gga03	CCV				07/10/13 09:32	1.0	3 4 5 6 1	
004	gga04	X	QC697035	Water	200508	07/10/13 10:15	1.0	7 8 9 10 1	
005	gga05	LCS	QC697083	Water	200508	07/10/13 10:48	1.0	7 8 9 10 1	
006	gga06	IB				07/10/13 11:21	1.0	1	
007	gga07	BLANK	QC697037	Water	200508	07/10/13 11:53	1.0	1	
008	gga08	LOD	219030-019	Water	200508	07/10/13 12:26	1.0	5 1	
009	gga09	SAMPLE	246716-015	Water	200508	07/10/13 12:59	1.0	1	
010	gga10	SAMPLE	246716-016	Water	200508	07/10/13 13:32	1.0	1	
011	gga11	SAMPLE	246716-017	Water	200508	07/10/13 14:04	1.0	1	
012	gga12	SAMPLE	246716-018	Water	200508	07/10/13 14:37	1.0	1	
013	gga13	SAMPLE	246716-019	Water	200508	07/10/13 15:10	1.0	1	
014	gga14	SAMPLE	246716-020	Water	200508	07/10/13 15:43	1.0	1	
015	gga15	SAMPLE	246716-021	Water	200508	07/10/13 16:15	1.0	1	
016	gga16	SAMPLE	246716-022	Water	200508	07/10/13 16:48	1.0	1	
017	gga17	MSS	246716-026	Water	200508	07/10/13 17:21	1.0	1	
018	gga18	SAMPLE	246655-001	Water	200508	07/10/13 17:53	1.0	1	
019	gga19	SAMPLE	246655-010	Water	200508	07/10/13 18:26	1.0	1	
020	gga20	SAMPLE	246554-005	Water	200508	07/10/13 18:58	1.0	1	
021	gga21	SAMPLE	246554-002	Water	200508	07/10/13 19:31	1.0	1	
022	gga22	IB				07/10/13 20:03	200500	1	
023	gga23	MS	QC697084	Water	200508	07/10/13 20:36	1.0	7 8 9 10 1	
024	gga24	MSD	QC697085	Water	200508	07/10/13 21:09	1.0	7 8 9 10 1	<<t
025	gga25	IB				07/10/13 21:41	200500	1	<<t
026	gga26	IB				07/10/13 22:14	200500	1	<<t
027	gga27	IB				07/10/13 22:46	200500	1	<<t
028	gga28	IB				07/10/13 23:19	200500	1	<<t
029	gga29	SAMPLE	246609-001	Water	200508	07/10/13 23:51	1.0	1	<<t
030	gga30	SAMPLE	246609-002	Water	200508	07/11/13 00:24	1.0	1	<<t
031	gga31	SAMPLE	246753-001	Water	200508	07/11/13 00:57	1.0	1	<<t , headspace <= 1 mL, pH > 2

MCT 07/11/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 31.

Analyst: MCT Date: 07/11/13 Reviewer: LW Date: 07/11/13

Standards used: 1=S22539 2=S22624 3=S21953 4=S22575 5=S22755 6=S21483 7=S22666 8=S22596 9=S22609 10=S22435

Flags used: <<t=out of clock

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 463276901

Instrument : MSVOA07 Begun : 07/11/13 07:01
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	ggb01	X	IB			07/11/13 07:01	1.0	1	
002	ggb02	TUN	BFB			07/11/13 07:47	1.0	2	t
003	ggb03	TUN	BFB			07/11/13 08:07	1.0	2	t
004	ggb04	TUN	BFB			07/11/13 08:21	1.0	2	
005	ggb05	CCV				07/11/13 08:47	1.0	3 4 5 6 1	cc+
006	ggb06	CCV				07/11/13 09:34	1.0	3 4 5 6 1	cc+
007	ggb07	TUN	BFB			07/11/13 10:05	1.0	2	
008	ggb08	TUN	BFB			07/11/13 10:33	1.0	2	
009	ggb09	TUN	BFB			07/11/13 10:47	1.0	2	
010	ggb10	CCV				07/11/13 11:12	1.0	3 4 5 6 1	cc+
011	ggb11	CCV/BS	QC697197	Water	200552	07/11/13 11:56	1.0	7 8 9 10 1	cc+
012	ggb12	TUN	BFB			07/11/13 12:28	1.0	2	
013	ggb13	CCV				07/11/13 12:54	1.0	3 4 5 6 1	cc+
014	ggb14	CCV				07/11/13 13:52	1.0	3 4 5 6 1	cc+
015	ggb15	TUN	BFB			07/11/13 14:27	1.0	2	
016	ggb16	CCV				07/11/13 14:56	1.0	3 4 5 6 1	
017	ggb17	MS	QC697084	Water	200508	07/11/13 15:47	1.0	7 8 9 10 1	
018	ggb18	MSD	QC697085	Water	200508	07/11/13 16:19	1.0	7 8 9 10 1	headspace > 1 mL
019	ggb19	BS	QC697197	Water	200552	07/11/13 16:52	1.0	7 8 9 10 1	
020	ggb20	BSD	QC697198	Water	200552	07/11/13 17:24	1.0	7 8 9 10 1	
021	ggb21	IB				07/11/13 17:57	1.0	1	
022	ggb22	BLANK	QC697199	Water	200552	07/11/13 18:29	1.0	1	
023	ggb23	LOD	219030-019	Water	200552	07/11/13 19:01	1.0	3 4 5 6 1	
024	ggb24	LOD	219030-019	Water	200552	07/11/13 19:34	1.0	3 4 5 6 1	
025	ggb25	LOD	219030-019	Water	200552	07/11/13 20:06	1.0	3 4 5 6 1	
026	ggb26	LOD	219030-019	Water	200552	07/11/13 20:39	1.0	3 4 5 6 1	
027	ggb27	LOD	219030-019	Water	200552	07/11/13 21:11	1.0	3 4 5 6 1	
028	ggb28	SAMPLE	246871-002	Water	200552	07/11/13 21:44	1.0	1	
029	ggb29	SAMPLE	246871-003	Water	200552	07/11/13 22:17	1.0	1	2:ISOPROH=56000
030	ggb30	SAMPLE	246869-024	Water	200552	07/11/13 22:49	1.0	1	1:ISOPROH=2500
031	ggb31	SAMPLE	246869-025	Water	200552	07/11/13 23:21	1.0	1	
032	ggb32	SAMPLE	246869-026	Water	200552	07/11/13 23:54	1.0	1	
033	ggb33	SAMPLE	246869-027	Water	200552	07/12/13 00:26	1.0	1	
034	ggb34	SAMPLE	246869-028	Water	200552	07/12/13 00:59	1.0	1	
035	ggb35	SAMPLE	246869-029	Water	200552	07/12/13 01:31	1.0	1	
036	ggb36	IB				07/12/13 02:04	200600	1	
037	ggb37	IB				07/12/13 02:36	200600	1	<<t
038	ggb38	IB				07/12/13 03:09	200600	1	<<t
039	ggb39	IB				07/12/13 03:41	200600	1	<<t

MCT 07/11/13 : Tune adjusted file ggb04, ggb07.

MCT 07/11/13 : Tune adjusted file ggb12.

DAR 07/11/13 : adjusted tune prior to file 15

DAR 07/11/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 01 through 18.

KKM 07/12/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 19 through 39.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 463276901

Instrument : MSVOA07 Begun : 07/11/13 07:01
Method : EPA 8260B SOP Version : TVH_8260B_rv1

KKM 07/12/13 : Matrix spikes were not performed for this analysis in batch 200552 due to insufficient sample amount.

Analyst: DAR Date: 07/11/13 Reviewer: LW Date: 07/12/13

Standards used: 1=S22539 2=S22624 3=S21953 4=S22575 5=S22755 6=S21483 7=S22666 8=S22596 9=S22609 10=S22435

Flags used: +=high bias <<t=out of clock cc=CCV CCC failure t=tune failure

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 473114230

Instrument : MSVOA08 Begun : 03/20/13 07:50
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	hck01	X	IB			03/20/13 07:50	1.0	1	
002	hck02	X	IB			03/20/13 10:58	1.0	1	
003	hck03	X	IB			03/20/13 11:36	1.0	1	
004	hck04	X	IB			03/20/13 12:13	1.0	1	
005	hck05	X	IB			03/20/13 12:50	1.0	1	
006	hck06	TUN	BFB			03/20/13 13:23	1.0	2	t
007	hck07	TUN	BFB			03/20/13 14:05	1.0	2	
008	hck08	X	IB			03/20/13 14:30	1.0	1	
009	hck09	IB	CALIB			03/20/13 15:07	1.0	1	
010	hck10	ICAL				03/20/13 15:46	1.0	3 4 5 6 1	
011	hck11	ICAL				03/20/13 16:23	1.0	3 4 5 6 1	
012	hck12	ICAL				03/20/13 17:00	1.0	3 4 5 6 1	
013	hck13	ICAL				03/20/13 17:40	1.0	3 4 5 6 1	
014	hck14	ICAL				03/20/13 18:18	1.0	3 4 5 6 1	
015	hck15	ICAL				03/20/13 18:55	1.0	3 4 5 6 1	
016	hck16	ICAL				03/20/13 19:32	1.0	3 4 5 6 1	
017	hck17	ICAL				03/20/13 20:10	1.0	3 4 5 6 1	
018	hck18	ICAL				03/20/13 21:08	1.0	3 4 5 6 1	
019	hck19	ICV				03/20/13 21:54	1.0	7 1	
020	hck20	ICV				03/20/13 22:40	1.0	8 9 1 10	
021	hck21	X	IB			03/20/13 23:28	1.0	1	
022	hck22	X	IB			03/21/13 00:21	1.0	1	

MJB 03/22/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 22.

Analyst: MJB Date: 03/22/13 Reviewer: LW Date: 03/22/13

Standards used: 1=S21822 2=S21369 3=S21889 4=S21576 5=S21635 6=S21908 7=S21932 8=S21957 9=S21915 10=S21791

Flags used: t=tune failure

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 473272638

Instrument : MSVOA08 Begun : 07/08/13 07:58
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	hg801	X	HIGH GASES			07/08/13 07:58	1.0	1	
002	hg802	X	IB			07/08/13 08:36	1.0	1	
003	hg803	TUN	BFB			07/08/13 09:40	1.0	2	
004	hg804	CCV				07/08/13 10:05	1.0	3 4 5 6 1	cc+
005	hg805	CCV/BS	QC696675	Water	200418	07/08/13 10:42	1.0	7 8 9 10 1	
006	hg806	BSD	QC696676	Water	200418	07/08/13 11:20	1.0	7 8 9 10 1	
007	hg807	CCV/BS	QC696677	Water	200418	07/08/13 11:57	1.0	11 1	
008	hg808	BSD	QC696678	Water	200418	07/08/13 12:34	1.0	11 1	
009	hg809	IB				07/08/13 13:10	1.0	1	
010	hg810	BLANK	QC696679	Water	200418	07/08/13 13:47	1.0	1	
011	hg811	LOD	219210-020	Water	200418	07/08/13 14:24	1.0	12 1	
012	hg812	SAMPLE	246655-011	Water	200418	07/08/13 15:00	1.0	1	
013	hg813	SAMPLE	246704-001	Water	200418	07/08/13 15:37	1.0	1	
014	hg814	SAMPLE	246704-002	Water	200418	07/08/13 16:13	1.0	1	
015	hg815	SAMPLE	246704-003	Water	200418	07/08/13 16:50	1.0	1	
016	hg816	SAMPLE	246704-004	Water	200418	07/08/13 17:26	1.0	1	
017	hg817	SAMPLE	246704-005	Water	200418	07/08/13 18:03	1.0	1	
018	hg818	SAMPLE	246655-001	Water	200418	07/08/13 18:39	1.0	1	
019	hg819	SAMPLE	246655-002	Water	200418	07/08/13 19:16	1.0	1	
020	hg820	SAMPLE	246655-005	Water	200418	07/08/13 19:53	1.0	1	spk
021	hg821	SAMPLE	246655-006	Water	200418	07/08/13 20:30	1.0	1	spk
022	hg822	SAMPLE	246706-001	Water	200418	07/08/13 21:06	1.0	1	pH > 2
023	hg823	X	HIGH GAS		200418	07/08/13 21:43	1.0	1	
024	hg824	IB				07/08/13 22:20	200400	1	<<t
025	hg825	IB				07/08/13 22:57	200400	1	<<t

MJB 07/09/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 25.

MJB 07/09/13 : Matrix spikes were not performed for this analysis in batch 200418 due to insufficient sample amount.

Analyst: MJB Date: 07/09/13 Reviewer: LW Date: 07/09/13

Standards used: 1=S22572 2=S22624 3=S21953 4=S22575 5=S22549 6=S21354 7=S22666 8=S22596 9=S22609 10=S22435 11=S22314 12=S22232

Flags used: +=high bias <<t=out of clock cc=CCV CCC failure spk=5% spike rule

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 483147320

Instrument : MSVOA09 Begun : 04/12/13 07:20
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	idc01	X	IB			04/12/13 07:20	1.0	1	
002	idc02	TUN	BFB			04/12/13 08:59	1.0	2	
003	idc03	CCV				04/12/13 09:25	1.0	3 4 5 6 7	cc+ , 80:ETHANOL=73000
004	idc04	BS	QC684032	Water	197328	04/12/13 09:58	1.0	8 9 10 11 7	spk cc+ , 79:ETHANOL=80000
005	idc05	BSD	QC684033	Water	197328	04/12/13 10:31	1.0	8 9 10 11 7	spk cc+ , 79:ETHANOL=190000
008	idc08	IB				04/12/13 11:03	197100	7	
009	idc09	BLANK	QC684034	Water	197328	04/12/13 11:36	1.0	7	cc+
010	idc10	CCV				04/12/13 13:05	1.0	3 4 5 6 7	cc+
011	idc11	TUN	BFB			04/12/13 14:37	1.0	2	
012	idc12	IB				04/12/13 15:05	197200	7	
013	idc13	IB	CALIB			04/12/13 15:40	197200	7	
014	idc14	ICAL				04/12/13 16:14	1.0	5 6 3 4 7	
015	idc15	ICAL				04/12/13 16:49	1.0	5 6 3 4 7	
016	idc16	ICAL				04/12/13 17:23	1.0	5 6 3 4 7	
017	idc17	ICAL				04/12/13 17:58	1.0	5 6 3 4 7	
018	idc18	ICAL				04/12/13 18:32	1.0	5 6 3 4 7	
019	idc19	ICAL				04/12/13 19:06	1.0	5 6 3 4 7	
020	idc20	ICAL				04/12/13 19:41	1.0	5 6 3 4 7	
021	idc21	ICAL				04/12/13 20:15	1.0	5 6 3 4 7	
022	idc22	ICAL				04/12/13 20:50	1.0	5 6 3 4 7	
023	idc23	ICV				04/12/13 21:24	1.0	11 7	
024	idc24	ICV				04/12/13 21:59	1.0	8 9 10 7	
025	idc25	X	IB			04/12/13 22:34	1.0	7	
026	idc26	X	IB			04/12/13 23:08	1.0	7	

MJB 04/17/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 26.

Analyst: MJB Date: 04/17/13 Reviewer: TW Date: 04/17/13

Standards used: 1=S21822 2=S21369 3=S21635 4=S21908 5=S21889 6=S21761 7=S22165 8=S21957 9=S22045 10=S22146 11=S21932

Flags used: +=high bias cc=CCV CCC failure spk=5% spike rule

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 483272623

Instrument : MSVOA09 Begun : 07/08/13 07:43
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	ig801	X	HIGH GASES			07/08/13 07:43	1.0	1	
002	ig802	X	IB			07/08/13 08:17	1.0	1	
003	ig803	TUN	BFB			07/08/13 08:46	1.0	2	
004	ig804	CCV				07/08/13 09:15	1.0	3 4 5 6 1	cc+
005	ig805	CCV/BS	QC696680	Water	200419	07/08/13 09:49	1.0	7 8 9 10 1	
006	ig806	BSD	QC696681	Water	200419	07/08/13 10:22	1.0	7 8 9 10 1	
007	ig807	CCV/BS	QC696682	Water	200419	07/08/13 10:56	1.0	11 1	
008	ig808	BSD	QC696683	Water	200419	07/08/13 11:30	1.0	11 1	
009	ig809	X	IB			07/08/13 12:04	1.0	1	
010	ig810	BLANK	QC696684	Water	200419	07/08/13 12:38	1.0	1	
011	ig811	SAMPLE	246737-001	Water	200419	07/08/13 13:12	1.0	1	
012	ig812	SAMPLE	246633-006	Water	200419	07/08/13 13:46	1.0	1	
013	ig813	SAMPLE	246633-007	Water	200419	07/08/13 14:20	1.0	1	
014	ig814	SAMPLE	246610-018	Water	200419	07/08/13 14:54	1.0	1	
015	ig815	SAMPLE	246610-021	Water	200419	07/08/13 15:28	1.0	1	
016	ig816	SAMPLE	246655-009	Water	200419	07/08/13 16:02	1.0	1	
017	ig817	SAMPLE	246655-008	Water	200419	07/08/13 16:36	2.0	1	
018	ig818	SAMPLE	246655-010	Water	200419	07/08/13 17:10	3.333	1	
019	ig819	SAMPLE	246598-003	Water	200419	07/08/13 17:44	200.0	1	headspace <= 1 mL
020	ig820	SAMPLE	246598-002	Water	200419	07/08/13 18:18	333.3	1	headspace <= 1 mL, pH > 2
021	ig821	SAMPLE	246598-004	Water	200419	07/08/13 18:52	333.3	1	headspace <= 1 mL, pH > 2
022	ig822	SAMPLE	246598-005	Water	200419	07/08/13 19:26	333.3	1	headspace <= 1 mL, pH > 2
023	ig823	SAMPLE	246598-001	Water	200419	07/08/13 19:59	714.3	1	1:ACE=100
024	ig824	X	HIGH GAS		200419	07/08/13 20:33	1.0	1	
025	ig825	IB				07/08/13 21:08	200400	1	<<t
026	ig826	IB				07/08/13 21:42	200400	1	<<t

MJB 07/09/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 26.

MJB 07/09/13 : Matrix spikes were not performed for this analysis in batch 200419 due to insufficient sample amount.

Analyst: MJB Date: 07/09/13 Reviewer: LW Date: 07/09/13

Standards used: 1=S22539 2=S22624 3=S21953 4=S22575 5=S22549 6=S21354 7=S22666 8=S22596 9=S22609 10=S22435 11=S22314

Flags used: +=high bias <<t=out of clock cc=CCV CCC failure

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 943212676

Instrument : MSVOA13 Begun : 05/27/13 16:36
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	mer01	TUN	BFB			05/27/13 16:36	1.0	1	
002	mer02	TUN	BFB			05/27/13 16:54	1.0	1	
003	mer03	TUN	BFB			05/27/13 17:13	1.0	1	
004	mer04	X	IB			05/27/13 17:27	1.0	2	
005	mer05	X	IB			05/27/13 17:55	1.0	2	
006	mer06	X	IB			05/27/13 18:22	1.0	2	
007	mer07	X	IB			05/27/13 18:49	1.0	2	
008	mer08	X	IB			05/27/13 19:17	1.0	2	
009	mer09	X	IB			05/27/13 19:44	1.0	2	
010	mer10	X	IB			05/27/13 20:12	1.0	2	
011	mer11	IB	CALIB			05/27/13 20:39	1.0	2	
012	mer12	ICAL				05/27/13 21:08	1.0	3 4 5 6 2	
013	mer13	ICAL				05/27/13 21:36	1.0	3 4 5 6 2	
014	mer14	ICAL				05/27/13 22:03	1.0	3 4 5 6 2	
015	mer15	ICAL				05/27/13 22:31	1.0	3 4 5 6 2	
016	mer16	ICAL				05/27/13 22:58	1.0	3 4 5 6 2	
017	mer17	ICAL				05/27/13 23:26	1.0	3 4 5 6 2	
018	mer18	ICAL				05/27/13 23:54	1.0	3 4 5 6 2	
019	mer19	ICAL				05/28/13 00:21	1.0	3 4 5 6 2	
020	mer20	ICAL				05/28/13 00:49	1.0	3 4 5 6 2	
021	mer21	ICV	GASES			05/28/13 01:17	1.0	7 2	
022	mer22	ICV				05/28/13 01:44	1.0	8 9 10 2	
023	mer23	X				05/28/13 02:12	1.0	2	
024	mer24	X	IB			05/28/13 02:40	1.0	2	

KKM 05/29/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 24.

Analyst: KKM Date: 05/28/13 Reviewer: LW Date: 05/29/13

Standards used: 1=S21369 2=S22401 3=S21635 4=S22288 5=S22105 6=S21634 7=S22095 8=S22408 9=S22258 10=S22174

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 943270172

Instrument : MSVOA13 Begun : 07/06/13 14:52
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	mg601	X	HIGHGAS/TVH			07/06/13 14:52	1.0	1	
002	mg602	IB				07/06/13 15:19	1.0	1	?t
003	mg603	TUN	BFB			07/06/13 16:12	1.0	2	
004	mg604	CCV	15PPB			07/06/13 16:39	1.0	3 4 5 6 1	cc-
005	mg605	CCV/BS	QC696629	Water	200409	07/06/13 17:07	1.0	7 8 9 10 1	
006	mg606	BSD	QC696630	Water	200409	07/06/13 17:34	1.0	7 8 9 10 1	
007	mg607	IB				07/06/13 18:02	1.0	1	
008	mg608	BLANK	QC696631	Water	200409	07/06/13 18:29	1.0	1	
009	mg609	SAMPLE	246655-011	Water	200409	07/06/13 19:55	1.0	1	
010	mg610	SAMPLE	246633-022	Water	200409	07/06/13 20:23	1.0	1	headspace <= 1 mL
011	mg611	SAMPLE	246633-021	Water	200409	07/06/13 20:50	1.0	1	
012	mg612	SAMPLE	246655-002	Water	200409	07/06/13 21:18	1.0	1	
013	mg613	SAMPLE	246655-004	Water	200409	07/06/13 21:46	1.0	1	
014	mg614	SAMPLE	246655-003	Water	200409	07/06/13 22:13	1.0	1	
015	mg615	SAMPLE	246655-005	Water	200409	07/06/13 22:41	1.0	1	
016	mg616	SAMPLE	246655-006	Water	200409	07/06/13 23:08	1.0	1	
017	mg617	SAMPLE	246655-007	Water	200409	07/06/13 23:36	1.0	1	
018	mg618	SAMPLE	246655-008	Water	200409	07/07/13 00:03	1.0	1	1:TCE=120
019	mg619	SAMPLE	246655-009	Water	200409	07/07/13 00:31	1.0	1	
020	mg620	SAMPLE	246655-010	Water	200409	07/07/13 00:58	1.0	1	
021	mg621	SAMPLE	246733-002	Water	200409	07/07/13 01:26	1.0	1	
022	mg622	SAMPLE	246733-003	Water	200409	07/07/13 01:53	1.0	1	
023	mg623	SAMPLE	246733-004	Water	200409	07/07/13 02:20	1.0	1	2:DCE12C=210
024	mg624	SAMPLE	246733-005	Water	200409	07/07/13 02:48	1.0	1	
025	mg625	SAMPLE	246733-006	Water	200409	07/07/13 03:15	1.0	1	
026	mg626	SAMPLE	246733-007	Water	200409	07/07/13 03:43	1.0	1	3:PCE=170
027	mg627	IB				07/07/13 04:10	1.0	1	
028	mg628	IB				07/07/13 04:38	1.0	1	<<t
029	mg629	IB				07/07/13 05:05	1.0	1	<<t

MCT 07/08/13 : Matrix spikes were not performed for this analysis in batch 200409 due to insufficient sample amount.

MCT 07/08/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 29.

Analyst: MCT Date: 07/08/13 Reviewer: LW Date: 07/08/13

Standards used: 1=S22610 2=S22624 3=S21953 4=S22575 5=S22549 6=S21761 7=S22609 8=S22435 9=S22666 10=S22596

Flags used: -=low bias <<t=out of clock ?t=missing tune cc=CCV CCC failure

Page 1 of 1

MSVOA WATER Prepsheet Curtis & Tompkins, Ltd.

Date: 7-6-13 **Batch #:** 200404

	Sample ID	Vial	pH <2	pH (if >2)	HS?	Dil'n flask	MS# 13	RR	DF	Comments	20 % ccv	hold	due	init date
5 1	246633-21	G	✓						1x					
2	-22	F	✓		<lm				1x	T13				
3	246655-1	A	—							Pulled off				
4	2		✓											
5	3		✓											
6	4		✓											
7	5		✓											
8	6		✓											
9	7		✓											
10	8		✓											
11	9		✓											
12	10		✓											
13	11		✓							T13				
14	246633-2	A	✓						1x	733-2				
15	-3		✓											
16	-4		✓											
17	-5		✓											
18	-6		✓											
19	-7		✓											
20														
21														
22														

MSVOA WATER Prepsheet Curtis & Tompkins, Ltd.

Date: 7/8/13 **Batch #:** 200418

	Sample ID	Vial	pH <2	pH (if >2)	HS?	Dil'n flask	MS# (8)	RR	DF	Comments	20 % ccv	hold	due	init date
1	246704-001	B	✓					1	1x	DBCP + Hex But @ .5 ppb				MB
2	-002		✓											
3	-003		✓											
4	-004		✓											
5	-005		✓											
6	246655-001	B	✓					1	1x					
7	-002		✓					1		Surr ↑ w/ h.7				
8	-005		✓											
9	-006		✓											
10	246655-011		✓							TB co 2-Hex				
11	219210-020	—	—						1x	TVH LOD @ 20ppb				
12	246706-001	B		8					1x	TVH				
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														

MSVOA WATER Prepsheet Curtis & Tompkins, Ltd.

Date: 7/2/13 **Batch #:** 2004189 AB 7/9/13

	Sample ID	Vial	pH <2	pH (if >2)	HS?	Dil'n flask	MS#	RR	DF	Comments	20 % ccv	hold	due	init date
1	246737-001	C	✓				9	1	1x	CID				
2	246698-002	C		11	Bubble	1		1	333x	Ace >LR				ZEA
3	-003	↓	✓		↓	2		↓	200x	↓				↓
4	-004	↓		11	↓	3		↓	333x	Instrument Stopped				↓
5	-005	↓		11	↓	5		↓	333x	↓				↓
6	-001	↓	✓			7		↓	714x	Ace >LR				↓
7	246633-006	C	✓					1	1x	Surr ↑ w/hits				
8	-007	↓	✓					↓	↓	↓				
9	246610-018	E	✓					1	1x	PCE hit w/ ↑ Surr				
10	-021	B	✓					↓	↓	↓				
11	246655-009	B	✓					1	1x	CO + Surr ↑ w/hits				
12	-008	↓	✓					↓	2x	TCE >LR + Surr ↑ w/hits				AB
13	-010	↓	✓					↓	3.3x	VC + cis12DCE >LR				↓
14														
15														
16														
17														
18														
19														
20														
21														
22														

MSVOA WATER Prepsheet

Curtis & Tompkins, Ltd.

Date: 7/10/13

Batch #: 200508

	Sample ID	Vial	pH <2	pH (if >2)	HS?	Dil'n flask	MS#	RR	DF	Comments		20 % ccv	hold	due	init date
4 1	246554-5	C	✓				7	1	1X	LOAD LAST, OD	III		7/11	7/10	
2	246655-1	A	✓					1	1X	BROMOFORM ⊖	III	X		7/9	
5 3	-10	C	✓					2	1X	1 = SUP, 2 = WRONG DF	↓			↓	
4	246716-15	A	✓						1X		III			7/10	
5	-16		✓												
6	-17		✓												
7	-18		✓												
8	-19		✓												
9	-20		✓												
10	-21		✓												
11	-22		✓												
12	-23		—												
13	~~-24~~									MOVED TO WS 14					
14	~~-25~~														
15	~~-27~~														
16	~~-28~~														
17	-26 MS A		✓						1X						
18	-26 MSBC		✓			XI									MS 7/10
19	-26 MSD D														
20	246609-1	B	✓					1	1X	FILAMENT BLEW OUT					
21	-2		✓					1	1X						
22	246753-01	A		6	[illegible]				1X						
	246554-2	C	✓					1	1X	OD - LOAD LAST.	III				

MSVOA WATER Prepsheet Curtis & Tompkins, Ltd.

Date: 7/11/13 **Batch #:** 200508 (MS/MSD b2)

	Sample ID	Vial	pH <2	pH (if >2)	HS?	Dil'n flask	MS#	RR	DF	Comments	20 % ccv	hold	due	init date
6 1	246716-26MSD	E	✓			A1	7	1		QC = 697085, 200508 / out of clock				MEY 4 mi
2	-26MSA,D				20ml					697084 ↓				
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														

MSVOA WATER Prepsheet Curtis & Tompkins, Ltd.

Date: 7/11/13 **Batch #:** 200508 (MS/MSD 1-2) / 200552

	Sample ID	Vial	pH <2	pH (if >2)	HS?	Dil'n flask	MS#	RR	DF	Comments	20 % ccv	hold	due	init date
6 1	246716-26MSD	E	✓			A1	7	1		QC = 697085, 200508 / out of clock				[illegible]
2	-26MSA,D				20ml					697084 ↓				
3	LOD .1 ppb	—	—											
4	.2	—	—											
5	.4	—	—											
6	1	—	—											
7	2	—	—											
8	246871-2	B	✓						1X					[illegible]
9	-3	B	✓											
10	246864-24	A	✓											
11	25		✓											
12	26		✓											
13	27		✓											
14	28		✓											
15	29		✓											
16														
17														
18														
19														
20														
21														
22														

Laboratory Job Number 246655

ANALYTICAL REPORT

Metals

Matrix: Water

Curtis & Tompkins, Ltd.

Chromium

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Sampled:	07/01/13
Matrix:	Water	Received:	07/02/13
Units:	ug/L	Prepared:	07/06/13
Diln Fac:	1.000	Analyzed:	07/08/13
Batch#:	200412		

Field ID	Type	Lab ID	Result	RL	MDL
AST-INF	SAMPLE	246655-001	65	5.0	0.69
AST-EFF	SAMPLE	246655-002	75	5.0	0.69
GAC-02 INF	SAMPLE	246655-003	11	5.0	0.69
GAC-02 EFF	SAMPLE	246655-004	21	5.0	0.69
E-07R	SAMPLE	246655-005	46	5.0	0.69
E-12	SAMPLE	246655-008	36	5.0	0.69
E-17	SAMPLE	246655-009	140	5.0	0.69
E-117	SAMPLE	246655-010	140	5.0	0.69
	BLANK	QC696638	ND	5.0	0.69

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Chromium

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Batch#:	200412
Field ID:	ZZZZZZZZZZ	Sampled:	07/01/13
MSS Lab ID:	246674-001	Received:	07/02/13
Matrix:	Water	Prepared:	07/06/13
Units:	ug/L	Analyzed:	07/08/13
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC696639		200.0	205.6	103	80-120		
BSD	QC696640		200.0	208.6	104	80-120	1	20
MS	QC696641	0.9273	200.0	205.8	102	74-120		
MSD	QC696642		200.0	208.9	104	74-120	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Chromium

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	ZZZZZZZZZZ	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	200412
MSS Lab ID:	246674-001	Sampled:	07/01/13
Lab ID:	QC696643	Received:	07/02/13
Matrix:	Water	Analyzed:	07/08/13

MSS Result	MSS RL	Result	RL	% Diff	Lim
0.9273	5.000	ND	25.00	NC	10

NC= Not Calculated
ND= Not Detected at or above MDL
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Chromium

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
Type:	Post Digest Spike	Batch#:	200412
MSS Lab ID:	246674-001	Sampled:	07/01/13
Lab ID:	QC696644	Received:	07/02/13
Matrix:	Water	Analyzed:	07/08/13

MSS Result	Spiked	Result	%REC	Limits
0.9273	200.0	207.4	103	75-125

REPORTING SUMMARY FOR 246655 METALS Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CR	
246655-001	MET08	07/08/13 21:06	1.0	+	
246655-002	MET08	07/08/13 21:11	1.0	+	
246655-003	MET08	07/08/13 21:17	1.0	+	
246655-004	MET08	07/08/13 21:22	1.0	+	
246655-005	MET08	07/08/13 21:27	1.0	+	
246655-008	MET08	07/08/13 21:32	1.0	+	
246655-009	MET08	07/08/13 21:48	1.0	+	
246655-010	MET08	07/08/13 21:53	1.0	+	
QC696638	MET08	07/08/13 19:52	1.0	+	
QC696639	MET08	07/08/13 19:57	1.0	+	
QC696640	MET08	07/08/13 20:02	1.0	+	
QC696641	MET08	07/08/13 20:12	1.0	+	
QC696642	MET08	07/08/13 20:16	1.0	+	
QC696643	MET08	07/08/13 20:20	5.0	+	
QC696644	MET08	07/08/13 20:25	1.0	+	

ICP Data

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83272541

Instrument : MET08 Begun : 07/08/13 06:21
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	met08_sr_6010	ICALBLK				07/08/13 06:21	1.0		
002	met08_sr_6010	ICAL	CRI5.1			07/08/13 06:26	1.0	1	
003	met08_sr_6010	ICAL	CS100			07/08/13 06:31	1.0	2	
004	met08_sr_6010	ICAL	CS1K			07/08/13 06:35	1.0	3	
005	met08_sr_6010	ICAL	CS10K			07/08/13 06:40	1.0	4	
006	met08_sr_6010	ICAL	CS100K			07/08/13 06:46	1.0	5	
007	met08_sr_6010	ICV				07/08/13 06:51	1.0	6	
008	met08_sr_6010	ICB				07/08/13 06:56	1.0		
009	met08_sr_6010	ICSA				07/08/13 07:02	1.0	7	10:AL=500000
010	met08_sr_6010	ICSAB				07/08/13 07:40	1.0	8	5:AL=500000
011	met08_sr_6010	XCRI				07/08/13 07:45	1.0	9	
012	met08_sr_6010	CRI				07/08/13 07:49	1.0	9	
013	met08_sr_6010	BLANK	QC696620	Water	200406	07/08/13 07:54	1.0		
014	met08_sr_6010	BS	QC696621	Water	200406	07/08/13 07:59	1.0		
015	met08_sr_6010	BSD	QC696622	Water	200406	07/08/13 08:04	1.0		
016	met08_sr_6010	MSS	246621-001	Water	200406	07/08/13 08:09	1.0		
017	met08_sr_6010	MS	QC696623	Water	200406	07/08/13 08:15	1.0		
018	met08_sr_6010	MSD	QC696624	Water	200406	07/08/13 08:20	1.0		
019	met08_sr_6010	SER	QC696625	Water	200406	07/08/13 08:25	5.0		
020	met08_sr_6010	PDS	QC696626	Water	200406	07/08/13 08:30	1.0	10 11	
021	met08_sr_6010	CCV				07/08/13 08:35	1.0	12	
022	met08_sr_6010	CCB				07/08/13 08:41	1.0		
023	met08_sr_6010	SAMPLE	246643-001	Water	200406	07/08/13 08:46	1.0		
024	met08_sr_6010	SAMPLE	246646-001	Water	200406	07/08/13 08:50	1.0		3:MG=1100000
025	met08_sr_6010	SAMPLE	246683-001	Water	200406	07/08/13 08:57	1.0		
026	met08_sr_6010	SAMPLE	246703-001	Water	200406	07/08/13 09:02	1.0		
027	met08_sr_6010	SAMPLE	246703-003	Water	200406	07/08/13 09:07	1.0		
028	met08_sr_6010	SAMPLE	246727-001	Water	200406	07/08/13 09:12	1.0		1:NA=550000
029	met08_sr_6010	SAMPLE	246643-001	Water	200406	07/08/13 09:18	1.0		
030	met08_sr_6010	SAMPLE	246646-001	Water	200406	07/08/13 09:22	1.0		3:MG=1100000
031	met08_sr_6010	CCV				07/08/13 09:29	1.0	12	
032	met08_sr_6010	XCCB				07/08/13 09:35	1.0		
033	met08_sr_6010	CCB				07/08/13 09:39	1.0		
034	met08_sr_6010	ICSAB				07/08/13 09:44	1.0	8	5:AL=500000
035	met08_sr_6010	BLANK	QC696667	Filtrate	200417	07/08/13 09:57	1.0		
036	met08_sr_6010	BS	QC696668	Filtrate	200417	07/08/13 10:02	1.0		
037	met08_sr_6010	BSD	QC696669	Filtrate	200417	07/08/13 10:07	1.0		
038	met08_sr_6010	MSS	246578-005	Filtrate	200417	07/08/13 10:12	1.0		1:NA=120000
039	met08_sr_6010	MS	QC696670	Filtrate	200417	07/08/13 10:16	1.0		1:NA=140000
040	met08_sr_6010	MSD	QC696671	Filtrate	200417	07/08/13 10:20	1.0		
041	met08_sr_6010	SER	QC696672	Filtrate	200417	07/08/13 10:25	5.0		
042	met08_sr_6010	PDS	QC696673	Filtrate	200417	07/08/13 10:30	1.0	10 11	1:NA=140000
043	met08_sr_6010	CCV				07/08/13 10:34	1.0	12	
044	met08_sr_6010	CCB				07/08/13 10:39	1.0		
045	met08_sr_6010	SAMPLE	246505-001	Filtrate	200417	07/08/13 10:44	1.0		
046	met08_sr_6010	SAMPLE	246505-002	Filtrate	200417	07/08/13 10:50	1.0		1:CA=120000
047	met08_sr_6010	SAMPLE	246505-003	Filtrate	200417	07/08/13 10:55	1.0		
048	met08_sr_6010	SAMPLE	246515-001	Filtrate	200417	07/08/13 11:00	1.0		
049	met08_sr_6010	SAMPLE	246578-001	Filtrate	200417	07/08/13 11:05	1.0		2:NA=180000
050	met08_sr_6010	SAMPLE	246578-002	Filtrate	200417	07/08/13 11:09	1.0		2:NA=180000
051	met08_sr_6010	SAMPLE	246578-006	Filtrate	200417	07/08/13 11:14	1.0		1:NA=160000
052	met08_sr_6010	SAMPLE	246578-007	Filtrate	200417	07/08/13 11:19	1.0		3:NA=310000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83272541

Instrument : MET08 Begun : 07/08/13 06:21
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
053	met08_sr_6010	SAMPLE	246578-008	Filtrate	200417	07/08/13 11:23	1.0		1:NA=240000
054	met08_sr_6010	SAMPLE	246578-009	Filtrate	200417	07/08/13 11:28	1.0		2:NA=170000
055	met08_sr_6010	ICSAB				07/08/13 11:33	1.0	8	5:AL=500000
056	met08_sr_6010	CCV				07/08/13 11:39	1.0	12	
057	met08_sr_6010	CCB				07/08/13 11:44	1.0		
058	met08_sr_6010	BLANK	QC696425	Water	200359	07/08/13 11:49	1.0		
059	met08_sr_6010	SAMPLE	246578-010	Filtrate	200417	07/08/13 11:54	1.0		2:NA=140000
060	met08_sr_6010	BLANK	QC696471	Water	200370	07/08/13 12:00	1.0		
061	met08_sr_6010	BS	QC696472	Water	200370	07/08/13 12:05	1.0		
062	met08_sr_6010	BSD	QC696473	Water	200370	07/08/13 12:10	1.0		
063	met08_sr_6010	MSS	246578-005	Water	200370	07/08/13 12:15	1.0		1:NA=120000
064	met08_sr_6010	MS	QC696474	Water	200370	07/08/13 12:19	1.0		1:NA=140000
065	met08_sr_6010	MSD	QC696475	Water	200370	07/08/13 12:25	1.0		1:NA=140000
066	met08_sr_6010	SER	QC696476	Water	200370	07/08/13 12:32	5.0		
067	met08_sr_6010	PDS	QC696477	Water	200370	07/08/13 12:36	1.0	10 11	1:NA=140000
068	met08_sr_6010	CCV				07/08/13 12:42	1.0	12	
069	met08_sr_6010	CCB				07/08/13 12:48	1.0		
070	met08_sr_6010	SAMPLE	246578-001	Water	200370	07/08/13 12:53	1.0		2:NA=200000
071	met08_sr_6010	SAMPLE	246578-002	Water	200370	07/08/13 12:57	1.0		2:NA=190000
072	met08_sr_6010	SAMPLE	246578-003	Water	200370	07/08/13 13:01	1.0		2:NA=160000
073	met08_sr_6010	SAMPLE	246578-006	Water	200370	07/08/13 13:06	1.0		1:NA=170000
074	met08_sr_6010	SAMPLE	246578-007	Water	200370	07/08/13 13:12	1.0		3:NA=310000
075	met08_sr_6010	SAMPLE	246578-008	Water	200370	07/08/13 13:16	1.0		1:NA=260000
076	met08_sr_6010	SAMPLE	246578-009	Water	200370	07/08/13 13:20	1.0		2:NA=180000
077	met08_sr_6010	SAMPLE	246578-010	Water	200370	07/08/13 13:25	1.0		2:NA=140000
078	met08_sr_6010	BLANK	QC696650	Soil	200414	07/08/13 13:30	1.0		
079	met08_sr_6010	SAMPLE	246581-001	Water	200370	07/08/13 13:35	1.0		
080	met08_sr_6010	ICSAB				07/08/13 13:41	1.0	8	5:AL=500000
081	met08_sr_6010	CCV				07/08/13 13:46	1.0	12	
082	met08_sr_6010	CCB				07/08/13 13:51	1.0		
083	met08_sr_6010	SAMPLE	246582-001	Water	200370	07/08/13 13:56	1.0		
084	met08_sr_6010	SAMPLE	246582-002	Water	200370	07/08/13 14:01	1.0		1:NA=100000
085	met08_sr_6010	SAMPLE	246598-001	Water	200370	07/08/13 14:05	1.0		
086	met08_sr_6010	SAMPLE	246598-002	Water	200370	07/08/13 14:10	1.0		
087	met08_sr_6010	SAMPLE	246598-003	Water	200370	07/08/13 14:16	1.0		
088	met08_sr_6010	SAMPLE	246598-004	Water	200370	07/08/13 14:21	1.0		
089	met08_sr_6010	SAMPLE	246598-005	Water	200370	07/08/13 14:26	1.0		1:SN=21000
090	met08_sr_6010	SAMPLE	246613-001	Water	200370	07/08/13 14:31	1.0		3:MG=1200000
091	met08_sr_6010	SAMPLE	246613-002	Water	200370	07/08/13 14:39	1.0		2:MG=330000
092	met08_sr_6010	SAMPLE	246613-003	Water	200370	07/08/13 14:46	1.0		3:MG=830000
093	met08_sr_6010	CCV				07/08/13 14:53	1.0	12	
094	met08_sr_6010	X				07/08/13 14:58	1.0		
095	met08_sr_6010	CCB				07/08/13 15:02	1.0		
096	met08_sr_6010	SAMPLE	246578-008	Filtrate	200417	07/08/13 15:07	1.0		1:NA=240000
097	met08_sr_6010	BLANK	QC696662	Soil	200416	07/08/13 15:13	1.0		
098	met08_sr_6010	BS	QC696663	Soil	200416	07/08/13 15:18	1.0		
099	met08_sr_6010	BSD	QC696664	Soil	200416	07/08/13 15:22	1.0		
100	met08_sr_6010	MSS	246615-003	Soil	200416	07/08/13 15:26	1.0		4:FE=530000
101	met08_sr_6010	MS	QC696665	Soil	200416	07/08/13 15:29	1.0		
102	met08_sr_6010	MSD	QC696666	Soil	200416	07/08/13 15:33	1.0		
103	met08_sr_6010	SAMPLE	246615-001	Soil	200416	07/08/13 15:36	1.0		4:FE=540000
104	met08_sr_6010	SAMPLE	246631-001	Soil	200416	07/08/13 15:39	1.0		4:CA=1400000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83272541

Instrument : MET08 Begun : 07/08/13 06:21
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
105	met08_sr_6010	SAMPLE	246666-001	Soil	200416	07/08/13 15:42	1.0		5:CA=1200000
106	met08_sr_6010	ICSAB				07/08/13 15:46	1.0	8	5:AL=500000
107	met08_sr_6010	CCV				07/08/13 15:51	1.0	12	
108	met08_sr_6010	CCB				07/08/13 15:56	1.0		
109	met08_sr_6010	SAMPLE	246669-001	Miscell.	200416	07/08/13 16:02	1.0		1:FE=130000
110	met08_sr_6010	SAMPLE	246690-001	Soil	200416	07/08/13 16:08	1.0		2:FE=280000
111	met08_sr_6010	SAMPLE	246690-002	Soil	200416	07/08/13 16:11	1.0		2:FE=220000
112	met08_sr_6010	SAMPLE	246690-003	Soil	200416	07/08/13 16:14	1.0		3:FE=290000
113	met08_sr_6010	SAMPLE	246690-004	Soil	200416	07/08/13 16:18	1.0		1:FE=150000
114	met08_sr_6010	SAMPLE	246690-005	Soil	200416	07/08/13 16:22	1.0		2:FE=210000
115	met08_sr_6010	SAMPLE	246690-006	Soil	200416	07/08/13 16:26	1.0		2:FE=330000
116	met08_sr_6010	SAMPLE	246690-007	Soil	200416	07/08/13 16:29	1.0		3:FE=350000
117	met08_sr_6010	SAMPLE	246690-008	Soil	200416	07/08/13 16:32	1.0		4:FE=340000
118	met08_sr_6010	SAMPLE	246690-009	Soil	200416	07/08/13 16:36	1.0		3:FE=320000
119	met08_sr_6010	CCV				07/08/13 16:39	1.0	12	
120	met08_sr_6010	CCB				07/08/13 16:44	1.0		
121	met08_sr_6010	SAMPLE	246690-010	Soil	200416	07/08/13 16:49	1.0		2:FE=320000
122	met08_sr_6010	SAMPLE	246690-011	Soil	200416	07/08/13 16:53	1.0		2:FE=320000
123	met08_sr_6010	SAMPLE	246690-012	Soil	200416	07/08/13 16:56	1.0		2:FE=190000
124	met08_sr_6010	SER	QC696672	Filtrate	200417	07/08/13 17:00	5.0		
125	met08_sr_6010	CCV				07/08/13 17:05	1.0	12	
126	met08_sr_6010	X				07/08/13 17:11	1.0		
127	met08_sr_6010	X				07/08/13 17:14	1.0		
128	met08_sr_6010	ICSAB				07/08/13 17:20	1.0	8	5:AL=510000
129	met08_sr_6010	CCB				07/08/13 18:52	1.0		
130	met08_sr_6010	X	TEST			07/08/13 18:57	1.0		
131	met08_sr_6010	SER	QC696672	Filtrate	200417	07/08/13 19:02	5.0		
132	met08_sr_6010	SAMPLE	246615-001	Soil	200416	07/08/13 19:07	1.0		4:FE=560000
133	met08_sr_6010	SAMPLE	246631-001	Soil	200416	07/08/13 19:10	1.0		4:CA=1400000
134	met08_sr_6010	MSS	246615-003	Soil	200416	07/08/13 19:14	1.0		4:FE=560000
135	met08_sr_6010	SAMPLE	246690-001	Soil	200416	07/08/13 19:17	1.0		2:FE=290000
136	met08_sr_6010	SAMPLE	246690-005	Soil	200416	07/08/13 19:20	1.0		2:FE=220000
137	met08_sr_6010	SAMPLE	246690-006	Soil	200416	07/08/13 19:24	1.0		2:FE=350000
138	met08_sr_6010	SAMPLE	246690-007	Soil	200416	07/08/13 19:28	1.0		3:FE=360000
139	met08_sr_6010	SAMPLE	246690-008	Soil	200416	07/08/13 19:31	1.0		5:FE=360000
140	met08_sr_6010	CCV				07/08/13 19:34	1.0	12	
141	met08_sr_6010	CCB				07/08/13 19:39	1.0		
142	met08_sr_6010	SAMPLE	246690-009	Soil	200416	07/08/13 19:45	1.0		4:FE=330000
143	met08_sr_6010	SAMPLE	246690-011	Soil	200416	07/08/13 19:48	1.0		2:FE=320000
144	met08_sr_6010	BLANK	QC696638	Water	200412	07/08/13 19:52	1.0		
145	met08_sr_6010	BS	QC696639	Water	200412	07/08/13 19:57	1.0		
146	met08_sr_6010	BSD	QC696640	Water	200412	07/08/13 20:02	1.0		
147	met08_sr_6010	MSS	246674-001	Water	200412	07/08/13 20:07	1.0		
148	met08_sr_6010	MS	QC696641	Water	200412	07/08/13 20:12	1.0		
149	met08_sr_6010	MSD	QC696642	Water	200412	07/08/13 20:16	1.0		
150	met08_sr_6010	SER	QC696643	Water	200412	07/08/13 20:20	5.0		
151	met08_sr_6010	PDS	QC696644	Water	200412	07/08/13 20:25	1.0	10 11	
152	met08_sr_6010	ICSAB				07/08/13 20:29	1.0	8	5:AL=510000
153	met08_sr_6010	CCV				07/08/13 20:35	1.0	12	
154	met08_sr_6010	CCB				07/08/13 20:40	1.0		
155	met08_sr_6010	SAMPLE	246539-001	Water	200412	07/08/13 20:45	1.0		4:CA=2200000
156	met08_sr_6010	SAMPLE	246539-002	Water	200412	07/08/13 20:50	1.0		1:B=42000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83272541

Instrument : MET08 Begun : 07/08/13 06:21
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
157	met08_sr_6010	SAMPLE	246539-003	Water	200412	07/08/13 20:55	1.0		1:B=27000
158	met08_sr_6010	SAMPLE	246640-001	Water	200412	07/08/13 21:00	1.0		4:CA=340000
159	met08_sr_6010	SAMPLE	246655-001	Water	200412	07/08/13 21:06	1.0		3:NA=400000
160	met08_sr_6010	SAMPLE	246655-002	Water	200412	07/08/13 21:11	1.0		3:NA=380000
161	met08_sr_6010	SAMPLE	246655-003	Water	200412	07/08/13 21:17	1.0		1:CA=200000
162	met08_sr_6010	SAMPLE	246655-004	Water	200412	07/08/13 21:22	1.0		1:CA=150000
163	met08_sr_6010	SAMPLE	246655-005	Water	200412	07/08/13 21:27	1.0		2:NA=340000
164	met08_sr_6010	SAMPLE	246655-008	Water	200412	07/08/13 21:32	1.0		3:CA=290000
165	met08_sr_6010	CCV				07/08/13 21:37	1.0	12	
166	met08_sr_6010	CCB				07/08/13 21:43	1.0		
167	met08_sr_6010	SAMPLE	246655-009	Water	200412	07/08/13 21:48	1.0		3:CA=400000
168	met08_sr_6010	SAMPLE	246655-010	Water	200412	07/08/13 21:53	1.0		3:CA=390000
169	met08_sr_6010	SAMPLE	246674-002	Water	200412	07/08/13 21:59	1.0		
170	met08_sr_6010	SAMPLE	246674-003	Water	200412	07/08/13 22:04	1.0		
171	met08_sr_6010	SAMPLE	246674-004	Water	200412	07/08/13 22:09	1.0		
172	met08_sr_6010	SAMPLE	246674-005	Water	200412	07/08/13 22:14	1.0		
173	met08_sr_6010	SAMPLE	246701-001	Water	200412	07/08/13 22:19	1.0		
174	met08_sr_6010	SAMPLE	246712-001	Water	200412	07/08/13 22:24	1.0		
175	met08_sr_6010	SAMPLE	246717-001	Water	200412	07/08/13 22:29	1.0		1:NA=170000
176	met08_sr_6010	CCV				07/08/13 22:34	1.0	12	
177	met08_sr_6010	CCB				07/08/13 22:40	1.0		
178	met08_sr_6010	ICSAB				07/08/13 22:45	1.0	8	5:AL=510000

NT 07/08/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 34.

JDB 07/08/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 35 through 129.

PRW 07/11/13 : Runs 130 - 178 were not verified.

Standards used: 1=S22714 2=S22716 3=S22715 4=S22717 5=S22718 6=S22721 7=S22719 8=S22720 9=S22723 10=S21652 11=S21653 12=S22722

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83272541

Date : 07/08/13 Reference : met08_sr_6010
Sequence : MET08 07/08/13 Analyzed : 07/08/13 06:26

#	Type	Sample ID	Y A
		ICAL STD	2567585
		LOWER LIMIT	770275
		UPPER LIMIT	5135169
008	ICB		2642787
009	ICSA		2219112
010	ICSAB		2167131
013	BLANK	QC696620	2725796
014	BS	QC696621	2585357
015	BSD	QC696622	2627307
016	MSS	246621-001	2632178
017	MS	QC696623	2577746
018	MSD	QC696624	2530533
019	SER	QC696625	2570563
020	PDS	QC696626	2545449
021	CCV		2535757
022	CCB		2680808
023	SAMPLE	246643-001	2616613
024	SAMPLE	246646-001	1718581
025	SAMPLE	246683-001	2770793
026	SAMPLE	246703-001	2437134
027	SAMPLE	246703-003	2736509
028	SAMPLE	246727-001	2486193
029	SAMPLE	246643-001	2743243
030	SAMPLE	246646-001	1720533
031	CCV		2595940
033	CCB		2753427
034	ICSAB		2271969
035	BLANK	QC696667	2841222
036	BS	QC696668	2666101
037	BSD	QC696669	2711783
038	MSS	246578-005	2620500
039	MS	QC696670	2581301
040	MSD	QC696671	2559889
041	SER	QC696672	2651606
042	PDS	QC696673	2586192
043	CCV		2626240
044	CCB		2761216
045	SAMPLE	246505-001	2679329
046	SAMPLE	246505-002	2638481
047	SAMPLE	246505-003	2676541
048	SAMPLE	246515-001	2753386
049	SAMPLE	246578-001	2541865
050	SAMPLE	246578-002	2558022
051	SAMPLE	246578-006	2579410
052	SAMPLE	246578-007	2518057
053	SAMPLE	246578-008	2544724
054	SAMPLE	246578-009	2599305
055	ICSAB		2266398
056	CCV		2637095
057	CCB		2779805
058	BLANK	QC696425	2792264

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83272541

Date : 07/08/13 Reference : met08_sr_6010
Sequence : MET08 07/08/13 Analyzed : 07/08/13 06:26

#	Type	Sample ID	Y A
059	SAMPLE	246578-010	2553828
060	BLANK	QC696471	2770105
061	BS	QC696472	2674267
062	BSD	QC696473	2658582
063	MSS	246578-005	2557769
064	MS	QC696474	2545763
065	MSD	QC696475	2537721
066	SER	QC696476	2658726
067	PDS	QC696477	2546924
068	CCV		2666360
069	CCB		2781380
078	BLANK	QC696650	2852244
079	SAMPLE	246581-001	2626166
080	ICSAB		2289157
081	CCV		2608222
082	CCB		2752295
083	SAMPLE	246582-001	2655360
084	SAMPLE	246582-002	2632593
085	SAMPLE	246598-001	2706104
086	SAMPLE	246598-002	2454945
087	SAMPLE	246598-003	2798922
088	SAMPLE	246598-004	2553434
089	SAMPLE	246598-005	2517139
093	CCV		2666110
095	CCB		2798010
096	SAMPLE	246578-008	2519659
097	BLANK	QC696662	2747060
098	BS	QC696663	2592728
099	BSD	QC696664	2644336
100	MSS	246615-003	2667207
101	MS	QC696665	2652036
102	MSD	QC696666	2650909
103	SAMPLE	246615-001	2654551
104	SAMPLE	246631-001	2312608
105	SAMPLE	246666-001	2410564
106	ICSAB		2264223
107	CCV		2662330
108	CCB		2810394
109	SAMPLE	246669-001	2683738
110	SAMPLE	246690-001	2664711
111	SAMPLE	246690-002	2703256
112	SAMPLE	246690-003	2612623
113	SAMPLE	246690-004	2614857
114	SAMPLE	246690-005	2665414
115	SAMPLE	246690-006	2627419
116	SAMPLE	246690-007	2581470
117	SAMPLE	246690-008	2588028
118	SAMPLE	246690-009	2620746
119	CCV		2633935
120	CCB		2744761
121	SAMPLE	246690-010	2624042
122	SAMPLE	246690-011	2649948

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83272541

Date : 07/08/13 Reference : met08_sr_6010
Sequence : MET08 07/08/13 Analyzed : 07/08/13 06:26

#	Type	Sample ID	Y	A
123	SAMPLE	246690-012	2591304	
124	SER	QC696672	8005705	*
125	CCV		2594828	
128	ICSAB		2283999	
129	CCB		2710897	
131	SER	QC696672	2605844	
132	SAMPLE	246615-001	2600046	
133	SAMPLE	246631-001	2273192	
134	MSS	246615-003	2548462	
135	SAMPLE	246690-001	2567912	
136	SAMPLE	246690-005	2622559	
137	SAMPLE	246690-006	2622632	
138	SAMPLE	246690-007	2570653	
139	SAMPLE	246690-008	2563474	
140	CCV		2588256	
141	CCB		2772447	
142	SAMPLE	246690-009	2522080	
143	SAMPLE	246690-011	2541521	
144	BLANK	QC696638	2680648	
145	BS	QC696639	2593181	
146	BSD	QC696640	2588588	
147	MSS	246674-001	2585549	
148	MS	QC696641	2526655	
149	MSD	QC696642	2518923	
150	SER	QC696643	2694006	
151	PDS	QC696644	2521962	
152	ICSAB		2245243	
153	CCV		2570795	
154	CCB		2726615	
155	SAMPLE	246539-001	2102947	
156	SAMPLE	246539-002	2667505	
157	SAMPLE	246539-003	2726455	
158	SAMPLE	246640-001	2226178	
159	SAMPLE	246655-001	2321777	
160	SAMPLE	246655-002	2340432	
161	SAMPLE	246655-003	2437823	
162	SAMPLE	246655-004	2486646	
163	SAMPLE	246655-005	2339546	
164	SAMPLE	246655-008	2339237	
165	CCV		2579780	
166	CCB		2775130	
167	SAMPLE	246655-009	2277133	
168	SAMPLE	246655-010	2286784	
169	SAMPLE	246674-002	2666351	
170	SAMPLE	246674-003	2604963	
171	SAMPLE	246674-004	2637841	
172	SAMPLE	246674-005	2639593	
173	SAMPLE	246701-001	2636249	
175	SAMPLE	246717-001	2533602	
176	CCV		2620282	
177	CCB		2782352	
178	ICSAB		2228845	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 246655 METALS Water: EPA 6010B

Inst : MET08 Reviewer : ---
Calnum : 83272541001 Date : 08-JUL-2013 06:21
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	met08_sr_6010	83272541002	CRI5.1	08-JUL-2013 06:26	S22714
L2	met08_sr_6010	83272541003	CS100	08-JUL-2013 06:31	S22716
L3	met08_sr_6010	83272541004	CS1K	08-JUL-2013 06:35	S22715
L4	met08_sr_6010	83272541005	CS10K	08-JUL-2013 06:40	S22717
L5	met08_sr_6010	83272541006	CS100K	08-JUL-2013 06:46	S22718

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Chromium	A	88.380	85.692	85.113	86.325		LOR0	0.00000	0.01159		86.377	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Chromium	A	5.0000	2	100.00	-1	1000.0	-1	10000	0		

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 246655 METALS Water
EPA 6010B

Inst : MET08
Calnum : 83272541001 Cal Date : 08-JUL-2013

ICV 83272541007 (08-JUL-2013) stds: S22721

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Chromium	A	5000	4927	ug/L	-1	10	

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR 246655 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83272541009.2 File : met08_sr_6010 Time : 08-JUL-2013 07:02
Cal : 83272541001 Caldate : 08-JUL-2013
Standards: S22719

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19280	ug/L	96
Copper	A	20000	19710	ug/L	99
Manganese	A	20000	18100	ug/L	90
Nickel	A	20000	17710	ug/L	89
Vanadium	A	20000	19780	ug/L	99
Aluminum	R	500000	500800	ug/L	100
Calcium	R	500000	492200	ug/L	98
Iron	R	200000	190600	ug/L	95
Magnesium	R	500000	494900	ug/L	99
Titanium	R	20000	21510	ug/L	108

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2567585	2219112	-13.57

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 246655 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83272541128 File : met08_sr_6010 Time : 08-JUL-2013 17:20
Cal : 83272541001 Caldate : 08-JUL-2013
Standards: S22720

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	498.7	ug/L	0	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2567585	2283999	-11.04

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 246655 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83272541140 File : met08_sr_6010 Time : 08-JUL-2013 19:34
Cal : 83272541001 Caldate : 08-JUL-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	86.377	85.887	5000	4975	ug/L	0	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2567585	2588256	0.81

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 246655 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83272541141 File : met08_sr_6010 Time : 08-JUL-2013 19:39
Cal : 83272541001 Caldate : 08-JUL-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2567585	2772447	7.98

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 246655 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83272541152 File : met08_sr_6010 Time : 08-JUL-2013 20:29
Cal : 83272541001 Caldate : 08-JUL-2013
Standards: S22720

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	501.3	ug/L	0	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2567585	2245243	-12.55

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 246655 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83272541153 File : met08_sr_6010 Time : 08-JUL-2013 20:35
Cal : 83272541001 Caldate : 08-JUL-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	86.377	85.762	5000	4968	ug/L	-1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2567585	2570795	0.13

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 246655 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83272541154 File : met08_sr_6010 Time : 08-JUL-2013 20:40
Cal : 83272541001 Caldate : 08-JUL-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2567585	2726615	6.19

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 246655 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83272541165 File : met08_sr_6010 Time : 08-JUL-2013 21:37
Cal : 83272541001 Caldate : 08-JUL-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	86.377	84.065	5000	4870	ug/L	-3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2567585	2579780	0.47

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 246655 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83272541166 File : met08_sr_6010 Time : 08-JUL-2013 21:43
Cal : 83272541001 Caldate : 08-JUL-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2567585	2775130	8.08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 246655 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83272541176 File : met08_sr_6010 Time : 08-JUL-2013 22:34
Cal : 83272541001 Caldate : 08-JUL-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	86.377	82.461	5000	4777	ug/L	-4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2567585	2620282	2.05

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 246655 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83272541177 File : met08_sr_6010 Time : 08-JUL-2013 22:40
Cal : 83272541001 Caldate : 08-JUL-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2567585	2782352	8.36

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 246655 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83272541178 File : met08_sr_6010 Time : 08-JUL-2013 22:45
Cal : 83272541001 Caldate : 08-JUL-2013
Standards: S22720

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	490.6	ug/L	-2	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2567585	2228845	-13.19

SAMPLE PREPARATION SUMMARY

Batch # : 200412 Analysis : ICAP
Started By : MRN Prep Date : 06-JUL-2013 04:25 Finished By : MRN
Method : 3010A SOP Version : 3010A_icp_rv15 Units : mL
Spike #1 ID : S21652 Spike #2 ID : S21653

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
246539-001		Water	50	50	1	1.0						SE	
246539-002		Water	50	50	1	1.0						SE	
246539-003		Water	50	50	1	1.0						SE	
246640-001		Water	50	50	1	1.0						T22/ICP	
246655-001		Water	50	50	1	1.0						CR	
246655-002		Water	50	50	1	1.0						CR	
246655-003		Water	50	50	1	1.0						CR	
246655-004		Water	50	50	1	1.0						CR	
246655-005		Water	50	50	1	1.0						CR	
246655-008		Water	50	50	1	1.0						CR	
246655-009		Water	50	50	1	1.0						CR	
246655-010		Water	50	50	1	1.0						CR	
246674-001		Water	50	50	1	1.0						T22/ICP	
246674-002		Water	50	50	1	1.0						T22/ICP	
246674-003		Water	50	50	1	1.0						T22/ICP	
246674-004		Water	50	50	1	1.0						T22/ICP	
246674-005		Water	50	50	1	1.0						T22/ICP	
246701-001		Water	50	50	1	1.0						T22/ICP	
246712-001		Water	50	50	1	1.0						HARDNESS	
246717-001		Water	50	50	1	1.0						T22/ICP	
QC696638	BLANK	Water	50	50	1	1.0							
QC696639	BS	Water	50	50	1	1.0		.5	.5				
QC696640	BSD	Water	50	50	1	1.0		.5	.5				
QC696641	MS	Water	50	50	1	1.0		.5	.5				
QC696642	MSD	Water	50	50	1	1.0		.5	.5				
QC696643	SER	Water	50	50	1	1.0							
QC696644	PDS	Water	50	50	1	1.0							

Analyst: NT Date: 07/09/13 Reviewer: PRW Date: 07/09/13

Water Digestion for ICP

Curtis & Tompkins, Ltd.

LIMS Batch #: 200412
Digested by: MN
Date Digested: 7/6/13

Digestion Method
☑ EPA 3010a for ICP
☐ EPA 200.7
☐ _____

BK3443
Page 50

Lvl.	Sample #	Container ID	Volume Sample(mL)	Final Volume (mL)	Filtered? (y/n)	ID Π	Comments
	BLK		50	50	Y		
	BS		50	50			
	BSD		50	50			
III	246674-001	A	50	50			
5	-001 MS		50	50			
	-001 MSD		50	50			
	-002		50	50	N		
	-003		50	50			
	-004		50	50			
10	-005		50	50			
	246655-001	D	50	50			
	-002		50	50			
	-003		50	50			
	-004		50	50			
15	-005		50	50			
	-008		50	50			
	-009		50	50			
	-010		50	50			
II	246539-001	A	50	50			
20	-002		50	50			
	-003		50	50			
	246712-001	A	50	50			
	246717-001	D	50	50			
	246701-001	A	50	50			pH verified SA 7/6/13
	246610-001		50	50	y		

	Reagent ID or LIMS #		Initials / Date
Digestion tubes, lot #	600090		MN 6/6/13
.5 mL of spike solution (Std1) was added to all spikes	522653		
.5 mL of spike solution (Std2) was added to all spikes	521653		
Digestion Temperature (°C), Block and Probe Location	95° D	22	
digestion begun at (time)	4:25pm		
1:1 HCl	K24090		
concentrated HNO3	21587		
digestion ended at (time)	10:00pm		
☑ filtered thru' Whatman # 541	9486353		
Relinquished to ICP group	TEAP		

Prep Chemist / Date 7/6/13

Continued from page ∅.
Continued on page ∅.

Reviewed by / Date

Laboratory Job Number 246655

ANALYTICAL REPORT

Metals

Matrix: Filtrate

Curtis & Tompkins, Ltd.

Dissolved Chromium

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	METHOD
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Sampled:	07/01/13
Matrix:	Filtrate	Received:	07/02/13
Units:	ug/L	Prepared:	07/09/13
Diln Fac:	1.000	Analyzed:	07/09/13
Batch#:	200491		

Field ID	Type	Lab ID	Result	RL	MDL
AST-INF	SAMPLE	246655-001	63	5.0	0.69
AST-EFF	SAMPLE	246655-002	59	5.0	0.69
GAC-02 INF	SAMPLE	246655-003	9.6	5.0	0.69
GAC-02 EFF	SAMPLE	246655-004	11	5.0	0.69
E-07R	SAMPLE	246655-005	18	5.0	0.69
E-12	SAMPLE	246655-008	1.0 J	5.0	0.69
E-17	SAMPLE	246655-009	140	5.0	0.69
E-117	SAMPLE	246655-010	130	5.0	0.69
	BLANK	QC696947	ND	5.0	0.69

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Chromium

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	METHOD
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Batch#:	200491
Field ID:	AST-INF	Sampled:	07/01/13
MSS Lab ID:	246655-001	Received:	07/02/13
Matrix:	Filtrate	Prepared:	07/09/13
Units:	ug/L	Analyzed:	07/09/13
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC696948		200.0	202.7	101	80-120		
BSD	QC696949		200.0	197.3	99	80-120	3	20
MS	QC696950	63.47	200.0	270.0	103	74-120		
MSD	QC696951		200.0	250.1	93	74-120	8	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Chromium

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	METHOD
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	AST-INF	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	200491
MSS Lab ID:	246655-001	Sampled:	07/01/13
Lab ID:	QC696952	Received:	07/02/13
Matrix:	Filtrate	Analyzed:	07/09/13

MSS Result	MSS RL	Result	RL	% Diff	Lim
63.47	5.000	62.83	25.00	1	10

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Chromium

Lab #:	246655	Location:	PGAS
Client:	Haley & Aldrich	Prep:	METHOD
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	AST-INF	Diln Fac:	1.000
Type:	Post Digest Spike	Batch#:	200491
MSS Lab ID:	246655-001	Sampled:	07/01/13
Lab ID:	QC696953	Received:	07/02/13
Matrix:	Filtrate	Analyzed:	07/09/13

MSS Result	Spiked	Result	%REC	Limits
63.47	200.0	263.1	100	75-125

REPORTING SUMMARY FOR 246655 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CR	
246655-001	MET08	07/09/13 16:37	1.0	+	
246655-002	MET08	07/09/13 17:14	1.0	+	
246655-003	MET08	07/09/13 17:19	1.0	+	
246655-004	MET08	07/09/13 17:24	1.0	+	
246655-005	MET08	07/09/13 17:29	1.0	+	
246655-008	MET08	07/09/13 17:35	1.0	+	
246655-009	MET08	07/09/13 17:40	1.0	+	
246655-010	MET08	07/09/13 17:45	1.0	+	
QC696947	MET08	07/09/13 16:22	1.0	+	
QC696948	MET08	07/09/13 16:27	1.0	+	
QC696949	MET08	07/09/13 16:32	1.0	+	
QC696950	MET08	07/09/13 16:42	1.0	+	
QC696951	MET08	07/09/13 16:48	1.0	+	
QC696952	MET08	07/09/13 16:53	5.0	+	
QC696953	MET08	07/09/13 17:09	1.0	+	

ICP Data

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83274015

Instrument : MET08 Begun : 07/09/13 06:55
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	met08_sr_6010	ICALBLK				07/09/13 06:55	1.0		
002	met08_sr_6010	ICAL	CRI5.1			07/09/13 07:00	1.0	1	
003	met08_sr_6010	ICAL	CS100			07/09/13 07:05	1.0	2	
004	met08_sr_6010	ICAL	CS1K			07/09/13 07:10	1.0	3	
005	met08_sr_6010	ICAL	CS10K			07/09/13 07:15	1.0	4	
006	met08_sr_6010	ICAL	CS100K			07/09/13 07:20	1.0	5	
007	met08_sr_6010	ICV				07/09/13 07:26	1.0	6	
008	met08_sr_6010	ICB				07/09/13 07:31	1.0		
009	met08_sr_6010	ICSA				07/09/13 07:36	1.0	7	10:AL=500000
010	met08_sr_6010	ICSAB				07/09/13 07:53	1.0	8	5:AL=510000
011	met08_sr_6010	CRI				07/09/13 07:59	1.0	9	
012	met08_sr_6010	BLANK	QC696807	Soil	200456	07/09/13 08:05	1.0		
013	met08_sr_6010	BS	QC696808	Soil	200456	07/09/13 08:10	1.0		
014	met08_sr_6010	BSD	QC696809	Soil	200456	07/09/13 08:14	1.0		
015	met08_sr_6010	MSS	246673-001	Soil	200456	07/09/13 08:19	1.0		6:CA=1400000
016	met08_sr_6010	MSS	246673-001	Soil	200456	07/09/13 08:24	1.0		6:CA=1400000
017	met08_sr_6010	MS	QC696810	Soil	200456	07/09/13 08:29	1.0		6:CA=1500000
018	met08_sr_6010	MSD	QC696811	Soil	200456	07/09/13 08:35	1.0		6:CA=1500000
019	met08_sr_6010	SER	QC696812	Soil	200456	07/09/13 08:40	5.0		
020	met08_sr_6010	PDS	QC696813	Soil	200456	07/09/13 08:44	1.0	10 11	1:CA=1300000
021	met08_sr_6010	CCV				07/09/13 08:49	1.0	12	
022	met08_sr_6010	CCB				07/09/13 08:55	1.0		
023	met08_sr_6010	SAMPLE	246673-002	Soil	200456	07/09/13 09:00	1.0		4:CA=1000000
024	met08_sr_6010	SAMPLE	246673-003	Soil	200456	07/09/13 09:05	1.0		5:CA=1200000
025	met08_sr_6010	SAMPLE	246680-001	Soil	200456	07/09/13 09:11	1.0		6:FE=560000
026	met08_sr_6010	SAMPLE	246680-003	Soil	200456	07/09/13 09:14	1.0		6:FE=520000
027	met08_sr_6010	SAMPLE	246680-004	Soil	200456	07/09/13 09:18	1.0		4:FE=430000
028	met08_sr_6010	SAMPLE	246680-006	Soil	200456	07/09/13 09:21	1.0		4:FE=410000
029	met08_sr_6010	SAMPLE	246680-008	Soil	200456	07/09/13 09:24	1.0		3:FE=470000
030	met08_sr_6010	SAMPLE	246680-011	Soil	200456	07/09/13 09:27	1.0		3:FE=590000
031	met08_sr_6010	SAMPLE	246684-006	Soil	200456	07/09/13 09:31	1.0		6:FE=710000
032	met08_sr_6010	SAMPLE	246722-001	Soil	200456	07/09/13 09:34	1.0		3:FE=380000
033	met08_sr_6010	ICSAB				07/09/13 09:37	1.0	8	5:AL=510000
034	met08_sr_6010	CCV				07/09/13 09:43	1.0	12	
035	met08_sr_6010	CCB				07/09/13 09:48	1.0		
036	met08_sr_6010	SAMPLE	246758-013	Soil	200456	07/09/13 09:53	1.0		5:FE=410000
037	met08_sr_6010	SAMPLE	246758-014	Soil	200456	07/09/13 09:56	1.0		4:CA=350000
038	met08_sr_6010	SAMPLE	246758-015	Soil	200456	07/09/13 10:00	1.0		3:CA=660000
039	met08_sr_6010	SAMPLE	246764-001	Soil	200456	07/09/13 10:03	1.0		4:FE=210000
040	met08_sr_6010	SAMPLE	246764-002	Soil	200456	07/09/13 10:06	1.0		2:FE=220000
041	met08_sr_6010	SAMPLE	246765-001	Soil	200456	07/09/13 10:09	1.0		5:FE=600000
042	met08_sr_6010	SAMPLE	246684-006	Soil	200456	07/09/13 10:15	1.0		6:FE=710000
043	met08_sr_6010	SAMPLE	246766-001	Soil	200456	07/09/13 10:18	1.0		5:FE=500000
044	met08_sr_6010	SAMPLE	246686-001	Miscell.	200456	07/09/13 10:21	10.0		1:CR=40000
045	met08_sr_6010	SAMPLE	246686-002	Miscell.	200456	07/09/13 10:26	10.0		
046	met08_sr_6010	CCV				07/09/13 10:31	1.0	12	
047	met08_sr_6010	CCB				07/09/13 10:37	1.0		
048	met08_sr_6010	SAMPLE	246673-002	Soil	200456	07/09/13 10:42	1.0		4:CA=1000000
049	met08_sr_6010	SAMPLE	246713-001	Water	200457	07/09/13 10:47	1.0		10:CA=3000000
050	met08_sr_6010	SAMPLE	246673-003	Soil	200456	07/09/13 10:53	1.0		5:CA=1200000
051	met08_sr_6010	SAMPLE	246680-008	Soil	200456	07/09/13 10:58	1.0		3:FE=470000
052	met08_sr_6010	SAMPLE	246722-001	Soil	200456	07/09/13 11:02	1.0		3:FE=380000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83274015

Instrument : MET08 Begun : 07/09/13 06:55
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
053	met08_sr_6010	SAMPLE	246758-013	Soil	200456	07/09/13 11:05	1.0		5:FE=410000
054	met08_sr_6010	SAMPLE	246758-014	Soil	200456	07/09/13 11:08	1.0		4:CA=350000
055	met08_sr_6010	SAMPLE	246758-015	Soil	200456	07/09/13 11:11	1.0		3:CA=650000
056	met08_sr_6010	SAMPLE	246764-001	Soil	200456	07/09/13 11:15	1.0		3:FE=210000
057	met08_sr_6010	SAMPLE	246765-001	Soil	200456	07/09/13 11:18	1.0		5:FE=590000
058	met08_sr_6010	ICSAB				07/09/13 11:23	1.0	8	5:AL=500000
059	met08_sr_6010	CCV				07/09/13 11:28	1.0	12	
060	met08_sr_6010	CCB				07/09/13 11:34	1.0		
061	met08_sr_6010	SAMPLE	246766-001	Soil	200456	07/09/13 11:39	1.0		5:FE=490000
062	met08_sr_6010	SAMPLE	246686-001	Miscell.	200456	07/09/13 11:42	1.0		
063	met08_sr_6010	SAMPLE	246686-002	Miscell.	200456	07/09/13 11:47	1.0		
064	met08_sr_6010	CCV				07/09/13 11:53	1.0	12	
065	met08_sr_6010	CCB				07/09/13 11:58	1.0		
066	met08_sr_6010	ICSAB				07/09/13 12:03	1.0	8	5:MG=490000
067	met08_sr_6010	MSS	246673-001	Soil	200456	07/09/13 12:23	100.0		
068	met08_sr_6010	SER	QC696812	Soil	200456	07/09/13 12:29	500.0		
069	met08_sr_6010	PDS	QC696813	Soil	200456	07/09/13 12:34	100.0	10 11	
070	met08_sr_6010	SAMPLE	246673-002	Soil	200456	07/09/13 12:38	1.0		4:CA=1100000
071	met08_sr_6010	SAMPLE	246673-002	Soil	200456	07/09/13 12:43	100.0		
072	met08_sr_6010	SAMPLE	246673-003	Soil	200456	07/09/13 12:48	100.0		
073	met08_sr_6010	SAMPLE	246680-004	Soil	200456	07/09/13 12:53	1.0		5:FE=430000
074	met08_sr_6010	SAMPLE	246680-006	Soil	200456	07/09/13 12:58	1.0		4:FE=410000
075	met08_sr_6010	SAMPLE	246680-008	Soil	200456	07/09/13 13:01	100.0		
076	met08_sr_6010	CCV				07/09/13 13:06	1.0	12	
077	met08_sr_6010	XCCB				07/09/13 13:11	1.0		
078	met08_sr_6010	CCB				07/09/13 13:15	1.0		
079	met08_sr_6010	ICSAB				07/09/13 13:20	1.0	8	5:MG=490000
080	met08_sr_6010	SER	QC696812	Soil	200456	07/09/13 16:19	5.0		
081	met08_sr_6010	BLANK	QC696947	Filtrate	200491	07/09/13 16:22	1.0		
082	met08_sr_6010	BS	QC696948	Filtrate	200491	07/09/13 16:27	1.0		
083	met08_sr_6010	BSD	QC696949	Filtrate	200491	07/09/13 16:32	1.0		
084	met08_sr_6010	MSS	246655-001	Filtrate	200491	07/09/13 16:37	1.0		3:NA=360000
085	met08_sr_6010	MS	QC696950	Filtrate	200491	07/09/13 16:42	1.0		
086	met08_sr_6010	MSD	QC696951	Filtrate	200491	07/09/13 16:48	1.0		
087	met08_sr_6010	SER	QC696952	Filtrate	200491	07/09/13 16:53	5.0		
088	met08_sr_6010	CCV				07/09/13 16:58	1.0	12	
089	met08_sr_6010	CCB				07/09/13 17:03	1.0		
090	met08_sr_6010	PDS	QC696953	Filtrate	200491	07/09/13 17:09	1.0	13 14	
091	met08_sr_6010	SAMPLE	246655-002	Filtrate	200491	07/09/13 17:14	1.0		3:NA=360000
092	met08_sr_6010	SAMPLE	246655-003	Filtrate	200491	07/09/13 17:19	1.0		1:CA=190000
093	met08_sr_6010	SAMPLE	246655-004	Filtrate	200491	07/09/13 17:24	1.0		1:CA=190000
094	met08_sr_6010	SAMPLE	246655-005	Filtrate	200491	07/09/13 17:29	1.0		2:NA=310000
095	met08_sr_6010	SAMPLE	246655-008	Filtrate	200491	07/09/13 17:35	1.0		3:CA=280000
096	met08_sr_6010	SAMPLE	246655-009	Filtrate	200491	07/09/13 17:40	1.0		3:CA=390000
097	met08_sr_6010	SAMPLE	246655-010	Filtrate	200491	07/09/13 17:45	1.0		3:CA=390000
098	met08_sr_6010	CCV				07/09/13 17:50	1.0	12	
099	met08_sr_6010	CCB				07/09/13 17:56	1.0		
100	met08_sr_6010	ICSAB				07/09/13 18:01	1.0	8	5:MG=500000

NT 07/10/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 100.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83274015

Instrument : MET08 Begun : 07/09/13 06:55
Method : EPA 6010B SOP Version : icp metals_rv9

JDB 07/09/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 67 through 79.

Standards used: 1=S22714 2=S22716 3=S22715 4=S22717 5=S22718 6=S22721 7=S22719 8=S22720 9=S22723 10=S22594 11=S22595 12=S22722 13=S21652 14=S21653

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83274015

Date : 07/09/13 Reference : met08_sr_6010
Sequence : MET08 07/09/13 Analyzed : 07/09/13 07:00

#	Type	Sample ID	Y A
		ICAL STD	2516564
		LOWER LIMIT	754969
		UPPER LIMIT	5033128
008	ICB		2598102
009	ICSA		2148560
010	ICSAB		2116488
012	BLANK	QC696807	2649801
013	BS	QC696808	2503144
014	BSD	QC696809	2506358
015	MSS	246673-001	2282489
016	MSS	246673-001	2283601
017	MS	QC696810	2270376
018	MSD	QC696811	2305945
019	SER	QC696812	2408470
020	PDS	QC696813	2257711
021	CCV		2545556
022	CCB		2606777
023	SAMPLE	246673-002	2387815
024	SAMPLE	246673-003	2320671
025	SAMPLE	246680-001	2634423
026	SAMPLE	246680-003	2469490
027	SAMPLE	246680-004	2601982
028	SAMPLE	246680-006	2586071
029	SAMPLE	246680-008	2768740
030	SAMPLE	246680-011	2717719
031	SAMPLE	246684-006	2613038
032	SAMPLE	246722-001	2577091
033	ICSAB		2226493
034	CCV		2579746
035	CCB		2686227
036	SAMPLE	246758-013	2582744
037	SAMPLE	246758-014	2505207
038	SAMPLE	246758-015	2464369
039	SAMPLE	246764-001	2489714
040	SAMPLE	246764-002	2491510
041	SAMPLE	246765-001	2661927
042	SAMPLE	246684-006	2569259
043	SAMPLE	246766-001	2555412
044	SAMPLE	246686-001	2653305
045	SAMPLE	246686-002	2669484
046	CCV		2541968
047	CCB		2671893
048	SAMPLE	246673-002	2369734
049	SAMPLE	246713-001	2257586
050	SAMPLE	246673-003	2364008
051	SAMPLE	246680-008	2840232
052	SAMPLE	246722-001	2626413
053	SAMPLE	246758-013	2541910
054	SAMPLE	246758-014	2587373
055	SAMPLE	246758-015	2526609
056	SAMPLE	246764-001	2513071

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83274015

Date : 07/09/13 Reference : met08_sr_6010
Sequence : MET08 07/09/13 Analyzed : 07/09/13 07:00

#	Type	Sample ID	Y A
057	SAMPLE	246765-001	2669797
058	ICSAB		2246132
059	CCV		2593337
060	CCB		2660472
061	SAMPLE	246766-001	2551889
062	SAMPLE	246686-001	2565003
063	SAMPLE	246686-002	2744776
064	CCV		2572922
065	CCB		2685798
066	ICSAB		2267369
067	MSS	246673-001	2671652
068	SER	QC696812	2695320
069	PDS	QC696813	2586581
070	SAMPLE	246673-002	2387277
071	SAMPLE	246673-002	2650524
072	SAMPLE	246673-003	2692259
073	SAMPLE	246680-004	2608100
074	SAMPLE	246680-006	2611585
075	SAMPLE	246680-008	2720313
076	CCV		2592374
078	CCB		2697888
079	ICSAB		2232696
080	SER	QC696812	2426449
081	BLANK	QC696947	2760206
082	BS	QC696948	2605506
083	BSD	QC696949	2636214
084	MSS	246655-001	2385047
085	MS	QC696950	2384732
086	MSD	QC696951	2343251
087	SER	QC696952	2535873
088	CCV		2566664
089	CCB		2689259
090	PDS	QC696953	2336982
091	SAMPLE	246655-002	2384894
092	SAMPLE	246655-003	2477823
093	SAMPLE	246655-004	2486468
094	SAMPLE	246655-005	2336475
095	SAMPLE	246655-008	2394583
096	SAMPLE	246655-009	2349951
097	SAMPLE	246655-010	2330906
098	CCV		2560410
099	CCB		2635289
100	ICSAB		2226402

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 246655 METALS Filtrate: EPA 6010B

Inst : MET08 Reviewer : ---
Calnum : 83274015001 Date : 09-JUL-2013 06:55
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	met08_sr_6010	83274015002	CRI5.1	09-JUL-2013 07:00	S22714
L2	met08_sr_6010	83274015003	CS100	09-JUL-2013 07:05	S22716
L3	met08_sr_6010	83274015004	CS1K	09-JUL-2013 07:10	S22715
L4	met08_sr_6010	83274015005	CS10K	09-JUL-2013 07:15	S22717
L5	met08_sr_6010	83274015006	CS100K	09-JUL-2013 07:20	S22718

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Chromium	A	87.240	86.391	84.715	82.822		LOR0	0.00000	0.01207		85.292	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Chromium	A	5.0000	5	100.00	4	1000.0	2	10000	0		

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 246655 METALS Filtrate
EPA 6010B

Inst : MET08
Calnum : 83274015001 Cal Date : 09-JUL-2013

ICV 83274015007 (09-JUL-2013) stds: S22721

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Chromium	A	5000	4999	ug/L	0	10	

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR 246655 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83274015009 File : met08_sr_6010 Time : 09-JUL-2013 07:36
Cal : 83274015001 Caldate : 09-JUL-2013
Standards: S22719

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19620	ug/L	98
Copper	A	20000	20630	ug/L	103
Manganese	A	20000	18300	ug/L	92
Nickel	A	20000	18010	ug/L	90
Vanadium	A	20000	20120	ug/L	101
Aluminum	R	500000	499600	ug/L	100
Calcium	R	500000	477900	ug/L	96
Iron	R	200000	189500	ug/L	95
Magnesium	R	500000	490900	ug/L	98
Titanium	R	20000	21210	ug/L	106

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2516564	2148560	-14.62

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 246655 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83274015076 File : met08_sr_6010 Time : 09-JUL-2013 13:06
Cal : 83274015001 Caldate : 09-JUL-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	85.292	84.274	5000	5086	ug/L	2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2516564	2592374	3.01

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 246655 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83274015078 File : met08_sr_6010 Time : 09-JUL-2013 13:15
Cal : 83274015001 Caldate : 09-JUL-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2516564	2697888	7.21

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 246655 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83274015079 File : met08_sr_6010 Time : 09-JUL-2013 13:20
Cal : 83274015001 Caldate : 09-JUL-2013
Standards: S22720

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	502.2	ug/L	0	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2516564	2232696	-11.28

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 246655 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83274015088 File : met08_sr_6010 Time : 09-JUL-2013 16:58
Cal : 83274015001 Caldate : 09-JUL-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	85.292	82.155	5000	4959	ug/L	-1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2516564	2566664	1.99

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 246655 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83274015089 File : met08_sr_6010 Time : 09-JUL-2013 17:03
Cal : 83274015001 Caldate : 09-JUL-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2516564	2689259	6.86

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 246655 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83274015098 File : met08_sr_6010 Time : 09-JUL-2013 17:50
Cal : 83274015001 Caldate : 09-JUL-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	85.292	81.667	5000	4929	ug/L	-1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2516564	2560410	1.74

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 246655 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83274015099 File : met08_sr_6010 Time : 09-JUL-2013 17:56
Cal : 83274015001 Caldate : 09-JUL-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2516564	2635289	4.72

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 246655 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83274015100 File : met08_sr_6010 Time : 09-JUL-2013 18:01
Cal : 83274015001 Caldate : 09-JUL-2013
Standards: S22720

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	504.6	ug/L	1	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2516564	2226402	-11.53

SAMPLE PREPARATION SUMMARY

Batch # : 200491
Started By : JDB
Method : METHOD
Spike #1 ID : S21652

Prep Date : 09-JUL-2013 15:00
Spike #2 ID : S21653

Analysis : ICAP
Finished By : JDB
Units : mL

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
246655-001		Filtrate	50	50	1	1.0						CR	
246655-002		Filtrate	50	50	1	1.0						CR	
246655-003		Filtrate	50	50	1	1.0						CR	
246655-004		Filtrate	50	50	1	1.0						CR	
246655-005		Filtrate	50	50	1	1.0						CR	
246655-008		Filtrate	50	50	1	1.0						CR	
246655-009		Filtrate	50	50	1	1.0						CR	
246655-010		Filtrate	50	50	1	1.0						CR	
QC696947	BLANK	Filtrate	50	50	1	1.0							
QC696948	BS	Filtrate	50	50	1	1.0		.5	.5				
QC696949	BSD	Filtrate	50	50	1	1.0		.5	.5				
QC696950	MS	Filtrate	50	50	1	1.0		.5	.5				
QC696951	MSD	Filtrate	50	50	1	1.0		.5	.5				
QC696952	SER	Filtrate	50	50	1	1.0							
QC696953	PDS	Filtrate	50	50	1	1.0							

Analyst: NT Date: 07/10/13 Reviewer: PRW Date: 07/11/13

Water Digestion for ICP

Curtis & Tompkins, Ltd.

LIMS Batch #: 200491
Digested by: JJB
Date Digested: 7.9.13

Digestion Method
☐ EPA 3010a for ICP
☐ EPA 200.7
☑ FILTRATE

BK3443
Page 54

Lvl.	Sample #	Container ID	Volume Sample(mL)	Final Volume (mL)	Filtered? (y/n)	ID Π	Comments
	MB		☑50 ☐____	☑50 ☐____	N	✓	7.03.13 Filter MB
	BS		☑50 ☐____	☑50 ☐____		✓	
	BSD		☑50 ☐____	☑50 ☐____		✓	
III	246655-001	E	☑50 ☐____	☑50 ☐____		✓	
5	MS		☑50 ☐____	☑50 ☐____		✓	
	MSD		☑50 ☐____	☑50 ☐____		✓	
II	246638-001	D	☑50 ☐____	☑50 ☐____		✓	Sample ~~received~~ received preserved
III	246655-002	E	☑50 ☐____	☑50 ☐____		✓	
	003		☑50 ☐____	☑50 ☐____		✓	
10	004		☑50 ☐____	☑50 ☐____		✓	
	005		☑50 ☐____	☑50 ☐____		✓	
	008		☑50 ☐____	☑50 ☐____		✓	
	009		☑50 ☐____	☑50 ☐____		✓	
	010		☑50 ☐____	☑50 ☐____		✓	
15			☐ 50 ☐____	☐ 50 ☐____			
			☐ 50 ☐____	☐ 50 ☐____			
			☐ 50 ☐____	☐ 50 ☐____			
			☐ 50 ☐____	☐ 50 ☐____			
			☐ 50 ☐____	☐ 50 ☐____			
20			☐ 50 ☐____	☐ 50 ☐____			
			☐ 50 ☐____	☐ 50 ☐____			
			☐ 50 ☐____	☐ 50 ☐____			
			☐ 50 ☐____	☐ 50 ☐____			
			☐ 50 ☐____	☐ 50 ☐____			
			☐ 50 ☐____	☐ 50 ☐____			

0.5 mL of spike solution (Std1) was added to all spikes
0.5 mL of spike solution (Std2) was added to all spikes

	Reagent ID or LIMS #	Initials / Date
Digestion tubes, lot #	158367-261	JJB 7.9.13
	521652	
	53	
Digestion Temperature (°C), Block and Probe Location	NA NA	
digestion begun at (time)	15:00	
1:1 HCl	K24040 JTB	
concentrated HNO3	21587 JTB	
digestion ended at (time)	NA	
☐ filtered thru' Whatman # 541		
Relinquished to ICP group	Ce010	

JJB 7.9.13
Prep Chemist / Date

Continued from page _____.
Continued on page _____.

Reviewed by / Date

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 247736
ANALYTICAL REPORT

Haley & Aldrich	Project : 39049-103
400 East Van Buren Street	Location : PGA South
Phoenix, CA 85004	Level : III

Sample ID	Lab ID
E-101	247736-001
GAC-02	247736-002
GAC-03	247736-003
COG-05	247736-004
NE-02	247736-005
NE-03	247736-006
NE-04	247736-007
E-201	247736-008
E-102	247736-009
GAC-102	247736-010
E-1102	247736-011

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Isabelle Choy Date: 08/20/2013

Isabelle Choy
Project Manager
(510) 486-0900

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**247736**
Client:	**Haley & Aldrich**
Project:	**39049-103**
Location:	**PGA South**
Request Date:	**08/08/13**
Samples Received:	**08/08/13**

This data package contains sample and QC results for eleven water samples, requested for the above referenced project on 08/08/13. See attached cooler receipt form for any sample receipt problems or discrepancies.

Volatile Organics by GC/MS (EPA 8260B):
High response was observed for bromomethane in the CCV analyzed 08/12/13 13:47; this analyte was not detected at or above the RL in the associated samples, and affected data was qualified with "b".

Low recoveries were observed for trichloroethene in the MS/MSD of NE-04 (lab # 247736-007); the BS/BSD were within limits, and the associated RPD was within limits.

Bromomethane and chloromethane were detected between the MDL and the RL in the method blank for batch 201576; these analytes were not detected in the sample at or above the RL.

No other analytical problems were encountered.

Metals (EPA 6010B) Water:
No analytical problems were encountered.

Metals (EPA 6010B) Filtrate:
No analytical problems were encountered.

Chain of Custody

Semi Annual

CHAIN OF CUSTODY

Curtis & Tompkins Laboratories
ENVIRONMENTAL ANALYTICAL TESTING LABORATORY
In Business Since 1878

2323 Fifth Street
Berkeley, CA 94710

Phone (510) 486-0900
Fax (510) 486-0532

C&T LOGIN # 247736

Chain of Custody #

Project No: 39049-103
Project Name: P6AS
Project P. O. No: 39049-103
EDD Format: Report Level ☐ II ☐ III ☐ IV
Turnaround Time: ☐ RUSH ☒ Standard

Sampler: Mark Argall
Report To: Paula Chang
Company: H & A
Telephone: 602-760-2418
Email: pchang@haleyaldrich.com

Lab No.	Sample ID.	Date Collected	Time Collected	Water	Solid	# of Containers	HCl	H2SO4	HNO3	NaOH	None	8260B Halogenated only	6010B Total Chromium	6010B Dissolved Chromium
1	E-101	8-7-13	0800	X		3	X					X		
2	GAC-02		0810	X		10	X		X			X	X	X
3	GAC-03		0750	X		5	X		X			X	X	X
4	COG-05		1400	X		15	X		X			X	X	X
5	NE-02		1100	X		5	X		X			X	X	X
6	NE-03		1045	X		5	X		X			X	X	X
7	NE-04		1015	X		15	X		X			X	X	X
8	E-201		0620	X		3	X					X		
9	E-102		0845	X		6	X					X		

ANALYTICAL REQUEST

Notes: Lab filter + preserve 6010B dissolved chrome upon Receipt

SAMPLE RECEIPT
☐ Intact
☐ Cold
☐ On Ice
☐ Ambient

RELINQUISHED BY:
[signature] DATE: 8-7-13 TIME:
DATE: TIME:
DATE: TIME:

RECEIVED BY:
[signature] DATE: 8/8/13 TIME: 1030
DATE: TIME:
DATE: TIME:

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd

Login # 247736 Date Received 8/8/13 Number of coolers 1
Client HTA Project 39044-103

Date Opened 8/8/13 By (print) MG (sign) MG
Date Logged in 8 By (print) J (sign) J

1. Did cooler come with a shipping slip (airbill, etc) YES ~~NO~~ MG
   Shipping info FedEx 8004 7835 1946

2A. Were custody seals present? .... ☑ YES (circle) on cooler on samples ☐ NO
   How many 2 Name WJ Date 8/7/13
2B. Were custody seals intact upon arrival? YES NO ~~N/A~~ MG
3. Were custody papers dry and intact when received? YES NO
4. Were custody papers filled out properly (ink, signed, etc)? YES NO
5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO
6. Indicate the packing in cooler: (if other, describe)

☐ Bubble Wrap ☐ Foam blocks ☑ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☑ Wet ☐ Blue/Gel ☐ None Temp(°C) 5.1

☐ Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO
   If YES, what time were they transferred to freezer?
9. Did all bottles arrive unbroken/unopened? YES NO
10. Are there any missing / extra samples? YES ~~NO~~ MG
11. Are samples in the appropriate containers for indicated tests? YES NO
12. Are sample labels present, in good condition and complete? YES NO
13. Do the sample labels agree with custody papers? YES NO
14. Was sufficient amount of sample sent for tests requested? YES NO
15. Are the samples appropriately preserved? YES NO N/A
16. Did you check preservatives for all bottles for each sample? YES NO N/A
17. Did you document your preservative check? YES NO N/A
18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO N/A
19. Did you change the hold time in LIMS for preserved terracores? YES NO N/A
20. Are bubbles > 6mm absent in VOA samples? YES NO N/A
21. Was the client contacted concerning this sample delivery? YES ~~NO~~ MG
   If YES, Who was called? Mark By ISC Date: 8/8/13

COMMENTS

9) -006 "MEOS" 1 of 3 VOAs rec'd broken, sample was compromised

20) -005 2 of 3 VOAs rec'd w/bubble

10) rec'd 2 extra samples "GAC-102" sampled @ 0910 (-010) and "E-1102" sampled @ 0945 (-011)
Client confirmed to login samples for ~~BTEX~~ analysis

*Client confirmed MS/MSD for sample -004 and -007

Rev 10, 11/11

Curtis & Tompkins Sample Preservation for 247736

Sample	pH: <2	>9	>12	Other
-002a	[ ]	[ ]	[ ]	
b	[ ]	[ ]	[ ]	
c	[ ]	[ ]	[ ]	
d	[✓]	[ ]	[ ]	
e	[ ]	[ ]	[ ]	
-003a	[ ]	[ ]	[ ]	
b	[ ]	[ ]	[ ]	
c	[ ]	[ ]	[ ]	
d	[✓]	[ ]	[ ]	
e	[ ]	[ ]	[ ]	
-004a	[ ]	[ ]	[ ]	
b	[ ]	[ ]	[ ]	
c	[ ]	[ ]	[ ]	
d	[ ]	[ ]	[ ]	
e	[ ]	[ ]	[ ]	
f	[ ]	[ ]	[ ]	
g	[ ]	[ ]	[ ]	
h	[ ]	[ ]	[ ]	
i	[ ]	[ ]	[ ]	
j	[✓]	[ ]	[ ]	
k	[✓]	[ ]	[ ]	
l	[✓]	[ ]	[ ]	
m	[ ]	[ ]	[ ]	
n	[ ]	[ ]	[ ]	
o	[ ]	[ ]	[ ]	
-005a	[ ]	[ ]	[ ]	
b	[ ]	[ ]	[ ]	

Sample	pH: <2	>9	>12	Other
c	[ ]	[ ]	[ ]	
d	[✓]	[ ]	[ ]	
e	[ ]	[ ]	[ ]	
-006a	[ ]	[ ]	[ ]	
b	[ ]	[ ]	[ ]	
c	[✓]	[ ]	[ ]	
d	~~[✓]~~ MG	[ ]	[ ]	
-007a	[ ]	[ ]	[ ]	
b	[ ]	[ ]	[ ]	
c	[ ]	[ ]	[ ]	
d	[ ]	[ ]	[ ]	
e	[ ]	[ ]	[ ]	
f	[ ]	[ ]	[ ]	
g	[ ]	[ ]	[ ]	
h	[ ]	[ ]	[ ]	
i	[ ]	[ ]	[ ]	
j	[✓]	[ ]	[ ]	
k	[✓]	[ ]	[ ]	
l	[✓]	[ ]	[ ]	
m	[ ]	[ ]	[ ]	
n	[ ]	[ ]	[ ]	
o	[ ]	[ ]	[ ]	
-010a	[ ]	[ ]	[ ]	
b	[ ]	[ ]	[ ]	
c	[ ]	[ ]	[ ]	
d	[✓]	[ ]	[ ]	
e	[ ]	[ ]	[ ]	

Analyst: MG

Date: 6/8/11

Page 1 of 1

Laboratory Job Number 247736

ANALYTICAL REPORT

Volatile Organics by GC/MS

Matrix: Water

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247736	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	E-101	Batch#:	201624
Lab ID:	247736-001	Sampled:	08/07/13
Matrix:	Water	Received:	08/08/13
Units:	ug/L	Analyzed:	08/13/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	1.2 J	2.0	0.2
1,1-Dichloroethene	0.8	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.4 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	0.6	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	32	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	0.1 J	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	101	76-138
Toluene-d8	91	80-120
Bromofluorobenzene	94	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247736	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GAC-02	Batch#:	201577
Lab ID:	247736-002	Sampled:	08/07/13
Matrix:	Water	Received:	08/08/13
Units:	ug/L	Analyzed:	08/12/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.2 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	0.1 J	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	4.6	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	102	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	90	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247736	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GAC-03	Batch#:	201624
Lab ID:	247736-003	Sampled:	08/07/13
Matrix:	Water	Received:	08/08/13
Units:	ug/L	Analyzed:	08/13/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	0.5 J	2.0	0.2
1,1-Dichloroethene	0.4 J	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.4 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	0.6	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	33	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	2.2	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	105	76-138
Toluene-d8	96	80-120
Bromofluorobenzene	90	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247736	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	COG-05	Batch#:	201577
Lab ID:	247736-004	Sampled:	08/07/13
Matrix:	Water	Received:	08/08/13
Units:	ug/L	Analyzed:	08/12/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.1 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	0.2 J	0.5	0.1
Trichloroethene	5.4	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	105	76-138
Toluene-d8	93	80-120
Bromofluorobenzene	93	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247736	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	NE-02	Batch#:	201577
Lab ID:	247736-005	Sampled:	08/07/13
Matrix:	Water	Received:	08/08/13
Units:	ug/L	Analyzed:	08/12/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	2.0	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	106	76-138
Toluene-d8	92	80-120
Bromofluorobenzene	94	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247736	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	NE-03	Batch#:	201577
Lab ID:	247736-006	Sampled:	08/07/13
Matrix:	Water	Received:	08/08/13
Units:	ug/L	Analyzed:	08/12/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	5.8	2.0	0.2
1,1-Dichloroethene	2.6	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	0.3 J	0.5	0.1
cis-1,2-Dichloroethene	0.2 J	0.5	0.1
Chloroform	0.4 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	34	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	1.0	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	109	76-138
Toluene-d8	94	80-120
Bromofluorobenzene	91	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247736	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	NE-04	Batch#:	201624
Lab ID:	247736-007	Sampled:	08/07/13
Matrix:	Water	Received:	08/08/13
Units:	ug/L	Analyzed:	08/13/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	11	2.0	0.2
1,1-Dichloroethene	3.1	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	0.2 J	0.5	0.1
cis-1,2-Dichloroethene	0.2 J	0.5	0.1
Chloroform	0.4 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	46	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	1.4	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	104	76-138
Toluene-d8	95	80-120
Bromofluorobenzene	94	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247736	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	E-201	Batch#:	201577
Lab ID:	247736-008	Sampled:	08/07/13
Matrix:	Water	Received:	08/08/13
Units:	ug/L	Analyzed:	08/12/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	0.7	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	105	76-138
Toluene-d8	94	80-120
Bromofluorobenzene	99	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247736	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	E-102	Batch#:	201577
Lab ID:	247736-009	Sampled:	08/07/13
Matrix:	Water	Received:	08/08/13
Units:	ug/L	Analyzed:	08/12/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.1 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	3.1	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	103	76-138
Toluene-d8	96	80-120
Bromofluorobenzene	92	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247736	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GAC-102	Batch#:	201577
Lab ID:	247736-010	Sampled:	08/07/13
Matrix:	Water	Received:	08/08/13
Units:	ug/L	Analyzed:	08/12/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.2 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	0.1 J	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	3.8	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	104	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	94	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247736	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	E-1102	Batch#:	201576
Lab ID:	247736-011	Sampled:	08/07/13
Matrix:	Water	Received:	08/08/13
Units:	ug/L	Analyzed:	08/12/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.3
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	0.2 J	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	20	0.2
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.2
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.2 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	3.1	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	111	76-138
Toluene-d8	98	80-120
Bromofluorobenzene	103	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	247736	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	201576
Units:	ug/L	Analyzed:	08/12/13
Diln Fac:	1.000		

Type: BS Lab ID: QC701330

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	23.10	92	77-132
Trichloroethene	25.00	25.95	104	80-120
Chlorobenzene	25.00	27.20	109	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	110	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	101	80-125

Type: BSD Lab ID: QC701331

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	21.57	86	77-132	7	20
Trichloroethene	25.00	24.77	99	80-120	5	20
Chlorobenzene	25.00	26.99	108	80-120	1	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	107	76-138
Toluene-d8	98	80-120
Bromofluorobenzene	100	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	247736	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC701332	Batch#:	201576
Matrix:	Water	Analyzed:	08/12/13
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	0.4 J	1.0	0.3
Vinyl Chloride	ND	0.5	0.1
Bromomethane	0.4 J b	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	20	0.2
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.2
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	101	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	106	80-125

J= Estimated value
b= See narrative
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	247736	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	201577
Units:	ug/L	Analyzed:	08/12/13
Diln Fac:	1.000		

Type: BS Lab ID: QC701333

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	22.79	91	77-132
Trichloroethene	25.00	26.30	105	80-120
Chlorobenzene	25.00	28.33	113	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	95	76-138
Toluene-d8	96	80-120
Bromofluorobenzene	92	80-125

Type: BSD Lab ID: QC701334

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	23.02	92	77-132	1	20
Trichloroethene	25.00	26.35	105	80-120	0	20
Chlorobenzene	25.00	28.08	112	80-120	1	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	95	76-138
Toluene-d8	94	80-120
Bromofluorobenzene	88	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	247736	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC701335	Batch#:	201577
Matrix:	Water	Analyzed:	08/12/13
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	100	76-138
Toluene-d8	96	80-120
Bromofluorobenzene	94	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	247736	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	COG-05	Batch#:	201577
MSS Lab ID:	247736-004	Sampled:	08/07/13
Matrix:	Water	Received:	08/08/13
Units:	ug/L	Analyzed:	08/13/13
Diln Fac:	1.000		

Type: MS Lab ID: QC701354

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.1000	25.00	21.53	86	80-135
Trichloroethene	5.355	25.00	31.20	103	75-128
Chlorobenzene	<0.1136	25.00	26.41	106	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	107	76-138
Toluene-d8	94	80-120
Bromofluorobenzene	92	80-125

Type: MSD Lab ID: QC701355

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	20.44	82	80-135	5	20
Trichloroethene	25.00	29.70	97	75-128	5	20
Chlorobenzene	25.00	26.22	105	80-120	1	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	103	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	90	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	247736	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	NE-04	Diln Fac:	1.000
MSS Lab ID:	247736-007	Batch#:	201576
Matrix:	Water	Sampled:	08/07/13
Units:	ug/L	Received:	08/08/13

Type: MS Analyzed: 08/12/13
Lab ID: QC701406

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	3.261	25.00	25.76	90	80-135
Trichloroethene	48.89	25.00	66.87	72 *	75-128
Chlorobenzene	<0.1296	25.00	26.81	107	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	108	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	102	80-125

Type: MSD Analyzed: 08/13/13
Lab ID: QC701407

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	25.29	88	80-135	2	20
Trichloroethene	25.00	65.76	67 *	75-128	2	20
Chlorobenzene	25.00	27.32	109	80-120	2	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	104	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	102	80-125

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	247736	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	201624
Units:	ug/L	Analyzed:	08/13/13
Diln Fac:	1.000		

Type: BS Lab ID: QC701535

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	24.07	96	77-132
Trichloroethene	25.00	27.36	109	80-120
Chlorobenzene	25.00	29.12	116	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	97	76-138
Toluene-d8	98	80-120
Bromofluorobenzene	90	80-125

Type: BSD Lab ID: QC701536

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	24.26	97	77-132	1	20
Trichloroethene	25.00	28.53	114	80-120	4	20
Chlorobenzene	25.00	29.17	117	80-120	0	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	97	76-138
Toluene-d8	95	80-120
Bromofluorobenzene	89	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	247736	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC701537	Batch#:	201624
Matrix:	Water	Analyzed:	08/13/13
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	101	76-138
Toluene-d8	94	80-120
Bromofluorobenzene	88	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Initial & Continuing Calibration Data

CURTIS & TOMPKINS BFB TUNE FOR 247736 MSVOA Water
EPA 8260B

Inst : MSVOA08 Run Name : BFB IDF : 1.0
Seqnum : 473114230007 File : hck07 Time : 20-MAR-2013 14:05

Standards: S21369

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	11442	22.41	
75	30% - 60% of mass 95	23940	46.89	
95		51061	100.00	
96	5% - 9% of mass 95	3250	6.36	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	39269	76.91	
175	5% - 9% of mass 174	2784	7.09	
176	> 95% and < 101% of mass 174	37378	95.18	
177	5% - 9% of mass 176	2389	6.39	

Analyst: MJB Date: 03/22/13 Reviewer: LW Date: 03/22/13

CURTIS & TOMPKINS BFB TUNE FOR 247736 MSVOA Water
EPA 8260B

Inst : MSVOA08 Run Name : BFB IDF : 1.0
Seqnum : 473323031008 File : hhc08 Time : 12-AUG-2013 12:43

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	12870	20.73	
75	30% - 60% of mass 95	26592	42.82	
95		62098	100.00	
96	5% - 9% of mass 95	4622	7.44	
173	< 2% of mass 174	181	0.33	
174	> 50% and < 100% of mass 95	55141	88.80	
175	5% - 9% of mass 174	4110	7.45	
176	> 95% and < 101% of mass 174	53424	96.89	
177	5% - 9% of mass 176	3610	6.76	

Analyst: MJB Date: 08/12/13 Reviewer: SJD Date: 08/13/13

CURTIS & TOMPKINS BFB TUNE FOR 247736 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : BFB IDF : 1.0
Seqnum : 483147320011 File : idc11 Time : 12-APR-2013 14:37

Standards: S21369

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	82690	20.27	
75	30% - 60% of mass 95	177445	43.49	
95		408000	100.00	
96	5% - 9% of mass 95	27293	6.69	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	324138	79.45	
175	5% - 9% of mass 174	24104	7.44	
176	> 95% and < 101% of mass 174	310613	95.83	
177	5% - 9% of mass 176	20056	6.46	

Analyst: MJB Date: 04/15/13 Reviewer: TW Date: 04/17/13

CURTIS & TOMPKINS BFB TUNE FOR 247736 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : BFB IDF : 1.0
Seqnum : 483323037004 File : ihc04 Time : 12-AUG-2013 09:21

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	50498	20.02	
75	30% - 60% of mass 95	109634	43.46	
95		252288	100.00	
96	5% - 9% of mass 95	17753	7.04	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	222016	88.00	
175	5% - 9% of mass 174	16995	7.65	
176	> 95% and < 101% of mass 174	211845	95.42	
177	5% - 9% of mass 176	14335	6.77	

Analyst: MJB Date: 08/12/13 Reviewer: BO Date: 08/13/13

CURTIS & TOMPKINS BFB TUNE FOR 247736 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : BFB IDF : 1.0
Seqnum : 483324446004 File : ihd04 Time : 13-AUG-2013 09:23

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	77880	18.81	
75	30% - 60% of mass 95	181021	43.73	
95		413973	100.00	
96	5% - 9% of mass 95	28150	6.80	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	392362	94.78	
175	5% - 9% of mass 174	30048	7.66	
176	> 95% and < 101% of mass 174	389120	99.17	
177	5% - 9% of mass 176	26200	6.73	

Analyst: MJB Date: 08/13/13 Reviewer: BO Date: 08/14/13

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 247736 MSVOA Water: EPA 8260B

Inst : MSVOA08 Name : 826GOX8
Calnum : 473114230005 Date : 20-MAR-2013 15:46 Type : WATER
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	hck10	473114230010		20-MAR-2013 15:46	S21889 (2000000X), S21576 (1000000X), S21635 (2000000X), S21908 (2000000X), S21822 (5000X)
L2	hck11	473114230011		20-MAR-2013 16:23	S21889 (1000000X), S21576 (500000X), S21635 (1000000X), S21908 (1000000X), S21822 (5000X)
L3	hck12	473114230012		20-MAR-2013 17:00	S21889 (250000X), S21576 (250000X), S21635 (500000X), S21908 (250000X), S21822 (5000X)
L4	hck13	473114230013		20-MAR-2013 17:40	S21889 (100000X), S21576 (100000X), S21635 (200000X), S21908 (100000X), S21822 (5000X)
L5	hck14	473114230014		20-MAR-2013 18:18	S21889 (50000X), S21576 (50000X), S21635 (100000X), S21908 (50000X), S21822 (5000X)
L6	hck15	473114230015		20-MAR-2013 18:55	S21889 (25000X), S21576 (25000X), S21635 (50000X), S21908 (25000X), S21822 (5000X)
L7	hck16	473114230016		20-MAR-2013 19:32	S21889 (10000X), S21576 (10000X), S21635 (20000X), S21908 (10000X), S21822 (5000X)
L8	hck17	473114230017		20-MAR-2013 20:10	S21889 (6667X), S21576 (6667X), S21635 (13330X), S21908 (6667X), S21822 (5000X)
L9	hck18	473114230018		20-MAR-2013 21:08	S21889 (5000X), S21576 (5000X), S21635 (10000X), S21908 (5000X), S21822 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Chloromethane	0.9791	0.9239m	0.9947	0.8273	0.8638	0.8558	0.8198	0.7010	0.6768	AVRG		1.17765		0.8491	13	15	0.10	0.99	
Vinyl Chloride	0.7662	0.6398	0.7271	0.5984	0.6155	0.6641	0.6258	0.5646	0.5390	AVRG		1.56779		0.6378	11	15	0.05	0.99	
Bromomethane		0.3013m	0.4298m	0.3692	0.3863	0.4252	0.4059	0.3916	0.3808	AVRG		2.58886		0.3863	10	15	0.05	0.99	
Chloroethane		0.3466	0.4026	0.3451	0.3367	0.3558	0.3384	0.3151	0.2995	AVRG		2.91998		0.3425	9	15	0.05	0.99	
Trichlorofluoromethane		0.6748	0.7185	0.6067	0.5966	0.6635	0.6448	0.6006	0.5934	AVRG		1.56899		0.6374	7	15	0.05	0.99	
Freon 113		0.4332	0.5352	0.4485	0.4253	0.4844	0.4932	0.4567	0.4418	AVRG		2.15157		0.4648	8	15	0.05	0.99	
1,1-Dichloroethene		0.4741	0.5506	0.4390	0.4832	0.4900	0.4946	0.4531	0.4459	AVRG		2.08855		0.4788	7	15	0.05	0.99	
Methylene Chloride		0.6388	0.6687	0.5796	0.6438	0.6399	0.6207	0.5630	0.5594	AVRG		1.62806		0.6142	7	15	0.05	0.99	
trans-1,2-Dichloroethene		0.5135	0.5843	0.5184	0.5586	0.5643	0.5587	0.5079	0.4989	AVRG		1.85852		0.5381	6	15	0.05	0.99	
1,1-Dichloroethane		1.0574	1.2250	0.9754	1.0828	1.0661	1.0301	0.9321	0.8996	AVRG		0.96754		1.0335	10	15	0.10	0.99	
cis-1,2-Dichloroethene		0.5888	0.6660	0.5357	0.6130	0.6091	0.5998	0.5508	0.5426	AVRG		1.70000		0.5882	7	15	0.05	0.99	
Chloroform		0.9104	1.0458	0.8736	0.9803	0.9649	0.9411	0.8488	0.8317	AVRG		1.08157		0.9246	8	15	0.05	0.99	
1,1,1-Trichloroethane		0.6679	0.7283	0.5800	0.6440	0.6570	0.6567	0.6110	0.5906	AVRG		1.55780		0.6419	7	15	0.05	0.99	
Carbon Tetrachloride		0.3072	0.3654	0.3158	0.3416	0.3643	0.3633	0.3509	0.3340	AVRG		2.91721		0.3428	7	15	0.05	0.99	
1,2-Dichloroethane		0.4102	0.4259	0.3692	0.3895	0.3933	0.3773	0.3623	0.3508	AVRG		2.59859		0.3848	7	15	0.05	0.99	
Trichloroethene		0.3186	0.3703	0.2964	0.3381	0.3410	0.3313	0.3201	0.3075	AVRG		3.04956		0.3279	7	15	0.05	0.99	
1,2-Dichloropropane		0.3864	0.4175	0.3396	0.3791	0.3832	0.3620	0.3349	0.3168	AVRG		2.74021		0.3649	9	15	0.05	0.99	
Bromodichloromethane		0.3769	0.4403	0.3762	0.4272	0.4308	0.4235	0.4055	0.3940	AVRG		2.44325		0.4093	6	15	0.05	0.99	
cis-1,3-Dichloropropene		0.4323	0.5096	0.4373	0.4928	0.4862	0.4801	0.4550	0.4419	AVRG		2.14186		0.4669	6	15	0.05	0.99	
trans-1,3-Dichloropropene		0.4479	0.5261	0.4620	0.5050	0.5214	0.5163	0.4867	0.4772	AVRG		2.02917		0.4928	6	15	0.05	0.99	
1,1,2-Trichloroethane		0.1408	0.1726	0.1611	0.1697	0.1687	0.1716	0.1636	0.1614	AVRG		6.10856		0.1637	6	15	0.05	0.99	
Tetrachloroethene		0.3642	0.3963	0.3255	0.3401	0.3543	0.3530	0.3430	0.3336	AVRG		2.84702		0.3512	6	15	0.05	0.99	
Dibromochloromethane		0.2976	0.3656	0.3193	0.3635	0.3736	0.3810	0.3767	0.3764	AVRG		2.80343		0.3567	9	15	0.05	0.99	
Chlorobenzene		0.9822	1.1174	0.9190	1.0266	1.0033	0.9377	0.8726	0.8270	AVRG		1.04087		0.9607	10	15	0.30	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Bromoform		0.1424	0.1879	0.1754	0.1898	0.2032	0.2163	0.2217	0.2337	AVRG		5.09409		0.1963	15	15	0.10	0.99	
1,1,2,2-Tetrachloroethane		0.5836	0.6565	0.6297	0.6676	0.6668	0.6251	0.5915	0.5906	AVRG		1.59631		0.6264	6	15	0.30	0.99	
1,3-Dichlorobenzene		1.6121	1.6237	1.3606	1.5203	1.4872	1.3710	1.2822	1.1718	AVRG		0.69998		1.4286	11	15	0.05	0.99	
1,4-Dichlorobenzene		1.5744	1.5960	1.3186	1.4945	1.4683	1.3548	1.2428	1.1609	AVRG		0.71363		1.4013	11	15	0.05	0.99	
1,2-Dichlorobenzene		1.4518	1.5532	1.3292	1.4868	1.4403	1.3427	1.2506	1.1908	AVRG		0.72428		1.3807	9	15	0.05	0.99	
1,2-Dichloroethane-d4	0.3285	0.3158	0.3222	0.3223	0.3053	0.3057	0.2878	0.2763	0.2733	AVRG		3.28802		0.3041	7	15	0.05	0.99	
Toluene-d8	1.2132	1.2073	1.2265	1.2020	1.2150	1.2227	1.2015	1.2046	1.2115	AVRG		0.82537		1.2116	1	15	0.05	0.99	
Bromofluorobenzene	0.9812	0.9792	0.9538	0.9701	0.9884	0.9947	0.9315	0.9215	0.9161	AVRG		1.04209		0.9596	3	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Chloromethane	0.5000	15	1.0000	9	2.0000	17	5.0000	-3	10.000	2	20.000	1	50.000	-3	75.000	-17	100.00	-20
Vinyl Chloride	0.5000	20	1.0000	0	2.0000	14	5.0000	-6	10.000	-3	20.000	4	50.000	-2	75.000	-11	100.00	-15
Bromomethane			1.0000	**-22**	2.0000	11	5.0000	-4	10.000	0	20.000	10	50.000	5	75.000	1	100.00	-1
Chloroethane			1.0000	1	2.0000	18	5.0000	1	10.000	-2	20.000	4	50.000	-1	75.000	-8	100.00	-13
Trichlorofluoromethane			1.0000	6	2.0000	13	5.0000	-5	10.000	-6	20.000	4	50.000	1	75.000	-6	100.00	-7
Freon 113			0.5000	-7	2.0000	15	5.0000	-3	10.000	-9	20.000	4	50.000	6	75.000	-2	100.00	-5
1,1-Dichloroethene			0.5000	-1	2.0000	15	5.0000	-8	10.000	1	20.000	2	50.000	3	75.000	-5	100.00	-7
Methylene Chloride			0.5000	4	2.0000	9	5.0000	-6	10.000	5	20.000	4	50.000	1	75.000	-8	100.00	-9
trans-1,2-Dichloroethene			0.5000	-5	2.0000	9	5.0000	-4	10.000	4	20.000	5	50.000	4	75.000	-6	100.00	-7
1,1-Dichloroethane			0.5000	2	2.0000	19	5.0000	-6	10.000	5	20.000	3	50.000	0	75.000	-10	100.00	-13
cis-1,2-Dichloroethene			0.5000	0	2.0000	13	5.0000	-9	10.000	4	20.000	4	50.000	2	75.000	-6	100.00	-8
Chloroform			0.5000	-2	2.0000	13	5.0000	-6	10.000	6	20.000	4	50.000	2	75.000	-8	100.00	-10
1,1,1-Trichloroethane			0.5000	4	2.0000	13	5.0000	-10	10.000	0	20.000	2	50.000	2	75.000	-5	100.00	-8
Carbon Tetrachloride			0.5000	-10	2.0000	7	5.0000	-8	10.000	0	20.000	6	50.000	6	75.000	2	100.00	-3
1,2-Dichloroethane			0.5000	7	2.0000	11	5.0000	-4	10.000	1	20.000	2	50.000	-2	75.000	-6	100.00	-9
Trichloroethene			0.5000	-3	2.0000	13	5.0000	-10	10.000	3	20.000	4	50.000	1	75.000	-2	100.00	-6
1,2-Dichloropropane			0.5000	6	2.0000	14	5.0000	-7	10.000	4	20.000	5	50.000	-1	75.000	-8	100.00	-13
Bromodichloromethane			0.5000	-8	2.0000	8	5.0000	-8	10.000	4	20.000	5	50.000	3	75.000	-1	100.00	-4
cis-1,3-Dichloropropene			0.5000	-7	2.0000	9	5.0000	-6	10.000	6	20.000	4	50.000	3	75.000	-3	100.00	-5
trans-1,3-Dichloropropene			0.5000	-9	2.0000	7	5.0000	-6	10.000	2	20.000	6	50.000	5	75.000	-1	100.00	-3
1,1,2-Trichloroethane			0.5000	-14	2.0000	5	5.0000	-2	10.000	4	20.000	3	50.000	5	75.000	0	100.00	-1
Tetrachloroethene			0.5000	4	2.0000	13	5.0000	-7	10.000	-3	20.000	1	50.000	0	75.000	-2	100.00	-5
Dibromochloromethane			0.5000	-17	2.0000	2	5.0000	-10	10.000	2	20.000	5	50.000	7	75.000	6	100.00	6
Chlorobenzene			0.5000	2	2.0000	16	5.0000	-4	10.000	7	20.000	4	50.000	-2	75.000	-9	100.00	-14
Bromoform			0.5000	**-27**	2.0000	-4	5.0000	-11	10.000	-3	20.000	4	50.000	10	75.000	13	100.00	19
1,1,2,2-Tetrachloroethane			0.5000	-7	2.0000	5	5.0000	1	10.000	7	20.000	6	50.000	0	75.000	-6	100.00	-6
1,3-Dichlorobenzene			0.5000	13	2.0000	14	5.0000	-5	10.000	6	20.000	4	50.000	-4	75.000	-10	100.00	-18
1,4-Dichlorobenzene			0.5000	12	2.0000	14	5.0000	-6	10.000	7	20.000	5	50.000	-3	75.000	-11	100.00	-17
1,2-Dichlorobenzene			0.5000	5	2.0000	12	5.0000	-4	10.000	8	20.000	4	50.000	-3	75.000	-9	100.00	-14
1,2-Dichloroethane-d4	50.000	8	50.000	4	50.000	6	50.000	6	50.000	0	50.000	1	50.000	-5	50.000	-9	50.000	-10
Toluene-d8	50.000	0	50.000	0	50.000	1	50.000	-1	50.000	0	50.000	1	50.000	-1	50.000	-1	50.000	0
Bromofluorobenzene	50.000	2	50.000	2	50.000	-1	50.000	1	50.000	3	50.000	4	50.000	-3	50.000	-4	50.000	-5

MJB 03/22/13 [Chloromethane]: Combined split peak in (hck11).

MJB 03/22/13 [Bromomethane]: Corrected baseline noise or negative peak in (hck11).

MJB 03/22/13 [Ethanol]: Corrected baseline noise or negative peak in (hck11).

MJB 03/22/13 [Acetone]: Corrected baseline noise or negative peak in multiple levels.

MJB 03/22/13 [Isopropanol]: Corrected baseline noise or negative peak in (hck11).

MJB 03/22/13 [2-Butanone]: Corrected baseline noise or negative peak in multiple levels.

MJB 03/22/13 [Bromomethane]: Combined split peak in (hck12).

Analyst: MJB Date: 03/22/13 Reviewer: LW Date: 03/22/13

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 247736 MSVOA Water
EPA 8260B

Inst : MSVOA08 Name : 826GOX8
Calnum : 473114230005 Cal Date : 20-MAR-2013 Type : WATER

ICV 473114230019 (hck19 20-MAR-2013) stds: S21932 (10000X), S21822 (5000X)
ICV 473114230020 (hck20 20-MAR-2013) stds: S21957 (10000X), S21915 (10000X), S21822 (5000X), S21791 (10000X)

Analyte	ICV Seqnum	Spiked	Quant	Units	%D	Max	Flags
Chloromethane	473114230019	20.00	16.09	ug/L	-20	30	
Vinyl Chloride	473114230019	20.00	18.99	ug/L	-5	20	
Bromomethane	473114230019	20.00	15.85	ug/L	**-21**	30	!v-
Chloroethane	473114230019	20.00	18.63	ug/L	-7	30	
Trichlorofluoromethane	473114230019	20.00	19.27	ug/L	-4	30	
Freon 113	473114230020	25.00	25.53	ug/L	2	30	
1,1-Dichloroethene	473114230020	25.00	25.32	ug/L	1	20	
Methylene Chloride	473114230020	25.00	25.90	ug/L	4	30	
trans-1,2-Dichloroethene	473114230020	25.00	27.09	ug/L	8	30	
1,1-Dichloroethane	473114230020	25.00	25.25	ug/L	1	30	
cis-1,2-Dichloroethene	473114230020	25.00	26.01	ug/L	4	30	
Chloroform	473114230020	25.00	25.54	ug/L	2	20	
1,1,1-Trichloroethane	473114230020	25.00	26.12	ug/L	4	30	
Carbon Tetrachloride	473114230020	25.00	27.95	ug/L	12	30	
1,2-Dichloroethane	473114230020	25.00	26.21	ug/L	5	30	
Trichloroethene	473114230020	25.00	26.78	ug/L	7	30	
1,2-Dichloropropane	473114230020	25.00	25.48	ug/L	2	20	
Bromodichloromethane	473114230020	25.00	26.87	ug/L	7	30	
cis-1,3-Dichloropropene	473114230020	25.00	30.27	ug/L	**21**	30	!v+
trans-1,3-Dichloropropene	473114230020	25.00	26.97	ug/L	8	30	
1,1,2-Trichloroethane	473114230020	25.00	27.91	ug/L	12	30	
Tetrachloroethene	473114230020	25.00	26.89	ug/L	8	30	
Dibromochloromethane	473114230020	25.00	27.46	ug/L	10	30	
Chlorobenzene	473114230020	25.00	25.05	ug/L	0	30	
Bromoform	473114230020	25.00	31.12	ug/L	**24**	30	!v+
1,1,2,2-Tetrachloroethane	473114230020	25.00	27.84	ug/L	11	30	
1,3-Dichlorobenzene	473114230020	25.00	24.26	ug/L	-3	30	
1,4-Dichlorobenzene	473114230020	25.00	26.09	ug/L	4	30	
1,2-Dichlorobenzene	473114230020	25.00	25.00	ug/L	0	30	

473114230019: Analyst: MJB Date: 03/22/13 Reviewer: LW Date: 03/22/13
473114230020: Analyst: MJB Date: 03/22/13 Reviewer: LW Date: 03/22/13

!=warning +=high bias -=low bias v=ICV

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 247736 MSVOA Water: EPA 8260B

Inst : MSVOA09 Name : 826GOX9W
Calnum : 483147320002 Date : 12-APR-2013 16:14 Type : WATER
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	idc14	483147320014		12-APR-2013 16:14	S21889 (2000000X), S21761 (1000000X), S21635 (2000000X), S21908 (2000000X), S22165 (5000X)
L2	idc15	483147320015		12-APR-2013 16:49	S21889 (1000000X), S21761 (500000X), S21635 (1000000X), S21908 (1000000X), S22165 (5000X)
L3	idc16	483147320016		12-APR-2013 17:23	S21889 (250000X), S21761 (250000X), S21635 (500000X), S21908 (250000X), S22165 (5000X)
L4	idc17	483147320017		12-APR-2013 17:58	S21889 (100000X), S21761 (100000X), S21635 (200000X), S21908 (100000X), S22165 (5000X)
L5	idc18	483147320018		12-APR-2013 18:32	S21889 (50000X), S21761 (50000X), S21635 (100000X), S21908 (50000X), S22165 (5000X)
L6	idc19	483147320019		12-APR-2013 19:06	S21889 (25000X), S21761 (25000X), S21635 (50000X), S21908 (25000X), S22165 (5000X)
L7	idc20	483147320020		12-APR-2013 19:41	S21889 (10000X), S21761 (10000X), S21635 (20000X), S21908 (10000X), S22165 (5000X)
L8	idc21	483147320021		12-APR-2013 20:15	S21889 (6667X), S21761 (6667X), S21635 (13330X), S21908 (6667X), S22165 (5000X)
L9	idc22	483147320022		12-APR-2013 20:50	S21889 (5000X), S21761 (5000X), S21635 (10000X), S21908 (5000X), S22165 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Chloromethane	0.6814	0.6494	0.6139	0.5558	0.5799	0.6241	0.5400	0.5369	0.5279	AVRG		1.69513		0.5899	9	15	0.10	0.99	
Vinyl Chloride	0.3855	0.4200	0.3887	0.3695	0.3820	0.4169	0.3727	0.3276	0.3327	AVRG		2.65044		0.3773	8	15	0.05	0.99	
Bromomethane		0.1642m	0.1655	0.1593	0.1706	0.2125	0.2143	0.1889	0.2101	AVRG		5.38545		0.1857	13	15	0.05	0.99	
Chloroethane		0.2946m	0.2784	0.2570	0.2538	0.2779	0.2452	0.2137	0.2217	AVRG		3.91703		0.2553	11	15	0.05	0.99	
Trichlorofluoromethane		0.4651	0.4719	0.4475	0.4536	0.4826	0.4441	0.4438	0.4259	AVRG		2.20107		0.4543	4	15	0.05	0.99	
Freon 113		0.1862	0.2660	0.2461	0.2318	0.2487	0.2484	0.2599	0.2472	AVRG		4.13554		0.2418	10	15	0.05	0.99	
1,1-Dichloroethene		0.2949	0.2791	0.2696	0.2662	0.2847	0.2651	0.2735	0.2650	AVRG		3.63951		0.2748	4	15	0.05	0.99	
Methylene Chloride		0.3676	0.3880	0.3662	0.3658	0.3832	0.3550	0.3524	0.3485	AVRG		2.73350		0.3658	4	15	0.05	0.99	
trans-1,2-Dichloroethene		0.3484	0.3170	0.3139	0.3128	0.3296	0.3141	0.3250	0.3082	AVRG		3.11415		0.3211	4	15	0.05	0.99	
1,1-Dichloroethane		0.7302	0.6930	0.6590	0.6930	0.7100	0.6572	0.6603	0.6285	AVRG		1.47296		0.6789	5	15	0.10	0.99	
cis-1,2-Dichloroethene		0.3834	0.3921	0.3581	0.3614	0.3787	0.3595	0.3621	0.3545	AVRG		2.71194		0.3687	4	15	0.05	0.99	
Chloroform		0.6132	0.6115	0.5692	0.6017	0.6153	0.5736	0.5814	0.5517	AVRG		1.69581		0.5897	4	15	0.05	0.99	
1,1,1-Trichloroethane		0.4418	0.4519	0.4104	0.4142	0.4274	0.4084	0.4136	0.4007	AVRG		2.37493		0.4211	4	15	0.05	0.99	
Carbon Tetrachloride		0.2464	0.2455	0.2319	0.2346	0.2470	0.2412	0.2501	0.2449	AVRG		4.12026		0.2427	3	15	0.05	0.99	
1,2-Dichloroethane		0.2796	0.2983	0.2627	0.2789	0.2870	0.2671	0.2774	0.2629	AVRG		3.61359		0.2767	4	15	0.05	0.99	
Trichloroethene		0.2300	0.2297	0.2097	0.2309	0.2310	0.2258	0.2279	0.2152	AVRG		4.44407		0.2250	4	15	0.05	0.99	
1,2-Dichloropropane		0.2917	0.2909	0.2705	0.2831	0.2920	0.2676	0.2703	0.2583	AVRG		3.59643		0.2781	5	15	0.05	0.99	
Bromodichloromethane		0.3031	0.2955	0.2794	0.2950	0.3098	0.2911	0.2973	0.2913	AVRG		3.38608		0.2953	3	15	0.05	0.99	
cis-1,3-Dichloropropene		0.3400	0.3513	0.3238	0.3447	0.3593	0.3325	0.3378	0.3195	AVRG		2.95316		0.3386	4	15	0.05	0.99	
trans-1,3-Dichloropropene		0.3464	0.4017	0.3801	0.4071	0.4232	0.4010	0.4025	0.3975	AVRG		2.53191		0.3950	6	15	0.05	0.99	
1,1,2-Trichloroethane		0.1229	0.1381	0.1341	0.1389	0.1422	0.1348	0.1400	0.1378	AVRG		7.34592		0.1361	4	15	0.05	0.99	
Tetrachloroethene		0.2574	0.2560	0.2447	0.2511	0.2625	0.2628	0.2708	0.2614	AVRG		3.87089		0.2583	3	15	0.05	0.99	
Dibromochloromethane		0.2610	0.2700	0.2703	0.2853	0.3091	0.2899	0.3118	0.3106	AVRG		3.46628		0.2885	7	15	0.05	0.99	
Chlorobenzene		0.7289	0.7712	0.7297	0.7391	0.7635	0.7239	0.7273	0.7034	AVRG		1.35891		0.7359	3	15	0.30	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Bromoform		0.1254	0.1609	0.1577	0.1699	0.1795	0.1824	0.1944	0.1990	AVRG		5.84287		0.1711	14	15	0.10	0.99	
1,1,2,2-Tetrachloroethane		0.5668	0.6096	0.5952	0.5871	0.6072	0.5649	0.6160	0.6253	AVRG		1.67647		0.5965	4	15	0.30	0.99	
1,3-Dichlorobenzene		0.9508	1.0994	1.0608	1.0408	1.1101	1.0904	1.0959	1.0953	AVRG		0.93638		1.0679	5	15	0.05	0.99	
1,4-Dichlorobenzene		1.0187	1.0892	1.0456	1.0709	1.0859	1.0743	1.0917	1.0938	AVRG		0.93347		1.0713	2	15	0.05	0.99	
1,2-Dichlorobenzene		0.8927	1.0783	1.0048	1.0073	1.0683	1.0544	1.0697	1.0611	AVRG		0.97127		1.0296	6	15	0.05	0.99	
1,2-Dichloroethane-d4	0.3101	0.3096	0.3146	0.3177	0.3128	0.3105	0.2957	0.2978	0.2777	AVRG		3.27684		0.3052	4	15	0.05	0.99	
Toluene-d8	1.2928	1.3445	1.3757	1.3977	1.4204	1.4087	1.4242	1.4355	1.3842	AVRG		0.72094		1.3871	3	15	0.05	0.99	
Bromofluorobenzene	1.0104	1.0400	1.0558	1.0411	1.0470	1.0375	1.0504	0.9933	1.0202	AVRG		0.96818		1.0329	2	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Chloromethane	0.5000	16	1.0000	10	2.0000	4	5.0000	-6	10.000	-2	20.000	6	50.000	-8	75.000	-9	100.00	-11
Vinyl Chloride	0.5000	2	1.0000	11	2.0000	3	5.0000	-2	10.000	1	20.000	10	50.000	-1	75.000	-13	100.00	-12
Bromomethane			1.0000	-12	2.0000	-11	5.0000	-14	10.000	-8	20.000	14	50.000	15	75.000	2	100.00	13
Chloroethane			1.0000	15	2.0000	9	5.0000	1	10.000	-1	20.000	9	50.000	-4	75.000	-16	100.00	-13
Trichlorofluoromethane			1.0000	2	2.0000	4	5.0000	-2	10.000	0	20.000	6	50.000	-2	75.000	-2	100.00	-6
Freon 113			0.5000	**-23**	2.0000	10	5.0000	2	10.000	-4	20.000	3	50.000	3	75.000	8	100.00	2
1,1-Dichloroethene			0.5000	7	2.0000	2	5.0000	-2	10.000	-3	20.000	4	50.000	-4	75.000	0	100.00	-4
Methylene Chloride			0.5000	0	2.0000	6	5.0000	0	10.000	0	20.000	5	50.000	-3	75.000	-4	100.00	-5
trans-1,2-Dichloroethene			0.5000	8	2.0000	-1	5.0000	-2	10.000	-3	20.000	3	50.000	-2	75.000	1	100.00	-4
1,1-Dichloroethane			0.5000	8	2.0000	2	5.0000	-3	10.000	2	20.000	5	50.000	-3	75.000	-3	100.00	-7
cis-1,2-Dichloroethene			0.5000	4	2.0000	6	5.0000	-3	10.000	-2	20.000	3	50.000	-2	75.000	-2	100.00	-4
Chloroform			0.5000	4	2.0000	4	5.0000	-3	10.000	2	20.000	4	50.000	-3	75.000	-1	100.00	-6
1,1,1-Trichloroethane			0.5000	5	2.0000	7	5.0000	-3	10.000	-2	20.000	2	50.000	-3	75.000	-2	100.00	-5
Carbon Tetrachloride			0.5000	2	2.0000	1	5.0000	-4	10.000	-3	20.000	2	50.000	-1	75.000	3	100.00	1
1,2-Dichloroethane			0.5000	1	2.0000	8	5.0000	-5	10.000	1	20.000	4	50.000	-3	75.000	0	100.00	-5
Trichloroethene			0.5000	2	2.0000	2	5.0000	-7	10.000	3	20.000	3	50.000	0	75.000	1	100.00	-4
1,2-Dichloropropane			0.5000	5	2.0000	5	5.0000	-3	10.000	2	20.000	5	50.000	-4	75.000	-3	100.00	-7
Bromodichloromethane			0.5000	3	2.0000	0	5.0000	-5	10.000	0	20.000	5	50.000	-1	75.000	1	100.00	-1
cis-1,3-Dichloropropene			0.5000	0	2.0000	4	5.0000	-4	10.000	2	20.000	6	50.000	-2	75.000	0	100.00	-6
trans-1,3-Dichloropropene			0.5000	-12	2.0000	2	5.0000	-4	10.000	3	20.000	7	50.000	2	75.000	2	100.00	1
1,1,2-Trichloroethane			0.5000	-10	2.0000	1	5.0000	-1	10.000	2	20.000	4	50.000	-1	75.000	3	100.00	1
Tetrachloroethene			0.5000	0	2.0000	-1	5.0000	-5	10.000	-3	20.000	2	50.000	2	75.000	5	100.00	1
Dibromochloromethane			0.5000	-10	2.0000	-6	5.0000	-6	10.000	-1	20.000	7	50.000	0	75.000	8	100.00	8
Chlorobenzene			0.5000	-1	2.0000	5	5.0000	-1	10.000	0	20.000	4	50.000	-2	75.000	-1	100.00	-4
Bromoform			0.5000	**-27**	2.0000	-6	5.0000	-8	10.000	-1	20.000	5	50.000	7	75.000	14	100.00	16
1,1,2,2-Tetrachloroethane			0.5000	-5	2.0000	2	5.0000	0	10.000	-2	20.000	2	50.000	-5	75.000	3	100.00	5
1,3-Dichlorobenzene			0.5000	-11	2.0000	3	5.0000	-1	10.000	-3	20.000	4	50.000	2	75.000	3	100.00	3
1,4-Dichlorobenzene			0.5000	-5	2.0000	2	5.0000	-2	10.000	0	20.000	1	50.000	0	75.000	2	100.00	2
1,2-Dichlorobenzene			0.5000	-13	2.0000	5	5.0000	-2	10.000	-2	20.000	4	50.000	2	75.000	4	100.00	3
1,2-Dichloroethane-d4	50.000	2	50.000	1	50.000	3	50.000	4	50.000	2	50.000	2	50.000	-3	50.000	-2	50.000	-9
Toluene-d8	50.000	-7	50.000	-3	50.000	-1	50.000	1	50.000	2	50.000	2	50.000	3	50.000	3	50.000	0
Bromofluorobenzene	50.000	-2	50.000	1	50.000	2	50.000	1	50.000	1	50.000	0	50.000	2	50.000	-4	50.000	-1

MJB 04/17/13 [Bromomethane]: Combined split peak in (idc15).

MJB 04/17/13 [Chloroethane]: Combined split peak in (idc15).

MJB 04/17/13 [Ethanol]: Combined split peak in (idc15).

MJB 04/17/13 [4-Methyl-2-Pentanone]: Picked or reassigned peak in (idc15).

MJB 04/17/13 [Naphthalene]: Combined split peak in (idc15).

MJB 04/17/13 : All integrations for file 15 done by TW

MJB 04/17/13 [4-Methyl-2-Pentanone]: Picked or reassigned peak in (idc18).

MJB 04/17/13 [4-Methyl-2-Pentanone]: Picked or reassigned peak in (idc19).

MJB 04/17/13 [Acetone]: Fails min RF; no 8260C samples.

MJB 04/17/13 [Iodomethane]: ICV at -63; do not run samples for this analyte.

TW 04/17/13 [Acetone]: Fails 8260C min RF; Acetone cannot be reported for 8260C jobs from this calibration. Meets Avg RF criteria for 8260B.

Analyst: MJB Date: 04/17/13 Reviewer: TW Date: 04/17/13

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 247736 MSVOA Water
EPA 8260B

Inst : MSVOA09 Name : 826GOX9W
Calnum : 483147320002 Cal Date : 12-APR-2013 Type : WATER

ICV 483147320023 (idc23 12-APR-2013) stds: S21932 (10000X), S22165 (5000X)
ICV 483147320024 (idc24 12-APR-2013) stds: S21957 (10000X), S22045 (10000X), S22146 (10000X), S22165 (5000X)

Analyte	ICV Seqnum	Spiked	Quant	Units	%D	Max	Flags
Chloromethane	483147320023	20.00	19.18	ug/L	-4	30	
Vinyl Chloride	483147320023	20.00	21.44	ug/L	7	20	
Bromomethane	483147320023	20.00	14.73	ug/L	**-26**	30	!v- m
Chloroethane	483147320023	20.00	18.42	ug/L	-8	30	
Trichlorofluoromethane	483147320023	20.00	19.86	ug/L	-1	30	
Freon 113	483147320024	25.00	27.29	ug/L	9	30	
1,1-Dichloroethene	483147320024	25.00	25.97	ug/L	4	20	
Methylene Chloride	483147320024	25.00	26.16	ug/L	5	30	
trans-1,2-Dichloroethene	483147320024	25.00	27.41	ug/L	10	30	
1,1-Dichloroethane	483147320024	25.00	25.36	ug/L	1	30	
cis-1,2-Dichloroethene	483147320024	25.00	26.70	ug/L	7	30	
Chloroform	483147320024	25.00	26.04	ug/L	4	20	
1,1,1-Trichloroethane	483147320024	25.00	25.61	ug/L	2	30	
Carbon Tetrachloride	483147320024	25.00	27.14	ug/L	9	30	
1,2-Dichloroethane	483147320024	25.00	25.77	ug/L	3	30	
Trichloroethene	483147320024	25.00	26.74	ug/L	7	30	
1,2-Dichloropropane	483147320024	25.00	25.30	ug/L	1	20	
Bromodichloromethane	483147320024	25.00	26.42	ug/L	6	30	
cis-1,3-Dichloropropene	483147320024	25.00	29.58	ug/L	18	30	
trans-1,3-Dichloropropene	483147320024	25.00	25.99	ug/L	4	30	
1,1,2-Trichloroethane	483147320024	25.00	27.32	ug/L	9	30	
Tetrachloroethene	483147320024	25.00	26.94	ug/L	8	30	
Dibromochloromethane	483147320024	25.00	27.10	ug/L	8	30	
Chlorobenzene	483147320024	25.00	24.83	ug/L	-1	30	
Bromoform	483147320024	25.00	29.82	ug/L	19	30	
1,1,2,2-Tetrachloroethane	483147320024	25.00	28.35	ug/L	13	30	
1,3-Dichlorobenzene	483147320024	25.00	25.42	ug/L	2	30	
1,4-Dichlorobenzene	483147320024	25.00	27.83	ug/L	11	30	
1,2-Dichlorobenzene	483147320024	25.00	26.05	ug/L	4	30	

483147320023: Analyst: MJB Date: 04/17/13 Reviewer: TW Date: 04/17/13
483147320024: Analyst: MJB Date: 04/17/13 Reviewer: TW Date: 04/17/13

!=warning -=low bias m=manual integration v=ICV

CURTIS & TOMPKINS SPIKE USER REPORT FOR 247736 MSVOA Water
EPA 8260B

Inst : MSVOA08 Run Name : QC701330 IDF : 1.0
Seqnum : 473323031010.2 File : hhc10 Time : 12-AUG-2013 13:47
Cal : 473114230005 Caldate : 20-MAR-2013 Caltype : WATER
Standards: S22975 (10000X), S22927 (10000X), S23020 (10000X), S22435 (10000X), S22913 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Chloromethane	0.8491	0.8802	20.00	20.73	ug/L	4	30	0.1000	u
Vinyl Chloride	0.6378	0.7400	20.00	23.20	ug/L	16	20	0.0500	u
Bromomethane	0.3863	0.5630	20.00	29.15	ug/L	**46**	30	0.0500	!v- c+ u ***
Chloroethane	0.3425	0.4098	20.00	23.93	ug/L	20	30	0.0500	u
Trichlorofluoromethane	0.6374	0.7106	20.00	22.30	ug/L	11	30	0.0500	u
Freon 113	0.4648	0.4516	25.00	24.29	ug/L	-3	30	0.0500	u
1,1-Dichloroethene	0.4788	0.4425	25.00	23.10	ug/L	-8	20	0.0500	u
Methylene Chloride	0.6142	0.5288	25.00	21.52	ug/L	-14	30	0.0500	u
trans-1,2-Dichloroethene	0.5381	0.5115	25.00	23.77	ug/L	-5	30	0.0500	u
1,1-Dichloroethane	1.0335	0.8614	25.00	20.84	ug/L	-17	30	0.1000	u
cis-1,2-Dichloroethene	0.5882	0.5549	25.00	23.59	ug/L	-6	30	0.0500	u
Chloroform	0.9246	0.8390	25.00	22.68	ug/L	-9	20	0.0500	u
1,1,1-Trichloroethane	0.6419	0.6291	25.00	24.50	ug/L	-2	30	0.0500	u
Carbon Tetrachloride	0.3428	0.3367	25.00	24.56	ug/L	-2	30	0.0500	u
1,2-Dichloroethane	0.3848	0.4382	25.00	28.47	ug/L	14	30	0.0500	u
Trichloroethene	0.3279	0.3404	25.00	25.95	ug/L	4	30	0.0500	u
1,2-Dichloropropane	0.3649	0.3418	25.00	23.41	ug/L	-6	20	0.0500	u
Bromodichloromethane	0.4093	0.4331	25.00	26.45	ug/L	6	30	0.0500	u
cis-1,3-Dichloropropene	0.4669	0.5437	25.00	29.11	ug/L	16	30	0.0500	!v+ u
trans-1,3-Dichloropropene	0.4928	0.4789	25.00	24.29	ug/L	-3	30	0.0500	u
1,1,2-Trichloroethane	0.1637	0.1566	25.00	23.92	ug/L	-4	30	0.0500	u
Tetrachloroethene	0.3512	0.3511	25.00	24.99	ug/L	0	30	0.0500	u
Dibromochloromethane	0.3567	0.3436	25.00	24.08	ug/L	-4	30	0.0500	u
Chlorobenzene	0.9607	1.0453	25.00	27.20	ug/L	9	30	0.3000	u
Bromoform	0.1963	0.1750	25.00	22.29	ug/L	-11	30	0.1000	!v+ u
1,1,2,2-Tetrachloroethane	0.6264	0.6126	25.00	24.45	ug/L	-2	30	0.3000	u
1,3-Dichlorobenzene	1.4286	1.5260	25.00	26.70	ug/L	7	30	0.0500	u
1,4-Dichlorobenzene	1.4013	1.4579	25.00	26.01	ug/L	4	30	0.0500	u
1,2-Dichlorobenzene	1.3807	1.4825	25.00	26.84	ug/L	7	30	0.0500	u
1,2-Dichloroethane-d4	0.3041	0.3350	50.00	55.08	ug/L	10	30	0.0500	u
Toluene-d8	1.2116	1.1722	50.00	48.38	ug/L	-3	30	0.0500	u
Bromofluorobenzene	0.9596	0.9650	50.00	50.28	ug/L	1	30	0.0500	u

ISTD (ICAL hck16)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	941940	1165220	23.70	10.05	10.04	-0.01
1,4-Difluorobenzene	1564588	1756071	12.24	11.23	11.23	0.00
Chlorobenzene-d5	1292144	1564881	21.11	15.68	15.67	-0.01
1,4-Dichlorobenzene-d4	691346	825419	19.39	18.47	18.47	0.00

Analyst: MJB Date: 08/14/13 Reviewer: SJD Date: 08/14/13

!=warning +=high bias -=low bias c=CCV u=use v=ICV

CURTIS & TOMPKINS SPIKE USER REPORT FOR 247736 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : QC701333 IDF : 1.0
Seqnum : 483323037006.1 File : ihc06 Time : 12-AUG-2013 10:25
Cal : 483147320002 Caldate : 12-APR-2013 Caltype : WATER
Standards: S22975 (10000X), S22927 (10000X), S23020 (10000X), S22435 (10000X), S22913 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Chloromethane	0.5899	0.4740	20.00	16.07	ug/L	-20	30	0.1000	u
Vinyl Chloride	0.3773	0.3528	20.00	18.70	ug/L	-6	20	0.0500	u
Bromomethane	0.1857	0.1518	20.00	16.35	ug/L	-18	30	0.0500	!v- u
Chloroethane	0.2553	0.2092	20.00	16.39	ug/L	-18	30	0.0500	u
Trichlorofluoromethane	0.4543	0.4076	20.00	17.94	ug/L	-10	30	0.0500	u
Freon 113	0.2418	0.2585	25.00	26.72	ug/L	7	30	0.0500	u
1,1-Dichloroethene	0.2748	0.2505	25.00	22.79	ug/L	-9	20	0.0500	u
Methylene Chloride	0.3658	0.3116	25.00	21.29	ug/L	-15	30	0.0500	u
trans-1,2-Dichloroethene	0.3211	0.2939	25.00	22.88	ug/L	-8	30	0.0500	u
1,1-Dichloroethane	0.6789	0.5087	25.00	18.73	ug/L	-25	30	0.1000	u
cis-1,2-Dichloroethene	0.3687	0.3233	25.00	21.92	ug/L	-12	30	0.0500	u
Chloroform	0.5897	0.5106	25.00	21.65	ug/L	-13	20	0.0500	u
1,1,1-Trichloroethane	0.4211	0.4060	25.00	24.11	ug/L	-4	30	0.0500	u
Carbon Tetrachloride	0.2427	0.2669	25.00	27.49	ug/L	10	30	0.0500	u
1,2-Dichloroethane	0.2767	0.2856	25.00	25.80	ug/L	3	30	0.0500	u
Trichloroethene	0.2250	0.2367	25.00	26.30	ug/L	5	30	0.0500	u
1,2-Dichloropropane	0.2781	0.2304	25.00	20.72	ug/L	-17	20	0.0500	u
Bromodichloromethane	0.2953	0.3011	25.00	25.49	ug/L	2	30	0.0500	u
cis-1,3-Dichloropropene	0.3386	0.3458	25.00	25.53	ug/L	2	30	0.0500	u
trans-1,3-Dichloropropene	0.3950	0.3517	25.00	22.26	ug/L	-11	30	0.0500	u
1,1,2-Trichloroethane	0.1361	0.1204	25.00	22.11	ug/L	-12	30	0.0500	u
Tetrachloroethene	0.2583	0.2985	25.00	28.88	ug/L	16	30	0.0500	u
Dibromochloromethane	0.2885	0.3034	25.00	26.30	ug/L	5	30	0.0500	u
Chlorobenzene	0.7359	0.8339	25.00	28.33	ug/L	13	30	0.3000	u
Bromoform	0.1711	0.1800	25.00	26.30	ug/L	5	30	0.1000	u
1,1,2,2-Tetrachloroethane	0.5965	0.4450	25.00	18.65	ug/L	-25	30	0.3000	u
1,3-Dichlorobenzene	1.0679	1.2097	25.00	28.32	ug/L	13	30	0.0500	u
1,4-Dichlorobenzene	1.0713	1.1105	25.00	25.91	ug/L	4	30	0.0500	u
1,2-Dichlorobenzene	1.0296	1.1285	25.00	27.40	ug/L	10	30	0.0500	u
1,2-Dichloroethane-d4	0.3052	0.2886	50.00	47.29	ug/L	-5	30	0.0500	u
Toluene-d8	1.3871	1.3331	50.00	48.05	ug/L	-4	30	0.0500	u
Bromofluorobenzene	1.0329	0.9479	50.00	45.89	ug/L	-8	30	0.0500	u

ISTD (ICAL idc20)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1676048	1561583	-6.83	11.44	11.40	-0.04
1,4-Difluorobenzene	2499222	2100215	-15.97	12.70	12.66	-0.04
Chlorobenzene-d5	1839785	1574080	-14.44	16.96	16.93	-0.03
1,4-Dichlorobenzene-d4	910468	876901	-3.69	19.40	19.39	-0.01

Analyst: MJB Date: 08/14/13 Reviewer: SJD Date: 08/14/13

!=warning -=low bias u=use v=ICV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247736 MSVOA Water
EPA 8260B

Inst : MSVOA09 IDF : 1.0
Seqnum : 483324446005 File : ihd05 Time : 13-AUG-2013 09:51
Cal : 483147320002 Caldate : 12-APR-2013 Caltype : WATER
Standards: S21953 (25000X), S23013 (25000X), S22920 (25000X), S21857 (25000X), S22913 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Chloromethane	0.5899	0.5525	20.00	18.73	ug/L	-6	30	0.1000	
Vinyl Chloride	0.3773	0.3922	20.00	20.79	ug/L	4	20	0.0500	
Bromomethane	0.1857	0.1404	20.00	15.12	ug/L	**-24**	30	0.0500	!c- !v-
Chloroethane	0.2553	0.2210	20.00	17.31	ug/L	-13	30	0.0500	
Trichlorofluoromethane	0.4543	0.4998	20.00	22.00	ug/L	10	30	0.0500	
Freon 113	0.2418	0.2241	20.00	18.53	ug/L	-7	30	0.0500	
1,1-Dichloroethene	0.2748	0.2195	20.00	15.98	ug/L	-20	20	0.0500	
Methylene Chloride	0.3658	0.2861	20.00	15.64	ug/L	**-22**	30	0.0500	!c-
trans-1,2-Dichloroethene	0.3211	0.2769	20.00	17.24	ug/L	-14	30	0.0500	
1,1-Dichloroethane	0.6789	0.5488	20.00	16.17	ug/L	-19	30	0.1000	
cis-1,2-Dichloroethene	0.3687	0.3227	20.00	17.50	ug/L	-12	30	0.0500	
Chloroform	0.5897	0.5390	20.00	18.28	ug/L	-9	20	0.0500	
1,1,1-Trichloroethane	0.4211	0.4151	20.00	19.72	ug/L	-1	30	0.0500	
Carbon Tetrachloride	0.2427	0.2915	20.00	24.02	ug/L	20	30	0.0500	
1,2-Dichloroethane	0.2767	0.2906	20.00	21.00	ug/L	5	30	0.0500	
Trichloroethene	0.2250	0.2218	20.00	19.72	ug/L	-1	30	0.0500	
1,2-Dichloropropane	0.2781	0.2395	20.00	17.23	ug/L	-14	20	0.0500	
Bromodichloromethane	0.2953	0.3172	20.00	21.48	ug/L	7	30	0.0500	
cis-1,3-Dichloropropene	0.3386	0.3443	20.00	20.34	ug/L	2	30	0.0500	
trans-1,3-Dichloropropene	0.3950	0.3803	20.00	19.26	ug/L	-4	30	0.0500	
1,1,2-Trichloroethane	0.1361	0.1156	20.00	16.99	ug/L	-15	30	0.0500	
Tetrachloroethene	0.2583	0.2932	20.00	22.70	ug/L	14	30	0.0500	
Dibromochloromethane	0.2885	0.2992	20.00	20.74	ug/L	4	30	0.0500	
Chlorobenzene	0.7359	0.7472	20.00	20.31	ug/L	2	30	0.3000	
Bromoform	0.1711	0.1882	20.00	22.00	ug/L	10	30	0.1000	
1,1,2,2-Tetrachloroethane	0.5965	0.4368	20.00	14.65	ug/L	**-27**	30	0.3000	!c-
1,3-Dichlorobenzene	1.0679	1.0708	20.00	20.05	ug/L	0	30	0.0500	
1,4-Dichlorobenzene	1.0713	1.0494	20.00	19.59	ug/L	-2	30	0.0500	
1,2-Dichlorobenzene	1.0296	1.0621	20.00	20.63	ug/L	3	30	0.0500	
1,2-Dichloroethane-d4	0.3052	0.3167	50.00	51.89	ug/L	4	30	0.0500	
Toluene-d8	1.3871	1.2674	50.00	45.69	ug/L	-9	30	0.0500	
Bromofluorobenzene	1.0329	0.9002	50.00	43.58	ug/L	-13	30	0.0500	

ISTD (ICAL idc20)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1676048	1516284	-9.53	11.44	11.40	-0.04
1,4-Difluorobenzene	2499222	1999631	-19.99	12.70	12.66	-0.04
Chlorobenzene-d5	1839785	1615774	-12.18	16.96	16.93	-0.03
1,4-Dichlorobenzene-d4	910468	903636	-0.75	19.40	19.39	-0.01

Analyst: MJB Date: 08/13/13 Reviewer: BO Date: 08/14/13

!=warning -=low bias c=CCV v=ICV

Logbooks & Sequences

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 473323031

Date : 08/12/13 Reference : hck16
Sequence : MSVOA08 hhc Analyzed : 03/20/13 19:32

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	941940	10.05	1564588	11.23	1292144	15.68	691346	18.47
		LOWER LIMIT	470970	9.55	782294	10.73	646072	15.18	345673	17.97
		UPPER LIMIT	1883880	10.55	3129176	11.73	2584288	16.18	1382692	18.97
005	CCV		1177008	10.04	1724167	11.22	1508741	15.67	836714	18.47
006	CCV/BS	QC701330	1187028	10.04	1777955	11.22	1556191	15.67	848436	18.47
009	CCV		1172901	10.04	1762867	11.22	1540269	15.67	828689	18.47
010	CCV/BS	QC701330	1165220	10.04	1756071	11.23	1564881	15.67	825419	18.47
011	BSD	QC701331	1213029	10.04	1804255	11.22	1561528	15.67	845956	18.47
013	BLANK	QC701332	1077286	10.04	1617313	11.23	1399844	15.67	685545	18.46
014	SAMPLE	247761-001	1172690	10.03	1733198	11.22	1510172	15.67	784948	18.46
015	SAMPLE	247761-003	1161390	10.04	1742776	11.22	1495560	15.67	772350	18.46
016	SAMPLE	247761-004	1123015	10.03	1722067	11.22	1492977	15.66	763883	18.46
017	MSS	247736-007	1148123	10.04	1735024	11.22	1504973	15.67	780950	18.46
018	SAMPLE	247736-011	1130019	10.04	1696001	11.22	1484471	15.67	748347	18.46
019	SAMPLE	247748-001	1118525	10.04	1669180	11.22	1465360	15.66	755274	18.46
020	SAMPLE	247748-002	1055588	10.04	1563494	11.22	1344957	15.67	690290	18.46
021	SAMPLE	247749-001	1084341	10.04	1644833	11.22	1421968	15.67	735663	18.46
022	SAMPLE	247857-001	1128808	10.03	1679522	11.22	1472500	15.67	767531	18.46
023	SAMPLE	247761-006	1095580	10.04	1633059	11.23	1429804	15.66	771117	18.46
024	SAMPLE	247761-002	1117956	10.03	1676472	11.22	1425988	15.67	742546	18.46
025	SAMPLE	247761-005	1080699	10.04	1620725	11.22	1422048	15.67	748519	18.46
026	MS	QC701406	1105228	10.04	1683111	11.22	1467674	15.66	780637	18.47
027	MSD	QC701407	1140435	10.04	1734648	11.22	1503585	15.67	800697	18.47

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 483323037

Date : 08/12/13 Reference : idc20
Sequence : MSVOA09 ihc Analyzed : 04/12/13 19:41

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	1676048	11.44	2499222	12.70	1839785	16.96	910468	19.40
		LOWER LIMIT	838024	10.94	1249611	12.20	919893	16.46	455234	18.90
		UPPER LIMIT	3352096	11.94	4998444	13.20	3679570	17.46	1820936	19.90
005	CCV		1327943	11.40	1804663	12.66	1442990	16.93	791216	19.39
006	CCV/BS	QC701333	1561583	11.40	2100215	12.66	1574080	16.93	876901	19.39
007	BSD	QC701334	1580849	11.41	2118161	12.68	1651733	16.93	904313	19.39
009	BLANK	QC701335	1431440	11.43	1913648	12.70	1464571	16.96	753052	19.41
010	SAMPLE	247752-002	1541102	11.42	2061173	12.69	1576705	16.95	863647	19.39
011	SAMPLE	247823-001	1431607	11.42	1863893	12.68	1414152	16.95	751082	19.39
012	SAMPLE	247823-002	1452169	11.42	1915438	12.68	1527447	16.94	794284	19.39
013	SAMPLE	247736-002	1472475	11.42	1957710	12.69	1516908	16.95	825167	19.39
014	MSS	247736-004	1446503	11.42	1885249	12.68	1479305	16.94	795367	19.40
015	SAMPLE	247736-005	1442793	11.42	1885483	12.69	1510595	16.94	783239	19.40
016	SAMPLE	247736-006	1469487	11.42	1850686	12.69	1471769	16.95	795521	19.39
017	SAMPLE	247736-008	1428281	11.42	1893458	12.69	1465462	16.94	728716	19.40
018	SAMPLE	247736-009	1400286	11.42	1882306	12.69	1428366	16.95	795721	19.40
019	SAMPLE	247736-010	1414066	11.42	1901708	12.68	1461667	16.94	775554	19.40
020	SAMPLE	247736-001	1417784	11.43	1881002	12.69	1489234	16.95	807515	19.40
021	SAMPLE	247736-003	1443835	11.42	1884931	12.69	1500899	16.94	772953	19.39
022	SAMPLE	247752-001	1401256	11.43	1842025	12.69	1468055	16.95	890127	19.40
023	MS	QC701354	1631565	11.43	2176759	12.69	1700756	16.95	929392	19.39
024	MSD	QC701355	1640747	11.42	2145905	12.69	1693721	16.95	934428	19.39

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 483324446

Date : 08/13/13 Reference : idc20
Sequence : MSVOA09 ihd Analyzed : 04/12/13 19:41

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	1676048	11.44	2499222	12.70	1839785	16.96	910468	19.40
		LOWER LIMIT	838024	10.94	1249611	12.20	919893	16.46	455234	18.90
		UPPER LIMIT	3352096	11.94	4998444	13.20	3679570	17.46	1820936	19.90
005	CCV		1516284	11.40	1999631	12.66	1615774	16.93	903636	19.39
006	BS	QC701535	1584711	11.41	2143761	12.68	1606986	16.93	892018	19.39
007	BSD	QC701536	1516483	11.41	1968784	12.68	1538216	16.94	843630	19.40
009	BLANK	QC701537	1568772	11.42	2066647	12.69	1597655	16.95	864966	19.40
010	SAMPLE	247738-003	1541341	11.42	2038536	12.69	1579359	16.95	833093	19.40
011	SAMPLE	247738-001	1500489	11.42	1949128	12.69	1548557	16.95	822151	19.39
012	SAMPLE	247738-002	1465372	11.42	1919172	12.68	1507443	16.94	822404	19.40
013	SAMPLE	247736-001	1462028	11.43	1956092	12.69	1526050	16.95	796816	19.40
014	SAMPLE	247736-003	1473880	11.42	1952212	12.69	1501233	16.94	831595	19.40
015	MSS	247736-007	1437457	11.43	1944022	12.69	1512909	16.95	798603	19.40
016	SAMPLE	247738-008	1339719	11.42	1821775	12.69	1427799	16.94	733857	19.40
017	SAMPLE	247761-003	1407924	11.42	1874709	12.69	1456504	16.95	783483	19.39
018	SAMPLE	247761-006	1412882	11.43	1899785	12.69	1485662	16.95	808866	19.40
019	SAMPLE	247761-004	1343316	11.42	1779217	12.69	1368649	16.95	724821	19.40
020	SAMPLE	247818-010	1341016	11.43	1751177	12.69	1381386	16.95	725796	19.40
021	SAMPLE	247818-009	1317361	11.43	1731454	12.69	1320321	16.95	718352	19.40
022	MS	QC701354	1415215	11.43	1892417	12.69	1543309	16.95	850396	19.40
023	MSD	QC701355	1500265	11.43	2005725	12.70	1536716	16.95	884707	19.40
025	IB		1497514	11.43	2015607	12.69	1532522	16.95	829258	19.39
026	IB		1471179	11.43	1958078	12.69	1549017	16.95	829479	19.40

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 473114230

Instrument : MSVOA08 Begun : 03/20/13 07:50
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	hck01	X	IB			03/20/13 07:50	1.0	1	
002	hck02	X	IB			03/20/13 10:58	1.0	1	
003	hck03	X	IB			03/20/13 11:36	1.0	1	
004	hck04	X	IB			03/20/13 12:13	1.0	1	
005	hck05	X	IB			03/20/13 12:50	1.0	1	
006	hck06	TUN	BFB			03/20/13 13:23	1.0	2	t
007	hck07	TUN	BFB			03/20/13 14:05	1.0	2	
008	hck08	X	IB			03/20/13 14:30	1.0	1	
009	hck09	IB	CALIB			03/20/13 15:07	1.0	1	
010	hck10	ICAL				03/20/13 15:46	1.0	3 4 5 6 1	
011	hck11	ICAL				03/20/13 16:23	1.0	3 4 5 6 1	
012	hck12	ICAL				03/20/13 17:00	1.0	3 4 5 6 1	
013	hck13	ICAL				03/20/13 17:40	1.0	3 4 5 6 1	
014	hck14	ICAL				03/20/13 18:18	1.0	3 4 5 6 1	
015	hck15	ICAL				03/20/13 18:55	1.0	3 4 5 6 1	
016	hck16	ICAL				03/20/13 19:32	1.0	3 4 5 6 1	
017	hck17	ICAL				03/20/13 20:10	1.0	3 4 5 6 1	
018	hck18	ICAL				03/20/13 21:08	1.0	3 4 5 6 1	
019	hck19	ICV				03/20/13 21:54	1.0	7 1	
020	hck20	ICV				03/20/13 22:40	1.0	8 9 1 10	
021	hck21	X	IB			03/20/13 23:28	1.0	1	
022	hck22	X	IB			03/21/13 00:21	1.0	1	

MJB 03/22/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 22.

Analyst: MJB Date: 03/22/13 Reviewer: LW Date: 03/22/13

Standards used: 1=S21822 2=S21369 3=S21889 4=S21576 5=S21635 6=S21908 7=S21932 8=S21957 9=S21915 10=S21791

Flags used: t=tune failure

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 473323031

Instrument : MSVOA08 Begun : 08/12/13 07:51
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	hhc01	X	HIGH GASES			08/12/13 07:51	1.0	1	
002	hhc02	X	IB			08/12/13 08:29	1.0	1	
003	hhc03	TUN	BFB			08/12/13 10:13	1.0	2	t
004	hhc04	TUN	BFB			08/12/13 10:30	1.0	2	
005	hhc05	CCV				08/12/13 10:56	1.0	3 4 5 6 1	cc-
006	hhc06	CCV/BS	QC701330	Water	201576	08/12/13 11:33	1.0	7 8 9 10 1	
007	hhc07	TUN	BFB			08/12/13 12:31	1.0	2	t
008	hhc08	TUN	BFB			08/12/13 12:43	1.0	2	
009	hhc09	CCV				08/12/13 13:09	1.0	3 4 5 6 1	cc-
010	hhc10	CCV/BS	QC701330	Water	201576	08/12/13 13:47	1.0	7 8 9 10 1	
011	hhc11	BSD	QC701331	Water	201576	08/12/13 14:24	1.0	7 8 9 10 1	
012	hhc12	X	A/A			08/12/13 15:02	1.0	11 1	
013	hhc13	BLANK	QC701332	Water	201576	08/12/13 15:40	1.0	1	
014	hhc14	SAMPLE	247761-001	Water	201576	08/12/13 16:17	1.0	1	pH > 2
015	hhc15	SAMPLE	247761-003	Water	201576	08/12/13 16:54	1.0	1	pH > 2, 1:VC=230
016	hhc16	SAMPLE	247761-004	Water	201576	08/12/13 17:31	1.0	1	pH > 2, 1:VC=510
017	hhc17	MSS	247736-007	Water	201576	08/12/13 18:08	1.0	1	
018	hhc18	SAMPLE	247736-011	Water	201576	08/12/13 18:45	1.0	1	
019	hhc19	SAMPLE	247748-001	Water	201576	08/12/13 19:22	1.0	1	
020	hhc20	SAMPLE	247748-002	Water	201576	08/12/13 19:59	1.0	1	
021	hhc21	SAMPLE	247749-001	Water	201576	08/12/13 20:37	1.0	1	
022	hhc22	SAMPLE	247857-001	Water	201576	08/12/13 21:14	1.0	1	
023	hhc23	SAMPLE	247761-006	Water	201576	08/12/13 21:51	5.0	1	pH > 2, 1:EBZ=110
024	hhc24	SAMPLE	247761-002	Water	201576	08/12/13 22:28	16.67	1	pH > 2
025	hhc25	SAMPLE	247761-005	Water	201576	08/12/13 23:05	400.0	1	pH > 2, 1:XYLMP=210
026	hhc26	MS	QC701406	Water	201576	08/12/13 23:42	1.0	7 8 9 10 1	
027	hhc27	MSD	QC701407	Water	201576	08/13/13 00:20	1.0	7 8 9 10 1	
028	hhc28	X	HIGH GAS		201576	08/13/13 00:57	1.0	1	

MJB 08/12/13 : Changed tune after file 6.

MJB 08/13/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 28.

SJD 08/13/13 : Please work up MSS/MS/MSD and just not choose Vinyl Chloride. Only need to re-run MSS.

Analyst: MJB Date: 08/13/13 Reviewer: SJD Date: 08/13/13

Standards used: 1=S22913 2=S22624 3=S21953 4=S23013 5=S22920 6=S21857 7=S22975 8=S22927 9=S23020 10=S22435 11=S22949

Flags used: -=low bias cc=CCV CCC failure t=tune failure

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 483147320

Instrument : MSVOA09 Begun : 04/12/13 07:20
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	idc01	X	IB			04/12/13 07:20	1.0	1	
002	idc02	TUN	BFB			04/12/13 08:59	1.0	2	
003	idc03	CCV				04/12/13 09:25	1.0	3 4 5 6 7	cc+ , 80:ETHANOL=73000
004	idc04	BS	QC684032	Water	197328	04/12/13 09:58	1.0	8 9 10 11 7	spk cc+ , 79:ETHANOL=80000
005	idc05	BSD	QC684033	Water	197328	04/12/13 10:31	1.0	8 9 10 11 7	spk cc+ , 79:ETHANOL=190000
008	idc08	IB				04/12/13 11:03	197100	7	
009	idc09	BLANK	QC684034	Water	197328	04/12/13 11:36	1.0	7	cc+
010	idc10	CCV				04/12/13 13:05	1.0	3 4 5 6 7	cc+
011	idc11	TUN	BFB			04/12/13 14:37	1.0	2	
012	idc12	IB				04/12/13 15:05	197200	7	
013	idc13	IB	CALIB			04/12/13 15:40	197200	7	
014	idc14	ICAL				04/12/13 16:14	1.0	5 6 3 4 7	
015	idc15	ICAL				04/12/13 16:49	1.0	5 6 3 4 7	
016	idc16	ICAL				04/12/13 17:23	1.0	5 6 3 4 7	
017	idc17	ICAL				04/12/13 17:58	1.0	5 6 3 4 7	
018	idc18	ICAL				04/12/13 18:32	1.0	5 6 3 4 7	
019	idc19	ICAL				04/12/13 19:06	1.0	5 6 3 4 7	
020	idc20	ICAL				04/12/13 19:41	1.0	5 6 3 4 7	
021	idc21	ICAL				04/12/13 20:15	1.0	5 6 3 4 7	
022	idc22	ICAL				04/12/13 20:50	1.0	5 6 3 4 7	
023	idc23	ICV				04/12/13 21:24	1.0	11 7	
024	idc24	ICV				04/12/13 21:59	1.0	8 9 10 7	
025	idc25	X	IB			04/12/13 22:34	1.0	7	
026	idc26	X	IB			04/12/13 23:08	1.0	7	

MJB 04/17/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 26.

Analyst: MJB Date: 04/17/13 Reviewer: TW Date: 04/17/13

Standards used: 1=S21822 2=S21369 3=S21635 4=S21908 5=S21889 6=S21761 7=S22165 8=S21957 9=S22045 10=S22146 11=S21932

Flags used: +=high bias cc=CCV CCC failure spk=5% spike rule

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 483323037

Instrument : MSVOA09 Begun : 08/12/13 07:57
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	ihc01	X	HIGH GASES			08/12/13 07:57	1.0	1	
002	ihc02	X	IB			08/12/13 08:32	1.0	1	
003	ihc03	TUN	BFB			08/12/13 09:07	1.0	2	t
004	ihc04	TUN	BFB			08/12/13 09:21	1.0	2	
005	ihc05	CCV				08/12/13 09:51	1.0	3 4 5 6 1	cc+
006	ihc06	CCV/BS	QC701333	Water	201577	08/12/13 10:25	1.0	7 8 9 10 1	
007	ihc07	BSD	QC701334	Water	201577	08/12/13 10:59	1.0	7 8 9 10 1	
008	ihc08	X	A/A			08/12/13 11:33	1.0	11 1	
009	ihc09	BLANK	QC701335	Water	201577	08/12/13 12:07	1.0	1	
010	ihc10	SAMPLE	247752-002	Water	201577	08/12/13 12:41	1.0	1	
011	ihc11	SAMPLE	247823-001	Water	201577	08/12/13 13:15	1.0	1	
012	ihc12	SAMPLE	247823-002	Water	201577	08/12/13 13:49	1.0	1	
013	ihc13	SAMPLE	247736-002	Water	201577	08/12/13 14:23	1.0	1	
014	ihc14	MSS	247736-004	Water	201577	08/12/13 14:57	1.0	1	
015	ihc15	SAMPLE	247736-005	Water	201577	08/12/13 15:32	1.0	1	
016	ihc16	SAMPLE	247736-006	Water	201577	08/12/13 16:06	1.0	1	
017	ihc17	SAMPLE	247736-008	Water	201577	08/12/13 16:40	1.0	1	
018	ihc18	SAMPLE	247736-009	Water	201577	08/12/13 17:14	1.0	1	
019	ihc19	SAMPLE	247736-010	Water	201577	08/12/13 17:48	1.0	1	
020	ihc20	SAMPLE	247736-001	Water	201577	08/12/13 18:22	2.0	1	
021	ihc21	SAMPLE	247736-003	Water	201577	08/12/13 18:56	2.0	1	
022	ihc22	SAMPLE	247752-001	Water	201577	08/12/13 19:30	5.0	1	headspace <= 1 mL, 1:STY=1800
023	ihc23	MS	QC701354	Water	201577	08/12/13 20:04	1.0	7 8 9 10 1	
024	ihc24	MSD	QC701355	Water	201577	08/12/13 20:38	1.0	7 8 9 10 1	
025	ihc25	X	HIGH GAS		201577	08/12/13 21:12	1.0	1	
026	ihc26	X	IB			08/12/13 21:46	1.0	1	
027	ihc27	X	IB			08/12/13 22:20	1.0	1	

MJB 08/13/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 27.

Analyst: MJB Date: 08/13/13 Reviewer: BO Date: 08/13/13

Standards used: 1=S22913 2=S22624 3=S21953 4=S23013 5=S22920 6=S21857 7=S22975 8=S22927 9=S23020 10=S22435 11=S22949

Flags used: +=high bias cc=CCV CCC failure t=tune failure

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 483324446

Instrument : MSVOA09 Begun : 08/13/13 07:26
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	ihd01	X	HIGH GASES			08/13/13 07:26	1.0	1	
002	ihd02	X	IB			08/13/13 08:00	1.0	1	
003	ihd03	TUN	BFB			08/13/13 09:08	1.0	2	t
004	ihd04	TUN	BFB			08/13/13 09:23	1.0	2	
005	ihd05	CCV				08/13/13 09:51	1.0	3 4 5 6 1	
006	ihd06	BS	QC701535	Water	201624	08/13/13 10:25	1.0	7 8 9 10 1	
007	ihd07	BSD	QC701536	Water	201624	08/13/13 10:59	1.0	7 8 9 10 1	
008	ihd08	X	A/A			08/13/13 11:33	1.0	11 1	
009	ihd09	BLANK	QC701537	Water	201624	08/13/13 12:07	1.0	1	
010	ihd10	SAMPLE	247738-003	Water	201624	08/13/13 12:41	1.0	1	
011	ihd11	SAMPLE	247738-001	Water	201624	08/13/13 13:15	1.0	1	
012	ihd12	SAMPLE	247738-002	Water	201624	08/13/13 13:49	1.0	1	
013	ihd13	SAMPLE	247736-001	Water	201624	08/13/13 14:24	1.0	1	
014	ihd14	SAMPLE	247736-003	Water	201624	08/13/13 14:58	1.0	1	headspace <= 1 mL
015	ihd15	MSS	247736-007	Water	201624	08/13/13 15:32	1.0	1	
016	ihd16	SAMPLE	247738-008	Water	201624	08/13/13 16:06	2.0	1	
017	ihd17	SAMPLE	247761-003	Water	201624	08/13/13 16:40	5.0	1	pH > 2
018	ihd18	SAMPLE	247761-006	Water	201624	08/13/13 17:14	10.0	1	pH > 2
019	ihd19	SAMPLE	247761-004	Water	201624	08/13/13 17:48	25.0	1	pH > 2
020	ihd20	SAMPLE	247818-010	Water	201624	08/13/13 18:22	1.0	1	pH > 2
021	ihd21	SAMPLE	247818-009	Water	201624	08/13/13 18:56	5.0	1	
022	ihd22	MS	QC701354	Water	201577	08/13/13 19:30	1.0	7 8 9 10 1	
023	ihd23	MSD	QC701355	Water	201577	08/13/13 20:04	1.0	7 8 9 10 1	
024	ihd24	X	HIGH GAS		201624	08/13/13 20:38	1.0	1	
025	ihd25	IB				08/13/13 21:12	201600	1	
026	ihd26	IB				08/13/13 21:47	201600	1	<<t

MJB 08/14/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 26.

MJB 08/14/13 : Matrix spikes were not performed for this analysis in batch 201624 due to insufficient sample amount.

Analyst: MJB Date: 08/14/13 Reviewer: BO Date: 08/14/13

Standards used: 1=S22913 2=S22624 3=S21953 4=S23013 5=S22920 6=S21857 7=S22975 8=S22927 9=S23020 10=S22435 11=S22949

Flags used: <<t=out of clock t=tune failure

Page 1 of 1

MSVOA WATER Prepsheet Curtis & Tompkins, Ltd.

Date: 8/12/13 **Batch #:** 201576

	Sample ID	Vial	pH <2	pH (if >2)	HS?	Dil'n flask	MS#	RR	DF	Comments	20% ccv ?	hold	due	init date
16 1	247761-001	A		7			8	1	1x	DBCP @ .5 RL				MSB
2	-002	A		7		9		1	16.7x	VC >LR + DBCP @ .5 RL				
3	-003	B		7					1x					
4	-004	B		7					↓					
5	-005	B		7		10			400x					
6	-006	B		7		8			5x					
7	247736-007	A	✓	~~2x~~ 1x 8/13					1x					
8	-MS	BCO	✓						↓					
9	-MSD	↓	✓											
10	-011	B	✓						↓					
11	247748-001	B	✓						1x					
12	-002	A	✓						↓					
13	247749-001	B	✓						1x					
14	247857-1	B	✓						1x				8/8/13	
15														
16														
17														
18														
19														
20														
21														
22														

MSVOA WATER Prepsheet Curtis & Tompkins, Ltd.

Date: 8/12/13 **Batch #:** 201577

	Sample ID	Vial	pH <2	pH (if >2)	HS?	Dil'n flask	MS#	RR	DF	Comments	20% ccv ?	hold	due	init date
16 1	247752-001	3	✓		Bubble		9		5x					MJB
2	↓ -002	A	✓						1x					
3	247823-001	↓	✓						1x					
4	↓ -002	↓	✓						↓					
5	247736-001	B	✓			3			2x					
6	-002	↓	✓						1x					
7	-003	B							2x					
8	-004	↓	✓						1x					
9	-MS	CDE	✓						↓					
10	-MSD	↓	✓											
11	-005	A	✓											
12	-006	B	✓											
13	-008	↓	✓											
14	-009	↓	✓											
15	↓ -010	↓	✓						↓					
16														
17														
18														
19														
20														
21														
22														

MSVOA WATER Prepsheet Curtis & Tompkins, Ltd.

Date: 8/13/13 **Batch #:** 20624

	Sample ID	Vial	pH <2	pH (if >2)	HS?	Dil'n flask	MS#	RR	DF	Comments	20% ccv ?	hold	due	init date
161	247736-001	A	✓				9		1x					AGB
2	-002	↓	✓						↓					
3	-003	B	✓					1	1x	Bromomethane MB Contamination				
4	↓ -006	A	✓			5			2x					
5	247761-003	C		7		8		1	5x	VC >LR				
6	-004	↓		7		10		1	25x	↓				
7	↓ -006	↓		7		3		1	10x	Ethylbz >LR				
8	MS 247736-004	FGH	✓					1	1x	QC 701354 Batch 201577 MSG				
9	MSD ↓	↓	✓					↓	↓	↓ 355 ↓ ↓				
10	247736-001	C	✓					1	1x	OD				
11	↓ -003	A	✓		1ml			↓	↓	↓				
12	247736-007	I	✓					1	1x	VC CO ✓				
13	↓ -MS	GHE	✓						↓	} NOT NEEDED				
14	↓ -MSD	↓	✓						↓					
15														
16	247816-9	B	✓			10			5					BO 8/12
17	↓ 10	B		7					1					
18														
19														
20														
21														
22														

Laboratory Job Number 247736

ANALYTICAL REPORT

Metals

Matrix: Water

Curtis & Tompkins, Ltd.

Chromium

Lab #:	247736	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Sampled:	08/07/13
Matrix:	Water	Received:	08/08/13
Units:	ug/L	Prepared:	08/14/13
Diln Fac:	1.000	Analyzed:	08/20/13
Batch#:	201705		

Field ID	Type	Lab ID	Result	RL	MDL
GAC-02	SAMPLE	247736-002	18	5.0	0.69
GAC-03	SAMPLE	247736-003	130	5.0	0.69
COG-05	SAMPLE	247736-004	690	5.0	0.69
NE-02	SAMPLE	247736-005	12	5.0	0.69
NE-03	SAMPLE	247736-006	16	5.0	0.69
NE-04	SAMPLE	247736-007	29	5.0	0.69
GAC-102	SAMPLE	247736-010	17	5.0	0.69
	BLANK	QC701885	ND	5.0	0.69

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Chromium

Lab #:	247736	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Sampled:	08/07/13
Matrix:	Water	Received:	08/08/13
Units:	ug/L	Prepared:	08/14/13
Diln Fac:	1.000	Analyzed:	08/20/13
Batch#:	201705		

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
	BS		QC701886		200.0	211.2	106	80-120		
	BSD		QC701887		200.0	205.1	103	80-120	3	20
COG-05	MS	247736-004	QC701888	694.3	200.0	886.4	96	80-120		
COG-05	MSD	247736-004	QC701889		200.0	879.8	93	80-120	1	20
NE-04	MS	247736-007	QC701890	28.77	200.0	225.6	98	80-120		
NE-04	MSD	247736-007	QC701891		200.0	231.7	101	80-120	3	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Chromium

Lab #:	247736	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	COG-05	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	201705
MSS Lab ID:	247736-004	Sampled:	08/07/13
Lab ID:	QC702734	Received:	08/08/13
Matrix:	Water	Analyzed:	08/20/13

MSS Result	MSS RL	Result	RL	% Diff	Lim
694.3	5.000	680.3	25.00	2	10

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Chromium

Lab #:	247736	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	COG-05	Diln Fac:	1.000
Type:	Post Digest Spike	Batch#:	201705
MSS Lab ID:	247736-004	Sampled:	08/07/13
Lab ID:	QC702735	Received:	08/08/13
Matrix:	Water	Analyzed:	08/20/13

MSS Result	Spiked	Result	%REC	Limits
694.3	200.0	897.2	101	75-125

REPORTING SUMMARY FOR 247736 METALS Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CR	
247736-002	MET08	08/20/13 10:56	1.0	+	
247736-003	MET08	08/20/13 11:01	1.0	+	
247736-004	MET08	08/20/13 09:56	1.0	+	
247736-005	MET08	08/20/13 11:05	1.0	+	
247736-006	MET08	08/20/13 11:09	1.0	+	
247736-007	MET08	08/20/13 10:26	1.0	+	
247736-010	MET08	08/20/13 11:15	1.0	+	
QC701885	MET08	08/20/13 09:18	1.0	+	
QC701886	MET08	08/20/13 09:23	1.0	+	
QC701887	MET08	08/20/13 09:47	1.0	+	
QC701888	MET08	08/20/13 10:00	1.0	+	
QC701889	MET08	08/20/13 10:05	1.0	+	
QC701890	MET08	08/20/13 10:42	1.0	+	
QC701891	MET08	08/20/13 10:46	1.0	+	
QC702734	MET08	08/20/13 10:17	5.0	+	
QC702735	MET08	08/20/13 10:22	1.0	+	

ICP Data

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83334471

Instrument : MET08 Begun : 08/20/13 06:31
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	met08_sr_6010	ICALBLK				08/20/13 06:31	1.0		
002	met08_sr_6010	ICAL	CRI5.1			08/20/13 06:36	1.0	1	
003	met08_sr_6010	ICAL	CS100			08/20/13 06:41	1.0	2	
004	met08_sr_6010	ICAL	CS1K			08/20/13 06:45	1.0	3	
005	met08_sr_6010	ICAL	CS10K			08/20/13 06:50	1.0	4	
006	met08_sr_6010	ICAL	CS100K			08/20/13 06:55	1.0	5	
007	met08_sr_6010	ICV				08/20/13 07:01	1.0	6	
008	met08_sr_6010	ICB				08/20/13 07:06	1.0		
009	met08_sr_6010	ICSA				08/20/13 07:11	1.0	7	10:AL=490000
010	met08_sr_6010	ICSAB				08/20/13 07:25	1.0	8	5:AL=500000
011	met08_sr_6010	XCRI				08/20/13 07:30	1.0	9	
012	met08_sr_6010	CRI				08/20/13 07:34	1.0	9	
013	met08_sr_6010	BLANK	QC702416	Filtrate	201825	08/20/13 07:38	1.0		
014	met08_sr_6010	BS	QC702417	Filtrate	201825	08/20/13 07:44	1.0		
015	met08_sr_6010	BSD	QC702418	Filtrate	201825	08/20/13 07:48	1.0		
016	met08_sr_6010	MSS	247770-001	Filtrate	201825	08/20/13 07:52	1.0		1:CA=100000
017	met08_sr_6010	MS	QC702419	Filtrate	201825	08/20/13 07:57	1.0		2:CA=120000
018	met08_sr_6010	MSD	QC702420	Filtrate	201825	08/20/13 08:01	1.0		3:CA=130000
019	met08_sr_6010	MSS	247770-001	Filtrate	201825	08/20/13 08:05	1.0		1:CA=100000
020	met08_sr_6010	MSS	247770-001	Filtrate	201825	08/20/13 08:11	100.0		
021	met08_sr_6010	SER	QC702426	Filtrate	201825	08/20/13 08:16	5.0		
022	met08_sr_6010	CCV				08/20/13 08:21	1.0	10	
023	met08_sr_6010	CCB				08/20/13 08:26	1.0		
024	met08_sr_6010	PDS	QC702427	Filtrate	201825	08/20/13 08:31	1.0	11 12	1:CA=120000
025	met08_sr_6010	SAMPLE	247770-004	Filtrate	201825	08/20/13 08:36	1.0		1:CA=110000
026	met08_sr_6010	SAMPLE	247770-004	Filtrate	201825	08/20/13 08:41	1.0		1:CA=110000
027	met08_sr_6010	SAMPLE	247770-004	Filtrate	201825	08/20/13 08:46	100.0		
028	met08_sr_6010	MSS	247769-005	Filtrate	201671	08/20/13 08:51	5.0		3:MG=920000
029	met08_sr_6010	MS	QC701748	Filtrate	201671	08/20/13 08:58	5.0		
030	met08_sr_6010	MSD	QC701749	Filtrate	201671	08/20/13 09:04	5.0		
031	met08_sr_6010	SAMPLE	247769-002	Filtrate	201671	08/20/13 09:11	5.0		3:MG=1100000
032	met08_sr_6010	BLANK	QC701885	Water	201705	08/20/13 09:18	1.0		
033	met08_sr_6010	BS	QC701886	Water	201705	08/20/13 09:23	1.0		
034	met08_sr_6010	ICSAB				08/20/13 09:27	1.0	8	5:AL=500000
035	met08_sr_6010	CCV				08/20/13 09:33	1.0	10	
036	met08_sr_6010	XCCB				08/20/13 09:38	1.0		
037	met08_sr_6010	CCB				08/20/13 09:42	1.0		
038	met08_sr_6010	BSD	QC701887	Water	201705	08/20/13 09:47	1.0		
039	met08_sr_6010	BLANK	QC702684	Miscell.	201889	08/20/13 09:51	1.0		
040	met08_sr_6010	MSS	247736-004	Water	201705	08/20/13 09:56	1.0		3:CA=430000
041	met08_sr_6010	MS	QC701888	Water	201705	08/20/13 10:00	1.0		
042	met08_sr_6010	MSD	QC701889	Water	201705	08/20/13 10:05	1.0		
043	met08_sr_6010	SER	QC702426	Filtrate	201825	08/20/13 10:08	500.0		
044	met08_sr_6010	PDS	QC702427	Filtrate	201825	08/20/13 10:13	100.0	11 12	
045	met08_sr_6010	SER	QC702734	Water	201705	08/20/13 10:17	5.0		
046	met08_sr_6010	PDS	QC702735	Water	201705	08/20/13 10:22	1.0	11 12	
047	met08_sr_6010	MSS	247736-007	Water	201705	08/20/13 10:26	1.0		3:NA=370000
048	met08_sr_6010	CCV				08/20/13 10:31	1.0	10	
049	met08_sr_6010	CCB				08/20/13 10:36	1.0		
050	met08_sr_6010	MS	QC701890	Water	201705	08/20/13 10:42	1.0		
051	met08_sr_6010	MSD	QC701891	Water	201705	08/20/13 10:46	1.0		
052	met08_sr_6010	SAMPLE	247637-001	Water	201705	08/20/13 10:50	1.0		2:SN=440000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83334471

Instrument : MET08 Begun : 08/20/13 06:31
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
053	met08_sr_6010	SAMPLE	247736-002	Water	201705	08/20/13 10:56	1.0		3:CA=210000
054	met08_sr_6010	SAMPLE	247736-003	Water	201705	08/20/13 11:01	1.0		2:CA=240000
055	met08_sr_6010	SAMPLE	247736-005	Water	201705	08/20/13 11:05	1.0		2:NA=430000
056	met08_sr_6010	SAMPLE	247736-006	Water	201705	08/20/13 11:09	1.0		2:NA=390000
057	met08_sr_6010	SAMPLE	247736-010	Water	201705	08/20/13 11:15	1.0		3:CA=210000
058	met08_sr_6010	SAMPLE	247738-001	Water	201705	08/20/13 11:20	1.0		3:NA=390000
059	met08_sr_6010	SAMPLE	247738-002	Water	201705	08/20/13 11:25	1.0		3:NA=400000
060	met08_sr_6010	ICSAB				08/20/13 11:30	1.0	8	5:MG=500000
061	met08_sr_6010	CCV				08/20/13 11:36	1.0	10	
062	met08_sr_6010	XCCB				08/20/13 11:41	1.0		
063	met08_sr_6010	CCB				08/20/13 11:45	1.0		
064	met08_sr_6010	SAMPLE	247738-003	Water	201705	08/20/13 11:50	1.0		1:CA=200000
065	met08_sr_6010	SAMPLE	247738-004	Water	201705	08/20/13 11:55	1.0		1:CA=200000
066	met08_sr_6010	SAMPLE	247738-005	Water	201705	08/20/13 12:01	1.0		2:NA=360000
067	met08_sr_6010	SER	QC702426	Filtrate	201825	08/20/13 12:06	500.0		
068	met08_sr_6010	SAMPLE	247738-008	Water	201705	08/20/13 12:11	1.0		
069	met08_sr_6010	SAMPLE	247738-009	Water	201705	08/20/13 12:15	1.0		
070	met08_sr_6010	SAMPLE	247738-010	Water	201705	08/20/13 12:21	1.0		
071	met08_sr_6010	SAMPLE	247789-001	Water	201705	08/20/13 12:26	1.0		
072	met08_sr_6010	SAMPLE	247789-002	Water	201705	08/20/13 12:30	1.0		
073	met08_sr_6010	SAMPLE	247789-003	Water	201705	08/20/13 12:35	1.0		

NT 08/20/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 64.

Standards used: 1=S22714 2=S22716 3=S22715 4=S22717 5=S22718 6=S22721 7=S22719 8=S22720 9=S22723 10=S22722 11=S21652 12=S21653

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83334471

Date : 08/20/13 Reference : met08_sr_6010
Sequence : MET08 08/20/13 Analyzed : 08/20/13 06:36

#	Type	Sample ID	Y A
		ICAL STD	2998436
		LOWER LIMIT	899531
		UPPER LIMIT	5996871
008	ICB		3044067
009	ICSA		2493534
010	ICSAB		2514061
013	BLANK	QC702416	3084150
014	BS	QC702417	2961108
015	BSD	QC702418	2973889
016	MSS	247770-001	2813126
017	MS	QC702419	2793842
018	MSD	QC702420	2769602
019	MSS	247770-001	2808006
020	MSS	247770-001	2979308
021	SER	QC702426	2873762
022	CCV		2899207
023	CCB		3024542
024	PDS	QC702427	2750400
025	SAMPLE	247770-004	2783534
026	SAMPLE	247770-004	2754187
027	SAMPLE	247770-004	2951708
028	MSS	247769-005	1979367
029	MS	QC701748	1980570
030	MSD	QC701749	1971311
031	SAMPLE	247769-002	1923456
032	BLANK	QC701885	2979456
033	BS	QC701886	2837481
034	ICSAB		2456349
035	CCV		2824987
037	CCB		3003125
038	BSD	QC701887	2871826
039	BLANK	QC702684	3074095
040	MSS	247736-004	2541100
041	MS	QC701888	2548727
042	MSD	QC701889	2577816
043	SER	QC702426	3198443
044	PDS	QC702427	2924283
045	SER	QC702734	2885314
046	PDS	QC702735	2545968
047	MSS	247736-007	2669203
048	CCV		2944355
049	CCB		3124191
050	MS	QC701890	2616973
051	MSD	QC701891	2598776
052	SAMPLE	247637-001	3170630
053	SAMPLE	247736-002	2694317
054	SAMPLE	247736-003	2695840
055	SAMPLE	247736-005	2667047
056	SAMPLE	247736-006	2631222
057	SAMPLE	247736-010	2686624
058	SAMPLE	247738-001	2613869

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83334471

Date : 08/20/13 Reference : met08_sr_6010
Sequence : MET08 08/20/13 Analyzed : 08/20/13 06:36

#	Type	Sample ID	Y A
059	SAMPLE	247738-002	2590949
060	ICSAB		2468564
061	CCV		2864998
063	CCB		3078455
064	SAMPLE	247738-003	2690463
065	SAMPLE	247738-004	2692175
066	SAMPLE	247738-005	2616130
067	SER	QC702426	2980749

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 247736 METALS Water: EPA 6010B

Inst : MET08 Reviewer : ---
Calnum : 83334471001 Date : 20-AUG-2013 06:31
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	met08_sr_6010	83334471002	CRI5.1	20-AUG-2013 06:36	S22714
L2	met08_sr_6010	83334471003	CS100	20-AUG-2013 06:41	S22716
L3	met08_sr_6010	83334471004	CS1K	20-AUG-2013 06:45	S22715
L4	met08_sr_6010	83334471005	CS10K	20-AUG-2013 06:50	S22717
L5	met08_sr_6010	83334471006	CS100K	20-AUG-2013 06:55	S22718

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Chromium	A	111.90	107.82	105.91	106.09		LOR0	0.00000	0.00943		107.93	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Chromium	A	5.0000	5	100.00	2	1000.0	0	10000	0		

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 247736 METALS Water
EPA 6010B

Inst : MET08
Calnum : 83334471001 Cal Date : 20-AUG-2013

ICV 83334471007 (20-AUG-2013) stds: S22721

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Chromium	A	5000	4985	ug/L	0	10	

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR 247736 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471009 File : met08_sr_6010 Time : 20-AUG-2013 07:11
Cal : 83334471001 Caldate : 20-AUG-2013
Standards: S22719

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19420	ug/L	97
Copper	A	20000	20460	ug/L	102
Manganese	A	20000	18770	ug/L	94
Nickel	A	20000	18200	ug/L	91
Vanadium	A	20000	19740	ug/L	99
Aluminum	R	500000	491400	ug/L	98
Calcium	R	500000	478000	ug/L	96
Iron	R	200000	188300	ug/L	94
Magnesium	R	500000	489600	ug/L	98
Titanium	R	20000	21150	ug/L	106

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	2493534	-16.84

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 247736 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471010 File : met08_sr_6010 Time : 20-AUG-2013 07:25
Cal : 83334471001 Caldate : 20-AUG-2013
Standards: S22720

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	511.6	ug/L	2	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	2514061	-16.15

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247736 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471022 File : met08_sr_6010 Time : 20-AUG-2013 08:21
Cal : 83334471001 Caldate : 20-AUG-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	107.93	104.68	5000	4934	ug/L	-1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	2899207	-3.31

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 247736 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471023 File : met08_sr_6010 Time : 20-AUG-2013 08:26
Cal : 83334471001 Caldate : 20-AUG-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	3024542	0.87

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 247736 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471034 File : met08_sr_6010 Time : 20-AUG-2013 09:27
Cal : 83334471001 Caldate : 20-AUG-2013
Standards: S22720

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	511.0	ug/L	2	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	2456349	-18.08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247736 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471035 File : met08_sr_6010 Time : 20-AUG-2013 09:33
Cal : 83334471001 Caldate : 20-AUG-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	107.93	106.78	5000	5033	ug/L	1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	2824987	-5.78

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 247736 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471037 File : met08_sr_6010 Time : 20-AUG-2013 09:42
Cal : 83334471001 Caldate : 20-AUG-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	3003125	0.16

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247736 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471048 File : met08_sr_6010 Time : 20-AUG-2013 10:31
Cal : 83334471001 Caldate : 20-AUG-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	107.93	104.41	5000	4921	ug/L	-2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	2944355	-1.80

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 247736 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471049 File : met08_sr_6010 Time : 20-AUG-2013 10:36
Cal : 83334471001 Caldate : 20-AUG-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	3124191	4.19

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 247736 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471060 File : met08_sr_6010 Time : 20-AUG-2013 11:30
Cal : 83334471001 Caldate : 20-AUG-2013
Standards: S22720

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	514.6	ug/L	3	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	2468564	-17.67

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247736 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471061 File : met08_sr_6010 Time : 20-AUG-2013 11:36
Cal : 83334471001 Caldate : 20-AUG-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	107.93	108.19	5000	5099	ug/L	2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	2864998	-4.45

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 247736 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471063 File : met08_sr_6010 Time : 20-AUG-2013 11:45
Cal : 83334471001 Caldate : 20-AUG-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	3078455	2.67

SAMPLE PREPARATION SUMMARY

Batch # : 201705 Analysis : ICAP
Started By : MRN Prep Date : 14-AUG-2013 15:30 Finished By : MRN
Method : 3010A SOP Version : 3010A_icp_rv15 Units : mL
Spike #1 ID : S21652 Spike #2 ID : S21653

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
247637-001		Water	50	50	1	1.0						RCRA/ICP	No digest
247736-002		Water	50	50	1	1.0						CR	
247736-003		Water	50	50	1	1.0						CR	
247736-004		Water	50	50	1	1.0						CR	
247736-005		Water	50	50	1	1.0						CR	
247736-006		Water	50	50	1	1.0						CR	
247736-007		Water	50	50	1	1.0						CR	
247736-010		Water	50	50	1	1.0						CR	
247738-001		Water	50	50	1	1.0						CR	
247738-002		Water	50	50	1	1.0						CR	
247738-003		Water	50	50	1	1.0						CR	
247738-004		Water	50	50	1	1.0						CR	
247738-005		Water	50	50	1	1.0						CR	
247738-008		Water	50	50	1	1.0						CR	
247738-009		Water	50	50	1	1.0						CR	
247738-010		Water	50	50	1	1.0						CR	
247789-001		Water	50	50	1	1.0						T22/ICP	
247789-002		Water	50	50	1	1.0						T22/ICP	
247789-003		Water	50	50	1	1.0						T22/ICP	
QC701885	BLANK	Water	50	50	1	1.0							
QC701886	BS	Water	50	50	1	1.0		.5	.5				
QC701887	BSD	Water	50	50	1	1.0		.5	.5				
QC701888	MS	Water	50	50	1	1.0		.5	.5				
QC701889	MSD	Water	50	50	1	1.0		.5	.5				
QC701890	MS	Water	50	50	1	1.0		.5	.5				
QC701891	MSD	Water	50	50	1	1.0		.5	.5				
QC702734	SER	Water	50	50	1	1.0							
QC702735	PDS	Water	50	50	1	1.0							

Analyst: NT Date: 08/20/13 Reviewer: PRW Date: 08/20/13

Water Digestion for ICP

Curtis & Tompkins, Ltd.

LIMS Batch #: 201705
Digested by: MN
Date Digested: 8/14/13

Digestion Method
☒ EPA 3010a for ICP
☐ EPA 200.7
☐ _____

BK3443
Page 91

Lvl.	Sample #	Container ID	Volume Sample(mL)	Final Volume (mL)	Filtered? (y/n)	ID Π	Comments
	BLK		☒ 50 ☐	☒ 50 ☐	N	✓	
	BS		☒ 50 ☐	☒ 50 ☐		✓	
	BSD		☒ 50 ☐	☒ 50 ☐		✓	
III	247736-002	D	☒ 50 ☐	☒ 50 ☐		✓	
5	-003	D	☒ 50 ☐	☒ 50 ☐		✓	
	-004	J	☒ 50 ☐	☒ 50 ☐		✓	
	-004 MS		☒ 50 ☐	☒ 50 ☐		✓	
	-004 MSD		☒ 50 ☐	☒ 50 ☐		✓	
	-005	D	☒ 50 ☐	☒ 50 ☐		✓	
10	-006	C	☒ 50 ☐	☒ 50 ☐		✓	
	-007	J	☒ 50 ☐	☒ 50 ☐		✓	
	-007 MS		☒ 50 ☐	☒ 50 ☐		✓	
	-007 MSD		☒ 50 ☐	☒ 50 ☐		✓	
	-010	D	☒ 50 ☐	☒ 50 ☐		✓	
III 15	247738-001	D	☒ 50 ☐	☒ 50 ☐		✓	
	-002		☒ 50 ☐	☒ 50 ☐		✓	
	-003		☒ 50 ☐	☒ 50 ☐		✓	
	-004		☒ 50 ☐	☒ 50 ☐		✓	
	-005		☒ 50 ☐	☒ 50 ☐		✓	
20	-008	B	☒ 50 ☐	☒ 50 ☐		✓	
	-009	D	☒ 50 ☐	☒ 50 ☐		✓	
	-010	D	☒ 50 ☐	☒ 50 ☐		✓	
	247789-001	E	☒ 50 ☐	☒ 50 ☐		✓	
	-002		☒ 50 ☐	☒ 50 ☐		✓	
	-003		☒ 50 ☐	☒ 50 ☐		✓	

	Reagent ID or LIMS #	Initials / Date
Digestion tubes, lot #	162909-261	MN 8/14/13
0.5 mL of spike solution (Std1) was added to all spikes	S21652	
0.5 mL of spike solution (Std2) was added to all spikes	S21653	
Digestion Temperature (°C), Block and Probe Location	95°A / 3	
digestion begun at (time)	3:30pm	
1:1 HCl	1830-052213	
concentrated HNO3	3390 JTB	
digestion ended at (time)	9:00pm	
☒ filtered thru' Whatman # 541	~~45~~ 252262 MN 8/14/13	
MN 8/14/13 Relinquished to ICP group	ICAP	

8/14/13
Prep Chemist / Date

Continued from page ____.
Continued on page ____.

Reviewed by / Date

Water Digestion for ICP

Curtis & Tompkins, Ltd.

LIMS Batch #: 201705
Digested by: JDB
Date Digested: 8.15.13

Digestion Method
☑ EPA 3010a for ICP
☐ EPA 200.7
☐ _____

BK3443
Page 92

Lvl.	Sample #	Container ID	Volume Sample(mL)	Final Volume (mL)	Filtered? (y/n)	ID Π	Comments
III	2471637-001		☑ 50 ☐ ____	☑ 50 ☐ ____	N	✓	Sampled from Corrosive waste, no digest
			☐ 50 ☐ ____	☐ 50 ☐ ____			
			☐ 50 ☐ ____	☐ 50 ☐ ____			
			☐ 50 ☐ ____	☐ 50 ☐ ____			
5			☐ 50 ☐ ____	☐ 50 ☐ ____			
			☐ 50 ☐ ____	☐ 50 ☐ ____			
			☐ 50 ☐ ____	☐ 50 ☐ ____			
			☐ 50 ☐ ____	☐ 50 ☐ ____			
			☐ 50 ☐ ____	☐ 50 ☐ ____			
10			☐ 50 ☐ ____	☐ 50 ☐ ____			
			☐ 50 ☐ ____	☐ 50 ☐ ____			
			☐ 50 ☐ ____	☐ 50 ☐ ____			
			☐ 50 ☐ ____	☐ 50 ☐ ____			
			☐ 50 ☐ ____	☐ 50 ☐ ____			
15			☐ 50 ☐ ____	☐ 50 ☐ ____			
			☐ 50 ☐ ____	☐ 50 ☐ ____			
			☐ 50 ☐ ____	☐ 50 ☐ ____			
			☐ 50 ☐ ____	☐ 50 ☐ ____			
			☐ 50 ☐ ____	☐ 50 ☐ ____			
20			☐ 50 ☐ ____	☐ 50 ☐ ____			
			☐ 50 ☐ ____	☐ 50 ☐ ____			
			☐ 50 ☐ ____	☐ 50 ☐ ____			
			☐ 50 ☐ ____	☐ 50 ☐ ____			
			☐ 50 ☐ ____	☐ 50 ☐ ____			
			☐ 50 ☐ ____	☐ 50 ☐ ____			

JDB 8.15.13

	Reagent ID or LIMS #	Initials / Date
Digestion tubes, lot #	162909-2601	JDB 8.15.13
0.5 mL of spike solution (Std1) was added to all spikes	921652	
0.5 mL of spike solution (Std2) was added to all spikes	921653	
Digestion Temperature (°C), Block and Probe Location	NA NA	
digestion begun at (time)	09:30	
1:1 HCl	40272	
concentrated HNO3	3390	
digestion ended at (time)	NA	
☐ filtered thru' Whatman # 541	NA	
Relinquished to ICP group	JDB	

JDB 8.15.13
Prep Chemist / Date

Continued from page 91
Continued on page ____

Reviewed by / Date

Laboratory Job Number 247736

ANALYTICAL REPORT

Metals

Matrix: Filtrate

Curtis & Tompkins, Ltd.

Dissolved Chromium

Lab #:	247736	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Sampled:	08/07/13
Matrix:	Filtrate	Received:	08/08/13
Units:	ug/L	Prepared:	08/13/13
Diln Fac:	1.000	Analyzed:	08/16/13
Batch#:	201670		

Field ID	Type	Lab ID	Result	RL	MDL
GAC-02	SAMPLE	247736-002	13	5.0	0.63
GAC-03	SAMPLE	247736-003	6.7	5.0	0.63
COG-05	SAMPLE	247736-004	ND	5.0	0.63
NE-02	SAMPLE	247736-005	6.2	5.0	0.63
NE-03	SAMPLE	247736-006	15	5.0	0.63
NE-04	SAMPLE	247736-007	26	5.0	0.63
GAC-102	SAMPLE	247736-010	15	5.0	0.63
	BLANK	QC701730	ND	5.0	0.63

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Chromium

Lab #:	247736	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Sampled:	08/07/13
Matrix:	Filtrate	Received:	08/08/13
Units:	ug/L	Prepared:	08/13/13
Diln Fac:	1.000	Analyzed:	08/16/13
Batch#:	201670		

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
	BS		QC701731		200.0	194.0	97	80-120		
	BSD		QC701732		200.0	201.8	101	80-120	4	20
COG-05	MS	247736-004	QC701733	<0.6258	200.0	198.4	99	74-120		
COG-05	MSD	247736-004	QC701734		200.0	197.1	99	74-120	1	20
NE-04	MS	247736-007	QC701735	25.81	200.0	224.1	99	74-120		
NE-04	MSD	247736-007	QC701736		200.0	219.1	97	74-120	2	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Chromium

Lab #:	247736	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	COG-05	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	201670
MSS Lab ID:	247736-004	Sampled:	08/07/13
Lab ID:	QC701737	Received:	08/08/13
Matrix:	Filtrate	Analyzed:	08/16/13

MSS Result	MSS RL	Result	RL	% Diff	Lim
ND	5.000	ND	25.00	NC	10

NC= Not Calculated
ND= Not Detected at or above MDL
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Chromium

Lab #:	247736	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	COG-05	Diln Fac:	1.000
Type:	Post Digest Spike	Batch#:	201670
MSS Lab ID:	247736-004	Sampled:	08/07/13
Lab ID:	QC701738	Received:	08/08/13
Matrix:	Filtrate	Analyzed:	08/16/13

MSS Result	Spiked	Result	%REC	Limits
<0.6258	200.0	205.9	103	75-125

REPORTING SUMMARY FOR 247736 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CR
247736-002	MET09	08/16/13 19:29	1.0	+
247736-003	MET09	08/16/13 19:37	1.0	+
247736-004	MET09	08/16/13 18:32	1.0	+
247736-005	MET09	08/16/13 20:03	1.0	+
247736-006	MET09	08/16/13 20:11	1.0	+
247736-007	MET09	08/16/13 19:07	1.0	+
247736-010	MET09	08/16/13 20:19	1.0	+
QC701730	MET09	08/16/13 18:03	1.0	+
QC701731	MET09	08/16/13 18:08	1.0	+
QC701732	MET09	08/16/13 18:12	1.0	+
QC701733	MET09	08/16/13 18:40	1.0	+
QC701734	MET09	08/16/13 18:47	1.0	+
QC701735	MET09	08/16/13 19:15	1.0	+
QC701736	MET09	08/16/13 19:22	1.0	+
QC701737	MET09	08/16/13 18:54	5.0	+
QC701738	MET09	08/16/13 18:59	1.0	+

ICP Data

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 93328700

Instrument : MET09 Begun : 08/16/13 06:20
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	met09_sn	ICALBLK					08/16/13 06:20	1.0		
002	met09_sn	ICAL	CRI5.1				08/16/13 06:25	1.0	1	
003	met09_sn	ICAL	CS100				08/16/13 06:30	1.0	2	
004	met09_sn	ICAL	CS1K				08/16/13 06:34	1.0	3	
005	met09_sn	ICAL	CS10K				08/16/13 06:37	1.0	4	
006	met09_sn	ICAL	CS100K				08/16/13 06:43	1.0	5	
007	met09_sn	ICV					08/16/13 06:50	1.0	6	
008	met09_sn	ICB					08/16/13 06:56	1.0		
009	met09_sn	ICSA					08/16/13 07:01	1.0	7	10:AL=500000
010	met09_sn	ICSAB					08/16/13 07:16	1.0	8	5:AL=490000
011	met09_sn	XCRI					08/16/13 07:22	1.0	9	
012	met09_sn	CRI					08/16/13 07:26	1.0	9	
013	met09_sn	BLANK	QC702108		Soil	201760	08/16/13 07:33	1.0		
014	met09_sn	BS	QC702109		Soil	201760	08/16/13 07:38	1.0		
015	met09_sn	BSD	QC702110		Soil	201760	08/16/13 07:41	1.0		
016	met09_sn	MSS	248009-001		Soil	201760	08/16/13 07:45	1.0		5:FE=450000
017	met09_sn	MS	QC702111		Soil	201760	08/16/13 07:48	1.0		
018	met09_sn	MSD	QC702112		Soil	201760	08/16/13 07:51	1.0		
019	met09_sn	SER	QC702113		Soil	201760	08/16/13 07:54	5.0		
020	met09_sn	PDS	QC702114		Soil	201760	08/16/13 07:59	1.0	10 11	
021	met09_sn	SAMPLE	248009-002		Soil	201760	08/16/13 08:02	1.0		2:FE=300000
022	met09_sn	BLANK	QC702138		Water	201767	08/16/13 08:05	1.0		
023	met09_sn	CCV					08/16/13 08:10	1.0	12	
024	met09_sn	CCB					08/16/13 08:17	1.0		
025	met09_sn	BLANK	QC702138		Water	201767	08/16/13 08:22	1.0		
026	met09_sn	SAMPLE	248009-002		Soil	201760	08/16/13 08:27	1.0		2:FE=300000
027	met09_sn	BS	QC702139		Water	201767	08/16/13 08:30	1.0		
028	met09_sn	BSD	QC702140		Water	201767	08/16/13 08:34	1.0		
029	met09_sn	MSS	247790-001		Water	201767	08/16/13 08:39	1.0		
030	met09_sn	MS	QC702141		Water	201767	08/16/13 08:44	1.0		
031	met09_sn	MSD	QC702142		Water	201767	08/16/13 08:48	1.0		
032	met09_sn	SER	QC702202		Water	201767	08/16/13 08:52	5.0		
033	met09_sn	PDS	QC702203		Water	201767	08/16/13 08:57	1.0	13 14	
034	met09_sn	SAMPLE	248018-001		Water	201767	08/16/13 09:02	1.0		3:MG=420000
035	met09_sn	CCV					08/16/13 09:10	1.0	12	
036	met09_sn	CCB					08/16/13 09:16	1.0		
037	met09_sn	SAMPLE	248018-001		Water	201767	08/16/13 09:21	1.0		3:MG=420000
038	met09_sn	ICSAB					08/16/13 09:28	1.0	8	5:MG=500000
039	met09_sn	CCV					08/16/13 09:34	1.0	12	
040	met09_sn	CCB					08/16/13 09:41	1.0		
041	met09_sn	BLANK	QC701869	B	Air	201701	08/16/13 09:46	1.0		
042	met09_sn	SAMPLE	247491-001	B	Air	201701	08/16/13 09:51	100.0		
043	met09_sn	SAMPLE	247491-002	B	Air	201701	08/16/13 09:56	100.0		
044	met09_sn	BLANK	QC702143		Water	201768	08/16/13 10:01	1.0		
045	met09_sn	BS	QC702144		Water	201768	08/16/13 10:06	1.0		
046	met09_sn	BSD	QC702145		Water	201768	08/16/13 10:11	1.0		
047	met09_sn	MSS	247933-001		Water	201768	08/16/13 10:15	1.0		
048	met09_sn	MS	QC702146		Water	201768	08/16/13 10:20	1.0		
049	met09_sn	MSD	QC702147		Water	201768	08/16/13 10:24	1.0		
050	met09_sn	SER	QC702148		Water	201768	08/16/13 10:29	5.0		
051	met09_sn	CCV					08/16/13 10:34	1.0	12	
052	met09_sn	CCB					08/16/13 10:40	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 93328700

Instrument : MET09 Begun : 08/16/13 06:20
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
053	met09_sn	PDS	QC702149		Water	201768	08/16/13 10:45	1.0	13 14	
054	met09_sn	SAMPLE	248023-001		Water	201767	08/16/13 10:49	1.0		1:B=31000
055	met09_sn	SAMPLE	248023-002		Water	201767	08/16/13 10:57	1.0		2:NA=290000
056	met09_sn	SAMPLE	248023-003		Water	201767	08/16/13 11:06	1.0		2:NA=270000
057	met09_sn	SAMPLE	248023-005		Water	201767	08/16/13 11:14	1.0		2:NA=270000
058	met09_sn	SAMPLE	248023-001		Water	201767	08/16/13 11:22	100.0		
059	met09_sn	SAMPLE	248023-002		Water	201767	08/16/13 11:27	100.0		
060	met09_sn	SAMPLE	248023-003		Water	201767	08/16/13 11:32	100.0		
061	met09_sn	SAMPLE	248023-005		Water	201767	08/16/13 11:37	100.0		
062	met09_sn	ICSAB					08/16/13 11:43	1.0	8	5:MG=490000
063	met09_sn	CCV					08/16/13 11:49	1.0	12	
064	met09_sn	CCB					08/16/13 11:56	1.0		
065	met09_sn	SAMPLE	247883-001		Soil	201760	08/16/13 12:01	1.0		4:FE=410000
066	met09_sn	SAMPLE	247883-002		Soil	201760	08/16/13 12:08	1.0		3:FE=260000
067	met09_sn	SAMPLE	247883-003		Soil	201760	08/16/13 12:15	1.0		3:FE=290000
068	met09_sn	SAMPLE	247934-001		Soil	201760	08/16/13 12:22	1.0		5:CA=740000
069	met09_sn	SAMPLE	247935-001		Soil	201760	08/16/13 12:26	1.0		5:FE=380000
070	met09_sn	SAMPLE	247960-001		Soil	201760	08/16/13 12:29	1.0		4:FE=230000
071	met09_sn	SAMPLE	247960-002		Soil	201760	08/16/13 12:32	1.0		4:FE=250000
072	met09_sn	SAMPLE	247960-001		Soil	201760	08/16/13 12:35	1.0		4:FE=230000
073	met09_sn	SAMPLE	247960-002		Soil	201760	08/16/13 12:39	1.0		4:FE=240000
074	met09_sn	CCV					08/16/13 12:42	1.0	12	
075	met09_sn	CCB					08/16/13 12:48	1.0		
076	met09_sn	ICSAB					08/16/13 12:52	1.0	8	5:MG=480000
077	met09_sn	BLANK	QC702133		WET Leachate	201766	08/16/13 12:58	10.0		1:NA=150000
078	met09_sn	BS	QC702134		WET Leachate	201766	08/16/13 13:06	1.0		
079	met09_sn	BSD	QC702135		WET Leachate	201766	08/16/13 13:09	1.0		
080	met09_sn	MSS	247924-001		WET Leachate	201766	08/16/13 13:13	10.0		1:NA=140000
081	met09_sn	MS	QC702136		WET Leachate	201766	08/16/13 13:21	10.0		
082	met09_sn	MSD	QC702137		WET Leachate	201766	08/16/13 13:28	10.0		
083	met09_sn	SAMPLE	247924-002		WET Leachate	201766	08/16/13 13:35	10.0		1:NA=140000
084	met09_sn	SAMPLE	247938-001		WET Leachate	201766	08/16/13 13:43	10.0		1:NA=130000
085	met09_sn	CCV					08/16/13 13:50	1.0	12	
086	met09_sn	CCB					08/16/13 13:56	1.0		
087	met09_sn	SAMPLE	247938-002		WET Leachate	201766	08/16/13 14:01	10.0		1:NA=140000
088	met09_sn	SER	QC702229		TCLP Leachate	201769	08/16/13 14:09	50.0		
089	met09_sn	PDS	QC702230		TCLP Leachate	201769	08/16/13 14:15	10.0	10 11	
090	met09_sn	SAMPLE	247964-002		TCLP Leachate	201769	08/16/13 14:21	10.0		1:NA=140000
091	met09_sn	SAMPLE	247964-003		TCLP Leachate	201769	08/16/13 14:26	10.0		1:NA=140000
092	met09_sn	CCV					08/16/13 14:33	1.0	12	
093	met09_sn	CCB					08/16/13 14:40	1.0		
094	met09_sn	ICSAB					08/16/13 14:44	1.0	8	5:AL=470000
095	met09_sn	SAMPLE	247909-001		TCLP Leachate	201769	08/16/13 14:53	10.0		1:NA=150000
096	met09_sn	SAMPLE	247958-006		TCLP Leachate	201769	08/16/13 15:01	10.0		1:NA=150000
097	met09_sn	SAMPLE	247958-011		TCLP Leachate	201769	08/16/13 15:07	10.0		1:NA=150000
098	met09_sn	SAMPLE	247939-001		Soil	201760	08/16/13 15:14	1.0		8:FE=700000
099	met09_sn	SAMPLE	247682-031		Soil	201549	08/16/13 15:18	1.0		2:FE=320000
100	met09_sn	SAMPLE	247939-001		Soil	201760	08/16/13 15:22	10.0		
101	met09_sn	XSAMPLE	247682-033		Soil	201549	08/16/13 15:26	1.0		
102	met09_sn	XSAMPLE	247672-003		Soil	201574	08/16/13 15:31	1.0		
103	met09_sn	XSAMPLE	247672-005		Soil	201574	08/16/13 15:35	1.0		4:K=1900000
104	met09_sn	XSAMPLE	247672-010		Soil	201574	08/16/13 15:43	1.0		4:K=1800000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 93328700

Instrument : MET09 Begun : 08/16/13 06:20
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
105	met09_sn	CCV					08/16/13 15:50	1.0	12	
106	met09_sn	CCB					08/16/13 15:56	1.0		
107	met09_sn	XCCB					08/16/13 16:00	1.0		
108	met09_sn	ICSAB					08/16/13 16:05	1.0	8	5:AL=470000
109	met09_sn	XBLANK	QC701878		Soil	201704	08/16/13 16:11	1.0		4:K=1900000
110	met09_sn	XSAMPLE	247788-002		Soil	201704	08/16/13 16:18	1.0		
111	met09_sn	XSAMPLE	247788-003		Soil	201704	08/16/13 16:24	1.0		4:K=2400000
112	met09_sn	XSAMPLE	247788-004		Soil	201704	08/16/13 16:31	1.0		3:MG=410000
113	met09_sn	XSAMPLE	247788-005		Soil	201704	08/16/13 16:39	1.0		3:MG=1000000
114	met09_sn	XSAMPLE	247788-006		Soil	201704	08/16/13 16:48	1.0		3:MG=1400000
115	met09_sn	XSAMPLE	247790-002		Water	201767	08/16/13 16:56	1.0		
116	met09_sn	XSAMPLE	247791-001		Water	201767	08/16/13 17:01	1.0		2:FE=320000
117	met09_sn	SAMPLE	247682-033		Soil	201549	08/16/13 17:05	1.0		5:FE=380000
118	met09_sn	ICSAB					08/16/13 17:12	1.0	8	5:AL=490000
119	met09_sn	CCV					08/16/13 17:19	1.0	12	
120	met09_sn	XCCB					08/16/13 17:25	1.0		
121	met09_sn	CCB					08/16/13 17:29	1.0		
122	met09_sn	SAMPLE	247672-003		Soil	201574	08/16/13 17:34	1.0		3:FE=500000
123	met09_sn	SAMPLE	247672-005		Soil	201574	08/16/13 17:37	1.0		5:FE=330000
124	met09_sn	SAMPLE	247672-010		Soil	201574	08/16/13 17:41	1.0		1:FE=150000
125	met09_sn	BLANK	QC701878		Soil	201704	08/16/13 17:45	1.0		
126	met09_sn	SAMPLE	247788-002		Soil	201704	08/16/13 17:50	1.0		2:FE=190000
127	met09_sn	SAMPLE	247788-003		Soil	201704	08/16/13 17:54	1.0		1:FE=170000
128	met09_sn	SAMPLE	247788-004		Soil	201704	08/16/13 17:58	1.0		2:FE=170000
129	met09_sn	BLANK	QC701730		Filtrate	201670	08/16/13 18:03	1.0		
130	met09_sn	BS	QC701731		Filtrate	201670	08/16/13 18:08	1.0		
131	met09_sn	BSD	QC701732		Filtrate	201670	08/16/13 18:12	1.0		
132	met09_sn	CCV					08/16/13 18:16	1.0	12	
133	met09_sn	XCCB					08/16/13 18:23	1.0		
134	met09_sn	CCB					08/16/13 18:26	1.0		
135	met09_sn	MSS	247736-004		Filtrate	201670	08/16/13 18:32	1.0		3:NA=410000
136	met09_sn	MS	QC701733		Filtrate	201670	08/16/13 18:40	1.0		
137	met09_sn	MSD	QC701734		Filtrate	201670	08/16/13 18:47	1.0		
138	met09_sn	SER	QC701737		Filtrate	201670	08/16/13 18:54	5.0		
139	met09_sn	PDS	QC701738		Filtrate	201670	08/16/13 18:59	1.0	13 14	
140	met09_sn	MSS	247736-007		Filtrate	201670	08/16/13 19:07	1.0		3:NA=360000
141	met09_sn	MS	QC701735		Filtrate	201670	08/16/13 19:15	1.0		3:NA=360000
142	met09_sn	MSD	QC701736		Filtrate	201670	08/16/13 19:22	1.0		3:NA=360000
143	met09_sn	SAMPLE	247736-002		Filtrate	201670	08/16/13 19:29	1.0		3:CA=200000
144	met09_sn	SAMPLE	247736-003		Filtrate	201670	08/16/13 19:37	1.0		2:CA=230000
145	met09_sn	ICSAB					08/16/13 19:45	1.0	8	5:MG=480000
146	met09_sn	CCV					08/16/13 19:51	1.0	12	
147	met09_sn	CCB					08/16/13 19:58	1.0		
148	met09_sn	SAMPLE	247736-005		Filtrate	201670	08/16/13 20:03	1.0		1:CA=130000
149	met09_sn	SAMPLE	247736-006		Filtrate	201670	08/16/13 20:11	1.0		1:CA=200000
150	met09_sn	SAMPLE	247736-010		Filtrate	201670	08/16/13 20:19	1.0		2:CA=200000
151	met09_sn	SAMPLE	247738-001		Filtrate	201670	08/16/13 20:27	1.0		3:NA=400000
152	met09_sn	SAMPLE	247738-002		Filtrate	201670	08/16/13 20:35	1.0		3:NA=400000
153	met09_sn	SAMPLE	247738-003		Filtrate	201670	08/16/13 20:44	1.0		1:CA=190000
154	met09_sn	SAMPLE	247738-004		Filtrate	201670	08/16/13 20:49	1.0		1:CA=200000
155	met09_sn	SAMPLE	247738-005		Filtrate	201670	08/16/13 20:54	1.0		2:NA=350000
156	met09_sn	SAMPLE	247738-008		Filtrate	201670	08/16/13 21:02	1.0		3:CA=270000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 93328700

Instrument : MET09 Begun : 08/16/13 06:20
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
157	met09_sn	SAMPLE	247738-009		Filtrate	201670	08/16/13 21:10	1.0		3:CA=390000
158	met09_sn	CCV					08/16/13 21:19	1.0	12	
159	met09_sn	CCB					08/16/13 21:25	1.0		
160	met09_sn	SAMPLE	247738-010		Filtrate	201670	08/16/13 21:30	1.0		3:CA=390000
161	met09_sn	BLANK	QC701692		Soil	201664	08/16/13 21:38	1.0		
162	met09_sn	BS	QC701693		Soil	201664	08/16/13 21:43	1.0		
163	met09_sn	BSD	QC701694		Soil	201664	08/16/13 21:47	1.0		
164	met09_sn	MSS	247792-001		Soil	201664	08/16/13 21:50	1.0		3:FE=280000
165	met09_sn	MS	QC701695		Soil	201664	08/16/13 21:54	1.0		
166	met09_sn	MSD	QC701696		Soil	201664	08/16/13 21:58	1.0		
167	met09_sn	SAMPLE	247792-005		Soil	201664	08/16/13 22:01	1.0		3:FE=260000
168	met09_sn	SAMPLE	247792-009		Soil	201664	08/16/13 22:05	1.0		2:FE=340000
169	met09_sn	SAMPLE	247792-011		Soil	201664	08/16/13 22:09	1.0		5:CA=550000
170	met09_sn	ICSAB					08/16/13 22:13	1.0	8	5:MG=470000
171	met09_sn	CCV					08/16/13 22:19	1.0	12	
172	met09_sn	CCB					08/16/13 22:25	1.0		
173	met09_sn	SAMPLE	247792-016		Soil	201664	08/16/13 22:30	1.0		4:FE=440000
174	met09_sn	SAMPLE	247792-019		Soil	201664	08/16/13 22:35	1.0		4:FE=380000
175	met09_sn	SAMPLE	247792-022		Soil	201664	08/16/13 22:39	1.0		5:FE=480000
176	met09_sn	SAMPLE	247792-024		Soil	201664	08/16/13 22:46	1.0		2:FE=290000
177	met09_sn	SAMPLE	247792-027		Soil	201664	08/16/13 22:50	1.0		2:FE=210000
178	met09_sn	SAMPLE	247792-037		Soil	201664	08/16/13 22:55	1.0		3:FE=340000
179	met09_sn	SAMPLE	247792-039		Soil	201664	08/16/13 22:59	1.0		3:FE=470000
180	met09_sn	SAMPLE	247792-041		Soil	201664	08/16/13 23:03	1.0		3:FE=330000
181	met09_sn	SAMPLE	247792-043		Soil	201664	08/16/13 23:08	1.0		2:FE=240000
182	met09_sn	SAMPLE	247792-060		Soil	201664	08/16/13 23:12	1.0		2:FE=320000
183	met09_sn	CCV					08/16/13 23:16	1.0	12	
184	met09_sn	CCB					08/16/13 23:22	1.0		
185	met09_sn	SAMPLE	247792-064		Soil	201664	08/16/13 23:28	1.0		4:FE=410000
186	met09_sn	BLANK	QC701745		Filtrate	201671	08/16/13 23:32	1.0		
187	met09_sn	BS	QC701746		Filtrate	201671	08/16/13 23:37	1.0		
188	met09_sn	BSD	QC701747		Filtrate	201671	08/16/13 23:41	1.0		
189	met09_sn	MSS	247769-005		Filtrate	201671	08/16/13 23:46	1.0		4:K=1900000
190	met09_sn	MS	QC701748		Filtrate	201671	08/16/13 23:54	1.0		
191	met09_sn	MSD	QC701749		Filtrate	201671	08/17/13 00:01	1.0		
192	met09_sn	SAMPLE	247769-001		Filtrate	201671	08/17/13 00:08	1.0		
193	met09_sn	SAMPLE	247769-002		Filtrate	201671	08/17/13 00:13	1.0		4:K=2400000
194	met09_sn	SAMPLE	247769-003		Filtrate	201671	08/17/13 00:21	1.0		2:MG=400000
195	met09_sn	ICSAB					08/17/13 00:29	1.0	8	5:MG=470000
196	met09_sn	CCV					08/17/13 00:35	1.0	12	
197	met09_sn	XCCB					08/17/13 00:41	1.0		
198	met09_sn	CCB					08/17/13 00:45	1.0		
199	met09_sn	SAMPLE	247769-004		Filtrate	201671	08/17/13 00:50	1.0		3:MG=1100000
200	met09_sn	SAMPLE	247769-006		Filtrate	201671	08/17/13 00:58	1.0		3:MG=1500000
201	met09_sn	CCV					08/17/13 01:07	1.0	12	
202	met09_sn	XCCB					08/17/13 01:13	1.0		
203	met09_sn	CCB					08/17/13 01:17	1.0		
204	met09_sn	ICSAB					08/17/13 01:22	1.0	8	5:MG=490000

NT 08/19/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 204.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 93328700

Instrument : MET09 Begun : 08/16/13 06:20
Method : EPA 6010B SOP Version : icp metals_rv9

HDD 08/16/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 94 through 108.

Standards used: 1=S22714 2=S22716 3=S22715 4=S22717 5=S22718 6=S22721 7=S22719 8=S22720 9=S22723 10=S22594 11=S22595 12=S22722 13=S21652 14=S21653

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 93328700

Date : 08/16/13 Reference : met09_sn
Sequence : MET09 08/16/13 Analyzed : 08/16/13 06:25

#	Type	Sample ID	Y A
		ICAL STD	4582096
		LOWER LIMIT	1374629
		UPPER LIMIT	9164191
008	ICB		4841095
009	ICSA		3727302
010	ICSAB		3690624
013	BLANK	QC702108	4623574
014	BS	QC702109	4301686
015	BSD	QC702110	4330667
016	MSS	248009-001	4428611
017	MS	QC702111	4394876
018	MSD	QC702112	4379774
019	SER	QC702113	4418156
020	PDS	QC702114	4417692
021	SAMPLE	248009-002	4594029
022	BLANK	QC702138	4597277
023	CCV		4363253
024	CCB		4627424
025	BLANK	QC702138	4601083
026	SAMPLE	248009-002	4539551
027	BS	QC702139	4374020
028	BSD	QC702140	4364919
029	MSS	247790-001	4338587
030	MS	QC702141	4201136
031	MSD	QC702142	4275914
032	SER	QC702202	4452872
033	PDS	QC702203	4227661
034	SAMPLE	248018-001	3252636
035	CCV		4314277
036	CCB		4847073
037	SAMPLE	248018-001	3195232
038	ICSAB		3713627
039	CCV		4308041
040	CCB		4578284
041	BLANK	QC701869	4568600
042	SAMPLE	247491-001	4577461
043	SAMPLE	247491-002	4577061
044	BLANK	QC702143	4586597
045	BS	QC702144	4467441
046	BSD	QC702145	4334827
047	MSS	247933-001	4404490
048	MS	QC702146	4301808
049	MSD	QC702147	4488987
050	SER	QC702148	4578747
051	CCV		4329576
052	CCB		4579258
053	PDS	QC702149	4229872
054	SAMPLE	248023-001	4116178
055	SAMPLE	248023-002	4050118
056	SAMPLE	248023-003	4093359
057	SAMPLE	248023-005	4105876

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 93328700

Date : 08/16/13 Reference : met09_sn
Sequence : MET09 08/16/13 Analyzed : 08/16/13 06:25

#	Type	Sample ID	Y A
058	SAMPLE	248023-001	4744968
059	SAMPLE	248023-002	4583531
060	SAMPLE	248023-003	4678378
061	SAMPLE	248023-005	4719999
062	ICSAB		3851294
063	CCV		4448301
064	CCB		4736798
065	SAMPLE	247883-001	4550745
066	SAMPLE	247883-002	4505734
067	SAMPLE	247883-003	4535346
068	SAMPLE	247934-001	4290308
069	SAMPLE	247935-001	4596041
070	SAMPLE	247960-001	4624996
071	SAMPLE	247960-002	4634046
072	SAMPLE	247960-001	4552952
073	SAMPLE	247960-002	4786941
074	CCV		4399728
075	CCB		4571868
076	ICSAB		3832582
077	BLANK	QC702133	4176931
078	BS	QC702134	4529702
079	BSD	QC702135	4585733
081	MS	QC702136	4477763
082	MSD	QC702137	4196841
084	SAMPLE	247938-001	4462421
085	CCV		4314076
086	CCB		4639550
087	SAMPLE	247938-002	4214640
088	SER	QC702229	4532468
089	PDS	QC702230	4179529
090	SAMPLE	247964-002	4210088
091	SAMPLE	247964-003	4160239
092	CCV		4368003
093	CCB		4649659
094	ICSAB		3844815
095	SAMPLE	247909-001	4180769
096	SAMPLE	247958-006	4169218
097	SAMPLE	247958-011	4121084
098	SAMPLE	247939-001	4177743
099	SAMPLE	247682-031	4390591
100	SAMPLE	247939-001	4288958
105	CCV		4234271
106	CCB		4540697
108	ICSAB		3820430
117	SAMPLE	247682-033	4321540
118	ICSAB		3653557
119	CCV		4330153
121	CCB		4530434
122	SAMPLE	247672-003	4307447
123	SAMPLE	247672-005	4140570
124	SAMPLE	247672-010	4297347
125	BLANK	QC701878	4617680

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 93328700

Date : 08/16/13 Reference : met09_sn
Sequence : MET09 08/16/13 Analyzed : 08/16/13 06:25

#	Type	Sample ID	Y A
126	SAMPLE	247788-002	4301438
127	SAMPLE	247788-003	4379290
128	SAMPLE	247788-004	4358170
129	BLANK	QC701730	4602025
130	BS	QC701731	4363651
131	BSD	QC701732	4315496
132	CCV		4312364
134	CCB		4564343
135	MSS	247736-004	3815293
136	MS	QC701733	3784753
137	MSD	QC701734	3800065
138	SER	QC701737	4203622
139	PDS	QC701738	3827223
140	MSS	247736-007	3910060
141	MS	QC701735	3874322
142	MSD	QC701736	3907082
143	SAMPLE	247736-002	4003386
144	SAMPLE	247736-003	3987394
145	ICSAB		3724149
146	CCV		4319795
147	CCB		4707432
148	SAMPLE	247736-005	3952859
149	SAMPLE	247736-006	3930741
150	SAMPLE	247736-010	4066768
151	SAMPLE	247738-001	3881802
152	SAMPLE	247738-002	3931608
153	SAMPLE	247738-003	4175967
154	SAMPLE	247738-004	4099424
155	SAMPLE	247738-005	3894404
156	SAMPLE	247738-008	4020396
157	SAMPLE	247738-009	3903671
158	CCV		4411028
159	CCB		4633720
160	SAMPLE	247738-010	3861476
161	BLANK	QC701692	4735423
162	BS	QC701693	4419842
163	BSD	QC701694	4431911
164	MSS	247792-001	4500878
165	MS	QC701695	4507999
166	MSD	QC701696	4487098
167	SAMPLE	247792-005	4458462
168	SAMPLE	247792-009	4451980
169	SAMPLE	247792-011	4121696
170	ICSAB		3822048
171	CCV		4430663
172	CCB		4664258
173	SAMPLE	247792-016	4446872
174	SAMPLE	247792-019	4325307
175	SAMPLE	247792-022	4447207
176	SAMPLE	247792-024	4394748
177	SAMPLE	247792-027	4311649
178	SAMPLE	247792-037	4405681

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 93328700

Date : 08/16/13 Reference : met09_sn
Sequence : MET09 08/16/13 Analyzed : 08/16/13 06:25

#	Type	Sample ID	Y A
179	SAMPLE	247792-039	4344577
180	SAMPLE	247792-041	4385692
181	SAMPLE	247792-043	4519517
182	SAMPLE	247792-060	4326272
183	CCV		4370834
184	CCB		4731542
185	SAMPLE	247792-064	4382769
186	BLANK	QC701745	4688960
187	BS	QC701746	4459060
188	BSD	QC701747	4454141
189	MSS	247769-005	920664 *
192	SAMPLE	247769-001	4608617
193	SAMPLE	247769-002	817153 *
194	SAMPLE	247769-003	3362973
195	ICSAB		3799047
196	CCV		4315206
198	CCB		4568170
199	SAMPLE	247769-004	2518778
200	SAMPLE	247769-006	2242218
201	CCV		4277308
203	CCB		4591355
204	ICSAB		3706653

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 247736 METALS Filtrate: EPA 6010B

Inst : MET09 Reviewer : ---
Calnum : 93328700001 Date : 16-AUG-2013 06:20
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	met09_sn	93328700002	CRI5.1	16-AUG-2013 06:25	S22714
L2	met09_sn	93328700003	CS100	16-AUG-2013 06:30	S22716
L3	met09_sn	93328700004	CS1K	16-AUG-2013 06:34	S22715
L4	met09_sn	93328700005	CS10K	16-AUG-2013 06:37	S22717
L5	met09_sn	93328700006	CS100K	16-AUG-2013 06:43	S22718

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Chromium	A	253.30	242.95	241.26	238.85		LOR0	0.00000	0.00419		244.09	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Chromium	A	5.0000	6	100.00	2	1000.0	1	10000	0		

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 247736 METALS Filtrate
EPA 6010B

Inst : MET09
Calnum : 93328700001 Cal Date : 16-AUG-2013

ICV 93328700007 (16-AUG-2013) stds: S22721

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Chromium	A	5000	4919	ug/L	-2	10	

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR 247736 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93328700009 File : met09_sn Time : 16-AUG-2013 07:01
Cal : 93328700001 Caldate : 16-AUG-2013
Standards: S22719

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	18810	ug/L	94
Copper	A	20000	20300	ug/L	101
Manganese	A	20000	18160	ug/L	91
Nickel	A	20000	17430	ug/L	87
Vanadium	A	20000	19480	ug/L	97
Aluminum	R	500000	502800	ug/L	101
Calcium	R	500000	485700	ug/L	97
Iron	R	200000	192500	ug/L	96
Magnesium	R	500000	500500	ug/L	100
Titanium	R	20000	21340	ug/L	107

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4582096	3727302	-18.66

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 247736 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93328700118 File : met09_sn Time : 16-AUG-2013 17:12
Cal : 93328700001 Caldate : 16-AUG-2013
Standards: S22720

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	487.7	ug/L	-2	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4582096	3653557	-20.26

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247736 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93328700119 File : met09_sn Time : 16-AUG-2013 17:19
Cal : 93328700001 Caldate : 16-AUG-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	244.09	235.43	5000	4928	ug/L	-1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4582096	4330153	-5.50

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 247736 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93328700121 File : met09_sn Time : 16-AUG-2013 17:29
Cal : 93328700001 Caldate : 16-AUG-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.252	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4582096	4530434	-1.13

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247736 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93328700132 File : met09_sn Time : 16-AUG-2013 18:16
Cal : 93328700001 Caldate : 16-AUG-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	244.09	237.49	5000	4971	ug/L	-1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4582096	4312364	-5.89

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 247736 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93328700134 File : met09_sn Time : 16-AUG-2013 18:26
Cal : 93328700001 Caldate : 16-AUG-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.252	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4582096	4564343	-0.39

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 247736 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93328700145 File : met09_sn Time : 16-AUG-2013 19:45
Cal : 93328700001 Caldate : 16-AUG-2013
Standards: S22720

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	486.1	ug/L	-3	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4582096	3724149	-18.72

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247736 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93328700146 File : met09_sn Time : 16-AUG-2013 19:51
Cal : 93328700001 Caldate : 16-AUG-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	244.09	235.90	5000	4938	ug/L	-1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4582096	4319795	-5.72

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 247736 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93328700147 File : met09_sn Time : 16-AUG-2013 19:58
Cal : 93328700001 Caldate : 16-AUG-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.252	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4582096	4707432	2.74

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247736 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93328700158 File : met09_sn Time : 16-AUG-2013 21:19
Cal : 93328700001 Caldate : 16-AUG-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	244.09	233.03	5000	4878	ug/L	-2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4582096	4411028	-3.73

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 247736 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93328700159 File : met09_sn Time : 16-AUG-2013 21:25
Cal : 93328700001 Caldate : 16-AUG-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.252	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4582096	4633720	1.13

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 247736 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93328700170 File : met09_sn Time : 16-AUG-2013 22:13
Cal : 93328700001 Caldate : 16-AUG-2013
Standards: S22720

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	480.3	ug/L	-4	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4582096	3822048	-16.59

SAMPLE PREPARATION SUMMARY

Batch # : 201670 Analysis : ICAP
Started By : MRN Prep Date : 13-AUG-2013 20:00 Finished By : MRN
Method : 3010A SOP Version : 3010A_icp_rv15 Units : mL
Spike #1 ID : S21652 Spike #2 ID : S21653

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
247736-002		Filtrate	50	50	1	1.0						CR	
247736-003		Filtrate	50	50	1	1.0						CR	
247736-004		Filtrate	50	50	1	1.0						CR	
247736-005		Filtrate	50	50	1	1.0						CR	
247736-006		Filtrate	50	50	1	1.0						CR	
247736-007		Filtrate	50	50	1	1.0						CR	
247736-010		Filtrate	50	50	1	1.0						CR	
247738-001		Filtrate	50	50	1	1.0						CR	
247738-002		Filtrate	50	50	1	1.0						CR	
247738-003		Filtrate	50	50	1	1.0						CR	
247738-004		Filtrate	50	50	1	1.0						CR	
247738-005		Filtrate	50	50	1	1.0						CR	
247738-008		Filtrate	50	50	1	1.0						CR	
247738-009		Filtrate	50	50	1	1.0						CR	
247738-010		Filtrate	50	50	1	1.0						CR	
QC701730	BLANK	Filtrate	50	50	1	1.0							
QC701731	BS	Filtrate	50	50	1	1.0		.5	.5				
QC701732	BSD	Filtrate	50	50	1	1.0		.5	.5				
QC701733	MS	Filtrate	50	50	1	1.0		.5	.5				
QC701734	MSD	Filtrate	50	50	1	1.0		.5	.5				
QC701735	MS	Filtrate	50	50	1	1.0		.5	.5				
QC701736	MSD	Filtrate	50	50	1	1.0		.5	.5				
QC701737	SER	Filtrate	50	50	1	1.0							
QC701738	PDS	Filtrate	50	50	1	1.0							
QC701739	SER	Filtrate	50	50	1	1.0							
QC701740	PDS	Filtrate	50	50	1	1.0							

Analyst: NT Date: 08/19/13 Reviewer: PRW Date: 08/19/13

Water Digestion for ICP

Curtis & Tompkins, Ltd.

LIMS Batch #: 201670
Digested by: MN
Date Digested: 8/13/13

Digestion Method
☒ EPA 3010a for ICP
☐ EPA 200.7
☒ Filtrak Prep

BK3443
Page 90

Lvl.	Sample #	Container ID	Volume Sample(mL)	Final Volume (mL)	Filtered? (y/n)	ID II	Comments
	BLK		☑ 50 ☐	☑ 50 ☐	N	✓	
	BS		☑ 50 ☐	☑ 50 ☐		✓	
	BSD		☑ 50 ☐	☑ 50 ☐		✓	
III	247736-002	D	☑ 50 ☐	☑ 50 ☐		✓	
5	-003		☑ 50 ☐	☑ 50 ☐		✓	
	-004		☑ 50 ☐	☑ 50 ☐		✓	
	-004 MS		☑ 50 ☐	☑ 50 ☐		✓	
	-004 MSD		☑ 50 ☐	☑ 50 ☐		✓	
	-005		☑ 50 ☐	☑ 50 ☐		✓	
10	-006		☑ 50 ☐	☑ 50 ☐		✓	
	-007		☑ 50 ☐	☑ 50 ☐		✓	
	-007 MS		☑ 50 ☐	☑ 50 ☐		✓	
	-007 MSD		☑ 50 ☐	☑ 50 ☐		✓	
	-010		☑ 50 ☐	☑ 50 ☐		✓	
III 15	247738-001	E	☑ 50 ☐	☑ 50 ☐		✓	
	-002		☑ 50 ☐	☑ 50 ☐		✓	
	-003		☑ 50 ☐	☑ 50 ☐		✓	
	-004		☑ 50 ☐	☑ 50 ☐		✓	
	-005		☑ 50 ☐	☑ 50 ☐		✓	
20	-008		☑ 50 ☐	☑ 50 ☐		✓	
	-009		☑ 50 ☐	☑ 50 ☐		✓	
	-010		☑ 50 ☐	☑ 50 ☐		✓	
			☐ 50 ☐	☐ 50 ☐			
			☐ 50 ☐	☐ 50 ☐			
			☐ 50 ☐	☐ 50 ☐			

	Reagent ID or LIMS #	Initials / Date
Digestion tubes, lot #	162904-261	MN 8/13/13
0.5 mL of spike solution (Std1) was added to all spikes	S21652	
0.5 mL of spike solution (Std2) was added to all spikes	S21653	
Digestion Temperature (°C), Block and Probe Location	— —	
digestion begun at (time)	—	
1:1 HCl	18301-052213	
concentrated HNO3	3390	
digestion ended at (time)	—	
☐ filtered thru' Whatman # 541	—	
Relinquished to ICP group	ICAP	

Prep Chemist / Date 8/13/13

Continued from page ____
Continued on page ____

Reviewed by / Date

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 247738
ANALYTICAL REPORT

Haley & Aldrich	Project : 39049-103
400 East Van Buren Street	Location : PGA South
Phoenix, CA 85004	Level : III

Sample ID	Lab ID
AST-INF	247738-001
AST-EFF	247738-002
GAC-02 INF	247738-003
GAC-02 EFF	247738-004
E-07R	247738-005
COG-20	247738-006
COG-11	247738-007
E-12	247738-008
E-17	247738-009
E-117	247738-010
TRIP BLANK	247738-011

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Isabelle Choy Date: 08/21/2013

Isabelle Choy
Project Manager
(510) 486-0900

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**247738**
Client:	**Haley & Aldrich**
Project:	**39049-103**
Location:	**PGA South**
Request Date:	**08/08/13**
Samples Received:	**08/08/13**

This data package contains sample and QC results for eleven water samples, requested for the above referenced project on 08/08/13. See attached cooler receipt form for any sample receipt problems or discrepancies.

Volatile Organics by GC/MS (EPA 8260B):
Low responses were observed for naphthalene and 1,2,3-trichlorobenzene in the CCV analyzed 08/14/13 10:38; these analytes met minimum response criteria. High response was observed for bromomethane; affected data was qualified with "b".

Hexachlorobutadiene and styrene were detected between the MDL and the RL in the method blank for batch 201624; these analytes were not detected in samples at or above the RL.

Bromomethane was detected between the MDL and the RL in the method blank for batch 201675; this analyte was not detected in the sample at or above the RL.

No other analytical problems were encountered.

Metals (EPA 6010B) Water:
No analytical problems were encountered.

Metals (EPA 6010B) Filtrate:
No analytical problems were encountered.

Chain of Custody

Monthly

CHAIN OF CUSTODY

Curtis & Tompkins Laboratories
ENVIRONMENTAL ANALYTICAL TESTING LABORATORY
In Business Since 1878

2323 Fifth Street
Berkeley, CA 94710

Phone (510) 486-0900
Fax (510) 486-0532

C&T LOGIN # 247738

Chain of Custody # _____

Project No: 39049-103
Project Name: PGAS
Project P. O. No: 39049-103
EDD Format: Report Level ☐ II ☐ III ☐ IV
Turnaround Time: ☐ RUSH _____ ☒ Standard

Sampler: Mark Argall
Report To: Paula Chang
Company: H + A
Telephone: 602-760-2418
Email: pchange@haleyaldrich.com

Lab No.	Sample ID.	SAMPLING Date Collected	SAMPLING Time Collected	MATRIX Water	MATRIX Solid	# of Containers	CHEMICAL PRESERVATIVE HCl	H2SO4	HNO3	NaOH	None	ANALYTICAL REQUEST 8260B full list	8260B Halogenated only	6010B Total chrome	6010B Lab filtered/preserve dissolved chrome
1	AST-Inf	8-7-13	0530	X		5	X		X			X		X	X
2	AST-Eff		0540	X		5	X		X			X		X	X
3	GAC-02 Inf		0600	X		5	X		X				X	X	X
4	GAC-02 Eff		0610	X		5	X		X				X	X	X
5	E-07R		0915	X		5	X		X				X	X	X
6	C06-20		1330	X		3	X					X	X		
7	C06-11		1345	X		3	X					X	X		
8	E-12		0930	X		5	X		X				X	X	X
9	E-17		0700	X		5	X		X				X	X	X
10	E-117		0700	X		5	X		X				X	X	X
11	Trip Blank			X		3						X			
	Temp Blank			X		1									

Notes: Lab filter & preserve 6010B dissolved chrome upon Receipt

SAMPLE RECEIPT
☐ Intact
☐ Cold
☐ On Ice
☐ Ambient

RELINQUISHED BY:
[signature] DATE: 8-7-13 TIME:
DATE: TIME:
DATE: TIME:

RECEIVED BY:
[signature] DATE: 8/8/13 TIME: 1030
DATE: TIME:
DATE: TIME:

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 247738 Date Received 8/8/13 Number of coolers 1
Client HRA Project 39044-103

Date Opened 8/8/13 By (print) MG (sign) MG
Date Logged in 1 By (print) J (sign) J

1. Did cooler come with a shipping slip (airbill, etc) YES ~~NO~~ MG
   Shipping info FedEx 8004 7835 1946

2A. Were custody seals present? .... ☑ YES (circle) on cooler on samples ☐ NO
   How many 2 Name WJ Date 8/7/13
2B. Were custody seals intact upon arrival? YES NO ~~N/A~~ MG
3. Were custody papers dry and intact when received? YES NO
4. Were custody papers filled out properly (ink, signed, etc)? YES NO
5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO
6. Indicate the packing in cooler: (if other, describe)

☐ Bubble Wrap ☐ Foam blocks ☑ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☑ Wet ☐ Blue/Gel ☐ None Temp(°C) 5.1

☐ Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES ~~NO~~
   If YES, what time were they transferred to freezer?
9. Did all bottles arrive unbroken/unopened? YES NO
10. Are there any missing / extra samples? YES ~~NO~~
11. Are samples in the appropriate containers for indicated tests? YES NO
12. Are sample labels present, in good condition and complete? YES NO
13. Do the sample labels agree with custody papers? YES NO
14. Was sufficient amount of sample sent for tests requested? YES NO
15. Are the samples appropriately preserved? YES NO N/A
16. Did you check preservatives for all bottles for each sample? YES NO N/A
17. Did you document your preservative check? YES NO N/A
18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO ~~N/A~~
19. Did you change the hold time in LIMS for preserved terracores? YES NO ~~N/A~~
20. Are bubbles > 6mm absent in VOA samples? YES NO N/A
21. Was the client contacted concerning this sample delivery? YES ~~NO~~ MG
   If YES, Who was called? Mark By JSC Date: 8/13/13

COMMENTS
a) -005 "E-12" 2 of 3 VOAs rec'd broken, Sample was compromised

Rev 10, 11/11

Curtis & Tompkins Sample Preservation for 247738

Sample	pH: <2	>9	>12	Other
-001a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[✓]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____
-002a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[✓]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____
-003a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[✓]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____
-004a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[✓]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____

Sample	pH: <2	>9	>12	Other
-005a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[✓]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____
-008a	[ ]	[ ]	[ ]	_____
b	[✓]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
-009a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[✓]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____
-010a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[✓]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____

Analyst: MG
Date: 8/8/13

Laboratory Job Number 247738

ANALYTICAL REPORT

Volatile Organics by GC/MS

Matrix: Water

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	247738	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	AST-INF	Diln Fac:	1.000
Lab ID:	247738-001	Sampled:	08/07/13
Matrix:	Water	Received:	08/08/13
Units:	ug/L		

Analyte	Result	RL	MDL	Batch#	Analyzed
Freon 12	ND	1.0	0.2	201624	08/13/13
Chloromethane	ND	1.0	0.2	201624	08/13/13
Vinyl Chloride	ND	0.5	0.1	201624	08/13/13
Bromomethane	ND	1.0	0.2	201624	08/13/13
Chloroethane	ND	1.0	0.2	201624	08/13/13
Trichlorofluoromethane	ND	1.0	0.2	201624	08/13/13
Acetone	ND	10	0.5	201624	08/13/13
Freon 113	5.3	2.0	0.2	201624	08/13/13
1,1-Dichloroethene	1.6	0.5	0.1	201624	08/13/13
Methylene Chloride	ND	10	0.1	201624	08/13/13
Carbon Disulfide	ND	0.5	0.1	201624	08/13/13
MTBE	0.2 J	0.5	0.1	201624	08/13/13
trans-1,2-Dichloroethene	ND	0.5	0.1	201624	08/13/13
Vinyl Acetate	ND	10	0.5	201624	08/13/13
1,1-Dichloroethane	ND	0.5	0.1	201624	08/13/13
2-Butanone	ND	10	0.3	201624	08/13/13
cis-1,2-Dichloroethene	0.2 J	0.5	0.1	201624	08/13/13
2,2-Dichloropropane	ND	0.5	0.1	201624	08/13/13
Chloroform	0.6	0.5	0.1	201624	08/13/13
Bromochloromethane	ND	0.5	0.2	201624	08/13/13
1,1,1-Trichloroethane	ND	0.5	0.1	201624	08/13/13
1,1-Dichloropropene	ND	0.5	0.1	201624	08/13/13
Carbon Tetrachloride	0.3 J	0.5	0.1	201624	08/13/13
1,2-Dichloroethane	ND	0.5	0.1	201624	08/13/13
Benzene	ND	0.5	0.1	201624	08/13/13
Trichloroethene	34	0.5	0.1	201624	08/13/13
1,2-Dichloropropane	ND	0.5	0.2	201624	08/13/13
Bromodichloromethane	ND	0.5	0.1	201624	08/13/13
Dibromomethane	ND	0.5	0.1	201624	08/13/13
4-Methyl-2-Pentanone	ND	10	0.2	201624	08/13/13
cis-1,3-Dichloropropene	ND	0.5	0.1	201624	08/13/13
Toluene	ND	0.5	0.1	201624	08/13/13
trans-1,3-Dichloropropene	ND	0.5	0.1	201624	08/13/13
1,1,2-Trichloroethane	ND	0.5	0.2	201624	08/13/13
2-Hexanone	ND	10	0.2	201624	08/13/13
1,3-Dichloropropane	ND	0.5	0.1	201624	08/13/13
Tetrachloroethene	1.9	0.5	0.1	201624	08/13/13
Dibromochloromethane	ND	0.5	0.1	201624	08/13/13
1,2-Dibromoethane	ND	0.5	0.1	201624	08/13/13
Chlorobenzene	ND	0.5	0.1	201624	08/13/13
1,1,1,2-Tetrachloroethane	ND	0.5	0.1	201624	08/13/13
Ethylbenzene	ND	0.5	0.2	201624	08/13/13
m,p-Xylenes	ND	0.5	0.1	201624	08/13/13
o-Xylene	ND	0.5	0.1	201624	08/13/13
Styrene	ND	0.5	0.1	201675	08/14/13
Bromoform	ND	1.0	0.1	201624	08/13/13
Isopropylbenzene	ND	0.5	0.1	201624	08/13/13
1,1,2,2-Tetrachloroethane	ND	0.5	0.1	201624	08/13/13
1,2,3-Trichloropropane	ND	0.5	0.1	201624	08/13/13
Propylbenzene	ND	0.5	0.1	201624	08/13/13
Bromobenzene	ND	0.5	0.1	201624	08/13/13
1,3,5-Trimethylbenzene	ND	0.5	0.1	201624	08/13/13
2-Chlorotoluene	ND	0.5	0.1	201624	08/13/13

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	247738	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	AST-INF	Diln Fac:	1.000
Lab ID:	247738-001	Sampled:	08/07/13
Matrix:	Water	Received:	08/08/13
Units:	ug/L		

Analyte	Result	RL	MDL	Batch#	Analyzed
4-Chlorotoluene	ND	0.5	0.2	201624	08/13/13
tert-Butylbenzene	ND	0.5	0.1	201624	08/13/13
1,2,4-Trimethylbenzene	ND	0.5	0.2	201624	08/13/13
sec-Butylbenzene	ND	0.5	0.1	201624	08/13/13
para-Isopropyl Toluene	ND	0.5	0.1	201624	08/13/13
1,3-Dichlorobenzene	ND	0.5	0.1	201624	08/13/13
1,4-Dichlorobenzene	ND	0.5	0.1	201624	08/13/13
n-Butylbenzene	ND	0.5	0.1	201624	08/13/13
1,2-Dichlorobenzene	ND	0.5	0.1	201624	08/13/13
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2	201624	08/13/13
1,2,4-Trichlorobenzene	ND	0.5	0.1	201624	08/13/13
Hexachlorobutadiene	ND	2.0	0.1	201624	08/13/13
Naphthalene	ND	2.0	0.1	201624	08/13/13
1,2,3-Trichlorobenzene	ND	0.5	0.1	201624	08/13/13

Surrogate	%REC	Limits	Batch#	Analyzed
Dibromofluoromethane	86	80-123	201624	08/13/13
1,2-Dichloroethane-d4	105	76-138	201624	08/13/13
Toluene-d8	93	80-120	201624	08/13/13
Bromofluorobenzene	93	80-125	201624	08/13/13

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	247738	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	AST-EFF	Batch#:	201624
Lab ID:	247738-002	Sampled:	08/07/13
Matrix:	Water	Received:	08/08/13
Units:	ug/L	Analyzed:	08/13/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	0.5
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.1
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
Vinyl Acetate	ND	10	0.5
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.3
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.2
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	0.2 J	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.2
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.2
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	247738	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	AST-EFF	Batch#:	201624
Lab ID:	247738-002	Sampled:	08/07/13
Matrix:	Water	Received:	08/08/13
Units:	ug/L	Analyzed:	08/13/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.1
4-Chlorotoluene	ND	0.5	0.2
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.2
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.1
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	86	80-123
1,2-Dichloroethane-d4	104	76-138
Toluene-d8	95	80-120
Bromofluorobenzene	91	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247738	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GAC-02 INF	Batch#:	201624
Lab ID:	247738-003	Sampled:	08/07/13
Matrix:	Water	Received:	08/08/13
Units:	ug/L	Analyzed:	08/13/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.1 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	3.0	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	103	76-138
Toluene-d8	95	80-120
Bromofluorobenzene	93	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247738	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GAC-02 EFF	Batch#:	201561
Lab ID:	247738-004	Sampled:	08/07/13
Matrix:	Water	Received:	08/08/13
Units:	ug/L	Analyzed:	08/10/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.2 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	110	76-138
Toluene-d8	92	80-120
Bromofluorobenzene	91	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247738	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	E-07R	Batch#:	201561
Lab ID:	247738-005	Sampled:	08/07/13
Matrix:	Water	Received:	08/08/13
Units:	ug/L	Analyzed:	08/10/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	10	2.0	0.2
1,1-Dichloroethene	3.0	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	0.1 J	0.5	0.1
cis-1,2-Dichloroethene	0.2 J	0.5	0.1
Chloroform	0.4 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	58	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	1.3	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	107	76-138
Toluene-d8	93	80-120
Bromofluorobenzene	91	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247738	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	COG-20	Batch#:	201561
Lab ID:	247738-006	Sampled:	08/07/13
Matrix:	Water	Received:	08/08/13
Units:	ug/L	Analyzed:	08/10/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.7 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	2.3	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	111	76-138
Toluene-d8	94	80-120
Bromofluorobenzene	91	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247738	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	COG-11	Batch#:	201561
Lab ID:	247738-007	Sampled:	08/07/13
Matrix:	Water	Received:	08/08/13
Units:	ug/L	Analyzed:	08/10/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	0.5	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	105	76-138
Toluene-d8	94	80-120
Bromofluorobenzene	89	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247738	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	E-12	Batch#:	201624
Lab ID:	247738-008	Sampled:	08/07/13
Matrix:	Water	Received:	08/08/13
Units:	ug/L	Analyzed:	08/13/13
Diln Fac:	2.000		

Analyte	Result	RL	MDL
Chloromethane	ND	2.0	0.4
Vinyl Chloride	ND	1.0	0.2
Bromomethane	ND	2.0	0.3
Chloroethane	ND	2.0	0.3
Trichlorofluoromethane	ND	2.0	0.4
Freon 113	7.0	4.0	0.3
1,1-Dichloroethene	0.8 J	1.0	0.2
Methylene Chloride	ND	40	0.3
trans-1,2-Dichloroethene	ND	1.0	0.2
1,1-Dichloroethane	ND	1.0	0.2
cis-1,2-Dichloroethene	1.5	1.0	0.2
Chloroform	1.2 J	2.0	0.2
1,1,1-Trichloroethane	ND	1.0	0.2
Carbon Tetrachloride	ND	1.0	0.2
1,2-Dichloroethane	ND	1.0	0.2
Trichloroethene	100	1.0	0.2
1,2-Dichloropropane	ND	1.0	0.3
Bromodichloromethane	ND	1.0	0.2
cis-1,3-Dichloropropene	ND	1.0	0.2
trans-1,3-Dichloropropene	ND	1.0	0.2
1,1,2-Trichloroethane	ND	1.0	0.3
Tetrachloroethene	2.2	1.0	0.2
Dibromochloromethane	ND	1.0	0.2
Chlorobenzene	ND	1.0	0.2
Bromoform	ND	1.0	0.2
1,1,2,2-Tetrachloroethane	ND	1.0	0.2
1,3-Dichlorobenzene	ND	1.0	0.2
1,4-Dichlorobenzene	ND	1.0	0.2
1,2-Dichlorobenzene	ND	1.0	0.2

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	103	76-138
Toluene-d8	95	80-120
Bromofluorobenzene	95	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247738	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	E-17	Batch#:	201561
Lab ID:	247738-009	Sampled:	08/07/13
Matrix:	Water	Received:	08/08/13
Units:	ug/L	Analyzed:	08/10/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	5.6	2.0	0.2
1,1-Dichloroethene	1.3	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.8 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	0.4 J	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	27	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	3.5	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	109	76-138
Toluene-d8	93	80-120
Bromofluorobenzene	92	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247738	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	E-117	Batch#:	201561
Lab ID:	247738-010	Sampled:	08/07/13
Matrix:	Water	Received:	08/08/13
Units:	ug/L	Analyzed:	08/10/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	5.6	2.0	0.2
1,1-Dichloroethene	1.4	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.9 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	0.4 J	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	27	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	3.7	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	107	76-138
Toluene-d8	94	80-120
Bromofluorobenzene	93	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247738	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	TRIP BLANK	Batch#:	201561
Lab ID:	247738-011	Sampled:	08/07/13
Matrix:	Water	Received:	08/08/13
Units:	ug/L	Analyzed:	08/10/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	105	76-138
Toluene-d8	93	80-120
Bromofluorobenzene	93	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	247738	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	TRIP BLANK	Batch#:	201561
Lab ID:	247738-011	Sampled:	08/07/13
Matrix:	Water	Received:	08/08/13
Units:	ug/L	Analyzed:	08/10/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	0.5
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.1
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
Vinyl Acetate	ND	10	0.5
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.3
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.2
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.2
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.2
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1
2-Chlorotoluene	ND	0.5	0.1

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	247738	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	TRIP BLANK	Batch#:	201561
Lab ID:	247738-011	Sampled:	08/07/13
Matrix:	Water	Received:	08/08/13
Units:	ug/L	Analyzed:	08/10/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
4-Chlorotoluene	ND	0.5	0.2
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.2
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.1
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	85	80-123
1,2-Dichloroethane-d4	105	76-138
Toluene-d8	93	80-120
Bromofluorobenzene	93	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	247738	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	201561
Units:	ug/L	Analyzed:	08/10/13
Diln Fac:	1.000		

Type: BS Lab ID: QC701270

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	11.48	92	77-132
Trichloroethene	12.50	13.80	110	80-120
Chlorobenzene	12.50	14.11	113	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	103	76-138
Toluene-d8	92	80-120
Bromofluorobenzene	90	80-125

Type: BSD Lab ID: QC701271

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	11.21	90	77-132	2	20
Trichloroethene	12.50	13.59	109	80-120	2	20
Chlorobenzene	12.50	14.07	113	80-120	0	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	102	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	90	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	247738	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC701272	Batch#:	201561
Matrix:	Water	Analyzed:	08/10/13
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	106	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	91	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	247738	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	201624
Units:	ug/L	Analyzed:	08/13/13
Diln Fac:	1.000		

Type: BS Lab ID: QC701535

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	24.07	96	77-132
Trichloroethene	25.00	27.36	109	80-120
Chlorobenzene	25.00	29.12	116	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	97	76-138
Toluene-d8	98	80-120
Bromofluorobenzene	90	80-125

Type: BSD Lab ID: QC701536

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	24.26	97	77-132	1	20
Trichloroethene	25.00	28.53	114	80-120	4	20
Chlorobenzene	25.00	29.17	117	80-120	0	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	97	76-138
Toluene-d8	95	80-120
Bromofluorobenzene	89	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	247738	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	201624
Units:	ug/L	Analyzed:	08/13/13
Diln Fac:	1.000		

Type: BS Lab ID: QC701535

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	24.07	96	77-132
Benzene	25.00	25.91	104	80-122
Trichloroethene	25.00	27.36	109	80-120
Toluene	25.00	28.12	112	80-121
Chlorobenzene	25.00	29.12	116	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	85	80-123
1,2-Dichloroethane-d4	97	76-138
Toluene-d8	98	80-120
Bromofluorobenzene	90	80-125

Type: BSD Lab ID: QC701536

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	24.26	97	77-132	1	20
Benzene	25.00	26.81	107	80-122	3	20
Trichloroethene	25.00	28.53	114	80-120	4	20
Toluene	25.00	27.56	110	80-121	2	20
Chlorobenzene	25.00	29.17	117	80-120	0	20

Surrogate	%REC	Limits
Dibromofluoromethane	83	80-123
1,2-Dichloroethane-d4	97	76-138
Toluene-d8	95	80-120
Bromofluorobenzene	89	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	247738	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC701537	Batch#:	201624
Matrix:	Water	Analyzed:	08/13/13
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	101	76-138
Toluene-d8	94	80-120
Bromofluorobenzene	88	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	247738	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC701537	Batch#:	201624
Matrix:	Water	Analyzed:	08/13/13
Units:	ug/L		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	0.5
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.1
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
Vinyl Acetate	ND	10	0.5
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.3
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.2
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.2
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.2
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	0.1 J	0.5	0.1
Bromoform	ND	0.5	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	247738	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC701537	Batch#:	201624
Matrix:	Water	Analyzed:	08/13/13
Units:	ug/L		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.1
4-Chlorotoluene	ND	0.5	0.2
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.2
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	0.2 J	2.0	0.1
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	84	80-123
1,2-Dichloroethane-d4	101	76-138
Toluene-d8	94	80-120
Bromofluorobenzene	88	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	247738	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	201675
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Type: BS Lab ID: QC701760

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	24.22	97	77-132
Benzene	25.00	25.78	103	80-122
Trichloroethene	25.00	27.41	110	80-120
Toluene	25.00	26.80	107	80-121
Chlorobenzene	25.00	29.06	116	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-123
1,2-Dichloroethane-d4	116	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	99	80-125

Type: BSD Lab ID: QC701761

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	21.13	85	77-132	14	20
Benzene	25.00	23.44	94	80-122	10	20
Trichloroethene	25.00	24.99	100	80-120	9	20
Toluene	25.00	23.84	95	80-121	12	20
Chlorobenzene	25.00	26.44	106	80-120	9	20

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-123
1,2-Dichloroethane-d4	115	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	100	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	247738	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC701762	Batch#:	201675
Matrix:	Water	Analyzed:	08/14/13
Units:	ug/L		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.1
Chloromethane	ND	1.0	0.3
Vinyl Chloride	ND	0.5	0.1
Bromomethane	0.3 J b	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	1.6
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	10	0.2
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
Vinyl Acetate	ND	10	1.1
1,1-Dichloroethane	ND	0.5	0.2
2-Butanone	ND	10	0.4
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.7
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.2
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1

J= Estimated value
b= See narrative
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	247738	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC701762	Batch#:	201675
Matrix:	Water	Analyzed:	08/14/13
Units:	ug/L		

Analyte	Result	RL	MDL
1,3,5-Trimethylbenzene	ND	0.5	0.1
2-Chlorotoluene	ND	0.5	0.1
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.1
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-123
1,2-Dichloroethane-d4	116	76-138
Toluene-d8	98	80-120
Bromofluorobenzene	100	80-125

J= Estimated value
b= See narrative
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Initial & Continuing Calibration Data

CURTIS & TOMPKINS BFB TUNE FOR 247738 MSVOA Water
EPA 8260B

Inst : MSVOA08 Run Name : BFB IDF : 1.0
Seqnum : 473114230007 File : hck07 Time : 20-MAR-2013 14:05

Standards: S21369

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	11442	22.41	
75	30% - 60% of mass 95	23940	46.89	
95		51061	100.00	
96	5% - 9% of mass 95	3250	6.36	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	39269	76.91	
175	5% - 9% of mass 174	2784	7.09	
176	> 95% and < 101% of mass 174	37378	95.18	
177	5% - 9% of mass 176	2389	6.39	

Analyst: MJB Date: 03/22/13 Reviewer: LW Date: 03/22/13

CURTIS & TOMPKINS BFB TUNE FOR 247738 MSVOA Water
EPA 8260B

Inst : MSVOA08 Run Name : BFB IDF : 1.0
Seqnum : 473326033004 File : hhe04 Time : 14-AUG-2013 10:11

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	11799	22.57	
75	30% - 60% of mass 95	23074	44.14	
95		52272	100.00	
96	5% - 9% of mass 95	3400	6.50	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	43480	83.18	
175	5% - 9% of mass 174	2858	6.57	
176	> 95% and < 101% of mass 174	41501	95.45	
177	5% - 9% of mass 176	2505	6.04	

Analyst: KKM Date: 08/14/13 Reviewer: BO Date: 08/15/13

CURTIS & TOMPKINS BFB TUNE FOR 247738 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : BFB IDF : 1.0
Seqnum : 483147320011 File : idc11 Time : 12-APR-2013 14:37

Standards: S21369

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	82690	20.27	
75	30% - 60% of mass 95	177445	43.49	
95		408000	100.00	
96	5% - 9% of mass 95	27293	6.69	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	324138	79.45	
175	5% - 9% of mass 174	24104	7.44	
176	> 95% and < 101% of mass 174	310613	95.83	
177	5% - 9% of mass 176	20056	6.46	

Analyst: MJB Date: 04/15/13 Reviewer: TW Date: 04/17/13

CURTIS & TOMPKINS BFB TUNE FOR 247738 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : BFB IDF : 1.0
Seqnum : 483320483004 File : iha04 Time : 10-AUG-2013 14:54

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	16571	18.75	
75	30% - 60% of mass 95	38213	43.23	
95		88392	100.00	
96	5% - 9% of mass 95	5616	6.35	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	78232	88.51	
175	5% - 9% of mass 174	4392	5.61	
176	> 95% and < 101% of mass 174	74989	95.85	
177	5% - 9% of mass 176	4902	6.54	

Analyst: MJB Date: 08/12/13 Reviewer: BO Date: 08/12/13

CURTIS & TOMPKINS BFB TUNE FOR 247738 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : BFB IDF : 1.0
Seqnum : 483324446004 File : ihd04 Time : 13-AUG-2013 09:23

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	77880	18.81	
75	30% - 60% of mass 95	181021	43.73	
95		413973	100.00	
96	5% - 9% of mass 95	28150	6.80	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	392362	94.78	
175	5% - 9% of mass 174	30048	7.66	
176	> 95% and < 101% of mass 174	389120	99.17	
177	5% - 9% of mass 176	26200	6.73	

Analyst: MJB Date: 08/13/13 Reviewer: BO Date: 08/14/13

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 247738 MSVOA Water: EPA 8260B

Inst : MSVOA08 Name : 826GOX8
Calnum : 473114230005 Date : 20-MAR-2013 15:46 Type : WATER
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	hck10	473114230010		20-MAR-2013 15:46	S21889 (2000000X), S21576 (1000000X), S21635 (2000000X), S21908 (2000000X), S21822 (5000X)
L2	hck11	473114230011		20-MAR-2013 16:23	S21889 (1000000X), S21576 (500000X), S21635 (1000000X), S21908 (1000000X), S21822 (5000X)
L3	hck12	473114230012		20-MAR-2013 17:00	S21889 (250000X), S21576 (250000X), S21635 (500000X), S21908 (250000X), S21822 (5000X)
L4	hck13	473114230013		20-MAR-2013 17:40	S21889 (100000X), S21576 (100000X), S21635 (200000X), S21908 (100000X), S21822 (5000X)
L5	hck14	473114230014		20-MAR-2013 18:18	S21889 (50000X), S21576 (50000X), S21635 (100000X), S21908 (50000X), S21822 (5000X)
L6	hck15	473114230015		20-MAR-2013 18:55	S21889 (25000X), S21576 (25000X), S21635 (50000X), S21908 (25000X), S21822 (5000X)
L7	hck16	473114230016		20-MAR-2013 19:32	S21889 (10000X), S21576 (10000X), S21635 (20000X), S21908 (10000X), S21822 (5000X)
L8	hck17	473114230017		20-MAR-2013 20:10	S21889 (6667X), S21576 (6667X), S21635 (13330X), S21908 (6667X), S21822 (5000X)
L9	hck18	473114230018		20-MAR-2013 21:08	S21889 (5000X), S21576 (5000X), S21635 (10000X), S21908 (5000X), S21822 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.8456	0.8462	0.7309	0.6998	0.7889	0.7954	0.7353	0.7112	AVRG		1.30013		0.7692	8	15	0.05	0.99	
Chloromethane	0.9791	0.9239m	0.9947	0.8273	0.8638	0.8558	0.8198	0.7010	0.6768	AVRG		1.17765		0.8491	13	15	0.10	0.99	
Vinyl Chloride	0.7662	0.6398	0.7271	0.5984	0.6155	0.6641	0.6258	0.5646	0.5390	AVRG		1.56779		0.6378	11	15	0.05	0.99	
Bromomethane		0.3013m	0.4298m	0.3692	0.3863	0.4252	0.4059	0.3916	0.3808	AVRG		2.58886		0.3863	10	15	0.05	0.99	
Chloroethane		0.3466	0.4026	0.3451	0.3367	0.3558	0.3384	0.3151	0.2995	AVRG		2.91998		0.3425	9	15	0.05	0.99	
Trichlorofluoromethane		0.6748	0.7185	0.6067	0.5966	0.6635	0.6448	0.6006	0.5934	AVRG		1.56899		0.6374	7	15	0.05	0.99	
Acetone				0.1453	0.1298	0.1272	0.1307	0.1239	0.1363	AVRG		7.56449		0.1322	6	15	0.05	0.99	
Freon 113		0.4332	0.5352	0.4485	0.4253	0.4844	0.4932	0.4567	0.4418	AVRG		2.15157		0.4648	8	15	0.05	0.99	
1,1-Dichloroethene		0.4741	0.5506	0.4390	0.4832	0.4900	0.4946	0.4531	0.4459	AVRG		2.08855		0.4788	7	15	0.05	0.99	
Methylene Chloride		0.6388	0.6687	0.5796	0.6438	0.6399	0.6207	0.5630	0.5594	AVRG		1.62806		0.6142	7	15	0.05	0.99	
Carbon Disulfide		1.9961	2.2114	1.8393	1.9774	2.0022	1.9480	1.7716	1.7422	AVRG		0.51652		1.9360	8	15	0.05	0.99	
MTBE		1.0500	1.2627	1.1211	1.1835	1.1890	1.1913	1.1048	1.1442	AVRG		0.86519		1.1558	6	15	0.05	0.99	
trans-1,2-Dichloroethene		0.5135	0.5843	0.5184	0.5586	0.5643	0.5587	0.5079	0.4989	AVRG		1.85852		0.5381	6	15	0.05	0.99	
Vinyl Acetate			0.8355	0.7122	0.7023	0.7301	0.6831	0.6122		AVRG		1.40338		0.7126	10	15	0.05	0.99	
1,1-Dichloroethane		1.0574	1.2250	0.9754	1.0828	1.0661	1.0301	0.9321	0.8996	AVRG		0.96754		1.0335	10	15	0.10	0.99	
2-Butanone				0.1820	0.1683	0.1728	0.1679	0.1571	0.1710	AVRG		5.88764		0.1698	5	15	0.05	0.99	
2,2-Dichloropropane		0.6519	0.7715	0.6376	0.6908	0.6894	0.6787	0.6192	0.6065	AVRG		1.49654		0.6682	8	15	0.05	0.99	
cis-1,2-Dichloroethene		0.5888	0.6660	0.5357	0.6130	0.6091	0.5998	0.5508	0.5426	AVRG		1.70000		0.5882	7	15	0.05	0.99	
Chloroform		0.9104	1.0458	0.8736	0.9803	0.9649	0.9411	0.8488	0.8317	AVRG		1.08157		0.9246	8	15	0.05	0.99	
Bromochloromethane		0.2682	0.3151	0.2547	0.2864	0.2881	0.2845	0.2610	0.2497	AVRG		3.62357		0.2760	8	15	0.05	0.99	
1,1,1-Trichloroethane		0.6679	0.7283	0.5800	0.6440	0.6570	0.6567	0.6110	0.5906	AVRG		1.55780		0.6419	7	15	0.05	0.99	
1,1-Dichloropropene		0.4099	0.4692	0.3820	0.4185	0.4379	0.4251	0.4024	0.3805	AVRG		2.40568		0.4157	7	15	0.05	0.99	
Carbon Tetrachloride		0.3072	0.3654	0.3158	0.3416	0.3643	0.3633	0.3509	0.3340	AVRG		2.91721		0.3428	7	15	0.05	0.99	
1,2-Dichloroethane		0.4102	0.4259	0.3692	0.3895	0.3933	0.3773	0.3623	0.3508	AVRG		2.59859		0.3848	7	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		1.3063	1.4491	1.1789	1.3169	1.2979	1.2247	1.1272	1.0486	AVRG		0.80405		1.2437	10	15	0.05	0.99	
Trichloroethene		0.3186	0.3703	0.2964	0.3381	0.3410	0.3313	0.3201	0.3075	AVRG		3.04956		0.3279	7	15	0.05	0.99	
1,2-Dichloropropane		0.3864	0.4175	0.3396	0.3791	0.3832	0.3620	0.3349	0.3168	AVRG		2.74021		0.3649	9	15	0.05	0.99	
Bromodichloromethane		0.3769	0.4403	0.3762	0.4272	0.4308	0.4235	0.4055	0.3940	AVRG		2.44325		0.4093	6	15	0.05	0.99	
Dibromomethane		0.1781	0.2112	0.1883	0.2038	0.2020	0.2046	0.1964	0.1920	AVRG		5.07468		0.1971	5	15	0.05	0.99	
4-Methyl-2-Pentanone				0.2304	0.2248	0.2273	0.2250	0.2173	0.2368	AVRG		4.40638		0.2269	3	15	0.05	0.99	
cis-1,3-Dichloropropene		0.4323	0.5096	0.4373	0.4928	0.4862	0.4801	0.4550	0.4419	AVRG		2.14186		0.4669	6	15	0.05	0.99	
Toluene		0.9034	0.9995	0.8188	0.8987	0.8963	0.8399	0.7867	0.7459	AVRG		1.16121		0.8612	9	15	0.05	0.99	
trans-1,3-Dichloropropene		0.4479	0.5261	0.4620	0.5050	0.5214	0.5163	0.4867	0.4772	AVRG		2.02917		0.4928	6	15	0.05	0.99	
1,1,2-Trichloroethane		0.1408	0.1726	0.1611	0.1697	0.1687	0.1716	0.1636	0.1614	AVRG		6.10856		0.1637	6	15	0.05	0.99	
2-Hexanone				0.1942	0.1884	0.1899	0.1885	0.1747	0.1891	AVRG		5.33441		0.1875	4	15	0.05	0.99	
1,3-Dichloropropane		0.4996	0.5650	0.4917	0.5255	0.5299	0.5139	0.4756	0.4772	AVRG		1.96153		0.5098	6	15	0.05	0.99	
Tetrachloroethene		0.3642	0.3963	0.3255	0.3401	0.3543	0.3530	0.3430	0.3336	AVRG		2.84702		0.3512	6	15	0.05	0.99	
Dibromochloromethane		0.2976	0.3656	0.3193	0.3635	0.3736	0.3810	0.3767	0.3764	AVRG		2.80343		0.3567	9	15	0.05	0.99	
1,2-Dibromoethane		0.2868	0.3183	0.2820	0.3091	0.3166	0.3123	0.3027	0.3058	AVRG		3.28746		0.3042	4	15	0.05	0.99	
Chlorobenzene		0.9822	1.1174	0.9190	1.0266	1.0033	0.9377	0.8726	0.8270	AVRG		1.04087		0.9607	10	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.3306	0.3562	0.3139	0.3377	0.3530	0.3475	0.3302	0.3174	AVRG		2.97805		0.3358	5	15	0.05	0.99	
Ethylbenzene		1.7286	1.8761	1.5558	1.6514	1.6480	1.5103	1.3444	1.2566	AVRG		0.63637		1.5714	13	15	0.05	0.99	
m,p-Xylenes	0.4864	0.6188	0.7082	0.5702	0.6161	0.6094	0.5526	0.4922	0.4476	AVRG		1.76422		0.5668	14	15	0.05	0.99	
o-Xylene		0.6478	0.6960	0.5653	0.6279	0.6143	0.5991	0.5572	0.5142	AVRG		1.65916		0.6027	9	15	0.05	0.99	
Styrene		0.9039	1.1014	0.9580	1.0633	1.0416	0.9796	0.8978	0.8316	AVRG		1.02862		0.9722	10	15	0.05	0.99	
Bromoform		0.1424	0.1879	0.1754	0.1898	0.2032	0.2163	0.2217	0.2337	AVRG		5.09409		0.1963	15	15	0.10	0.99	
Isopropylbenzene		2.9653	3.2359	2.7632	2.9622	3.0133	2.6717	2.3797	2.2186	AVRG		0.36020		2.7762	12	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		0.5836	0.6565	0.6297	0.6676	0.6668	0.6251	0.5915	0.5906	AVRG		1.59631		0.6264	6	15	0.30	0.99	
1,2,3-Trichloropropane		0.1006	0.1628	0.1513	0.1576	0.1557	0.1575	0.1478	0.1562	AVRG		6.72589		0.1487	13	15	0.05	0.99	
Propylbenzene		3.9451	4.0213	3.3830	3.6422	3.6031	3.1210	2.7124		AVRG		0.28656		3.4897	13	15	0.05	0.99	
Bromobenzene		0.7904	0.8835	0.7341	0.8338	0.8176	0.7583	0.7006	0.6634	AVRG		1.29418		0.7727	9	15	0.05	0.99	
1,3,5-Trimethylbenzene		2.5364	2.5915	2.2352	2.4180	2.4177	2.1411	1.8734	1.7135	AVRG		0.44626		2.2408	14	15	0.05	0.99	
2-Chlorotoluene		2.5633	2.6726	2.2470	2.4843	2.4784	2.1924	1.9201	1.7495	AVRG		0.43698		2.2885	14	15	0.05	0.99	
4-Chlorotoluene		2.2434	2.4624	2.0334	2.2889	2.2833	2.0039	1.8189	1.6915	AVRG		0.47546		2.1032	12	15	0.05	0.99	
tert-Butylbenzene		2.1457	2.4230	1.9975	2.1952	2.2337	2.0164	1.8431	1.6778	AVRG		0.48390		2.0666	11	15	0.05	0.99	
1,2,4-Trimethylbenzene		2.5097	2.6021	2.2529	2.4469	2.4976	2.2196	1.9872	1.8103	AVRG		0.43653		2.2908	12	15	0.05	0.99	
sec-Butylbenzene		3.3116	3.5547	2.9503	3.1593	3.1932	2.9136	2.5973	2.3235	AVRG		0.33329		3.0004	13	15	0.05	0.99	
para-Isopropyl Toluene		2.7101	2.7723	2.3723	2.5717	2.5680	2.3328	2.0772	1.8729	AVRG		0.41500		2.4097	13	15	0.05	0.99	
1,3-Dichlorobenzene		1.6121	1.6237	1.3606	1.5203	1.4872	1.3710	1.2822	1.1718	AVRG		0.69998		1.4286	11	15	0.05	0.99	
1,4-Dichlorobenzene		1.5744	1.5960	1.3186	1.4945	1.4683	1.3548	1.2428	1.1609	AVRG		0.71363		1.4013	11	15	0.05	0.99	
n-Butylbenzene		2.5161	2.5129	2.1759	2.2925	2.3071	2.0529	1.8581	1.6986	AVRG		0.45940		2.1768	13	15	0.05	0.99	
1,2-Dichlorobenzene		1.4518	1.5532	1.3292	1.4868	1.4403	1.3427	1.2506	1.1908	AVRG		0.72428		1.3807	9	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.0808	0.1022	0.0994	0.0946	0.1025	0.1068	0.1038	0.1098	AVRG		10.0013		0.1000	9	15	0.05	0.99	
1,2,4-Trichlorobenzene		0.8086	0.8667	0.7104	0.7880	0.7986	0.7691	0.7429	0.7156	AVRG		1.29036		0.7750	7	15	0.05	0.99	
Hexachlorobutadiene		0.3553	0.3376	0.2835	0.3115	0.3236	0.3280	0.3373	0.3254	AVRG		3.07451		0.3253	7	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene		1.6250	1.7525	1.6695	1.8453	1.8665	1.7896	1.7156	1.6881	AVRG		0.57339		1.7440	5	15	0.05	0.99	
1,2,3-Trichlorobenzene		0.7198	0.7550	0.6657	0.7511	0.7464	0.7231	0.7101	0.7015	AVRG		1.38584		0.7216	4	15	0.05	0.99	
Dibromofluoromethane	0.5681	0.5635	0.5751	0.5730	0.5657	0.5680	0.5568	0.5413	0.5402	AVRG		1.78158		0.5613	2	15	0.05	0.99	
1,2-Dichloroethane-d4	0.3285	0.3158	0.3222	0.3223	0.3053	0.3057	0.2878	0.2763	0.2733	AVRG		3.28802		0.3041	7	15	0.05	0.99	
Toluene-d8	1.2132	1.2073	1.2265	1.2020	1.2150	1.2227	1.2015	1.2046	1.2115	AVRG		0.82537		1.2116	1	15	0.05	0.99	
Bromofluorobenzene	0.9812	0.9792	0.9538	0.9701	0.9884	0.9947	0.9315	0.9215	0.9161	AVRG		1.04209		0.9596	3	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Freon 12			1.0000	10	2.0000	10	5.0000	-5	10.000	-9	20.000	3	50.000	3	75.000	-4	100.00	-8
Chloromethane	0.5000	15	1.0000	9	2.0000	17	5.0000	-3	10.000	2	20.000	1	50.000	-3	75.000	-17	100.00	-20
Vinyl Chloride	0.5000	20	1.0000	0	2.0000	14	5.0000	-6	10.000	-3	20.000	4	50.000	-2	75.000	-11	100.00	-15
Bromomethane			1.0000	**-22**	2.0000	11	5.0000	-4	10.000	0	20.000	10	50.000	5	75.000	1	100.00	-1
Chloroethane			1.0000	1	2.0000	18	5.0000	1	10.000	-2	20.000	4	50.000	-1	75.000	-8	100.00	-13
Trichlorofluoromethane			1.0000	6	2.0000	13	5.0000	-5	10.000	-6	20.000	4	50.000	1	75.000	-6	100.00	-7
Acetone							5.0000	10	10.000	-2	20.000	-4	50.000	-1	75.000	-6	100.00	3
Freon 113			0.5000	-7	2.0000	15	5.0000	-3	10.000	-9	20.000	4	50.000	6	75.000	-2	100.00	-5
1,1-Dichloroethene			0.5000	-1	2.0000	15	5.0000	-8	10.000	1	20.000	2	50.000	3	75.000	-5	100.00	-7
Methylene Chloride			0.5000	4	2.0000	9	5.0000	-6	10.000	5	20.000	4	50.000	1	75.000	-8	100.00	-9
Carbon Disulfide			0.5000	3	2.0000	14	5.0000	-5	10.000	2	20.000	3	50.000	1	75.000	-8	100.00	-10
MTBE			0.5000	-9	2.0000	9	5.0000	-3	10.000	2	20.000	3	50.000	3	75.000	-4	100.00	-1
trans-1,2-Dichloroethene			0.5000	-5	2.0000	9	5.0000	-4	10.000	4	20.000	5	50.000	4	75.000	-6	100.00	-7
Vinyl Acetate					2.0000	17	5.0000	0	10.000	-1	20.000	2	50.000	-4	75.000	-14		
1,1-Dichloroethane			0.5000	2	2.0000	19	5.0000	-6	10.000	5	20.000	3	50.000	0	75.000	-10	100.00	-13
2-Butanone							5.0000	7	10.000	-1	20.000	2	50.000	-1	75.000	-8	100.00	1
2,2-Dichloropropane			0.5000	-2	2.0000	15	5.0000	-5	10.000	3	20.000	3	50.000	2	75.000	-7	100.00	-9
cis-1,2-Dichloroethene			0.5000	0	2.0000	13	5.0000	-9	10.000	4	20.000	4	50.000	2	75.000	-6	100.00	-8
Chloroform			0.5000	-2	2.0000	13	5.0000	-6	10.000	6	20.000	4	50.000	2	75.000	-8	100.00	-10
Bromochloromethane			0.5000	-3	2.0000	14	5.0000	-8	10.000	4	20.000	4	50.000	3	75.000	-5	100.00	-10
1,1,1-Trichloroethane			0.5000	4	2.0000	13	5.0000	-10	10.000	0	20.000	2	50.000	2	75.000	-5	100.00	-8
1,1-Dichloropropene			0.5000	-1	2.0000	13	5.0000	-8	10.000	1	20.000	5	50.000	2	75.000	-3	100.00	-8
Carbon Tetrachloride			0.5000	-10	2.0000	7	5.0000	-8	10.000	0	20.000	6	50.000	6	75.000	2	100.00	-3
1,2-Dichloroethane			0.5000	7	2.0000	11	5.0000	-4	10.000	1	20.000	2	50.000	-2	75.000	-6	100.00	-9
Benzene			0.5000	5	2.0000	17	5.0000	-5	10.000	6	20.000	4	50.000	-2	75.000	-9	100.00	-16
Trichloroethene			0.5000	-3	2.0000	13	5.0000	-10	10.000	3	20.000	4	50.000	1	75.000	-2	100.00	-6
1,2-Dichloropropane			0.5000	6	2.0000	14	5.0000	-7	10.000	4	20.000	5	50.000	-1	75.000	-8	100.00	-13
Bromodichloromethane			0.5000	-8	2.0000	8	5.0000	-8	10.000	4	20.000	5	50.000	3	75.000	-1	100.00	-4
Dibromomethane			0.5000	-10	2.0000	7	5.0000	-4	10.000	3	20.000	3	50.000	4	75.000	0	100.00	-3
4-Methyl-2-Pentanone							5.0000	2	10.000	-1	20.000	0	50.000	-1	75.000	-4	100.00	4
cis-1,3-Dichloropropene			0.5000	-7	2.0000	9	5.0000	-6	10.000	6	20.000	4	50.000	3	75.000	-3	100.00	-5
Toluene			0.5000	5	2.0000	16	5.0000	-5	10.000	4	20.000	4	50.000	-2	75.000	-9	100.00	-13
trans-1,3-Dichloropropene			0.5000	-9	2.0000	7	5.0000	-6	10.000	2	20.000	6	50.000	5	75.000	-1	100.00	-3
1,1,2-Trichloroethane			0.5000	-14	2.0000	5	5.0000	-2	10.000	4	20.000	3	50.000	5	75.000	0	100.00	-1
2-Hexanone							5.0000	4	10.000	0	20.000	1	50.000	1	75.000	-7	100.00	1
1,3-Dichloropropane			0.5000	-2	2.0000	11	5.0000	-4	10.000	3	20.000	4	50.000	1	75.000	-7	100.00	-6
Tetrachloroethene			0.5000	4	2.0000	13	5.0000	-7	10.000	-3	20.000	1	50.000	0	75.000	-2	100.00	-5
Dibromochloromethane			0.5000	-17	2.0000	2	5.0000	-10	10.000	2	20.000	5	50.000	7	75.000	6	100.00	6
1,2-Dibromoethane			0.5000	-6	2.0000	5	5.0000	-7	10.000	2	20.000	4	50.000	3	75.000	0	100.00	1
Chlorobenzene			0.5000	2	2.0000	16	5.0000	-4	10.000	7	20.000	4	50.000	-2	75.000	-9	100.00	-14
1,1,1,2-Tetrachloroethane			0.5000	-2	2.0000	6	5.0000	-7	10.000	1	20.000	5	50.000	3	75.000	-2	100.00	-5
Ethylbenzene			0.5000	10	2.0000	19	5.0000	-1	10.000	5	20.000	5	50.000	-4	75.000	-14	100.00	-20

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
m,p-Xylenes	0.5000	-14	1.0000	9	4.0000	**25**	10.000	1	20.000	9	40.000	8	100.00	-3	150.00	-13	200.00	**-21**
o-Xylene			0.5000	7	2.0000	15	5.0000	-6	10.000	4	20.000	2	50.000	-1	75.000	-8	100.00	-15
Styrene			0.5000	-7	2.0000	13	5.0000	-1	10.000	9	20.000	7	50.000	1	75.000	-8	100.00	-14
Bromoform			0.5000	**-27**	2.0000	-4	5.0000	-11	10.000	-3	20.000	4	50.000	10	75.000	13	100.00	19
Isopropylbenzene			0.5000	7	2.0000	17	5.0000	0	10.000	7	20.000	9	50.000	-4	75.000	-14	100.00	-20
1,1,2,2-Tetrachloroethane			0.5000	-7	2.0000	5	5.0000	1	10.000	7	20.000	6	50.000	0	75.000	-6	100.00	-6
1,2,3-Trichloropropane			0.5000	**-32**	2.0000	9	5.0000	2	10.000	6	20.000	5	50.000	6	75.000	-1	100.00	5
Propylbenzene			0.5000	13	2.0000	15	5.0000	-3	10.000	4	20.000	3	50.000	-11	75.000	**-22**		
Bromobenzene			0.5000	2	2.0000	14	5.0000	-5	10.000	8	20.000	6	50.000	-2	75.000	-9	100.00	-14
1,3,5-Trimethylbenzene			0.5000	13	2.0000	16	5.0000	0	10.000	8	20.000	8	50.000	-4	75.000	-16	100.00	**-24**
2-Chlorotoluene			0.5000	12	2.0000	17	5.0000	-2	10.000	9	20.000	8	50.000	-4	75.000	-16	100.00	**-24**
4-Chlorotoluene			0.5000	7	2.0000	17	5.0000	-3	10.000	9	20.000	9	50.000	-5	75.000	-14	100.00	-20
tert-Butylbenzene			0.5000	4	2.0000	17	5.0000	-3	10.000	6	20.000	8	50.000	-2	75.000	-11	100.00	-19
1,2,4-Trimethylbenzene			0.5000	10	2.0000	14	5.0000	-2	10.000	7	20.000	9	50.000	-3	75.000	-13	100.00	**-21**
sec-Butylbenzene			0.5000	10	2.0000	18	5.0000	-2	10.000	5	20.000	6	50.000	-3	75.000	-13	100.00	**-23**
para-Isopropyl Toluene			0.5000	12	2.0000	15	5.0000	-2	10.000	7	20.000	7	50.000	-3	75.000	-14	100.00	**-22**
1,3-Dichlorobenzene			0.5000	13	2.0000	14	5.0000	-5	10.000	6	20.000	4	50.000	-4	75.000	-10	100.00	-18
1,4-Dichlorobenzene			0.5000	12	2.0000	14	5.0000	-6	10.000	7	20.000	5	50.000	-3	75.000	-11	100.00	-17
n-Butylbenzene			0.5000	16	2.0000	15	5.0000	0	10.000	5	20.000	6	50.000	-6	75.000	-15	100.00	**-22**
1,2-Dichlorobenzene			0.5000	5	2.0000	12	5.0000	-4	10.000	8	20.000	4	50.000	-3	75.000	-9	100.00	-14
1,2-Dibromo-3-Chloropropane			0.5000	-19	2.0000	2	5.0000	-1	10.000	-5	20.000	3	50.000	7	75.000	4	100.00	10
1,2,4-Trichlorobenzene			0.5000	4	2.0000	12	5.0000	-8	10.000	2	20.000	3	50.000	-1	75.000	-4	100.00	-8
Hexachlorobutadiene			0.5000	9	2.0000	4	5.0000	-13	10.000	-4	20.000	-1	50.000	1	75.000	4	100.00	0
Naphthalene			0.5000	-7	2.0000	0	5.0000	-4	10.000	6	20.000	7	50.000	3	75.000	-2	100.00	-3
1,2,3-Trichlorobenzene			0.5000	0	2.0000	5	5.0000	-8	10.000	4	20.000	3	50.000	0	75.000	-2	100.00	-3
Dibromofluoromethane	50.000	1	50.000	0	50.000	2	50.000	2	50.000	1	50.000	1	50.000	-1	50.000	-4	50.000	-4
1,2-Dichloroethane-d4	50.000	8	50.000	4	50.000	6	50.000	6	50.000	0	50.000	1	50.000	-5	50.000	-9	50.000	-10
Toluene-d8	50.000	0	50.000	0	50.000	1	50.000	-1	50.000	0	50.000	1	50.000	-1	50.000	-1	50.000	0
Bromofluorobenzene	50.000	2	50.000	2	50.000	-1	50.000	1	50.000	3	50.000	4	50.000	-3	50.000	-4	50.000	-5

MJB 03/22/13 [Chloromethane]: Combined split peak in (hck11).

MJB 03/22/13 [Bromomethane]: Corrected baseline noise or negative peak in (hck11).

MJB 03/22/13 [Ethanol]: Corrected baseline noise or negative peak in (hck11).

MJB 03/22/13 [Acetone]: Corrected baseline noise or negative peak in multiple levels.

MJB 03/22/13 [Isopropanol]: Corrected baseline noise or negative peak in (hck11).

MJB 03/22/13 [2-Butanone]: Corrected baseline noise or negative peak in multiple levels.

MJB 03/22/13 [Bromomethane]: Combined split peak in (hck12).

Analyst: MJB Date: 03/22/13 Reviewer: LW Date: 03/22/13

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 247738 MSVOA Water
EPA 8260B

Inst : MSVOA08 Name : 826GOX8
Calnum : 473114230005 Cal Date : 20-MAR-2013 Type : WATER

ICV 473114230019 (hck19 20-MAR-2013) stds: S21932 (10000X), S21822 (5000X)
ICV 473114230020 (hck20 20-MAR-2013) stds: S21957 (10000X), S21915 (10000X), S21822 (5000X), S21791 (10000X)

Analyte	ICV Seqnum	Spiked	Quant	Units	%D	Max	Flags
Freon 12	473114230019	20.00	20.94	ug/L	5	30	
Chloromethane	473114230019	20.00	16.09	ug/L	-20	30	
Vinyl Chloride	473114230019	20.00	18.99	ug/L	-5	20	
Bromomethane	473114230019	20.00	15.85	ug/L	**-21**	30	!v-
Chloroethane	473114230019	20.00	18.63	ug/L	-7	30	
Trichlorofluoromethane	473114230019	20.00	19.27	ug/L	-4	30	
Acetone	473114230020	25.00	31.58	ug/L	**26**	40	!v+
Freon 113	473114230020	25.00	25.53	ug/L	2	30	
1,1-Dichloroethene	473114230020	25.00	25.32	ug/L	1	20	
Methylene Chloride	473114230020	25.00	25.90	ug/L	4	30	
Carbon Disulfide	473114230020	25.00	27.55	ug/L	10	30	
MTBE	473114230020	25.00	26.89	ug/L	8	30	
trans-1,2-Dichloroethene	473114230020	25.00	27.09	ug/L	8	30	
Vinyl Acetate	473114230020	25.00	26.16	ug/L	5	40	
1,1-Dichloroethane	473114230020	25.00	25.25	ug/L	1	30	
2-Butanone	473114230020	25.00	29.66	ug/L	19	40	
2,2-Dichloropropane	473114230020	25.00	24.28	ug/L	-3	30	
cis-1,2-Dichloroethene	473114230020	25.00	26.01	ug/L	4	30	
Chloroform	473114230020	25.00	25.54	ug/L	2	20	
Bromochloromethane	473114230020	25.00	26.54	ug/L	6	30	
1,1,1-Trichloroethane	473114230020	25.00	26.12	ug/L	4	30	
1,1-Dichloropropene	473114230020	25.00	28.04	ug/L	12	30	
Carbon Tetrachloride	473114230020	25.00	27.95	ug/L	12	30	
1,2-Dichloroethane	473114230020	25.00	26.21	ug/L	5	30	
Benzene	473114230020	25.00	26.46	ug/L	6	30	
Trichloroethene	473114230020	25.00	26.78	ug/L	7	30	
1,2-Dichloropropane	473114230020	25.00	25.48	ug/L	2	20	
Bromodichloromethane	473114230020	25.00	26.87	ug/L	7	30	
Dibromomethane	473114230020	25.00	27.43	ug/L	10	30	
4-Methyl-2-Pentanone	473114230020	25.00	28.73	ug/L	15	40	
cis-1,3-Dichloropropene	473114230020	25.00	30.27	ug/L	**21**	30	!v+
Toluene	473114230020	25.00	26.65	ug/L	7	20	
trans-1,3-Dichloropropene	473114230020	25.00	26.97	ug/L	8	30	
1,1,2-Trichloroethane	473114230020	25.00	27.91	ug/L	12	30	
2-Hexanone	473114230020	25.00	30.20	ug/L	**21**	40	!v+
1,3-Dichloropropane	473114230020	25.00	27.41	ug/L	10	30	
Tetrachloroethene	473114230020	25.00	26.89	ug/L	8	30	
Dibromochloromethane	473114230020	25.00	27.46	ug/L	10	30	
1,2-Dibromoethane	473114230020	25.00	27.94	ug/L	12	30	
Chlorobenzene	473114230020	25.00	25.05	ug/L	0	30	
1,1,1,2-Tetrachloroethane	473114230020	25.00	27.29	ug/L	9	30	
Ethylbenzene	473114230020	25.00	26.56	ug/L	6	20	
m,p-Xylenes	473114230020	50.00	53.02	ug/L	6	30	
o-Xylene	473114230020	25.00	25.22	ug/L	1	30	
Styrene	473114230020	25.00	27.81	ug/L	11	30	
Bromoform	473114230020	25.00	31.12	ug/L	**24**	30	!v+
Isopropylbenzene	473114230020	25.00	24.64	ug/L	-1	30	

Analyte	ICV Seqnum	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	473114230020	25.00	27.84	ug/L	11	30	
1,2,3-Trichloropropane	473114230020	25.00	28.43	ug/L	14	30	
Propylbenzene	473114230020	25.00	22.95	ug/L	-8	30	
Bromobenzene	473114230020	25.00	27.26	ug/L	9	30	
1,3,5-Trimethylbenzene	473114230020	25.00	27.44	ug/L	10	30	
2-Chlorotoluene	473114230020	25.00	24.82	ug/L	-1	30	
4-Chlorotoluene	473114230020	25.00	24.13	ug/L	-3	30	
tert-Butylbenzene	473114230020	25.00	25.16	ug/L	1	30	
1,2,4-Trimethylbenzene	473114230020	25.00	26.96	ug/L	8	30	
sec-Butylbenzene	473114230020	25.00	24.46	ug/L	-2	30	
para-Isopropyl Toluene	473114230020	25.00	24.62	ug/L	-2	30	
1,3-Dichlorobenzene	473114230020	25.00	24.26	ug/L	-3	30	
1,4-Dichlorobenzene	473114230020	25.00	26.09	ug/L	4	30	
n-Butylbenzene	473114230020	25.00	25.55	ug/L	2	30	
1,2-Dichlorobenzene	473114230020	25.00	25.00	ug/L	0	30	
1,2-Dibromo-3-Chloropropane	473114230020	25.00	28.82	ug/L	15	30	
1,2,4-Trichlorobenzene	473114230020	25.00	27.27	ug/L	9	30	
Hexachlorobutadiene	473114230020	25.00	27.53	ug/L	10	30	
Naphthalene	473114230020	25.00	30.04	ug/L	20	30	
1,2,3-Trichlorobenzene	473114230020	25.00	29.17	ug/L	17	30	

473114230019: Analyst: MJB Date: 03/22/13 Reviewer: LW Date: 03/22/13
473114230020: Analyst: MJB Date: 03/22/13 Reviewer: LW Date: 03/22/13

!=warning +=high bias -=low bias v=ICV

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 247738 MSVOA Water: EPA 8260B

Inst : MSVOA09 Name : 826GOX9W
Calnum : 483147320002 Date : 12-APR-2013 16:14 Type : WATER
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	idc14	483147320014		12-APR-2013 16:14	S21889 (2000000X), S21761 (1000000X), S21635 (2000000X), S21908 (2000000X), S22165 (5000X)
L2	idc15	483147320015		12-APR-2013 16:49	S21889 (1000000X), S21761 (500000X), S21635 (1000000X), S21908 (1000000X), S22165 (5000X)
L3	idc16	483147320016		12-APR-2013 17:23	S21889 (250000X), S21761 (250000X), S21635 (500000X), S21908 (250000X), S22165 (5000X)
L4	idc17	483147320017		12-APR-2013 17:58	S21889 (100000X), S21761 (100000X), S21635 (200000X), S21908 (100000X), S22165 (5000X)
L5	idc18	483147320018		12-APR-2013 18:32	S21889 (50000X), S21761 (50000X), S21635 (100000X), S21908 (50000X), S22165 (5000X)
L6	idc19	483147320019		12-APR-2013 19:06	S21889 (25000X), S21761 (25000X), S21635 (50000X), S21908 (25000X), S22165 (5000X)
L7	idc20	483147320020		12-APR-2013 19:41	S21889 (10000X), S21761 (10000X), S21635 (20000X), S21908 (10000X), S22165 (5000X)
L8	idc21	483147320021		12-APR-2013 20:15	S21889 (6667X), S21761 (6667X), S21635 (13330X), S21908 (6667X), S22165 (5000X)
L9	idc22	483147320022		12-APR-2013 20:50	S21889 (5000X), S21761 (5000X), S21635 (10000X), S21908 (5000X), S22165 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.3692	0.3732	0.3606	0.3706	0.3868	0.3679	0.3632	0.3332	AVRG		2.73525		0.3656	4	15	0.05	0.99	
Chloromethane	0.6814	0.6494	0.6139	0.5558	0.5799	0.6241	0.5400	0.5369	0.5279	AVRG		1.69513		0.5899	9	15	0.10	0.99	
Vinyl Chloride	0.3855	0.4200	0.3887	0.3695	0.3820	0.4169	0.3727	0.3276	0.3327	AVRG		2.65044		0.3773	8	15	0.05	0.99	
Bromomethane		0.1642m	0.1655	0.1593	0.1706	0.2125	0.2143	0.1889	0.2101	AVRG		5.38545		0.1857	13	15	0.05	0.99	
Chloroethane		0.2946m	0.2784	0.2570	0.2538	0.2779	0.2452	0.2137	0.2217	AVRG		3.91703		0.2553	11	15	0.05	0.99	
Trichlorofluoromethane		0.4651	0.4719	0.4475	0.4536	0.4826	0.4441	0.4438	0.4259	AVRG		2.20107		0.4543	4	15	0.05	0.99	
Acetone				0.1071	0.0915	0.0924	0.0940	0.1071	0.0945	AVRG		10.2278		0.0978	7	15	0.05	0.99	
Freon 113		0.1862	0.2660	0.2461	0.2318	0.2487	0.2484	0.2599	0.2472	AVRG		4.13554		0.2418	10	15	0.05	0.99	
1,1-Dichloroethene		0.2949	0.2791	0.2696	0.2662	0.2847	0.2651	0.2735	0.2650	AVRG		3.63951		0.2748	4	15	0.05	0.99	
Methylene Chloride		0.3676	0.3880	0.3662	0.3658	0.3832	0.3550	0.3524	0.3485	AVRG		2.73350		0.3658	4	15	0.05	0.99	
Carbon Disulfide		1.2370	1.1221	1.0731	1.0719	1.1645	1.0900	1.0947	1.0484	AVRG		0.89873		1.1127	6	15	0.05	0.99	
MTBE		0.7382	0.7768	0.7291	0.7090	0.7868	0.7247	0.7648	0.7399	AVRG		1.34016		0.7462	4	15	0.05	0.99	
trans-1,2-Dichloroethene		0.3484	0.3170	0.3139	0.3128	0.3296	0.3141	0.3250	0.3082	AVRG		3.11415		0.3211	4	15	0.05	0.99	
Vinyl Acetate			0.7604	0.7079	0.6267	0.7619	0.5474	0.6832		AVRG		1.46788		0.6813	12	15	0.05	0.99	
1,1-Dichloroethane		0.7302	0.6930	0.6590	0.6930	0.7100	0.6572	0.6603	0.6285	AVRG		1.47296		0.6789	5	15	0.10	0.99	
2-Butanone			0.1416	0.1494	0.1398	0.1454	0.1410	0.1488	0.1396	AVRG		6.95990		0.1437	3	15	0.05	0.99	
2,2-Dichloropropane		0.4445	0.4409	0.4140	0.3989	0.4229	0.4003	0.3974	0.3821	AVRG		2.42352		0.4126	5	15	0.05	0.99	
cis-1,2-Dichloroethene		0.3834	0.3921	0.3581	0.3614	0.3787	0.3595	0.3621	0.3545	AVRG		2.71194		0.3687	4	15	0.05	0.99	
Chloroform		0.6132	0.6115	0.5692	0.6017	0.6153	0.5736	0.5814	0.5517	AVRG		1.69581		0.5897	4	15	0.05	0.99	
Bromochloromethane		0.1568	0.1681	0.1655	0.1683	0.1786	0.1632	0.1554	0.1479	AVRG		6.13561		0.1630	6	15	0.05	0.99	
1,1,1-Trichloroethane		0.4418	0.4519	0.4104	0.4142	0.4274	0.4084	0.4136	0.4007	AVRG		2.37493		0.4211	4	15	0.05	0.99	
1,1-Dichloropropene		0.2812	0.2815	0.2655	0.2712	0.2804	0.2716	0.2777	0.2639	AVRG		3.64805		0.2741	3	15	0.05	0.99	
Carbon Tetrachloride		0.2464	0.2455	0.2319	0.2346	0.2470	0.2412	0.2501	0.2449	AVRG		4.12026		0.2427	3	15	0.05	0.99	
1,2-Dichloroethane		0.2796	0.2983	0.2627	0.2789	0.2870	0.2671	0.2774	0.2629	AVRG		3.61359		0.2767	4	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		0.9100	0.8825	0.8033	0.8276	0.8507	0.7875	0.7923	0.7472	AVRG		1.21192		0.8251	7	15	0.05	0.99	
Trichloroethene		0.2300	0.2297	0.2097	0.2309	0.2310	0.2258	0.2279	0.2152	AVRG		4.44407		0.2250	4	15	0.05	0.99	
1,2-Dichloropropane		0.2917	0.2909	0.2705	0.2831	0.2920	0.2676	0.2703	0.2583	AVRG		3.59643		0.2781	5	15	0.05	0.99	
Bromodichloromethane		0.3031	0.2955	0.2794	0.2950	0.3098	0.2911	0.2973	0.2913	AVRG		3.38608		0.2953	3	15	0.05	0.99	
Dibromomethane		0.1374	0.1465	0.1384	0.1424	0.1509	0.1394	0.1494	0.1422	AVRG		6.97736		0.1433	4	15	0.05	0.99	
4-Methyl-2-Pentanone			0.2232	0.2192	0.2149m	0.2350m	0.2234	0.2376	0.2249	AVRG		4.43549		0.2255	4	15	0.05	0.99	
cis-1,3-Dichloropropene		0.3400	0.3513	0.3238	0.3447	0.3593	0.3325	0.3378	0.3195	AVRG		2.95316		0.3386	4	15	0.05	0.99	
Toluene		0.6792	0.6726	0.6366	0.6561	0.6677	0.6352	0.6227	0.6113	AVRG		1.54400		0.6477	4	15	0.05	0.99	
trans-1,3-Dichloropropene		0.3464	0.4017	0.3801	0.4071	0.4232	0.4010	0.4025	0.3975	AVRG		2.53191		0.3950	6	15	0.05	0.99	
1,1,2-Trichloroethane		0.1229	0.1381	0.1341	0.1389	0.1422	0.1348	0.1400	0.1378	AVRG		7.34592		0.1361	4	15	0.05	0.99	
2-Hexanone			0.1924	0.1975	0.2028	0.2200	0.2092	0.2265	0.2115	AVRG		4.79482		0.2086	6	15	0.05	0.99	
1,3-Dichloropropane		0.3884	0.4097	0.3988	0.4222	0.4251	0.3914	0.4109	0.3893	AVRG		2.47233		0.4045	4	15	0.05	0.99	
Tetrachloroethene		0.2574	0.2560	0.2447	0.2511	0.2625	0.2628	0.2708	0.2614	AVRG		3.87089		0.2583	3	15	0.05	0.99	
Dibromochloromethane		0.2610	0.2700	0.2703	0.2853	0.3091	0.2899	0.3118	0.3106	AVRG		3.46628		0.2885	7	15	0.05	0.99	
1,2-Dibromoethane		0.2079	0.2364	0.2394	0.2484	0.2530	0.2465	0.2620	0.2573	AVRG		4.10054		0.2439	7	15	0.05	0.99	
Chlorobenzene		0.7289	0.7712	0.7297	0.7391	0.7635	0.7239	0.7273	0.7034	AVRG		1.35891		0.7359	3	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.2231	0.2637	0.2454	0.2570	0.2688	0.2617	0.2657	0.2597	AVRG		3.91189		0.2556	6	15	0.05	0.99	
Ethylbenzene		1.2175	1.2503	1.1906	1.2136	1.2116	1.1765	1.1562	1.0743	AVRG		0.84294		1.1863	5	15	0.05	0.99	
m,p-Xylenes	0.4397	0.4266	0.4622	0.4365	0.4306	0.4536	0.4176	0.3979	0.3629	AVRG		2.35134		0.4253	7	15	0.05	0.99	
o-Xylene		0.4122	0.4605	0.4425	0.4496	0.4622	0.4451	0.4305	0.4076	AVRG		2.27906		0.4388	5	15	0.05	0.99	
Styrene		0.7444	0.7868	0.7843	0.7853	0.8160	0.7601	0.7597	0.7121	AVRG		1.30111		0.7686	4	15	0.05	0.99	
Bromoform		0.1254	0.1609	0.1577	0.1699	0.1795	0.1824	0.1944	0.1990	AVRG		5.84287		0.1711	14	15	0.10	0.99	
Isopropylbenzene		2.0626	2.3314	2.2267	2.2073	2.3066	2.2321	2.1759	2.1825	AVRG		0.45134		2.2156	4	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		0.5668	0.6096	0.5952	0.5871	0.6072	0.5649	0.6160	0.6253	AVRG		1.67647		0.5965	4	15	0.30	0.99	
1,2,3-Trichloropropane		0.1298	0.1378	0.1363	0.1286	0.1347	0.1353	0.1410	0.1433	AVRG		7.36167		0.1358	4	15	0.05	0.99	
Propylbenzene		2.5101	2.8849	2.6427	2.7005	2.7710	2.5869	2.3749		AVRG		0.37897		2.6387	6	15	0.05	0.99	
Bromobenzene		0.5958	0.6236	0.6174	0.6286	0.6452	0.6307	0.6037	0.6178	AVRG		1.61200		0.6203	3	15	0.05	0.99	
1,3,5-Trimethylbenzene		1.6398	1.8158	1.7589	1.7652	1.7714	1.7299	1.6302	1.5309	AVRG		0.58641		1.7053	6	15	0.05	0.99	
2-Chlorotoluene		1.7281	1.9560	1.8482	1.8189	1.8071	1.7558	1.6264	1.5357	AVRG		0.56834		1.7595	7	15	0.05	0.99	
4-Chlorotoluene		1.7203	1.7799	1.6623	1.7176	1.7249	1.6827	1.6775	1.6015	AVRG		0.58968		1.6958	3	15	0.05	0.99	
tert-Butylbenzene		1.4048	1.5248	1.4780	1.4473	1.5315	1.4890	1.4975	1.4968	AVRG		0.67399		1.4837	3	15	0.05	0.99	
1,2,4-Trimethylbenzene		1.6261	1.7673	1.7129	1.7829	1.8226	1.7851	1.7928	1.7125	AVRG		0.57134		1.7503	4	15	0.05	0.99	
sec-Butylbenzene		2.1100	2.4328	2.2905	2.1916	2.2983	2.2303	2.2937		AVRG		0.44172		2.2639	4	15	0.05	0.99	
para-Isopropyl Toluene		1.5140	1.7367	1.7129	1.6452	1.7775	1.7429	1.7507	1.7158	AVRG		0.58842		1.6995	5	15	0.05	0.99	
1,3-Dichlorobenzene		0.9508	1.0994	1.0608	1.0408	1.1101	1.0904	1.0959	1.0953	AVRG		0.93638		1.0679	5	15	0.05	0.99	
1,4-Dichlorobenzene		1.0187	1.0892	1.0456	1.0709	1.0859	1.0743	1.0917	1.0938	AVRG		0.93347		1.0713	2	15	0.05	0.99	
n-Butylbenzene		1.4041	1.6256	1.5558	1.5201	1.6421	1.6404	1.6350		AVRG		0.63503		1.5747	6	15	0.05	0.99	
1,2-Dichlorobenzene		0.8927	1.0783	1.0048	1.0073	1.0683	1.0544	1.0697	1.0611	AVRG		0.97127		1.0296	6	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane			0.0861	0.0848	0.0808	0.0848	0.0884	0.0964	0.0972	AVRG		11.3174		0.0884	7	15	0.05	0.99	
1,2,4-Trichlorobenzene		0.3961	0.5282	0.5378	0.5272	0.5870	0.5983	0.6450	0.6647	AVRG		1.78401		0.5605	15	15	0.05	0.99	
Hexachlorobutadiene		0.2137	0.2911	0.2712	0.2685	0.2893	0.2964	0.3116		AVRG		3.60489		0.2774	11	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene			0.8498	0.8552	0.9112	0.9966	1.0653	1.1598	1.1741	AVRG		0.99830		1.0017	14	15	0.05	0.99	
1,2,3-Trichlorobenzene		0.4020	0.5106	0.4748	0.4879	0.5412	0.5576	0.6098	0.6163	AVRG		1.90463		0.5250	14	15	0.05	0.99	
Dibromofluoromethane	0.5487	0.5528	0.5408	0.5409	0.5356	0.5407	0.5283	0.5246	0.5090	AVRG		1.86669		0.5357	2	15	0.05	0.99	
1,2-Dichloroethane-d4	0.3101	0.3096	0.3146	0.3177	0.3128	0.3105	0.2957	0.2978	0.2777	AVRG		3.27684		0.3052	4	15	0.05	0.99	
Toluene-d8	1.2928	1.3445	1.3757	1.3977	1.4204	1.4087	1.4242	1.4355	1.3842	AVRG		0.72094		1.3871	3	15	0.05	0.99	
Bromofluorobenzene	1.0104	1.0400	1.0558	1.0411	1.0470	1.0375	1.0504	0.9933	1.0202	AVRG		0.96818		1.0329	2	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Freon 12			1.0000	1	2.0000	2	5.0000	-1	10.000	1	20.000	6	50.000	1	75.000	-1	100.00	-9
Chloromethane	0.5000	16	1.0000	10	2.0000	4	5.0000	-6	10.000	-2	20.000	6	50.000	-8	75.000	-9	100.00	-11
Vinyl Chloride	0.5000	2	1.0000	11	2.0000	3	5.0000	-2	10.000	1	20.000	10	50.000	-1	75.000	-13	100.00	-12
Bromomethane			1.0000	-12	2.0000	-11	5.0000	-14	10.000	-8	20.000	14	50.000	15	75.000	2	100.00	13
Chloroethane			1.0000	15	2.0000	9	5.0000	1	10.000	-1	20.000	9	50.000	-4	75.000	-16	100.00	-13
Trichlorofluoromethane			1.0000	2	2.0000	4	5.0000	-2	10.000	0	20.000	6	50.000	-2	75.000	-2	100.00	-6
Acetone							5.0000	10	10.000	-6	20.000	-6	50.000	-4	75.000	10	100.00	-3
Freon 113			0.5000	**-23**	2.0000	10	5.0000	2	10.000	-4	20.000	3	50.000	3	75.000	8	100.00	2
1,1-Dichloroethene			0.5000	7	2.0000	2	5.0000	-2	10.000	-3	20.000	4	50.000	-4	75.000	0	100.00	-4
Methylene Chloride			0.5000	0	2.0000	6	5.0000	0	10.000	0	20.000	5	50.000	-3	75.000	-4	100.00	-5
Carbon Disulfide			0.5000	11	2.0000	1	5.0000	-4	10.000	-4	20.000	5	50.000	-2	75.000	-2	100.00	-6
MTBE			0.5000	-1	2.0000	4	5.0000	-2	10.000	-5	20.000	5	50.000	-3	75.000	3	100.00	-1
trans-1,2-Dichloroethene			0.5000	8	2.0000	-1	5.0000	-2	10.000	-3	20.000	3	50.000	-2	75.000	1	100.00	-4
Vinyl Acetate					2.0000	12	5.0000	4	10.000	-8	20.000	12	50.000	-20	75.000	0		
1,1-Dichloroethane			0.5000	8	2.0000	2	5.0000	-3	10.000	2	20.000	5	50.000	-3	75.000	-3	100.00	-7
2-Butanone					2.0000	-1	5.0000	4	10.000	-3	20.000	1	50.000	-2	75.000	4	100.00	-3
2,2-Dichloropropane			0.5000	8	2.0000	7	5.0000	0	10.000	-3	20.000	2	50.000	-3	75.000	-4	100.00	-7
cis-1,2-Dichloroethene			0.5000	4	2.0000	6	5.0000	-3	10.000	-2	20.000	3	50.000	-2	75.000	-2	100.00	-4
Chloroform			0.5000	4	2.0000	4	5.0000	-3	10.000	2	20.000	4	50.000	-3	75.000	-1	100.00	-6
Bromochloromethane			0.5000	-4	2.0000	3	5.0000	2	10.000	3	20.000	10	50.000	0	75.000	-5	100.00	-9
1,1,1-Trichloroethane			0.5000	5	2.0000	7	5.0000	-3	10.000	-2	20.000	2	50.000	-3	75.000	-2	100.00	-5
1,1-Dichloropropene			0.5000	3	2.0000	3	5.0000	-3	10.000	-1	20.000	2	50.000	-1	75.000	1	100.00	-4
Carbon Tetrachloride			0.5000	2	2.0000	1	5.0000	-4	10.000	-3	20.000	2	50.000	-1	75.000	3	100.00	1
1,2-Dichloroethane			0.5000	1	2.0000	8	5.0000	-5	10.000	1	20.000	4	50.000	-3	75.000	0	100.00	-5
Benzene			0.5000	10	2.0000	7	5.0000	-3	10.000	0	20.000	3	50.000	-5	75.000	-4	100.00	-9
Trichloroethene			0.5000	2	2.0000	2	5.0000	-7	10.000	3	20.000	3	50.000	0	75.000	1	100.00	-4
1,2-Dichloropropane			0.5000	5	2.0000	5	5.0000	-3	10.000	2	20.000	5	50.000	-4	75.000	-3	100.00	-7
Bromodichloromethane			0.5000	3	2.0000	0	5.0000	-5	10.000	0	20.000	5	50.000	-1	75.000	1	100.00	-1
Dibromomethane			0.5000	-4	2.0000	2	5.0000	-3	10.000	-1	20.000	5	50.000	-3	75.000	4	100.00	-1
4-Methyl-2-Pentanone					2.0000	-1	5.0000	-3	10.000	-5	20.000	4	50.000	-1	75.000	5	100.00	0
cis-1,3-Dichloropropene			0.5000	0	2.0000	4	5.0000	-4	10.000	2	20.000	6	50.000	-2	75.000	0	100.00	-6
Toluene			0.5000	5	2.0000	4	5.0000	-2	10.000	1	20.000	3	50.000	-2	75.000	-4	100.00	-6
trans-1,3-Dichloropropene			0.5000	-12	2.0000	2	5.0000	-4	10.000	3	20.000	7	50.000	2	75.000	2	100.00	1
1,1,2-Trichloroethane			0.5000	-10	2.0000	1	5.0000	-1	10.000	2	20.000	4	50.000	-1	75.000	3	100.00	1
2-Hexanone					2.0000	-8	5.0000	-5	10.000	-3	20.000	5	50.000	0	75.000	9	100.00	1
1,3-Dichloropropane			0.5000	-4	2.0000	1	5.0000	-1	10.000	4	20.000	5	50.000	-3	75.000	2	100.00	-4
Tetrachloroethene			0.5000	0	2.0000	-1	5.0000	-5	10.000	-3	20.000	2	50.000	2	75.000	5	100.00	1
Dibromochloromethane			0.5000	-10	2.0000	-6	5.0000	-6	10.000	-1	20.000	7	50.000	0	75.000	8	100.00	8
1,2-Dibromoethane			0.5000	-15	2.0000	-3	5.0000	-2	10.000	2	20.000	4	50.000	1	75.000	7	100.00	6
Chlorobenzene			0.5000	-1	2.0000	5	5.0000	-1	10.000	0	20.000	4	50.000	-2	75.000	-1	100.00	-4
1,1,1,2-Tetrachloroethane			0.5000	-13	2.0000	3	5.0000	-4	10.000	1	20.000	5	50.000	2	75.000	4	100.00	2
Ethylbenzene			0.5000	3	2.0000	5	5.0000	0	10.000	2	20.000	2	50.000	-1	75.000	-3	100.00	-9

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
m,p-Xylenes	0.5000	3	1.0000	0	4.0000	9	10.000	3	20.000	1	40.000	7	100.00	-2	150.00	-6	200.00	-15
o-Xylene			0.5000	-6	2.0000	5	5.0000	1	10.000	2	20.000	5	50.000	1	75.000	-2	100.00	-7
Styrene			0.5000	-3	2.0000	2	5.0000	2	10.000	2	20.000	6	50.000	-1	75.000	-1	100.00	-7
Bromoform			0.5000	**-27**	2.0000	-6	5.0000	-8	10.000	-1	20.000	5	50.000	7	75.000	14	100.00	16
Isopropylbenzene			0.5000	-7	2.0000	5	5.0000	0	10.000	0	20.000	4	50.000	1	75.000	-2	100.00	-1
1,1,2,2-Tetrachloroethane			0.5000	-5	2.0000	2	5.0000	0	10.000	-2	20.000	2	50.000	-5	75.000	3	100.00	5
1,2,3-Trichloropropane			0.5000	-4	2.0000	1	5.0000	0	10.000	-5	20.000	-1	50.000	0	75.000	4	100.00	5
Propylbenzene			0.5000	-5	2.0000	9	5.0000	0	10.000	2	20.000	5	50.000	-2	75.000	-10		
Bromobenzene			0.5000	-4	2.0000	1	5.0000	0	10.000	1	20.000	4	50.000	2	75.000	-3	100.00	0
1,3,5-Trimethylbenzene			0.5000	-4	2.0000	6	5.0000	3	10.000	4	20.000	4	50.000	1	75.000	-4	100.00	-10
2-Chlorotoluene			0.5000	-2	2.0000	11	5.0000	5	10.000	3	20.000	3	50.000	0	75.000	-8	100.00	-13
4-Chlorotoluene			0.5000	1	2.0000	5	5.0000	-2	10.000	1	20.000	2	50.000	-1	75.000	-1	100.00	-6
tert-Butylbenzene			0.5000	-5	2.0000	3	5.0000	0	10.000	-2	20.000	3	50.000	0	75.000	1	100.00	1
1,2,4-Trimethylbenzene			0.5000	-7	2.0000	1	5.0000	-2	10.000	2	20.000	4	50.000	2	75.000	2	100.00	-2
sec-Butylbenzene			0.5000	-7	2.0000	7	5.0000	1	10.000	-3	20.000	2	50.000	-1	75.000	1		
para-Isopropyl Toluene			0.5000	-11	2.0000	2	5.0000	1	10.000	-3	20.000	5	50.000	3	75.000	3	100.00	1
1,3-Dichlorobenzene			0.5000	-11	2.0000	3	5.0000	-1	10.000	-3	20.000	4	50.000	2	75.000	3	100.00	3
1,4-Dichlorobenzene			0.5000	-5	2.0000	2	5.0000	-2	10.000	0	20.000	1	50.000	0	75.000	2	100.00	2
n-Butylbenzene			0.5000	-11	2.0000	3	5.0000	-1	10.000	-3	20.000	4	50.000	4	75.000	4		
1,2-Dichlorobenzene			0.5000	-13	2.0000	5	5.0000	-2	10.000	-2	20.000	4	50.000	2	75.000	4	100.00	3
1,2-Dibromo-3-Chloropropane					2.0000	-3	5.0000	-4	10.000	-9	20.000	-4	50.000	0	75.000	9	100.00	10
1,2,4-Trichlorobenzene			0.5000	**-29**	2.0000	-6	5.0000	-4	10.000	-6	20.000	5	50.000	7	75.000	15	100.00	19
Hexachlorobutadiene			0.5000	**-23**	2.0000	5	5.0000	-2	10.000	-3	20.000	4	50.000	7	75.000	12		
Naphthalene					2.0000	-15	5.0000	-15	10.000	-9	20.000	-1	50.000	6	75.000	16	100.00	17
1,2,3-Trichlorobenzene			0.5000	**-23**	2.0000	-3	5.0000	-10	10.000	-7	20.000	3	50.000	6	75.000	16	100.00	17
Dibromofluoromethane	50.000	2	50.000	3	50.000	1	50.000	1	50.000	0	50.000	1	50.000	-1	50.000	-2	50.000	-5
1,2-Dichloroethane-d4	50.000	2	50.000	1	50.000	3	50.000	4	50.000	2	50.000	2	50.000	-3	50.000	-2	50.000	-9
Toluene-d8	50.000	-7	50.000	-3	50.000	-1	50.000	1	50.000	2	50.000	2	50.000	3	50.000	3	50.000	0
Bromofluorobenzene	50.000	-2	50.000	1	50.000	2	50.000	1	50.000	1	50.000	0	50.000	2	50.000	-4	50.000	-1

MJB 04/17/13 [Bromomethane]: Combined split peak in (idc15).

MJB 04/17/13 [Chloroethane]: Combined split peak in (idc15).

MJB 04/17/13 [Ethanol]: Combined split peak in (idc15).

MJB 04/17/13 [4-Methyl-2-Pentanone]: Picked or reassigned peak in (idc15).

MJB 04/17/13 [Naphthalene]: Combined split peak in (idc15).

MJB 04/17/13 : All integrations for file 15 done by TW

MJB 04/17/13 [4-Methyl-2-Pentanone]: Picked or reassigned peak in (idc18).

MJB 04/17/13 [4-Methyl-2-Pentanone]: Picked or reassigned peak in (idc19).

MJB 04/17/13 [Acetone]: Fails min RF; no 8260C samples.

MJB 04/17/13 [Iodomethane]: ICV at -63; do not run samples for this analyte.

TW 04/17/13 [Acetone]: Fails 8260C min RF; Acetone cannot be reported for 8260C jobs from this calibration. Meets Avg RF criteria for 8260B.

Analyst: MJB Date: 04/17/13 Reviewer: TW Date: 04/17/13

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 247738 MSVOA Water
EPA 8260B

Inst : MSVOA09 Name : 826GOX9W
Calnum : 483147320002 Cal Date : 12-APR-2013 Type : WATER

ICV 483147320023 (idc23 12-APR-2013) stds: S21932 (10000X), S22165 (5000X)
ICV 483147320024 (idc24 12-APR-2013) stds: S21957 (10000X), S22045 (10000X), S22146 (10000X), S22165 (5000X)

Analyte	ICV Seqnum	Spiked	Quant	Units	%D	Max	Flags
Freon 12	483147320023	20.00	23.85	ug/L	19	30	
Chloromethane	483147320023	20.00	19.18	ug/L	-4	30	
Vinyl Chloride	483147320023	20.00	21.44	ug/L	7	20	
Bromomethane	483147320023	20.00	14.73	ug/L	**-26**	30	!v- m
Chloroethane	483147320023	20.00	18.42	ug/L	-8	30	
Trichlorofluoromethane	483147320023	20.00	19.86	ug/L	-1	30	
Acetone	483147320024	25.00	30.20	ug/L	**21**	40	!v+
Freon 113	483147320024	25.00	27.29	ug/L	9	30	
1,1-Dichloroethene	483147320024	25.00	25.97	ug/L	4	20	
Methylene Chloride	483147320024	25.00	26.16	ug/L	5	30	
Carbon Disulfide	483147320024	25.00	27.06	ug/L	8	30	
MTBE	483147320024	25.00	25.57	ug/L	2	30	
trans-1,2-Dichloroethene	483147320024	25.00	27.41	ug/L	10	30	
Vinyl Acetate	483147320024	25.00	29.00	ug/L	16	40	
1,1-Dichloroethane	483147320024	25.00	25.36	ug/L	1	30	
2-Butanone	483147320024	25.00	27.65	ug/L	11	40	
2,2-Dichloropropane	483147320024	25.00	24.58	ug/L	-2	30	
cis-1,2-Dichloroethene	483147320024	25.00	26.70	ug/L	7	30	
Chloroform	483147320024	25.00	26.04	ug/L	4	20	
Bromochloromethane	483147320024	25.00	27.53	ug/L	10	30	
1,1,1-Trichloroethane	483147320024	25.00	25.61	ug/L	2	30	
1,1-Dichloropropene	483147320024	25.00	27.74	ug/L	11	30	
Carbon Tetrachloride	483147320024	25.00	27.14	ug/L	9	30	
1,2-Dichloroethane	483147320024	25.00	25.77	ug/L	3	30	
Benzene	483147320024	25.00	26.78	ug/L	7	30	
Trichloroethene	483147320024	25.00	26.74	ug/L	7	30	
1,2-Dichloropropane	483147320024	25.00	25.30	ug/L	1	20	
Bromodichloromethane	483147320024	25.00	26.42	ug/L	6	30	
Dibromomethane	483147320024	25.00	26.29	ug/L	5	30	
4-Methyl-2-Pentanone	483147320024	25.00	26.53	ug/L	6	40	
cis-1,3-Dichloropropene	483147320024	25.00	29.58	ug/L	18	30	
Toluene	483147320024	25.00	27.48	ug/L	10	20	
trans-1,3-Dichloropropene	483147320024	25.00	25.99	ug/L	4	30	
1,1,2-Trichloroethane	483147320024	25.00	27.32	ug/L	9	30	
2-Hexanone	483147320024	25.00	27.69	ug/L	11	40	
1,3-Dichloropropane	483147320024	25.00	27.10	ug/L	8	30	
Tetrachloroethene	483147320024	25.00	26.94	ug/L	8	30	
Dibromochloromethane	483147320024	25.00	27.10	ug/L	8	30	
1,2-Dibromoethane	483147320024	25.00	27.78	ug/L	11	30	
Chlorobenzene	483147320024	25.00	24.83	ug/L	-1	30	
1,1,1,2-Tetrachloroethane	483147320024	25.00	27.89	ug/L	12	30	
Ethylbenzene	483147320024	25.00	27.41	ug/L	10	20	
m,p-Xylenes	483147320024	50.00	53.53	ug/L	7	30	
o-Xylene	483147320024	25.00	25.05	ug/L	0	30	
Styrene	483147320024	25.00	27.37	ug/L	9	30	
Bromoform	483147320024	25.00	29.82	ug/L	19	30	
Isopropylbenzene	483147320024	25.00	25.72	ug/L	3	30	

Analyte	ICV Seqnum	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	483147320024	25.00	28.35	ug/L	13	30	
1,2,3-Trichloropropane	483147320024	25.00	26.60	ug/L	6	30	
Propylbenzene	483147320024	25.00	24.42	ug/L	-2	30	
Bromobenzene	483147320024	25.00	27.62	ug/L	10	30	
1,3,5-Trimethylbenzene	483147320024	25.00	29.51	ug/L	18	30	
2-Chlorotoluene	483147320024	25.00	26.96	ug/L	8	30	
4-Chlorotoluene	483147320024	25.00	24.99	ug/L	0	30	
tert-Butylbenzene	483147320024	25.00	26.38	ug/L	6	30	
1,2,4-Trimethylbenzene	483147320024	25.00	28.68	ug/L	15	30	
sec-Butylbenzene	483147320024	25.00	26.23	ug/L	5	30	
para-Isopropyl Toluene	483147320024	25.00	25.95	ug/L	4	30	
1,3-Dichlorobenzene	483147320024	25.00	25.42	ug/L	2	30	
1,4-Dichlorobenzene	483147320024	25.00	27.83	ug/L	11	30	
n-Butylbenzene	483147320024	25.00	27.55	ug/L	10	30	
1,2-Dichlorobenzene	483147320024	25.00	26.05	ug/L	4	30	
1,2-Dibromo-3-Chloropropane	483147320024	25.00	26.06	ug/L	4	30	
1,2,4-Trichlorobenzene	483147320024	25.00	28.81	ug/L	15	30	
Hexachlorobutadiene	483147320024	25.00	29.20	ug/L	17	30	
Naphthalene	483147320024	25.00	29.34	ug/L	17	30	
1,2,3-Trichlorobenzene	483147320024	25.00	29.79	ug/L	19	30	

483147320023: Analyst: MJB Date: 04/17/13 Reviewer: TW Date: 04/17/13
483147320024: Analyst: MJB Date: 04/17/13 Reviewer: TW Date: 04/17/13

!=warning +=high bias -=low bias m=manual integration v=ICV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247738 MSVOA Water
EPA 8260B

Inst : MSVOA08 IDF : 1.0
Seqnum : 473326033005 File : hhe05 Time : 14-AUG-2013 10:38
Cal : 473114230005 Caldate : 20-MAR-2013 Caltype : WATER
Standards: S21953 (33330X), S23013 (33330X), S22920 (33330X), S21857 (33330X), S22913 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.7692	0.7576	15.00	14.78	ug/L	-1	30	0.0500	
Chloromethane	0.8491	0.8455	15.00	14.94	ug/L	0	30	0.1000	
Vinyl Chloride	0.6378	0.6967	15.00	16.38	ug/L	9	20	0.0500	
Bromomethane	0.3863	0.5399	15.00	20.97	ug/L	**40**	30	0.0500	!v- c+ ***
Chloroethane	0.3425	0.3733	15.00	16.35	ug/L	9	30	0.0500	
Trichlorofluoromethane	0.6374	0.8151	15.00	19.18	ug/L	**28**	30	0.0500	!c+
Acetone	0.1322	0.1582	15.00	17.95	ug/L	20	40	0.0500	!v+
Freon 113	0.4648	0.3956	15.00	12.77	ug/L	-15	30	0.0500	
1,1-Dichloroethene	0.4788	0.3917	15.00	12.27	ug/L	-18	20	0.0500	
Methylene Chloride	0.6142	0.4817	15.00	11.76	ug/L	**-22**	30	0.0500	!c-
Carbon Disulfide	1.9360	1.5622	15.00	12.10	ug/L	-19	30	0.0500	
MTBE	1.1558	1.0108	15.00	13.12	ug/L	-13	30	0.0500	
trans-1,2-Dichloroethene	0.5381	0.4513	15.00	12.58	ug/L	-16	30	0.0500	
Vinyl Acetate	0.7126	0.7314	15.00	15.40	ug/L	3	40	0.0500	
1,1-Dichloroethane	1.0335	0.8911	15.00	12.93	ug/L	-14	30	0.1000	
2-Butanone	0.1698	0.1553	15.00	13.71	ug/L	-9	40	0.0500	
2,2-Dichloropropane	0.6682	0.6779	15.00	15.22	ug/L	1	30	0.0500	
cis-1,2-Dichloroethene	0.5882	0.4972	15.00	12.68	ug/L	-15	30	0.0500	
Chloroform	0.9246	0.9021	15.00	14.63	ug/L	-2	20	0.0500	
Bromochloromethane	0.2760	0.2508	15.00	13.63	ug/L	-9	30	0.0500	
1,1,1-Trichloroethane	0.6419	0.6611	15.00	15.45	ug/L	3	30	0.0500	
1,1-Dichloropropene	0.4157	0.4091	15.00	14.76	ug/L	-2	30	0.0500	
Carbon Tetrachloride	0.3428	0.3639	15.00	15.92	ug/L	6	30	0.0500	
1,2-Dichloroethane	0.3848	0.4406	15.00	17.17	ug/L	14	30	0.0500	
Benzene	1.2437	1.1611	15.00	14.00	ug/L	-7	30	0.0500	
Trichloroethene	0.3279	0.3264	15.00	14.93	ug/L	0	30	0.0500	
1,2-Dichloropropane	0.3649	0.3206	15.00	13.18	ug/L	-12	20	0.0500	
Bromodichloromethane	0.4093	0.4525	15.00	16.59	ug/L	11	30	0.0500	
Dibromomethane	0.1971	0.1988	15.00	15.13	ug/L	1	30	0.0500	
4-Methyl-2-Pentanone	0.2269	0.1958	15.00	12.94	ug/L	-14	40	0.0500	
cis-1,3-Dichloropropene	0.4669	0.4840	15.00	15.55	ug/L	4	30	0.0500	!v+
Toluene	0.8612	0.8161	15.00	14.22	ug/L	-5	20	0.0500	
trans-1,3-Dichloropropene	0.4928	0.4779	15.00	14.55	ug/L	-3	30	0.0500	
1,1,2-Trichloroethane	0.1637	0.1427	15.00	13.08	ug/L	-13	30	0.0500	
2-Hexanone	0.1875	0.1548	15.00	12.39	ug/L	-17	40	0.0500	!v+
1,3-Dichloropropane	0.5098	0.4533	15.00	13.34	ug/L	-11	30	0.0500	
Tetrachloroethene	0.3512	0.3537	15.00	15.11	ug/L	1	30	0.0500	
Dibromochloromethane	0.3567	0.3433	15.00	14.43	ug/L	-4	30	0.0500	
1,2-Dibromoethane	0.3042	0.2795	15.00	13.78	ug/L	-8	30	0.0500	
Chlorobenzene	0.9607	0.9671	15.00	15.10	ug/L	1	30	0.3000	
1,1,1,2-Tetrachloroethane	0.3358	0.3533	15.00	15.78	ug/L	5	30	0.0500	
Ethylbenzene	1.5714	1.6304	15.00	15.56	ug/L	4	20	0.0500	
m,p-Xylenes	0.5668	0.5861	30.00	31.02	ug/L	3	30	0.0500	
o-Xylene	0.6027	0.6006	15.00	14.95	ug/L	0	30	0.0500	
Styrene	0.9722	1.0221	15.00	15.77	ug/L	5	30	0.0500	
Bromoform	0.1963	0.1816	15.00	13.87	ug/L	-8	30	0.1000	!v+
Isopropylbenzene	2.7762	2.8040	15.00	15.15	ug/L	1	30	0.0500	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	0.6264	0.5049	15.00	12.09	ug/L	-19	30	0.3000	
1,2,3-Trichloropropane	0.1487	0.1332	15.00	13.43	ug/L	-10	30	0.0500	
Propylbenzene	3.4897	3.3315	15.00	14.32	ug/L	-5	30	0.0500	
Bromobenzene	0.7727	0.8074	15.00	15.67	ug/L	4	30	0.0500	
1,3,5-Trimethylbenzene	2.2408	2.2557	15.00	15.10	ug/L	1	30	0.0500	
2-Chlorotoluene	2.2885	2.3617	15.00	15.48	ug/L	3	30	0.0500	
4-Chlorotoluene	2.1032	2.1529	15.00	15.35	ug/L	2	30	0.0500	
tert-Butylbenzene	2.0666	2.0431	15.00	14.83	ug/L	-1	30	0.0500	
1,2,4-Trimethylbenzene	2.2908	2.2887	15.00	14.99	ug/L	0	30	0.0500	
sec-Butylbenzene	3.0004	2.9378	15.00	14.69	ug/L	-2	30	0.0500	
para-Isopropyl Toluene	2.4097	2.3714	15.00	14.76	ug/L	-2	30	0.0500	
1,3-Dichlorobenzene	1.4286	1.3828	15.00	14.52	ug/L	-3	30	0.0500	
1,4-Dichlorobenzene	1.4013	1.3761	15.00	14.73	ug/L	-2	30	0.0500	
n-Butylbenzene	2.1768	2.0523	15.00	14.14	ug/L	-6	30	0.0500	
1,2-Dichlorobenzene	1.3807	1.3241	15.00	14.39	ug/L	-4	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1000	0.0735	15.00	11.03	ug/L	**-26**	30	0.0500	!c-
1,2,4-Trichlorobenzene	0.7750	0.6186	15.00	11.97	ug/L	-20	30	0.0500	
Hexachlorobutadiene	0.3253	0.3231	15.00	14.90	ug/L	-1	30	0.0500	
Naphthalene	1.7440	0.8349	15.00	7.181	ug/L	**-52**	30	0.0500	c- ***
1,2,3-Trichlorobenzene	0.7216	0.3633	15.00	7.552	ug/L	**-50**	30	0.0500	c- ***
Dibromofluoromethane	0.5613	0.5345	50.00	47.62	ug/L	-5	30	0.0500	
1,2-Dichloroethane-d4	0.3041	0.3669	50.00	60.32	ug/L	**21**	30	0.0500	!c+
Toluene-d8	1.2116	1.1797	50.00	48.68	ug/L	-3	30	0.0500	
Bromofluorobenzene	0.9596	0.9656	50.00	50.31	ug/L	1	30	0.0500	

ISTD (ICAL hck16)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	941940	1057346	12.25	10.05	10.04	-0.01
1,4-Difluorobenzene	1564588	1546821	-1.14	11.23	11.22	-0.01
Chlorobenzene-d5	1292144	1380932	6.87	15.68	15.67	-0.01
1,4-Dichlorobenzene-d4	691346	759710	9.89	18.47	18.46	-0.01

Analyst: MJB Date: 08/14/13 Reviewer: BO Date: 08/15/13

!=warning +=high bias -=low bias c=CCV v=ICV

CURTIS & TOMPKINS SPIKE USER REPORT FOR 247738 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : QC701270 IDF : 1.0
Seqnum : 483320483006.6 File : iha06 Time : 10-AUG-2013 16:03
Cal : 483147320002 Caldate : 12-APR-2013 Caltype : WATER
Standards: S22975 (20000X), S22927 (20000X), S22609 (20000X), S22793 (20000X), S22913 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.3656	0.2622	10.00	7.171	ug/L	-28	30	0.0500	u
Chloromethane	0.5899	0.4468	10.00	7.574	ug/L	-24	30	0.1000	u
Vinyl Chloride	0.3773	0.3306	10.00	8.762	ug/L	-12	20	0.0500	u
Bromomethane	0.1857	0.1417	10.00	7.634	ug/L	-24	30	0.0500	!v- u
Chloroethane	0.2553	0.2160	10.00	8.462	ug/L	-15	30	0.0500	u
Trichlorofluoromethane	0.4543	0.3949	10.00	8.692	ug/L	-13	30	0.0500	u
Acetone	0.0978	0.1058	12.50	13.53	ug/L	8	40	0.0500	!v+ u
Freon 113	0.2418	0.2456	12.50	12.70	ug/L	2	30	0.0500	u
1,1-Dichloroethene	0.2748	0.2522	12.50	11.48	ug/L	-8	20	0.0500	u
Methylene Chloride	0.3658	0.3242	12.50	11.08	ug/L	-11	30	0.0500	u
Carbon Disulfide	1.1127	1.0245	12.50	11.51	ug/L	-8	30	0.0500	u
MTBE	0.7462	0.6423	12.50	10.76	ug/L	-14	30	0.0500	u
trans-1,2-Dichloroethene	0.3211	0.3018	12.50	11.75	ug/L	-6	30	0.0500	u
Vinyl Acetate	0.6813	0.5868	12.50	10.77	ug/L	-14	40	0.0500	u
1,1-Dichloroethane	0.6789	0.5369	12.50	9.885	ug/L	-21	30	0.1000	u
2-Butanone	0.1437	0.1152	12.50	10.02	ug/L	-20	40	0.0500	u
cis-1,2-Dichloroethene	0.3687	0.3487	12.50	11.82	ug/L	-5	30	0.0500	u
2,2-Dichloropropane	0.4126	0.4348	12.50	13.17	ug/L	5	30	0.0500	u
Chloroform	0.5897	0.5277	12.50	11.19	ug/L	-11	20	0.0500	u
Bromochloromethane	0.1630	0.1562	12.50	11.98	ug/L	-4	30	0.0500	u
1,1,1-Trichloroethane	0.4211	0.4131	12.50	12.26	ug/L	-2	30	0.0500	u
1,1-Dichloropropene	0.2741	0.3125	12.50	14.25	ug/L	14	30	0.0500	u
Carbon Tetrachloride	0.2427	0.2846	12.50	14.66	ug/L	17	30	0.0500	u
1,2-Dichloroethane	0.2767	0.3109	12.50	14.04	ug/L	12	30	0.0500	u
Benzene	0.8251	0.8563	12.50	12.97	ug/L	4	30	0.0500	u
Trichloroethene	0.2250	0.2483	12.50	13.80	ug/L	10	30	0.0500	u
1,2-Dichloropropane	0.2781	0.2418	12.50	10.87	ug/L	-13	20	0.0500	u
Bromodichloromethane	0.2953	0.3150	12.50	13.33	ug/L	7	30	0.0500	u
Dibromomethane	0.1433	0.1313	12.50	11.45	ug/L	-8	30	0.0500	u
4-Methyl-2-Pentanone	0.2255	0.1747	12.50	9.688	ug/L	-22	40	0.0500	u
cis-1,3-Dichloropropene	0.3386	0.3779	12.50	13.95	ug/L	12	30	0.0500	u
Toluene	0.6477	0.6760	12.50	13.05	ug/L	4	20	0.0500	u
trans-1,3-Dichloropropene	0.3950	0.3601	12.50	11.40	ug/L	-9	30	0.0500	u
1,1,2-Trichloroethane	0.1361	0.1236	12.50	11.35	ug/L	-9	30	0.0500	u
2-Hexanone	0.2086	0.1739	12.50	10.42	ug/L	-17	40	0.0500	u
1,3-Dichloropropane	0.4045	0.3723	12.50	11.51	ug/L	-8	30	0.0500	u
Tetrachloroethene	0.2583	0.2834	12.50	13.71	ug/L	10	30	0.0500	u
Dibromochloromethane	0.2885	0.3106	12.50	13.46	ug/L	8	30	0.0500	u
1,2-Dibromoethane	0.2439	0.2419	12.50	12.40	ug/L	-1	30	0.0500	u
Chlorobenzene	0.7359	0.8305	12.50	14.11	ug/L	13	30	0.3000	u
1,1,1,2-Tetrachloroethane	0.2556	0.3040	12.50	14.87	ug/L	19	30	0.0500	u
Ethylbenzene	1.1863	1.2663	12.50	13.34	ug/L	7	20	0.0500	u
m,p-Xylenes	0.4253	0.4902	25.00	28.81	ug/L	15	30	0.0500	u
o-Xylene	0.4388	0.5054	12.50	14.40	ug/L	15	30	0.0500	u
Styrene	0.7686	0.8367	12.50	13.61	ug/L	9	30	0.0500	u
Bromoform	0.1711	0.1830	12.50	13.36	ug/L	7	30	0.1000	u
Isopropylbenzene	2.2156	2.3042	12.50	13.00	ug/L	4	30	0.0500	u

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	0.5965	0.4897	12.50	10.26	ug/L	-18	30	0.3000	u
1,2,3-Trichloropropane	0.1358	0.1225	12.50	11.27	ug/L	-10	30	0.0500	u
Propylbenzene	2.6387	2.5472	12.50	12.07	ug/L	-3	30	0.0500	u
Bromobenzene	0.6203	0.6853	12.50	13.81	ug/L	10	30	0.0500	u
1,3,5-Trimethylbenzene	1.7053	1.8930	12.50	13.88	ug/L	11	30	0.0500	u
2-Chlorotoluene	1.7595	1.8686	12.50	13.27	ug/L	6	30	0.0500	u
4-Chlorotoluene	1.6958	1.6754	12.50	12.35	ug/L	-1	30	0.0500	u
tert-Butylbenzene	1.4837	1.6583	12.50	13.97	ug/L	12	30	0.0500	u
1,2,4-Trimethylbenzene	1.7503	1.8018	12.50	12.87	ug/L	3	30	0.0500	u
sec-Butylbenzene	2.2639	2.3600	12.50	13.03	ug/L	4	30	0.0500	u
para-Isopropyl Toluene	1.6995	1.5868	12.50	11.67	ug/L	-7	30	0.0500	u
1,3-Dichlorobenzene	1.0679	1.2069	12.50	14.13	ug/L	13	30	0.0500	u
1,4-Dichlorobenzene	1.0713	1.1356	12.50	13.25	ug/L	6	30	0.0500	u
n-Butylbenzene	1.5747	1.3874	12.50	11.01	ug/L	-12	30	0.0500	u
1,2-Dichlorobenzene	1.0296	1.1895	12.50	14.44	ug/L	16	30	0.0500	u
1,2-Dibromo-3-Chloropropane	0.0884	0.0723	12.50	10.22	ug/L	-18	30	0.0500	u
1,2,4-Trichlorobenzene	0.5605	0.5722	12.50	12.76	ug/L	2	30	0.0500	u
Hexachlorobutadiene	0.2774	0.3368	12.50	15.18	ug/L	21	30	0.0500	u
Naphthalene	1.0017	0.9428	12.50	11.76	ug/L	-6	30	0.0500	u
1,2,3-Trichlorobenzene	0.5250	0.5179	12.50	12.33	ug/L	-1	30	0.0500	u
Dibromofluoromethane	0.5357	0.4581	50.00	42.75	ug/L	-14	30	0.0500	u
1,2-Dichloroethane-d4	0.3052	0.3154	50.00	51.68	ug/L	3	30	0.0500	u
Toluene-d8	1.3871	1.2810	50.00	46.18	ug/L	-8	30	0.0500	u
Bromofluorobenzene	1.0329	0.9314	50.00	45.09	ug/L	-10	30	0.0500	u

ISTD (ICAL idc20)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1676048	1466157	-12.52	11.44	11.40	-0.04
1,4-Difluorobenzene	2499222	1909941	-23.58	12.70	12.67	-0.03
Chlorobenzene-d5	1839785	1535721	-16.53	16.96	16.93	-0.03
1,4-Dichlorobenzene-d4	910468	839727	-7.77	19.40	19.38	-0.02

Analyst: MJB Date: 08/15/13 Reviewer: SJD Date: 08/15/13

!=warning +=high bias -=low bias u=use v=ICV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247738 MSVOA Water
EPA 8260B

Inst : MSVOA09 IDF : 1.0
Seqnum : 483324446005 File : ihd05 Time : 13-AUG-2013 09:51
Cal : 483147320002 Caldate : 12-APR-2013 Caltype : WATER
Standards: S21953 (25000X), S23013 (25000X), S22920 (25000X), S21857 (25000X), S22913 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.3656	0.4290	20.00	23.47	ug/L	17	30	0.0500	
Chloromethane	0.5899	0.5525	20.00	18.73	ug/L	-6	30	0.1000	
Vinyl Chloride	0.3773	0.3922	20.00	20.79	ug/L	4	20	0.0500	
Bromomethane	0.1857	0.1404	20.00	15.12	ug/L	**-24**	30	0.0500	!c- !v-
Chloroethane	0.2553	0.2210	20.00	17.31	ug/L	-13	30	0.0500	
Trichlorofluoromethane	0.4543	0.4998	20.00	22.00	ug/L	10	30	0.0500	
Acetone	0.0978	0.0938	20.00	19.19	ug/L	-4	40	0.0500	!v+ < 8260C min rf (0.100)
Freon 113	0.2418	0.2241	20.00	18.53	ug/L	-7	30	0.0500	
1,1-Dichloroethene	0.2748	0.2195	20.00	15.98	ug/L	-20	20	0.0500	
Methylene Chloride	0.3658	0.2861	20.00	15.64	ug/L	**-22**	30	0.0500	!c-
Carbon Disulfide	1.1127	0.7891	20.00	14.18	ug/L	**-29**	30	0.0500	!c-
MTBE	0.7462	0.6397	20.00	17.15	ug/L	-14	30	0.0500	
trans-1,2-Dichloroethene	0.3211	0.2769	20.00	17.24	ug/L	-14	30	0.0500	
Vinyl Acetate	0.6813	0.4800	20.00	14.09	ug/L	**-30**	40	0.0500	!c-
1,1-Dichloroethane	0.6789	0.5488	20.00	16.17	ug/L	-19	30	0.1000	
2-Butanone	0.1437	0.1048	20.00	14.59	ug/L	**-27**	40	0.0500	!c-
2,2-Dichloropropane	0.4126	0.4349	20.00	21.08	ug/L	5	30	0.0500	
cis-1,2-Dichloroethene	0.3687	0.3227	20.00	17.50	ug/L	-12	30	0.0500	
Chloroform	0.5897	0.5390	20.00	18.28	ug/L	-9	20	0.0500	
Bromochloromethane	0.1630	0.1659	20.00	20.36	ug/L	2	30	0.0500	
1,1,1-Trichloroethane	0.4211	0.4151	20.00	19.72	ug/L	-1	30	0.0500	
1,1-Dichloropropene	0.2741	0.2715	20.00	19.81	ug/L	-1	30	0.0500	
Carbon Tetrachloride	0.2427	0.2915	20.00	24.02	ug/L	20	30	0.0500	
1,2-Dichloroethane	0.2767	0.2906	20.00	21.00	ug/L	5	30	0.0500	
Benzene	0.8251	0.8023	20.00	19.45	ug/L	-3	30	0.0500	
Trichloroethene	0.2250	0.2218	20.00	19.72	ug/L	-1	30	0.0500	
1,2-Dichloropropane	0.2781	0.2395	20.00	17.23	ug/L	-14	20	0.0500	
Bromodichloromethane	0.2953	0.3172	20.00	21.48	ug/L	7	30	0.0500	
Dibromomethane	0.1433	0.1357	20.00	18.94	ug/L	-5	30	0.0500	
4-Methyl-2-Pentanone	0.2255	0.1698	20.00	15.06	ug/L	**-25**	40	0.0500	!c-
cis-1,3-Dichloropropene	0.3386	0.3443	20.00	20.34	ug/L	2	30	0.0500	
Toluene	0.6477	0.6068	20.00	18.74	ug/L	-6	20	0.0500	
trans-1,3-Dichloropropene	0.3950	0.3803	20.00	19.26	ug/L	-4	30	0.0500	
1,1,2-Trichloroethane	0.1361	0.1156	20.00	16.99	ug/L	-15	30	0.0500	
2-Hexanone	0.2086	0.1627	20.00	15.61	ug/L	**-22**	40	0.0500	!c-
1,3-Dichloropropane	0.4045	0.3572	20.00	17.66	ug/L	-12	30	0.0500	
Tetrachloroethene	0.2583	0.2932	20.00	22.70	ug/L	14	30	0.0500	
Dibromochloromethane	0.2885	0.2992	20.00	20.74	ug/L	4	30	0.0500	
1,2-Dibromoethane	0.2439	0.2306	20.00	18.91	ug/L	-5	30	0.0500	
Chlorobenzene	0.7359	0.7472	20.00	20.31	ug/L	2	30	0.3000	
1,1,1,2-Tetrachloroethane	0.2556	0.2953	20.00	23.10	ug/L	16	30	0.0500	
Ethylbenzene	1.1863	1.1970	20.00	20.18	ug/L	1	20	0.0500	
m,p-Xylenes	0.4253	0.4420	40.00	41.57	ug/L	4	30	0.0500	
o-Xylene	0.4388	0.4612	20.00	21.02	ug/L	5	30	0.0500	
Styrene	0.7686	0.8137	20.00	21.18	ug/L	6	30	0.0500	
Bromoform	0.1711	0.1882	20.00	22.00	ug/L	10	30	0.1000	
Isopropylbenzene	2.2156	2.0112	20.00	18.15	ug/L	-9	30	0.0500	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	0.5965	0.4368	20.00	14.65	ug/L	**-27**	30	0.3000	!c-
1,2,3-Trichloropropane	0.1358	0.1195	20.00	17.59	ug/L	-12	30	0.0500	
Propylbenzene	2.6387	2.3174	20.00	17.56	ug/L	-12	30	0.0500	
Bromobenzene	0.6203	0.6529	20.00	21.05	ug/L	5	30	0.0500	
1,3,5-Trimethylbenzene	1.7053	1.6500	20.00	19.35	ug/L	-3	30	0.0500	
2-Chlorotoluene	1.7595	1.6141	20.00	18.35	ug/L	-8	30	0.0500	
4-Chlorotoluene	1.6958	1.5550	20.00	18.34	ug/L	-8	30	0.0500	
tert-Butylbenzene	1.4837	1.4977	20.00	20.19	ug/L	1	30	0.0500	
1,2,4-Trimethylbenzene	1.7503	1.6648	20.00	19.02	ug/L	-5	30	0.0500	
sec-Butylbenzene	2.2639	2.0821	20.00	18.39	ug/L	-8	30	0.0500	
para-Isopropyl Toluene	1.6995	1.7222	20.00	20.27	ug/L	1	30	0.0500	
1,3-Dichlorobenzene	1.0679	1.0708	20.00	20.05	ug/L	0	30	0.0500	
1,4-Dichlorobenzene	1.0713	1.0494	20.00	19.59	ug/L	-2	30	0.0500	
n-Butylbenzene	1.5747	1.3214	20.00	16.78	ug/L	-16	30	0.0500	
1,2-Dichlorobenzene	1.0296	1.0621	20.00	20.63	ug/L	3	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.0884	0.0668	20.00	15.12	ug/L	**-24**	30	0.0500	!c-
1,2,4-Trichlorobenzene	0.5605	0.5535	20.00	19.75	ug/L	-1	30	0.0500	
Hexachlorobutadiene	0.2774	0.3268	20.00	23.56	ug/L	18	30	0.0500	
Naphthalene	1.0017	0.9121	20.00	18.21	ug/L	-9	30	0.0500	
1,2,3-Trichlorobenzene	0.5250	0.4963	20.00	18.91	ug/L	-5	30	0.0500	
Dibromofluoromethane	0.5357	0.4533	50.00	42.30	ug/L	-15	30	0.0500	
1,2-Dichloroethane-d4	0.3052	0.3167	50.00	51.89	ug/L	4	30	0.0500	
Toluene-d8	1.3871	1.2674	50.00	45.69	ug/L	-9	30	0.0500	
Bromofluorobenzene	1.0329	0.9002	50.00	43.58	ug/L	-13	30	0.0500	

ISTD (ICAL idc20)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1676048	1516284	-9.53	11.44	11.40	-0.04
1,4-Difluorobenzene	2499222	1999631	-19.99	12.70	12.66	-0.04
Chlorobenzene-d5	1839785	1615774	-12.18	16.96	16.93	-0.03
1,4-Dichlorobenzene-d4	910468	903636	-0.75	19.40	19.39	-0.01

Analyst: MJB Date: 08/13/13 Reviewer: BO Date: 08/14/13

!=warning +=high bias -=low bias < 8260C min rf (0.100)=optional ICAL minimum RF failure c=CCV v=ICV

Logbooks & Sequences

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 473326033

Date : 08/14/13 Reference : hck16
Sequence : MSVOA08 hhe Analyzed : 03/20/13 19:32

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	941940	10.05	1564588	11.23	1292144	15.68	691346	18.47
		LOWER LIMIT	470970	9.55	782294	10.73	646072	15.18	345673	17.97
		UPPER LIMIT	1883880	10.55	3129176	11.73	2584288	16.18	1382692	18.97
005	CCV		1057346	10.04	1546821	11.22	1380932	15.67	759710	18.46
006	BS	QC701760	956232	10.04	1440830	11.23	1273973	15.67	706606	18.46
007	BSD	QC701761	1072398	10.04	1607207	11.22	1416026	15.67	771584	18.47
009	BLANK	QC701762	1089031	10.04	1610657	11.22	1406677	15.67	745539	18.47
010	SAMPLE	247738-001	1018178	10.04	1545073	11.22	1374769	15.67	723174	18.47
011	SAMPLE	247902-003	1017896	10.04	1517222	11.22	1331603	15.67	706810	18.47
012	SAMPLE	247902-004	1024194	10.04	1490403	11.22	1336475	15.67	702917	18.47
013	SAMPLE	247902-005	942020	10.04	1352093	11.23	1208583	15.67	640802	18.47
014	SAMPLE	247933-001	979645	10.04	1464705	11.22	1294956	15.67	683835	18.46
015	SAMPLE	247902-007	984638	10.04	1466220	11.22	1290036	15.67	675828	18.46
016	SAMPLE	247902-008	1005914	10.04	1461095	11.23	1290303	15.67	687319	18.46
017	SAMPLE	247902-009	1003019	10.04	1487514	11.22	1301932	15.66	689332	18.47
018	SAMPLE	247902-010	900196	10.04	1330326	11.22	1164069	15.67	616651	18.46
019	SAMPLE	247902-011	891354	10.04	1328028	11.22	1162495	15.67	619541	18.46
020	SAMPLE	247902-012	971801	10.04	1440885	11.22	1263108	15.67	673300	18.46
021	SAMPLE	247902-013	905617	10.04	1337526	11.22	1168809	15.67	615772	18.46
022	SAMPLE	247902-014	887320	10.04	1305708	11.22	1137318	15.67	607977	18.46
023	SAMPLE	247902-015	946703	10.04	1402207	11.23	1212507	15.67	655248	18.47

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 483320483

Date : 08/10/13 Reference : idc20
Sequence : MSVOA09 iha Analyzed : 04/12/13 19:41

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	1676048	11.44	2499222	12.70	1839785	16.96	910468	19.40
		LOWER LIMIT	838024	10.94	1249611	12.20	919893	16.46	455234	18.90
		UPPER LIMIT	3352096	11.94	4998444	13.20	3679570	17.46	1820936	19.90
005	CCV		1414106	11.40	1847503	12.66	1450842	16.93	827775	19.38
006	CCV/BS	QC701270	1466157	11.40	1909941	12.67	1535721	16.93	839727	19.38
007	BSD	QC701271	1335815	11.41	1792896	12.67	1371687	16.94	764594	19.38
008	IB		1409379	11.41	1891741	12.67	1498452	16.94	801688	19.39
009	BLANK	QC701272	1329690	11.41	1746835	12.68	1335402	16.94	718876	19.39
010	SAMPLE	247801-003	1415283	11.41	1872749	12.68	1449756	16.94	773753	19.40
011	SAMPLE	247801-002	1377724	11.41	1827527	12.68	1465836	16.94	772936	19.39
012	SAMPLE	247801-001	1355707	11.41	1829393	12.68	1423494	16.94	771986	19.39
013	SAMPLE	247738-011	1395165	11.41	1807458	12.69	1470346	16.94	772325	19.40
014	SAMPLE	247738-004	1363587	11.41	1749871	12.68	1412115	16.94	763201	19.39
015	SAMPLE	247738-005	1375766	11.41	1793736	12.67	1407983	16.94	761122	19.40
016	SAMPLE	247738-006	1355518	11.41	1777893	12.68	1428823	16.94	754036	19.40
017	SAMPLE	247738-007	1365367	11.41	1786085	12.68	1409479	16.94	764687	19.39
018	SAMPLE	247738-009	1344801	11.41	1760292	12.67	1403294	16.94	743531	19.40
019	SAMPLE	247738-010	1319141	11.41	1774556	12.68	1371763	16.93	740183	19.39
020	SAMPLE	247721-001	1343643	11.41	1768144	12.68	1400497	16.94	751014	19.40
021	SAMPLE	247721-002	1326390	11.41	1740737	12.67	1380728	16.94	743802	19.40
022	SAMPLE	247721-003	1336305	11.41	1747777	12.68	1408223	16.94	763934	19.39
023	SAMPLE	247722-001	1483839	11.41	1940167	12.68	1574593	16.94	850382	19.39
024	SAMPLE	247724-001	1479959	11.41	1963977	12.68	1549379	16.94	826167	19.39

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 483324446

Date : 08/13/13 Reference : idc20
Sequence : MSVOA09 ihd Analyzed : 04/12/13 19:41

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	1676048	11.44	2499222	12.70	1839785	16.96	910468	19.40
		LOWER LIMIT	838024	10.94	1249611	12.20	919893	16.46	455234	18.90
		UPPER LIMIT	3352096	11.94	4998444	13.20	3679570	17.46	1820936	19.90
005	CCV		1516284	11.40	1999631	12.66	1615774	16.93	903636	19.39
006	BS	QC701535	1584711	11.41	2143761	12.68	1606986	16.93	892018	19.39
007	BSD	QC701536	1516483	11.41	1968784	12.68	1538216	16.94	843630	19.40
009	BLANK	QC701537	1568772	11.42	2066647	12.69	1597655	16.95	864966	19.40
010	SAMPLE	247738-003	1541341	11.42	2038536	12.69	1579359	16.95	833093	19.40
011	SAMPLE	247738-001	1500489	11.42	1949128	12.69	1548557	16.95	822151	19.39
012	SAMPLE	247738-002	1465372	11.42	1919172	12.68	1507443	16.94	822404	19.40
013	SAMPLE	247736-001	1462028	11.43	1956092	12.69	1526050	16.95	796816	19.40
014	SAMPLE	247736-003	1473880	11.42	1952212	12.69	1501233	16.94	831595	19.40
015	MSS	247736-007	1437457	11.43	1944022	12.69	1512909	16.95	798603	19.40
016	SAMPLE	247738-008	1339719	11.42	1821775	12.69	1427799	16.94	733857	19.40
017	SAMPLE	247761-003	1407924	11.42	1874709	12.69	1456504	16.95	783483	19.39
018	SAMPLE	247761-006	1412882	11.43	1899785	12.69	1485662	16.95	808866	19.40
019	SAMPLE	247761-004	1343316	11.42	1779217	12.69	1368649	16.95	724821	19.40
020	SAMPLE	247818-010	1341016	11.43	1751177	12.69	1381386	16.95	725796	19.40
021	SAMPLE	247818-009	1317361	11.43	1731454	12.69	1320321	16.95	718352	19.40
022	MS	QC701354	1415215	11.43	1892417	12.69	1543309	16.95	850396	19.40
023	MSD	QC701355	1500265	11.43	2005725	12.70	1536716	16.95	884707	19.40
025	IB		1497514	11.43	2015607	12.69	1532522	16.95	829258	19.39
026	IB		1471179	11.43	1958078	12.69	1549017	16.95	829479	19.40

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 473114230

Instrument : MSVOA08 Begun : 03/20/13 07:50
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	hck01	X	IB			03/20/13 07:50	1.0	1	
002	hck02	X	IB			03/20/13 10:58	1.0	1	
003	hck03	X	IB			03/20/13 11:36	1.0	1	
004	hck04	X	IB			03/20/13 12:13	1.0	1	
005	hck05	X	IB			03/20/13 12:50	1.0	1	
006	hck06	TUN	BFB			03/20/13 13:23	1.0	2	t
007	hck07	TUN	BFB			03/20/13 14:05	1.0	2	
008	hck08	X	IB			03/20/13 14:30	1.0	1	
009	hck09	IB	CALIB			03/20/13 15:07	1.0	1	
010	hck10	ICAL				03/20/13 15:46	1.0	3 4 5 6 1	
011	hck11	ICAL				03/20/13 16:23	1.0	3 4 5 6 1	
012	hck12	ICAL				03/20/13 17:00	1.0	3 4 5 6 1	
013	hck13	ICAL				03/20/13 17:40	1.0	3 4 5 6 1	
014	hck14	ICAL				03/20/13 18:18	1.0	3 4 5 6 1	
015	hck15	ICAL				03/20/13 18:55	1.0	3 4 5 6 1	
016	hck16	ICAL				03/20/13 19:32	1.0	3 4 5 6 1	
017	hck17	ICAL				03/20/13 20:10	1.0	3 4 5 6 1	
018	hck18	ICAL				03/20/13 21:08	1.0	3 4 5 6 1	
019	hck19	ICV				03/20/13 21:54	1.0	7 1	
020	hck20	ICV				03/20/13 22:40	1.0	8 9 1 10	
021	hck21	X	IB			03/20/13 23:28	1.0	1	
022	hck22	X	IB			03/21/13 00:21	1.0	1	

MJB 03/22/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 22.

Analyst: MJB Date: 03/22/13 Reviewer: LW Date: 03/22/13

Standards used: 1=S21822 2=S21369 3=S21889 4=S21576 5=S21635 6=S21908 7=S21932 8=S21957 9=S21915 10=S21791

Flags used: t=tune failure

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 473326033

Instrument : MSVOA08 Begun : 08/14/13 07:23
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	hhe01	X	HIGH GASES			08/14/13 07:23	1.0	1	
002	hhe02	X	IB			08/14/13 08:01	1.0	1	
003	hhe03	TUN	BFB			08/14/13 09:53	1.0	2	t
004	hhe04	TUN	BFB			08/14/13 10:11	1.0	2	
005	hhe05	CCV				08/14/13 10:38	1.0	3 4 5 6 1	
006	hhe06	BS	QC701760	Water	201675	08/14/13 11:15	1.0	7 8 9 10 1	
007	hhe07	BSD	QC701761	Water	201675	08/14/13 11:53	1.0	7 8 9 10 1	
008	hhe08	ICAL				08/14/13 12:31	1.0	11 1	
009	hhe09	BLANK	QC701762	Water	201675	08/14/13 13:09	1.0	1	
010	hhe10	SAMPLE	247738-001	Water	201675	08/14/13 13:46	1.0	1	
011	hhe11	SAMPLE	247902-003	Water	201675	08/14/13 14:24	1.0	1	
012	hhe12	SAMPLE	247902-004	Water	201675	08/14/13 15:02	1.0	1	
013	hhe13	SAMPLE	247902-005	Water	201675	08/14/13 15:40	1.0	1	
014	hhe14	SAMPLE	247933-001	Water	201675	08/14/13 16:17	1.0	1	headspace <= 1 mL, pH > 2
015	hhe15	SAMPLE	247902-007	Water	201675	08/14/13 16:54	1.0	1	
016	hhe16	SAMPLE	247902-008	Water	201675	08/14/13 17:32	1.0	1	
017	hhe17	SAMPLE	247902-009	Water	201675	08/14/13 18:09	1.0	1	
018	hhe18	SAMPLE	247902-010	Water	201675	08/14/13 18:46	1.0	1	
019	hhe19	SAMPLE	247902-011	Water	201675	08/14/13 19:24	1.0	1	
020	hhe20	SAMPLE	247902-012	Water	201675	08/14/13 20:01	1.0	1	
021	hhe21	SAMPLE	247902-013	Water	201675	08/14/13 20:39	1.0	1	
022	hhe22	SAMPLE	247902-014	Water	201675	08/14/13 21:16	1.0	1	
023	hhe23	SAMPLE	247902-015	Water	201675	08/14/13 21:53	1.0	1	
024	hhe24	X	HIGH GAS		201675	08/14/13 22:31	1.0	1	
025	hhe25	X	IB			08/14/13 23:08	201700	1	
026	hhe26	X	IB			08/14/13 23:46	201700	1	

MJB 08/15/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 26.

MJB 08/15/13 : Matrix spikes were not performed for this analysis in batch 201675 due to insufficient sample amount.

Analyst: MJB Date: 08/15/13 Reviewer: BO Date: 08/15/13

Standards used: 1=S22913 2=S22624 3=S21953 4=S23013 5=S22920 6=S21857 7=S22975 8=S22927 9=S23020 10=S22435 11=S22949

Flags used: t=tune failure

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 483147320

Instrument : MSVOA09 Begun : 04/12/13 07:20
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	idc01	X	IB			04/12/13 07:20	1.0	1	
002	idc02	TUN	BFB			04/12/13 08:59	1.0	2	
003	idc03	CCV				04/12/13 09:25	1.0	3 4 5 6 7	cc+ , 80:ETHANOL=73000
004	idc04	BS	QC684032	Water	197328	04/12/13 09:58	1.0	8 9 10 11 7	spk cc+ , 79:ETHANOL=80000
005	idc05	BSD	QC684033	Water	197328	04/12/13 10:31	1.0	8 9 10 11 7	spk cc+ , 79:ETHANOL=190000
008	idc08	IB				04/12/13 11:03	197100	7	
009	idc09	BLANK	QC684034	Water	197328	04/12/13 11:36	1.0	7	cc+
010	idc10	CCV				04/12/13 13:05	1.0	3 4 5 6 7	cc+
011	idc11	TUN	BFB			04/12/13 14:37	1.0	2	
012	idc12	IB				04/12/13 15:05	197200	7	
013	idc13	IB	CALIB			04/12/13 15:40	197200	7	
014	idc14	ICAL				04/12/13 16:14	1.0	5 6 3 4 7	
015	idc15	ICAL				04/12/13 16:49	1.0	5 6 3 4 7	
016	idc16	ICAL				04/12/13 17:23	1.0	5 6 3 4 7	
017	idc17	ICAL				04/12/13 17:58	1.0	5 6 3 4 7	
018	idc18	ICAL				04/12/13 18:32	1.0	5 6 3 4 7	
019	idc19	ICAL				04/12/13 19:06	1.0	5 6 3 4 7	
020	idc20	ICAL				04/12/13 19:41	1.0	5 6 3 4 7	
021	idc21	ICAL				04/12/13 20:15	1.0	5 6 3 4 7	
022	idc22	ICAL				04/12/13 20:50	1.0	5 6 3 4 7	
023	idc23	ICV				04/12/13 21:24	1.0	11 7	
024	idc24	ICV				04/12/13 21:59	1.0	8 9 10 7	
025	idc25	X	IB			04/12/13 22:34	1.0	7	
026	idc26	X	IB			04/12/13 23:08	1.0	7	

MJB 04/17/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 26.

Analyst: MJB Date: 04/17/13 Reviewer: TW Date: 04/17/13

Standards used: 1=S21822 2=S21369 3=S21635 4=S21908 5=S21889 6=S21761 7=S22165 8=S21957 9=S22045 10=S22146 11=S21932

Flags used: +=high bias cc=CCV CCC failure spk=5% spike rule

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 483320483

Instrument : MSVOA09 Begun : 08/10/13 13:23
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	iha01	X	HIGH GASES			08/10/13 13:23	1.0	1	
002	iha02	X	IB			08/10/13 13:57	1.0	1	
003	iha03	TUN	BFB			08/10/13 14:29	1.0	2	t
004	iha04	TUN	BFB			08/10/13 14:54	1.0	2	
005	iha05	CCV				08/10/13 15:29	1.0	3 4 5 6 1	cc-
006	iha06	CCV/BS	QC701270	Water	201561	08/10/13 16:03	1.0	7 8 9 10 1	
007	iha07	BSD	QC701271	Water	201561	08/10/13 16:37	1.0	7 8 9 10 1	
008	iha08	IB				08/10/13 17:11	1.0	1	
009	iha09	BLANK	QC701272	Water	201561	08/10/13 17:45	1.0	1	
010	iha10	SAMPLE	247801-003	Water	201561	08/10/13 18:19	1.0	1	
011	iha11	SAMPLE	247801-002	Water	201561	08/10/13 18:53	1.0	1	headspace <= 1 mL
012	iha12	SAMPLE	247801-001	Water	201561	08/10/13 19:28	1.0	1	
013	iha13	SAMPLE	247738-011	Water	201561	08/10/13 20:02	1.0	1	
014	iha14	SAMPLE	247738-004	Water	201561	08/10/13 20:37	1.0	1	
015	iha15	SAMPLE	247738-005	Water	201561	08/10/13 21:11	1.0	1	
016	iha16	SAMPLE	247738-006	Water	201561	08/10/13 21:45	1.0	1	
017	iha17	SAMPLE	247738-007	Water	201561	08/10/13 22:20	1.0	1	
018	iha18	SAMPLE	247738-009	Water	201561	08/10/13 22:55	1.0	1	
019	iha19	SAMPLE	247738-010	Water	201561	08/10/13 23:29	1.0	1	
020	iha20	SAMPLE	247721-001	Water	201561	08/11/13 00:03	1.0	1	
021	iha21	SAMPLE	247721-002	Water	201561	08/11/13 00:38	1.0	1	
022	iha22	SAMPLE	247721-003	Water	201561	08/11/13 01:13	1.0	1	
023	iha23	SAMPLE	247722-001	Water	201561	08/11/13 01:47	1.0	1	
024	iha24	SAMPLE	247724-001	Water	201561	08/11/13 02:22	1.0	1	
025	iha25	X	HIGHGAS			08/11/13 02:57	1.0	1	
026	iha26	X	IB			08/11/13 03:31	1.0	1	

MJB 08/12/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 26.

MJB 08/12/13 : Matrix spikes were not performed for this analysis in batch 201561 due to insufficient sample amount.

Analyst: MJB Date: 08/12/13 Reviewer: BO Date: 08/12/13

Standards used: 1=S22913 2=S22624 3=S21953 4=S22575 5=S22920 6=S22141 7=S22975 8=S22927 9=S22609 10=S22793

Flags used: -=low bias cc=CCV CCC failure t=tune failure

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 483324446

Instrument : MSVOA09 Begun : 08/13/13 07:26
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	ihd01	X	HIGH GASES			08/13/13 07:26	1.0	1	
002	ihd02	X	IB			08/13/13 08:00	1.0	1	
003	ihd03	TUN	BFB			08/13/13 09:08	1.0	2	t
004	ihd04	TUN	BFB			08/13/13 09:23	1.0	2	
005	ihd05	CCV				08/13/13 09:51	1.0	3 4 5 6 1	
006	ihd06	BS	QC701535	Water	201624	08/13/13 10:25	1.0	7 8 9 10 1	
007	ihd07	BSD	QC701536	Water	201624	08/13/13 10:59	1.0	7 8 9 10 1	
008	ihd08	X	A/A			08/13/13 11:33	1.0	11 1	
009	ihd09	BLANK	QC701537	Water	201624	08/13/13 12:07	1.0	1	
010	ihd10	SAMPLE	247738-003	Water	201624	08/13/13 12:41	1.0	1	
011	ihd11	SAMPLE	247738-001	Water	201624	08/13/13 13:15	1.0	1	
012	ihd12	SAMPLE	247738-002	Water	201624	08/13/13 13:49	1.0	1	
013	ihd13	SAMPLE	247736-001	Water	201624	08/13/13 14:24	1.0	1	
014	ihd14	SAMPLE	247736-003	Water	201624	08/13/13 14:58	1.0	1	headspace <= 1 mL
015	ihd15	MSS	247736-007	Water	201624	08/13/13 15:32	1.0	1	
016	ihd16	SAMPLE	247738-008	Water	201624	08/13/13 16:06	2.0	1	
017	ihd17	SAMPLE	247761-003	Water	201624	08/13/13 16:40	5.0	1	pH > 2
018	ihd18	SAMPLE	247761-006	Water	201624	08/13/13 17:14	10.0	1	pH > 2
019	ihd19	SAMPLE	247761-004	Water	201624	08/13/13 17:48	25.0	1	pH > 2
020	ihd20	SAMPLE	247818-010	Water	201624	08/13/13 18:22	1.0	1	pH > 2
021	ihd21	SAMPLE	247818-009	Water	201624	08/13/13 18:56	5.0	1	
022	ihd22	MS	QC701354	Water	201577	08/13/13 19:30	1.0	7 8 9 10 1	
023	ihd23	MSD	QC701355	Water	201577	08/13/13 20:04	1.0	7 8 9 10 1	
024	ihd24	X	HIGH GAS		201624	08/13/13 20:38	1.0	1	
025	ihd25	IB				08/13/13 21:12	201600	1	
026	ihd26	IB				08/13/13 21:47	201600	1	<<t

MJB 08/14/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 26.

MJB 08/14/13 : Matrix spikes were not performed for this analysis in batch 201624 due to insufficient sample amount.

Analyst: MJB Date: 08/14/13 Reviewer: BO Date: 08/14/13

Standards used: 1=S22913 2=S22624 3=S21953 4=S23013 5=S22920 6=S21857 7=S22975 8=S22927 9=S23020 10=S22435 11=S22949

Flags used: <<t=out of clock t=tune failure

Page 1 of 1

MSVOA WATER Prepsheet Curtis & Tompkins, Ltd.

Date: 4/10/13 **Batch #:** 201561

	Sample ID	Vial	pH <2	pH (if >2)	HS?	Dil'n flask	MS#	RR	DF	Comments	20 % ccv	hold	due	init date
1	247801-1	B	✓				9		X					
2	-2	A	✓							TB 1 vou				
3	-3	A	✓							EB				
4	247721-1	C	✓											
5	-2		✓											
6	-3		✓											
7	247722-1		✓											
8	247724-1		✓											
9	247738-4	A	✓							vou				
10	5		✓											
11	6		✓											
12	7		✓											
13	9		✓											
14	10		✓											
15	110	B	✓					1		TB Dirty Bromo hit				
16														
17														
18														
19														
20														
21														
22														

MSVOA WATER Prepsheet Curtis & Tompkins, Ltd.

Date: 8/13/13 **Batch #:** 20624

	Sample ID	Vial	pH <2	pH (if >2)	HS?	Dil'n flask	MS#	RR	DF	Comments	20% ccv ?	hold	due	init date
161	247736-001	A	✓				9		1x					AGB
2	-002	↓	✓						↓					
3	-003	B	✓					1	1x	Bromomethane MB Contamination				
4	↓ -006	A	✓			5			2x					
5	247761-003	C		7		8		1	5x	VC >LR				
6	-004	↓		7		10		1	25x	↓				
7	↓ -006	↓		7		3		1	10x	Ethylbz >LR				
8	MS 247736-004	FGH	✓					1	1x	QC 701354 Batch 201577 MSG				
9	MSD ↓	↓	✓					↓	↓	↓ 355 ↓ ↓				
10	247736-001	C	✓					1	1x	OD				
11	↓ -003	A	✓		1ml			↓	↓	↓				
12	247736-007	I	✓					1	1x	VC CO ✓				
13	↓ -MS	GHE	✓						↓	} NOT NEEDED				
14	↓ -MSD	↓	✓						↓					
15														
16	247816-9	B	✓			10			5					BO 8/12
17	↓ 10	B		7					1					
18														
19														
20														
21														
22														

MSVOA WATER Prepsheet

Curtis & Tompkins, Ltd.

Date: 8/14/13

Batch #: 2016T65 MB 8/17/13

	Sample ID	Vial	pH <2	pH (if >2)	HS?	Dil'n flask	MS#	RR	DF	Comments	20% ccv ?	hold	due	init date
16 1	247738-001	B	✓				8	1	1x	Sincere CO ✓		8/21	8/14	MB
17 2	247902-003	A	✓						1x					
3	-004		✓							SO_2				
4	-005		✓							↓				
5	-006		—							put off ; w/ VOA fridge & on a list				
6	-007		✓											
7	-008		✓											
8	-009		✓											
9	-010		✓											
10	-011		✓											
11	-012		✓											
12	-013		✓											
13	-014		✓											
14	-015		✓											
15	247933.1	B		7	1/5 mL				1	needs MA				
16														
17														
18														
19														
20														
21														
22														

Laboratory Job Number 247738

ANALYTICAL REPORT

Metals

Matrix: Water

Curtis & Tompkins, Ltd.

Chromium

Lab #:	247738	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Sampled:	08/07/13
Matrix:	Water	Received:	08/08/13
Units:	ug/L	Prepared:	08/14/13
Diln Fac:	1.000	Analyzed:	08/20/13
Batch#:	201705		

Field ID	Type	Lab ID	Result	RL	MDL
AST-INF	SAMPLE	247738-001	65	5.0	0.69
AST-EFF	SAMPLE	247738-002	67	5.0	0.69
GAC-02 INF	SAMPLE	247738-003	12	5.0	0.69
GAC-02 EFF	SAMPLE	247738-004	14	5.0	0.69
E-07R	SAMPLE	247738-005	43	5.0	0.69
E-12	SAMPLE	247738-008	37	5.0	0.69
E-17	SAMPLE	247738-009	140	5.0	0.69
E-117	SAMPLE	247738-010	140	5.0	0.69
	BLANK	QC701885	ND	5.0	0.69

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Chromium

Lab #:	247738	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Sampled:	08/07/13
Matrix:	Water	Received:	08/08/13
Units:	ug/L	Prepared:	08/14/13
Diln Fac:	1.000	Analyzed:	08/20/13
Batch#:	201705		

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
	BS		QC701886		200.0	211.2	106	80-120		
	BSD		QC701887		200.0	205.1	103	80-120	3	20
COG-05	MS	247736-004	QC701888	694.3	200.0	886.4	96	80-120		
COG-05	MSD	247736-004	QC701889		200.0	879.8	93	80-120	1	20
NE-04	MS	247736-007	QC701890	28.77	200.0	225.6	98	80-120		
NE-04	MSD	247736-007	QC701891		200.0	231.7	101	80-120	3	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Chromium

Lab #:	247738	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	COG-05	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	201705
MSS Lab ID:	247736-004	Sampled:	08/07/13
Lab ID:	QC702734	Received:	08/08/13
Matrix:	Water	Analyzed:	08/20/13

MSS Result	MSS RL	Result	RL	% Diff	Lim
694.3	5.000	680.3	25.00	2	10

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Chromium

Lab #:	247738	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	COG-05	Diln Fac:	1.000
Type:	Post Digest Spike	Batch#:	201705
MSS Lab ID:	247736-004	Sampled:	08/07/13
Lab ID:	QC702735	Received:	08/08/13
Matrix:	Water	Analyzed:	08/20/13

MSS Result	Spiked	Result	%REC	Limits
694.3	200.0	897.2	101	75-125

REPORTING SUMMARY FOR 247738 METALS Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CR	
247738-001	MET08	08/20/13 11:20	1.0	+	
247738-002	MET08	08/20/13 11:25	1.0	+	
247738-003	MET08	08/20/13 11:50	1.0	+	
247738-004	MET08	08/20/13 11:55	1.0	+	
247738-005	MET08	08/20/13 12:01	1.0	+	
247738-008	MET08	08/20/13 12:11	1.0	+	
247738-009	MET08	08/20/13 12:15	1.0	+	
247738-010	MET08	08/20/13 12:21	1.0	+	
QC701885	MET08	08/20/13 09:18	1.0	+	
QC701886	MET08	08/20/13 09:23	1.0	+	
QC701887	MET08	08/20/13 09:47	1.0	+	
QC701888	MET08	08/20/13 10:00	1.0	+	
QC701889	MET08	08/20/13 10:05	1.0	+	
QC701890	MET08	08/20/13 10:42	1.0	+	
QC701891	MET08	08/20/13 10:46	1.0	+	
QC702734	MET08	08/20/13 10:17	5.0	+	
QC702735	MET08	08/20/13 10:22	1.0	+	

ICP Data

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83334471

Instrument : MET08 Begun : 08/20/13 06:31
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	met08_sr_6010	ICALBLK				08/20/13 06:31	1.0		
002	met08_sr_6010	ICAL	CRI5.1			08/20/13 06:36	1.0	1	
003	met08_sr_6010	ICAL	CS100			08/20/13 06:41	1.0	2	
004	met08_sr_6010	ICAL	CS1K			08/20/13 06:45	1.0	3	
005	met08_sr_6010	ICAL	CS10K			08/20/13 06:50	1.0	4	
006	met08_sr_6010	ICAL	CS100K			08/20/13 06:55	1.0	5	
007	met08_sr_6010	ICV				08/20/13 07:01	1.0	6	
008	met08_sr_6010	ICB				08/20/13 07:06	1.0		
009	met08_sr_6010	ICSA				08/20/13 07:11	1.0	7	10:AL=490000
010	met08_sr_6010	ICSAB				08/20/13 07:25	1.0	8	5:AL=500000
011	met08_sr_6010	XCRI				08/20/13 07:30	1.0	9	
012	met08_sr_6010	CRI				08/20/13 07:34	1.0	9	
013	met08_sr_6010	BLANK	QC702416	Filtrate	201825	08/20/13 07:38	1.0		
014	met08_sr_6010	BS	QC702417	Filtrate	201825	08/20/13 07:44	1.0		
015	met08_sr_6010	BSD	QC702418	Filtrate	201825	08/20/13 07:48	1.0		
016	met08_sr_6010	MSS	247770-001	Filtrate	201825	08/20/13 07:52	1.0		1:CA=100000
017	met08_sr_6010	MS	QC702419	Filtrate	201825	08/20/13 07:57	1.0		2:CA=120000
018	met08_sr_6010	MSD	QC702420	Filtrate	201825	08/20/13 08:01	1.0		3:CA=130000
019	met08_sr_6010	MSS	247770-001	Filtrate	201825	08/20/13 08:05	1.0		1:CA=100000
020	met08_sr_6010	MSS	247770-001	Filtrate	201825	08/20/13 08:11	100.0		
021	met08_sr_6010	SER	QC702426	Filtrate	201825	08/20/13 08:16	5.0		
022	met08_sr_6010	CCV				08/20/13 08:21	1.0	10	
023	met08_sr_6010	CCB				08/20/13 08:26	1.0		
024	met08_sr_6010	PDS	QC702427	Filtrate	201825	08/20/13 08:31	1.0	11 12	1:CA=120000
025	met08_sr_6010	SAMPLE	247770-004	Filtrate	201825	08/20/13 08:36	1.0		1:CA=110000
026	met08_sr_6010	SAMPLE	247770-004	Filtrate	201825	08/20/13 08:41	1.0		1:CA=110000
027	met08_sr_6010	SAMPLE	247770-004	Filtrate	201825	08/20/13 08:46	100.0		
028	met08_sr_6010	MSS	247769-005	Filtrate	201671	08/20/13 08:51	5.0		3:MG=920000
029	met08_sr_6010	MS	QC701748	Filtrate	201671	08/20/13 08:58	5.0		
030	met08_sr_6010	MSD	QC701749	Filtrate	201671	08/20/13 09:04	5.0		
031	met08_sr_6010	SAMPLE	247769-002	Filtrate	201671	08/20/13 09:11	5.0		3:MG=1100000
032	met08_sr_6010	BLANK	QC701885	Water	201705	08/20/13 09:18	1.0		
033	met08_sr_6010	BS	QC701886	Water	201705	08/20/13 09:23	1.0		
034	met08_sr_6010	ICSAB				08/20/13 09:27	1.0	8	5:AL=500000
035	met08_sr_6010	CCV				08/20/13 09:33	1.0	10	
036	met08_sr_6010	XCCB				08/20/13 09:38	1.0		
037	met08_sr_6010	CCB				08/20/13 09:42	1.0		
038	met08_sr_6010	BSD	QC701887	Water	201705	08/20/13 09:47	1.0		
039	met08_sr_6010	BLANK	QC702684	Miscell.	201889	08/20/13 09:51	1.0		
040	met08_sr_6010	MSS	247736-004	Water	201705	08/20/13 09:56	1.0		3:CA=430000
041	met08_sr_6010	MS	QC701888	Water	201705	08/20/13 10:00	1.0		
042	met08_sr_6010	MSD	QC701889	Water	201705	08/20/13 10:05	1.0		
043	met08_sr_6010	SER	QC702426	Filtrate	201825	08/20/13 10:08	500.0		
044	met08_sr_6010	PDS	QC702427	Filtrate	201825	08/20/13 10:13	100.0	11 12	
045	met08_sr_6010	SER	QC702734	Water	201705	08/20/13 10:17	5.0		
046	met08_sr_6010	PDS	QC702735	Water	201705	08/20/13 10:22	1.0	11 12	
047	met08_sr_6010	MSS	247736-007	Water	201705	08/20/13 10:26	1.0		3:NA=370000
048	met08_sr_6010	CCV				08/20/13 10:31	1.0	10	
049	met08_sr_6010	CCB				08/20/13 10:36	1.0		
050	met08_sr_6010	MS	QC701890	Water	201705	08/20/13 10:42	1.0		
051	met08_sr_6010	MSD	QC701891	Water	201705	08/20/13 10:46	1.0		
052	met08_sr_6010	SAMPLE	247637-001	Water	201705	08/20/13 10:50	1.0		2:SN=440000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83334471

Instrument : MET08 Begun : 08/20/13 06:31
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
053	met08_sr_6010	SAMPLE	247736-002	Water	201705	08/20/13 10:56	1.0		3:CA=210000
054	met08_sr_6010	SAMPLE	247736-003	Water	201705	08/20/13 11:01	1.0		2:CA=240000
055	met08_sr_6010	SAMPLE	247736-005	Water	201705	08/20/13 11:05	1.0		2:NA=430000
056	met08_sr_6010	SAMPLE	247736-006	Water	201705	08/20/13 11:09	1.0		2:NA=390000
057	met08_sr_6010	SAMPLE	247736-010	Water	201705	08/20/13 11:15	1.0		3:CA=210000
058	met08_sr_6010	SAMPLE	247738-001	Water	201705	08/20/13 11:20	1.0		3:NA=390000
059	met08_sr_6010	SAMPLE	247738-002	Water	201705	08/20/13 11:25	1.0		3:NA=400000
060	met08_sr_6010	ICSAB				08/20/13 11:30	1.0	8	5:MG=500000
061	met08_sr_6010	CCV				08/20/13 11:36	1.0	10	
062	met08_sr_6010	XCCB				08/20/13 11:41	1.0		
063	met08_sr_6010	CCB				08/20/13 11:45	1.0		
064	met08_sr_6010	SAMPLE	247738-003	Water	201705	08/20/13 11:50	1.0		1:CA=200000
065	met08_sr_6010	SAMPLE	247738-004	Water	201705	08/20/13 11:55	1.0		1:CA=200000
066	met08_sr_6010	SAMPLE	247738-005	Water	201705	08/20/13 12:01	1.0		2:NA=360000
067	met08_sr_6010	SER	QC702426	Filtrate	201825	08/20/13 12:06	500.0		
068	met08_sr_6010	SAMPLE	247738-008	Water	201705	08/20/13 12:11	1.0		3:CA=320000
069	met08_sr_6010	SAMPLE	247738-009	Water	201705	08/20/13 12:15	1.0		3:CA=400000
070	met08_sr_6010	SAMPLE	247738-010	Water	201705	08/20/13 12:21	1.0		3:CA=400000
071	met08_sr_6010	SAMPLE	247789-001	Water	201705	08/20/13 12:26	1.0		
072	met08_sr_6010	SAMPLE	247789-002	Water	201705	08/20/13 12:30	1.0		
073	met08_sr_6010	SAMPLE	247789-003	Water	201705	08/20/13 12:35	1.0		
074	met08_sr_6010	CCV				08/20/13 12:39	1.0	10	
075	met08_sr_6010	CCB				08/20/13 12:45	1.0		
076	met08_sr_6010	BLANK	QC702171	Water	201774	08/20/13 12:50	1.0		
077	met08_sr_6010	BS	QC702172	Water	201774	08/20/13 12:55	1.0		
078	met08_sr_6010	BSD	QC702173	Water	201774	08/20/13 12:59	1.0		
079	met08_sr_6010	MSS	247818-002	Water	201774	08/20/13 13:03	1.0		3:CA=280000
080	met08_sr_6010	MS	QC702174	Water	201774	08/20/13 13:07	1.0		
081	met08_sr_6010	MSD	QC702175	Water	201774	08/20/13 13:12	1.0		
082	met08_sr_6010	SER	QC702176	Water	201774	08/20/13 13:16	5.0		
083	met08_sr_6010	PDS	QC702177	Water	201774	08/20/13 13:21	1.0	11 12	
084	met08_sr_6010	SAMPLE	247818-001	Water	201774	08/20/13 13:25	1.0		3:CA=210000
085	met08_sr_6010	SAMPLE	247818-003	Water	201774	08/20/13 13:30	1.0		2:CA=230000
086	met08_sr_6010	ICSAB				08/20/13 13:35	1.0	8	5:MG=490000
087	met08_sr_6010	CCV				08/20/13 13:40	1.0	10	
088	met08_sr_6010	CCB				08/20/13 13:45	1.0		
089	met08_sr_6010	SAMPLE	247818-005	Water	201774	08/20/13 13:51	1.0		3:NA=370000
090	met08_sr_6010	SAMPLE	247818-006	Water	201774	08/20/13 13:56	1.0		2:NA=200000
091	met08_sr_6010	SAMPLE	247818-007	Water	201774	08/20/13 14:00	1.0		2:NA=430000
092	met08_sr_6010	SAMPLE	247818-008	Water	201774	08/20/13 14:04	1.0		2:CA=220000
093	met08_sr_6010	SAMPLE	247818-009	Water	201774	08/20/13 14:09	1.0		2:NA=250000
094	met08_sr_6010	SAMPLE	247818-010	Water	201774	08/20/13 14:15	1.0		2:NA=420000
095	met08_sr_6010	SAMPLE	247818-011	Water	201774	08/20/13 14:20	1.0		3:NA=470000
096	met08_sr_6010	SAMPLE	247818-012	Water	201774	08/20/13 14:25	1.0		2:NA=490000
097	met08_sr_6010	SAMPLE	247818-013	Water	201774	08/20/13 14:29	1.0		3:CA=450000
098	met08_sr_6010	SAMPLE	247818-021	Water	201774	08/20/13 14:34	1.0		2:NA=190000
099	met08_sr_6010	CCV				08/20/13 14:39	1.0	10	
100	met08_sr_6010	CCB				08/20/13 14:44	1.0		
101	met08_sr_6010	SAMPLE	247818-022	Water	201774	08/20/13 14:49	1.0		3:CA=440000
102	met08_sr_6010	SAMPLE	247832-001	Water	201774	08/20/13 14:54	1.0		1:NA=110000
103	met08_sr_6010	SAMPLE	247832-002	Water	201774	08/20/13 14:59	1.0		
104	met08_sr_6010	SAMPLE	247832-003	Water	201774	08/20/13 15:03	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83334471

Instrument : MET08 Begun : 08/20/13 06:31
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
105	met08_sr_6010	SAMPLE	247834-001	Water	201774	08/20/13 15:07	1.0		
106	met08_sr_6010	SAMPLE	247834-002	Water	201774	08/20/13 15:12	1.0		
107	met08_sr_6010	SAMPLE	247835-001	Water	201774	08/20/13 15:17	1.0		
108	met08_sr_6010	BLANK	QC702181	Water	201775	08/20/13 15:22	1.0		
109	met08_sr_6010	BS	QC702182	Water	201775	08/20/13 15:27	1.0		
110	met08_sr_6010	BSD	QC702183	Water	201775	08/20/13 15:32	1.0		
111	met08_sr_6010	ICSAB				08/20/13 15:36	1.0	8	5:MG=490000
112	met08_sr_6010	CCV				08/20/13 15:41	1.0	10	
113	met08_sr_6010	CCB				08/20/13 15:47	1.0		
114	met08_sr_6010	MSS	247833-001	Water	201775	08/20/13 15:52	1.0		1:CA=250000
115	met08_sr_6010	MS	QC702184	Water	201775	08/20/13 15:56	1.0		2:CA=290000
116	met08_sr_6010	MSD	QC702185	Water	201775	08/20/13 16:00	1.0		2:CA=290000
117	met08_sr_6010	SER	QC702186	Water	201775	08/20/13 16:04	5.0		
118	met08_sr_6010	PDS	QC702187	Water	201775	08/20/13 16:09	1.0	11 12	2:CA=270000
119	met08_sr_6010	SAMPLE	247833-002	Water	201775	08/20/13 16:13	1.0		
120	met08_sr_6010	SAMPLE	247833-003	Water	201775	08/20/13 16:17	1.0		
121	met08_sr_6010	SAMPLE	247833-004	Water	201775	08/20/13 16:21	1.0		1:CA=110000
122	met08_sr_6010	SAMPLE	247836-001	Water	201775	08/20/13 16:25	1.0		1:CA=120000
123	met08_sr_6010	SAMPLE	247837-001	Water	201775	08/20/13 16:31	1.0		
124	met08_sr_6010	CCV				08/20/13 16:36	1.0	10	
125	met08_sr_6010	CCB				08/20/13 16:41	1.0		
126	met08_sr_6010	SAMPLE	247838-001	Water	201775	08/20/13 16:46	1.0		
127	met08_sr_6010	SAMPLE	247844-031	Water	201775	08/20/13 16:51	1.0		
128	met08_sr_6010	SAMPLE	247876-005	Water	201775	08/20/13 16:55	1.0		
129	met08_sr_6010	SAMPLE	247885-001	Water	201775	08/20/13 17:01	1.0		1:NA=100000
130	met08_sr_6010	SAMPLE	247885-002	Water	201775	08/20/13 17:06	1.0		1:NA=200000
131	met08_sr_6010	SAMPLE	247885-003	Water	201775	08/20/13 17:11	1.0		1:NA=240000
132	met08_sr_6010	BLANK	QC702103	Soil	201759	08/20/13 17:16	1.0		
133	met08_sr_6010	BS	QC702104	Soil	201759	08/20/13 17:21	1.0		
134	met08_sr_6010	BSD	QC702105	Soil	201759	08/20/13 17:25	1.0		
135	met08_sr_6010	MSS	247844-001	Soil	201759	08/20/13 17:30	1.0		3:FE=300000
136	met08_sr_6010	ICSAB				08/20/13 17:33	1.0	8	5:AL=490000
137	met08_sr_6010	CCV				08/20/13 17:38	1.0	10	
138	met08_sr_6010	CCB				08/20/13 17:44	1.0		
139	met08_sr_6010	MS	QC702106	Soil	201759	08/20/13 17:49	1.0		2:FE=370000
140	met08_sr_6010	MSD	QC702107	Soil	201759	08/20/13 17:52	1.0		1:FE=360000
141	met08_sr_6010	SAMPLE	247844-005	Soil	201759	08/20/13 17:55	1.0		3:FE=450000
142	met08_sr_6010	SAMPLE	247844-006	Soil	201759	08/20/13 17:59	1.0		4:FE=410000
143	met08_sr_6010	SAMPLE	247844-015	Soil	201759	08/20/13 18:02	1.0		2:FE=260000
144	met08_sr_6010	SAMPLE	247844-019	Soil	201759	08/20/13 18:05	1.0		7:FE=590000
145	met08_sr_6010	SAMPLE	247844-020	Soil	201759	08/20/13 18:11	1.0		5:CA=700000
146	met08_sr_6010	SAMPLE	247844-021	Soil	201759	08/20/13 18:14	1.0		3:FE=380000
147	met08_sr_6010	SAMPLE	247844-034	Soil	201759	08/20/13 18:17	1.0		2:FE=320000
148	met08_sr_6010	SAMPLE	247844-036	Soil	201759	08/20/13 18:20	1.0		2:FE=340000
149	met08_sr_6010	CCV				08/20/13 18:24	1.0	10	
150	met08_sr_6010	CCB				08/20/13 18:29	1.0		
151	met08_sr_6010	SAMPLE	247844-037	Soil	201759	08/20/13 18:34	1.0		2:FE=440000
152	met08_sr_6010	SAMPLE	247844-038	Soil	201759	08/20/13 18:38	1.0		3:FE=400000
153	met08_sr_6010	SAMPLE	247844-040	Soil	201759	08/20/13 18:41	1.0		3:FE=380000
154	met08_sr_6010	SAMPLE	247844-042	Soil	201759	08/20/13 18:44	1.0		3:FE=390000
155	met08_sr_6010	SAMPLE	247844-043	Soil	201759	08/20/13 18:48	1.0		2:AL=280000
156	met08_sr_6010	SAMPLE	247844-044	Soil	201759	08/20/13 18:51	1.0		2:FE=620000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83334471

Instrument : MET08 Begun : 08/20/13 06:31
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
157	met08_sr_6010	SAMPLE	247844-045	Soil	201759	08/20/13 18:56	1.0		2:FE=380000
158	met08_sr_6010	SAMPLE	247844-046	Soil	201759	08/20/13 19:00	1.0		4:FE=400000
159	met08_sr_6010	SAMPLE	247844-047	Soil	201759	08/20/13 19:03	1.0		3:FE=370000
160	met08_sr_6010	SAMPLE	247844-048	Soil	201759	08/20/13 19:06	1.0		4:FE=900000
161	met08_sr_6010	ICSAB				08/20/13 19:10	1.0	8	5:AL=510000
162	met08_sr_6010	CCV				08/20/13 19:15	1.0	10	
163	met08_sr_6010	CCB				08/20/13 19:20	1.0		
164	met08_sr_6010	SAMPLE	247844-049	Soil	201759	08/20/13 19:26	1.0		2:FE=410000
165	met08_sr_6010	CCV				08/20/13 19:29	1.0	10	
166	met08_sr_6010	CCB				08/20/13 19:34	1.0		
167	met08_sr_6010	ICSAB				08/20/13 19:39	1.0	8	5:AL=490000

NT 08/21/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 167.

Standards used: 1=S22714 2=S22716 3=S22715 4=S22717 5=S22718 6=S22721 7=S22719 8=S22720 9=S22723 10=S22722 11=S21652 12=S21653

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83334471

Date : 08/20/13 Reference : met08_sr_6010
Sequence : MET08 08/20/13 Analyzed : 08/20/13 06:36

#	Type	Sample ID	Y A
		ICAL STD	2998436
		LOWER LIMIT	899531
		UPPER LIMIT	5996871
008	ICB		3044067
009	ICSA		2493534
010	ICSAB		2514061
013	BLANK	QC702416	3084150
014	BS	QC702417	2961108
015	BSD	QC702418	2973889
016	MSS	247770-001	2813126
017	MS	QC702419	2793842
018	MSD	QC702420	2769602
019	MSS	247770-001	2808006
020	MSS	247770-001	2979308
021	SER	QC702426	2873762
022	CCV		2899207
023	CCB		3024542
024	PDS	QC702427	2750400
025	SAMPLE	247770-004	2783534
026	SAMPLE	247770-004	2754187
027	SAMPLE	247770-004	2951708
028	MSS	247769-005	1979367
029	MS	QC701748	1980570
030	MSD	QC701749	1971311
031	SAMPLE	247769-002	1923456
032	BLANK	QC701885	2979456
033	BS	QC701886	2837481
034	ICSAB		2456349
035	CCV		2824987
037	CCB		3003125
038	BSD	QC701887	2871826
039	BLANK	QC702684	3074095
040	MSS	247736-004	2541100
041	MS	QC701888	2548727
042	MSD	QC701889	2577816
043	SER	QC702426	3198443
044	PDS	QC702427	2924283
045	SER	QC702734	2885314
046	PDS	QC702735	2545968
047	MSS	247736-007	2669203
048	CCV		2944355
049	CCB		3124191
050	MS	QC701890	2616973
051	MSD	QC701891	2598776
052	SAMPLE	247637-001	3170630
053	SAMPLE	247736-002	2694317
054	SAMPLE	247736-003	2695840
055	SAMPLE	247736-005	2667047
056	SAMPLE	247736-006	2631222
057	SAMPLE	247736-010	2686624
058	SAMPLE	247738-001	2613869

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83334471

Date : 08/20/13 Reference : met08_sr_6010
Sequence : MET08 08/20/13 Analyzed : 08/20/13 06:36

#	Type	Sample ID	Y A
059	SAMPLE	247738-002	2590949
060	ICSAB		2468564
061	CCV		2864998
063	CCB		3078455
064	SAMPLE	247738-003	2690463
065	SAMPLE	247738-004	2692175
066	SAMPLE	247738-005	2616130
067	SER	QC702426	2980749
068	SAMPLE	247738-008	2626667
069	SAMPLE	247738-009	2596650
070	SAMPLE	247738-010	2564587
071	SAMPLE	247789-001	2830385
072	SAMPLE	247789-002	2825183
073	SAMPLE	247789-003	2931864
074	CCV		2845645
075	CCB		3024855
076	BLANK	QC702171	3062294
077	BS	QC702172	2912067
078	BSD	QC702173	2919198
079	MSS	247818-002	2700120
080	MS	QC702174	2661535
081	MSD	QC702175	2655855
082	SER	QC702176	2889617
083	PDS	QC702177	2658470
084	SAMPLE	247818-001	2514085
085	SAMPLE	247818-003	2651154
086	ICSAB		2485925
087	CCV		2851119
088	CCB		3013000
089	SAMPLE	247818-005	2667662
090	SAMPLE	247818-006	2738889
091	SAMPLE	247818-007	2623127
092	SAMPLE	247818-008	2738724
093	SAMPLE	247818-009	2723911
094	SAMPLE	247818-010	2655424
095	SAMPLE	247818-011	2603166
096	SAMPLE	247818-012	2595463
097	SAMPLE	247818-013	2650767
098	SAMPLE	247818-021	2792563
099	CCV		2912752
100	CCB		3081390
101	SAMPLE	247818-022	2667706
102	SAMPLE	247832-001	2887554
103	SAMPLE	247832-002	2867210
104	SAMPLE	247832-003	2883743
105	SAMPLE	247834-001	2905092
106	SAMPLE	247834-002	2928062
107	SAMPLE	247835-001	2911168
108	BLANK	QC702181	3124166
109	BS	QC702182	2940831
110	BSD	QC702183	2961024
111	ICSAB		2540577

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83334471

Date : 08/20/13 Reference : met08_sr_6010
Sequence : MET08 08/20/13 Analyzed : 08/20/13 06:36

#	Type	Sample ID	Y A
112	CCV		2959268
113	CCB		3069913
114	MSS	247833-001	2831274
115	MS	QC702184	2762347
116	MSD	QC702185	2722808
117	SER	QC702186	2870342
118	PDS	QC702187	2752491
119	SAMPLE	247833-002	2882771
120	SAMPLE	247833-003	2835202
121	SAMPLE	247833-004	2811288
122	SAMPLE	247836-001	2802550
123	SAMPLE	247837-001	2860145
124	CCV		2889847
125	CCB		3023018
126	SAMPLE	247838-001	2920726
127	SAMPLE	247844-031	3034426
128	SAMPLE	247876-005	3045086
129	SAMPLE	247885-001	2811136
130	SAMPLE	247885-002	2760622
131	SAMPLE	247885-003	2760624
132	BLANK	QC702103	3115417
133	BS	QC702104	2889478
134	BSD	QC702105	2907873
135	MSS	247844-001	2871986
136	ICSAB		2454771
137	CCV		2834617
138	CCB		2940834
139	MS	QC702106	2740734
140	MSD	QC702107	2819177
141	SAMPLE	247844-005	2912225
142	SAMPLE	247844-006	2862711
143	SAMPLE	247844-015	3011436
144	SAMPLE	247844-019	2744079
145	SAMPLE	247844-020	2689154
146	SAMPLE	247844-021	2902785
147	SAMPLE	247844-034	2906716
148	SAMPLE	247844-036	2947373
149	CCV		2859766
150	CCB		3001554
151	SAMPLE	247844-037	2907734
152	SAMPLE	247844-038	2905992
153	SAMPLE	247844-040	2853038
154	SAMPLE	247844-042	2968687
155	SAMPLE	247844-043	2900706
156	SAMPLE	247844-044	3137312
157	SAMPLE	247844-045	3022197
158	SAMPLE	247844-046	2967169
159	SAMPLE	247844-047	2925415
160	SAMPLE	247844-048	3263284
161	ICSAB		2461980
162	CCV		2895247
163	CCB		3086446

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83334471

Date : 08/20/13 Reference : met08_sr_6010
Sequence : MET08 08/20/13 Analyzed : 08/20/13 06:36

#	Type	Sample ID	Y A
164	SAMPLE	247844-049	3000530
165	CCV		2843113
166	CCB		3057948
167	ICSAB		2513632

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 247738 METALS Water: EPA 6010B

Inst : MET08 Reviewer : ---
Calnum : 83334471001 Date : 20-AUG-2013 06:31
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	met08_sr_6010	83334471002	CRI5.1	20-AUG-2013 06:36	S22714
L2	met08_sr_6010	83334471003	CS100	20-AUG-2013 06:41	S22716
L3	met08_sr_6010	83334471004	CS1K	20-AUG-2013 06:45	S22715
L4	met08_sr_6010	83334471005	CS10K	20-AUG-2013 06:50	S22717
L5	met08_sr_6010	83334471006	CS100K	20-AUG-2013 06:55	S22718

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Chromium	A	111.90	107.82	105.91	106.09		LOR0	0.00000	0.00943		107.93	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Chromium	A	5.0000	5	100.00	2	1000.0	0	10000	0		

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 247738 METALS Water
EPA 6010B

Inst : MET08
Calnum : 83334471001 Cal Date : 20-AUG-2013

ICV 83334471007 (20-AUG-2013) stds: S22721

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Chromium	A	5000	4985	ug/L	0	10	

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR 247738 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471009 File : met08_sr_6010 Time : 20-AUG-2013 07:11
Cal : 83334471001 Caldate : 20-AUG-2013
Standards: S22719

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19420	ug/L	97
Copper	A	20000	20460	ug/L	102
Manganese	A	20000	18770	ug/L	94
Nickel	A	20000	18200	ug/L	91
Vanadium	A	20000	19740	ug/L	99
Aluminum	R	500000	491400	ug/L	98
Calcium	R	500000	478000	ug/L	96
Iron	R	200000	188300	ug/L	94
Magnesium	R	500000	489600	ug/L	98
Titanium	R	20000	21150	ug/L	106

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	2493534	-16.84

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 247738 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471010 File : met08_sr_6010 Time : 20-AUG-2013 07:25
Cal : 83334471001 Caldate : 20-AUG-2013
Standards: S22720

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	511.6	ug/L	2	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	2514061	-16.15

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247738 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471022 File : met08_sr_6010 Time : 20-AUG-2013 08:21
Cal : 83334471001 Caldate : 20-AUG-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	107.93	104.68	5000	4934	ug/L	-1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	2899207	-3.31

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 247738 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471023 File : met08_sr_6010 Time : 20-AUG-2013 08:26
Cal : 83334471001 Caldate : 20-AUG-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	3024542	0.87

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 247738 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471034 File : met08_sr_6010 Time : 20-AUG-2013 09:27
Cal : 83334471001 Caldate : 20-AUG-2013
Standards: S22720

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	511.0	ug/L	2	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	2456349	-18.08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247738 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471035 File : met08_sr_6010 Time : 20-AUG-2013 09:33
Cal : 83334471001 Caldate : 20-AUG-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	107.93	106.78	5000	5033	ug/L	1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	2824987	-5.78

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 247738 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471037 File : met08_sr_6010 Time : 20-AUG-2013 09:42
Cal : 83334471001 Caldate : 20-AUG-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	3003125	0.16

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247738 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471048 File : met08_sr_6010 Time : 20-AUG-2013 10:31
Cal : 83334471001 Caldate : 20-AUG-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	107.93	104.41	5000	4921	ug/L	-2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	2944355	-1.80

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 247738 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471049 File : met08_sr_6010 Time : 20-AUG-2013 10:36
Cal : 83334471001 Caldate : 20-AUG-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	3124191	4.19

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 247738 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471060 File : met08_sr_6010 Time : 20-AUG-2013 11:30
Cal : 83334471001 Caldate : 20-AUG-2013
Standards: S22720

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	514.6	ug/L	3	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	2468564	-17.67

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247738 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471061 File : met08_sr_6010 Time : 20-AUG-2013 11:36
Cal : 83334471001 Caldate : 20-AUG-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	107.93	108.19	5000	5099	ug/L	2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	2864998	-4.45

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 247738 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471063 File : met08_sr_6010 Time : 20-AUG-2013 11:45
Cal : 83334471001 Caldate : 20-AUG-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	3078455	2.67

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247738 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471074 File : met08_sr_6010 Time : 20-AUG-2013 12:39
Cal : 83334471001 Caldate : 20-AUG-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	107.93	109.03	5000	5139	ug/L	3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	2845645	-5.10

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 247738 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471075 File : met08_sr_6010 Time : 20-AUG-2013 12:45
Cal : 83334471001 Caldate : 20-AUG-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	3024855	0.88

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 247738 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471086 File : met08_sr_6010 Time : 20-AUG-2013 13:35
Cal : 83334471001 Caldate : 20-AUG-2013
Standards: S22720

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	503.3	ug/L	1	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	2485925	-17.09

SAMPLE PREPARATION SUMMARY

Batch # : 201705 Analysis : ICAP
Started By : MRN Prep Date : 14-AUG-2013 15:30 Finished By : MRN
Method : 3010A SOP Version : 3010A_icp_rv15 Units : mL
Spike #1 ID : S21652 Spike #2 ID : S21653

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
247637-001		Water	50	50	1	1.0						RCRA/ICP	No digest
247736-002		Water	50	50	1	1.0						CR	
247736-003		Water	50	50	1	1.0						CR	
247736-004		Water	50	50	1	1.0						CR	
247736-005		Water	50	50	1	1.0						CR	
247736-006		Water	50	50	1	1.0						CR	
247736-007		Water	50	50	1	1.0						CR	
247736-010		Water	50	50	1	1.0						CR	
247738-001		Water	50	50	1	1.0						CR	
247738-002		Water	50	50	1	1.0						CR	
247738-003		Water	50	50	1	1.0						CR	
247738-004		Water	50	50	1	1.0						CR	
247738-005		Water	50	50	1	1.0						CR	
247738-008		Water	50	50	1	1.0						CR	
247738-009		Water	50	50	1	1.0						CR	
247738-010		Water	50	50	1	1.0						CR	
247789-001		Water	50	50	1	1.0						T22/ICP	
247789-002		Water	50	50	1	1.0						T22/ICP	
247789-003		Water	50	50	1	1.0						T22/ICP	
QC701885	BLANK	Water	50	50	1	1.0							
QC701886	BS	Water	50	50	1	1.0		.5	.5				
QC701887	BSD	Water	50	50	1	1.0		.5	.5				
QC701888	MS	Water	50	50	1	1.0		.5	.5				
QC701889	MSD	Water	50	50	1	1.0		.5	.5				
QC701890	MS	Water	50	50	1	1.0		.5	.5				
QC701891	MSD	Water	50	50	1	1.0		.5	.5				
QC702734	SER	Water	50	50	1	1.0							
QC702735	PDS	Water	50	50	1	1.0							

Analyst: NT Date: 08/20/13 Reviewer: PRW Date: 08/20/13

Water Digestion for ICP

Curtis & Tompkins, Ltd.

LIMS Batch #: 201705
Digested by: MN
Date Digested: 8/14/13

Digestion Method
☒ EPA 3010a for ICP
☐ EPA 200.7
☐ _____

BK3443
Page 91

Lvl.	Sample #	Container ID	Volume Sample(mL)	Final Volume (mL)	Filtered? (y/n)	ID Π	Comments
	BLK		☒ 50 ☐	☒ 50 ☐	N	✓	
	BS		☒ 50 ☐	☒ 50 ☐		✓	
	BSD		☒ 50 ☐	☒ 50 ☐		✓	
III	247736-002	D	☒ 50 ☐	☒ 50 ☐		✓	
5	-003	D	☒ 50 ☐	☒ 50 ☐		✓	
	-004	J	☒ 50 ☐	☒ 50 ☐		✓	
	-004 MS		☒ 50 ☐	☒ 50 ☐		✓	
	-004 MSD		☒ 50 ☐	☒ 50 ☐		✓	
	-005	D	☒ 50 ☐	☒ 50 ☐		✓	
10	-006	C	☒ 50 ☐	☒ 50 ☐		✓	
	-007	J	☒ 50 ☐	☒ 50 ☐		✓	
	-007 MS		☒ 50 ☐	☒ 50 ☐		✓	
	-007 MSD		☒ 50 ☐	☒ 50 ☐		✓	
	-010	D	☒ 50 ☐	☒ 50 ☐		✓	
III 15	247738-001	D	☒ 50 ☐	☒ 50 ☐		✓	
	-002		☒ 50 ☐	☒ 50 ☐		✓	
	-003		☒ 50 ☐	☒ 50 ☐		✓	
	-004		☒ 50 ☐	☒ 50 ☐		✓	
	-005		☒ 50 ☐	☒ 50 ☐		✓	
20	-008	B	☒ 50 ☐	☒ 50 ☐		✓	
	-009	D	☒ 50 ☐	☒ 50 ☐		✓	
	-010	D	☒ 50 ☐	☒ 50 ☐		✓	
	247789-001	E	☒ 50 ☐	☒ 50 ☐		✓	
	-002		☒ 50 ☐	☒ 50 ☐		✓	
	-003		☒ 50 ☐	☒ 50 ☐		✓	

	Reagent ID or LIMS #	Initials / Date
Digestion tubes, lot #	162909-261	MN 8/14/13
0.5 mL of spike solution (Std1) was added to all spikes	S21652	
0.5 mL of spike solution (Std2) was added to all spikes	S21653	
Digestion Temperature (°C), Block and Probe Location	95°A / 3	
digestion begun at (time)	3:30pm	
1:1 HCl	1830-052213	
concentrated HNO3	3390 JTB	
digestion ended at (time)	9:00pm	
☒ filtered thru' Whatman # 541	~~45~~ 252262 MN 8/14/13	
MN 8/14/13 Relinquished to ICP group	ICAP	

8/14/13
Prep Chemist / Date

Continued from page 1.
Continued on page 1.

Reviewed by / Date

Water Digestion for ICP

Curtis & Tompkins, Ltd.

LIMS Batch #: 201705
Digested by: JDB
Date Digested: 8.15.13

Digestion Method
☑ EPA 3010a for ICP
☐ EPA 200.7
☐ _____

BK3443
Page 92

Lvl.	Sample #	Container ID	Volume Sample(mL)	Final Volume (mL)	Filtered? (y/n)	ID II	Comments
II	2471637-001		☑ 50 ☐ ____	☑ 50 ☐ ____	N	✓	Sampled from Corrosive waste, no digest
			☐ 50 ☐ ____	☐ 50 ☐ ____			
			☐ 50 ☐ ____	☐ 50 ☐ ____			
			☐ 50 ☐ ____	☐ 50 ☐ ____			
5			☐ 50 ☐ ____	☐ 50 ☐ ____			
			☐ 50 ☐ ____	☐ 50 ☐ ____			
			☐ 50 ☐ ____	☐ 50 ☐ ____			
			☐ 50 ☐ ____	☐ 50 ☐ ____			
			☐ 50 ☐ ____	☐ 50 ☐ ____			
10			☐ 50 ☐ ____	☐ 50 ☐ ____			
			☐ 50 ☐ ____	☐ 50 ☐ ____			
			☐ 50 ☐ ____	☐ 50 ☐ ____			
			☐ 50 ☐ ____	☐ 50 ☐ ____			
			☐ 50 ☐ ____	☐ 50 ☐ ____			
15			☐ 50 ☐ ____	☐ 50 ☐ ____			
			☐ 50 ☐ ____	☐ 50 ☐ ____			
			☐ 50 ☐ ____	☐ 50 ☐ ____			
			☐ 50 ☐ ____	☐ 50 ☐ ____			
			☐ 50 ☐ ____	☐ 50 ☐ ____			
20			☐ 50 ☐ ____	☐ 50 ☐ ____			
			☐ 50 ☐ ____	☐ 50 ☐ ____			
			☐ 50 ☐ ____	☐ 50 ☐ ____			
			☐ 50 ☐ ____	☐ 50 ☐ ____			
			☐ 50 ☐ ____	☐ 50 ☐ ____			
			☐ 50 ☐ ____	☐ 50 ☐ ____			

JDB 8.15.13

	Reagent ID or LIMS #	Initials / Date
Digestion tubes, lot #	162909-2601	JDB 8.15.13
0.5 mL of spike solution (Std1) was added to all spikes	921652	
0.5 mL of spike solution (Std2) was added to all spikes	921653	
Digestion Temperature (°C), Block and Probe Location	NA NA	
digestion begun at (time)	09:30	
1:1 HCl	40272	
concentrated HNO3	3390	
digestion ended at (time)	NA	
☐ filtered thru' Whatman # 541	NA	
Relinquished to ICP group	JDB	

JDB 8.15.13
Prep Chemist / Date

Continued from page 91
Continued on page ____

Reviewed by / Date

Laboratory Job Number 247738

ANALYTICAL REPORT

Metals

Matrix: Filtrate

Curtis & Tompkins, Ltd.

Dissolved Chromium

Lab #:	247738	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Sampled:	08/07/13
Matrix:	Filtrate	Received:	08/08/13
Units:	ug/L	Prepared:	08/13/13
Diln Fac:	1.000	Analyzed:	08/16/13
Batch#:	201670		

Field ID	Type	Lab ID	Result	RL	MDL
AST-INF	SAMPLE	247738-001	65	5.0	0.63
AST-EFF	SAMPLE	247738-002	53	5.0	0.63
GAC-02 INF	SAMPLE	247738-003	9.0	5.0	0.63
GAC-02 EFF	SAMPLE	247738-004	1.7 J	5.0	0.63
E-07R	SAMPLE	247738-005	35	5.0	0.63
E-12	SAMPLE	247738-008	ND	5.0	0.63
E-17	SAMPLE	247738-009	130	5.0	0.63
E-117	SAMPLE	247738-010	130	5.0	0.63
	BLANK	QC701730	ND	5.0	0.63

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Chromium

Lab #:	247738	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Sampled:	08/07/13
Matrix:	Filtrate	Received:	08/08/13
Units:	ug/L	Prepared:	08/13/13
Diln Fac:	1.000	Analyzed:	08/16/13
Batch#:	201670		

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
	BS		QC701731		200.0	194.0	97	80-120		
	BSD		QC701732		200.0	201.8	101	80-120	4	20
COG-05	MS	247736-004	QC701733	<0.6258	200.0	198.4	99	74-120		
COG-05	MSD	247736-004	QC701734		200.0	197.1	99	74-120	1	20
NE-04	MS	247736-007	QC701735	25.81	200.0	224.1	99	74-120		
NE-04	MSD	247736-007	QC701736		200.0	219.1	97	74-120	2	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Chromium

Lab #:	247738	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	COG-05	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	201670
MSS Lab ID:	247736-004	Sampled:	08/07/13
Lab ID:	QC701737	Received:	08/08/13
Matrix:	Filtrate	Analyzed:	08/16/13

MSS Result	MSS RL	Result	RL	% Diff	Lim
ND	5.000	ND	25.00	NC	10

NC= Not Calculated
ND= Not Detected at or above MDL
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Chromium

Lab #:	247738	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	COG-05	Diln Fac:	1.000
Type:	Post Digest Spike	Batch#:	201670
MSS Lab ID:	247736-004	Sampled:	08/07/13
Lab ID:	QC701738	Received:	08/08/13
Matrix:	Filtrate	Analyzed:	08/16/13

MSS Result	Spiked	Result	%REC	Limits
<0.6258	200.0	205.9	103	75-125

REPORTING SUMMARY FOR 247738 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CR	
247738-001	MET09	08/16/13 20:27	1.0	+	
247738-002	MET09	08/16/13 20:35	1.0	+	
247738-003	MET09	08/16/13 20:44	1.0	+	
247738-004	MET09	08/16/13 20:49	1.0	+	
247738-005	MET09	08/16/13 20:54	1.0	+	
247738-008	MET09	08/16/13 21:02	1.0	+	
247738-009	MET09	08/16/13 21:10	1.0	+	
247738-010	MET09	08/16/13 21:30	1.0	+	
QC701730	MET09	08/16/13 18:03	1.0	+	
QC701731	MET09	08/16/13 18:08	1.0	+	
QC701732	MET09	08/16/13 18:12	1.0	+	
QC701733	MET09	08/16/13 18:40	1.0	+	
QC701734	MET09	08/16/13 18:47	1.0	+	
QC701735	MET09	08/16/13 19:15	1.0	+	
QC701736	MET09	08/16/13 19:22	1.0	+	
QC701737	MET09	08/16/13 18:54	5.0	+	
QC701738	MET09	08/16/13 18:59	1.0	+	

ICP Data

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 93328700

Instrument : MET09 Begun : 08/16/13 06:20
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	met09_sn	ICALBLK					08/16/13 06:20	1.0		
002	met09_sn	ICAL	CRI5.1				08/16/13 06:25	1.0	1	
003	met09_sn	ICAL	CS100				08/16/13 06:30	1.0	2	
004	met09_sn	ICAL	CS1K				08/16/13 06:34	1.0	3	
005	met09_sn	ICAL	CS10K				08/16/13 06:37	1.0	4	
006	met09_sn	ICAL	CS100K				08/16/13 06:43	1.0	5	
007	met09_sn	ICV					08/16/13 06:50	1.0	6	
008	met09_sn	ICB					08/16/13 06:56	1.0		
009	met09_sn	ICSA					08/16/13 07:01	1.0	7	10:AL=500000
010	met09_sn	ICSAB					08/16/13 07:16	1.0	8	5:AL=490000
011	met09_sn	XCRI					08/16/13 07:22	1.0	9	
012	met09_sn	CRI					08/16/13 07:26	1.0	9	
013	met09_sn	BLANK	QC702108		Soil	201760	08/16/13 07:33	1.0		
014	met09_sn	BS	QC702109		Soil	201760	08/16/13 07:38	1.0		
015	met09_sn	BSD	QC702110		Soil	201760	08/16/13 07:41	1.0		
016	met09_sn	MSS	248009-001		Soil	201760	08/16/13 07:45	1.0		5:FE=450000
017	met09_sn	MS	QC702111		Soil	201760	08/16/13 07:48	1.0		
018	met09_sn	MSD	QC702112		Soil	201760	08/16/13 07:51	1.0		
019	met09_sn	SER	QC702113		Soil	201760	08/16/13 07:54	5.0		
020	met09_sn	PDS	QC702114		Soil	201760	08/16/13 07:59	1.0	10 11	
021	met09_sn	SAMPLE	248009-002		Soil	201760	08/16/13 08:02	1.0		2:FE=300000
022	met09_sn	BLANK	QC702138		Water	201767	08/16/13 08:05	1.0		
023	met09_sn	CCV					08/16/13 08:10	1.0	12	
024	met09_sn	CCB					08/16/13 08:17	1.0		
025	met09_sn	BLANK	QC702138		Water	201767	08/16/13 08:22	1.0		
026	met09_sn	SAMPLE	248009-002		Soil	201760	08/16/13 08:27	1.0		2:FE=300000
027	met09_sn	BS	QC702139		Water	201767	08/16/13 08:30	1.0		
028	met09_sn	BSD	QC702140		Water	201767	08/16/13 08:34	1.0		
029	met09_sn	MSS	247790-001		Water	201767	08/16/13 08:39	1.0		
030	met09_sn	MS	QC702141		Water	201767	08/16/13 08:44	1.0		
031	met09_sn	MSD	QC702142		Water	201767	08/16/13 08:48	1.0		
032	met09_sn	SER	QC702202		Water	201767	08/16/13 08:52	5.0		
033	met09_sn	PDS	QC702203		Water	201767	08/16/13 08:57	1.0	13 14	
034	met09_sn	SAMPLE	248018-001		Water	201767	08/16/13 09:02	1.0		3:MG=420000
035	met09_sn	CCV					08/16/13 09:10	1.0	12	
036	met09_sn	CCB					08/16/13 09:16	1.0		
037	met09_sn	SAMPLE	248018-001		Water	201767	08/16/13 09:21	1.0		3:MG=420000
038	met09_sn	ICSAB					08/16/13 09:28	1.0	8	5:MG=500000
039	met09_sn	CCV					08/16/13 09:34	1.0	12	
040	met09_sn	CCB					08/16/13 09:41	1.0		
041	met09_sn	BLANK	QC701869	B	Air	201701	08/16/13 09:46	1.0		
042	met09_sn	SAMPLE	247491-001	B	Air	201701	08/16/13 09:51	100.0		
043	met09_sn	SAMPLE	247491-002	B	Air	201701	08/16/13 09:56	100.0		
044	met09_sn	BLANK	QC702143		Water	201768	08/16/13 10:01	1.0		
045	met09_sn	BS	QC702144		Water	201768	08/16/13 10:06	1.0		
046	met09_sn	BSD	QC702145		Water	201768	08/16/13 10:11	1.0		
047	met09_sn	MSS	247933-001		Water	201768	08/16/13 10:15	1.0		
048	met09_sn	MS	QC702146		Water	201768	08/16/13 10:20	1.0		
049	met09_sn	MSD	QC702147		Water	201768	08/16/13 10:24	1.0		
050	met09_sn	SER	QC702148		Water	201768	08/16/13 10:29	5.0		
051	met09_sn	CCV					08/16/13 10:34	1.0	12	
052	met09_sn	CCB					08/16/13 10:40	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 93328700

Instrument : MET09 Begun : 08/16/13 06:20
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
053	met09_sn	PDS	QC702149		Water	201768	08/16/13 10:45	1.0	13 14	
054	met09_sn	SAMPLE	248023-001		Water	201767	08/16/13 10:49	1.0		1:B=31000
055	met09_sn	SAMPLE	248023-002		Water	201767	08/16/13 10:57	1.0		2:NA=290000
056	met09_sn	SAMPLE	248023-003		Water	201767	08/16/13 11:06	1.0		2:NA=270000
057	met09_sn	SAMPLE	248023-005		Water	201767	08/16/13 11:14	1.0		2:NA=270000
058	met09_sn	SAMPLE	248023-001		Water	201767	08/16/13 11:22	100.0		
059	met09_sn	SAMPLE	248023-002		Water	201767	08/16/13 11:27	100.0		
060	met09_sn	SAMPLE	248023-003		Water	201767	08/16/13 11:32	100.0		
061	met09_sn	SAMPLE	248023-005		Water	201767	08/16/13 11:37	100.0		
062	met09_sn	ICSAB					08/16/13 11:43	1.0	8	5:MG=490000
063	met09_sn	CCV					08/16/13 11:49	1.0	12	
064	met09_sn	CCB					08/16/13 11:56	1.0		
065	met09_sn	SAMPLE	247883-001		Soil	201760	08/16/13 12:01	1.0		4:FE=410000
066	met09_sn	SAMPLE	247883-002		Soil	201760	08/16/13 12:08	1.0		3:FE=260000
067	met09_sn	SAMPLE	247883-003		Soil	201760	08/16/13 12:15	1.0		3:FE=290000
068	met09_sn	SAMPLE	247934-001		Soil	201760	08/16/13 12:22	1.0		5:CA=740000
069	met09_sn	SAMPLE	247935-001		Soil	201760	08/16/13 12:26	1.0		5:FE=380000
070	met09_sn	SAMPLE	247960-001		Soil	201760	08/16/13 12:29	1.0		4:FE=230000
071	met09_sn	SAMPLE	247960-002		Soil	201760	08/16/13 12:32	1.0		4:FE=250000
072	met09_sn	SAMPLE	247960-001		Soil	201760	08/16/13 12:35	1.0		4:FE=230000
073	met09_sn	SAMPLE	247960-002		Soil	201760	08/16/13 12:39	1.0		4:FE=240000
074	met09_sn	CCV					08/16/13 12:42	1.0	12	
075	met09_sn	CCB					08/16/13 12:48	1.0		
076	met09_sn	ICSAB					08/16/13 12:52	1.0	8	5:MG=480000
077	met09_sn	BLANK	QC702133		WET Leachate	201766	08/16/13 12:58	10.0		1:NA=150000
078	met09_sn	BS	QC702134		WET Leachate	201766	08/16/13 13:06	1.0		
079	met09_sn	BSD	QC702135		WET Leachate	201766	08/16/13 13:09	1.0		
080	met09_sn	MSS	247924-001		WET Leachate	201766	08/16/13 13:13	10.0		1:NA=140000
081	met09_sn	MS	QC702136		WET Leachate	201766	08/16/13 13:21	10.0		
082	met09_sn	MSD	QC702137		WET Leachate	201766	08/16/13 13:28	10.0		
083	met09_sn	SAMPLE	247924-002		WET Leachate	201766	08/16/13 13:35	10.0		1:NA=140000
084	met09_sn	SAMPLE	247938-001		WET Leachate	201766	08/16/13 13:43	10.0		1:NA=130000
085	met09_sn	CCV					08/16/13 13:50	1.0	12	
086	met09_sn	CCB					08/16/13 13:56	1.0		
087	met09_sn	SAMPLE	247938-002		WET Leachate	201766	08/16/13 14:01	10.0		1:NA=140000
088	met09_sn	SER	QC702229		TCLP Leachate	201769	08/16/13 14:09	50.0		
089	met09_sn	PDS	QC702230		TCLP Leachate	201769	08/16/13 14:15	10.0	10 11	
090	met09_sn	SAMPLE	247964-002		TCLP Leachate	201769	08/16/13 14:21	10.0		1:NA=140000
091	met09_sn	SAMPLE	247964-003		TCLP Leachate	201769	08/16/13 14:26	10.0		1:NA=140000
092	met09_sn	CCV					08/16/13 14:33	1.0	12	
093	met09_sn	CCB					08/16/13 14:40	1.0		
094	met09_sn	ICSAB					08/16/13 14:44	1.0	8	5:AL=470000
095	met09_sn	SAMPLE	247909-001		TCLP Leachate	201769	08/16/13 14:53	10.0		1:NA=150000
096	met09_sn	SAMPLE	247958-006		TCLP Leachate	201769	08/16/13 15:01	10.0		1:NA=150000
097	met09_sn	SAMPLE	247958-011		TCLP Leachate	201769	08/16/13 15:07	10.0		1:NA=150000
098	met09_sn	SAMPLE	247939-001		Soil	201760	08/16/13 15:14	1.0		8:FE=700000
099	met09_sn	SAMPLE	247682-031		Soil	201549	08/16/13 15:18	1.0		2:FE=320000
100	met09_sn	SAMPLE	247939-001		Soil	201760	08/16/13 15:22	10.0		
101	met09_sn	XSAMPLE	247682-033		Soil	201549	08/16/13 15:26	1.0		
102	met09_sn	XSAMPLE	247672-003		Soil	201574	08/16/13 15:31	1.0		
103	met09_sn	XSAMPLE	247672-005		Soil	201574	08/16/13 15:35	1.0		4:K=1900000
104	met09_sn	XSAMPLE	247672-010		Soil	201574	08/16/13 15:43	1.0		4:K=1800000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 93328700

Instrument : MET09 Begun : 08/16/13 06:20
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
105	met09_sn	CCV					08/16/13 15:50	1.0	12	
106	met09_sn	CCB					08/16/13 15:56	1.0		
107	met09_sn	XCCB					08/16/13 16:00	1.0		
108	met09_sn	ICSAB					08/16/13 16:05	1.0	8	5:AL=470000
109	met09_sn	XBLANK	QC701878		Soil	201704	08/16/13 16:11	1.0		4:K=1900000
110	met09_sn	XSAMPLE	247788-002		Soil	201704	08/16/13 16:18	1.0		
111	met09_sn	XSAMPLE	247788-003		Soil	201704	08/16/13 16:24	1.0		4:K=2400000
112	met09_sn	XSAMPLE	247788-004		Soil	201704	08/16/13 16:31	1.0		3:MG=410000
113	met09_sn	XSAMPLE	247788-005		Soil	201704	08/16/13 16:39	1.0		3:MG=1000000
114	met09_sn	XSAMPLE	247788-006		Soil	201704	08/16/13 16:48	1.0		3:MG=1400000
115	met09_sn	XSAMPLE	247790-002		Water	201767	08/16/13 16:56	1.0		
116	met09_sn	XSAMPLE	247791-001		Water	201767	08/16/13 17:01	1.0		2:FE=320000
117	met09_sn	SAMPLE	247682-033		Soil	201549	08/16/13 17:05	1.0		5:FE=380000
118	met09_sn	ICSAB					08/16/13 17:12	1.0	8	5:AL=490000
119	met09_sn	CCV					08/16/13 17:19	1.0	12	
120	met09_sn	XCCB					08/16/13 17:25	1.0		
121	met09_sn	CCB					08/16/13 17:29	1.0		
122	met09_sn	SAMPLE	247672-003		Soil	201574	08/16/13 17:34	1.0		3:FE=500000
123	met09_sn	SAMPLE	247672-005		Soil	201574	08/16/13 17:37	1.0		5:FE=330000
124	met09_sn	SAMPLE	247672-010		Soil	201574	08/16/13 17:41	1.0		1:FE=150000
125	met09_sn	BLANK	QC701878		Soil	201704	08/16/13 17:45	1.0		
126	met09_sn	SAMPLE	247788-002		Soil	201704	08/16/13 17:50	1.0		2:FE=190000
127	met09_sn	SAMPLE	247788-003		Soil	201704	08/16/13 17:54	1.0		1:FE=170000
128	met09_sn	SAMPLE	247788-004		Soil	201704	08/16/13 17:58	1.0		2:FE=170000
129	met09_sn	BLANK	QC701730		Filtrate	201670	08/16/13 18:03	1.0		
130	met09_sn	BS	QC701731		Filtrate	201670	08/16/13 18:08	1.0		
131	met09_sn	BSD	QC701732		Filtrate	201670	08/16/13 18:12	1.0		
132	met09_sn	CCV					08/16/13 18:16	1.0	12	
133	met09_sn	XCCB					08/16/13 18:23	1.0		
134	met09_sn	CCB					08/16/13 18:26	1.0		
135	met09_sn	MSS	247736-004		Filtrate	201670	08/16/13 18:32	1.0		3:NA=410000
136	met09_sn	MS	QC701733		Filtrate	201670	08/16/13 18:40	1.0		
137	met09_sn	MSD	QC701734		Filtrate	201670	08/16/13 18:47	1.0		
138	met09_sn	SER	QC701737		Filtrate	201670	08/16/13 18:54	5.0		
139	met09_sn	PDS	QC701738		Filtrate	201670	08/16/13 18:59	1.0	13 14	
140	met09_sn	MSS	247736-007		Filtrate	201670	08/16/13 19:07	1.0		3:NA=360000
141	met09_sn	MS	QC701735		Filtrate	201670	08/16/13 19:15	1.0		3:NA=360000
142	met09_sn	MSD	QC701736		Filtrate	201670	08/16/13 19:22	1.0		3:NA=360000
143	met09_sn	SAMPLE	247736-002		Filtrate	201670	08/16/13 19:29	1.0		3:CA=200000
144	met09_sn	SAMPLE	247736-003		Filtrate	201670	08/16/13 19:37	1.0		2:CA=230000
145	met09_sn	ICSAB					08/16/13 19:45	1.0	8	5:MG=480000
146	met09_sn	CCV					08/16/13 19:51	1.0	12	
147	met09_sn	CCB					08/16/13 19:58	1.0		
148	met09_sn	SAMPLE	247736-005		Filtrate	201670	08/16/13 20:03	1.0		1:CA=130000
149	met09_sn	SAMPLE	247736-006		Filtrate	201670	08/16/13 20:11	1.0		1:CA=200000
150	met09_sn	SAMPLE	247736-010		Filtrate	201670	08/16/13 20:19	1.0		2:CA=200000
151	met09_sn	SAMPLE	247738-001		Filtrate	201670	08/16/13 20:27	1.0		3:NA=400000
152	met09_sn	SAMPLE	247738-002		Filtrate	201670	08/16/13 20:35	1.0		3:NA=400000
153	met09_sn	SAMPLE	247738-003		Filtrate	201670	08/16/13 20:44	1.0		1:CA=190000
154	met09_sn	SAMPLE	247738-004		Filtrate	201670	08/16/13 20:49	1.0		1:CA=200000
155	met09_sn	SAMPLE	247738-005		Filtrate	201670	08/16/13 20:54	1.0		2:NA=350000
156	met09_sn	SAMPLE	247738-008		Filtrate	201670	08/16/13 21:02	1.0		3:CA=270000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 93328700

Instrument : MET09 Begun : 08/16/13 06:20
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
157	met09_sn	SAMPLE	247738-009		Filtrate	201670	08/16/13 21:10	1.0		3:CA=390000
158	met09_sn	CCV					08/16/13 21:19	1.0	12	
159	met09_sn	CCB					08/16/13 21:25	1.0		
160	met09_sn	SAMPLE	247738-010		Filtrate	201670	08/16/13 21:30	1.0		3:CA=390000
161	met09_sn	BLANK	QC701692		Soil	201664	08/16/13 21:38	1.0		
162	met09_sn	BS	QC701693		Soil	201664	08/16/13 21:43	1.0		
163	met09_sn	BSD	QC701694		Soil	201664	08/16/13 21:47	1.0		
164	met09_sn	MSS	247792-001		Soil	201664	08/16/13 21:50	1.0		3:FE=280000
165	met09_sn	MS	QC701695		Soil	201664	08/16/13 21:54	1.0		
166	met09_sn	MSD	QC701696		Soil	201664	08/16/13 21:58	1.0		
167	met09_sn	SAMPLE	247792-005		Soil	201664	08/16/13 22:01	1.0		3:FE=260000
168	met09_sn	SAMPLE	247792-009		Soil	201664	08/16/13 22:05	1.0		2:FE=340000
169	met09_sn	SAMPLE	247792-011		Soil	201664	08/16/13 22:09	1.0		5:CA=550000
170	met09_sn	ICSAB					08/16/13 22:13	1.0	8	5:MG=470000
171	met09_sn	CCV					08/16/13 22:19	1.0	12	
172	met09_sn	CCB					08/16/13 22:25	1.0		
173	met09_sn	SAMPLE	247792-016		Soil	201664	08/16/13 22:30	1.0		4:FE=440000
174	met09_sn	SAMPLE	247792-019		Soil	201664	08/16/13 22:35	1.0		4:FE=380000
175	met09_sn	SAMPLE	247792-022		Soil	201664	08/16/13 22:39	1.0		5:FE=480000
176	met09_sn	SAMPLE	247792-024		Soil	201664	08/16/13 22:46	1.0		2:FE=290000
177	met09_sn	SAMPLE	247792-027		Soil	201664	08/16/13 22:50	1.0		2:FE=210000
178	met09_sn	SAMPLE	247792-037		Soil	201664	08/16/13 22:55	1.0		3:FE=340000
179	met09_sn	SAMPLE	247792-039		Soil	201664	08/16/13 22:59	1.0		3:FE=470000
180	met09_sn	SAMPLE	247792-041		Soil	201664	08/16/13 23:03	1.0		3:FE=330000
181	met09_sn	SAMPLE	247792-043		Soil	201664	08/16/13 23:08	1.0		2:FE=240000
182	met09_sn	SAMPLE	247792-060		Soil	201664	08/16/13 23:12	1.0		2:FE=320000
183	met09_sn	CCV					08/16/13 23:16	1.0	12	
184	met09_sn	CCB					08/16/13 23:22	1.0		
185	met09_sn	SAMPLE	247792-064		Soil	201664	08/16/13 23:28	1.0		4:FE=410000
186	met09_sn	BLANK	QC701745		Filtrate	201671	08/16/13 23:32	1.0		
187	met09_sn	BS	QC701746		Filtrate	201671	08/16/13 23:37	1.0		
188	met09_sn	BSD	QC701747		Filtrate	201671	08/16/13 23:41	1.0		
189	met09_sn	MSS	247769-005		Filtrate	201671	08/16/13 23:46	1.0		4:K=1900000
190	met09_sn	MS	QC701748		Filtrate	201671	08/16/13 23:54	1.0		
191	met09_sn	MSD	QC701749		Filtrate	201671	08/17/13 00:01	1.0		
192	met09_sn	SAMPLE	247769-001		Filtrate	201671	08/17/13 00:08	1.0		
193	met09_sn	SAMPLE	247769-002		Filtrate	201671	08/17/13 00:13	1.0		4:K=2400000
194	met09_sn	SAMPLE	247769-003		Filtrate	201671	08/17/13 00:21	1.0		2:MG=400000
195	met09_sn	ICSAB					08/17/13 00:29	1.0	8	5:MG=470000
196	met09_sn	CCV					08/17/13 00:35	1.0	12	
197	met09_sn	XCCB					08/17/13 00:41	1.0		
198	met09_sn	CCB					08/17/13 00:45	1.0		
199	met09_sn	SAMPLE	247769-004		Filtrate	201671	08/17/13 00:50	1.0		3:MG=1100000
200	met09_sn	SAMPLE	247769-006		Filtrate	201671	08/17/13 00:58	1.0		3:MG=1500000
201	met09_sn	CCV					08/17/13 01:07	1.0	12	
202	met09_sn	XCCB					08/17/13 01:13	1.0		
203	met09_sn	CCB					08/17/13 01:17	1.0		
204	met09_sn	ICSAB					08/17/13 01:22	1.0	8	5:MG=490000

NT 08/19/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 204.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 93328700

Instrument : MET09 Begun : 08/16/13 06:20
Method : EPA 6010B SOP Version : icp metals_rv9

HDD 08/16/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 94 through 108.

Standards used: 1=S22714 2=S22716 3=S22715 4=S22717 5=S22718 6=S22721 7=S22719 8=S22720 9=S22723 10=S22594 11=S22595 12=S22722 13=S21652 14=S21653

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 93328700

Date : 08/16/13 Reference : met09_sn
Sequence : MET09 08/16/13 Analyzed : 08/16/13 06:25

#	Type	Sample ID	Y A
		ICAL STD	4582096
		LOWER LIMIT	1374629
		UPPER LIMIT	9164191
008	ICB		4841095
009	ICSA		3727302
010	ICSAB		3690624
013	BLANK	QC702108	4623574
014	BS	QC702109	4301686
015	BSD	QC702110	4330667
016	MSS	248009-001	4428611
017	MS	QC702111	4394876
018	MSD	QC702112	4379774
019	SER	QC702113	4418156
020	PDS	QC702114	4417692
021	SAMPLE	248009-002	4594029
022	BLANK	QC702138	4597277
023	CCV		4363253
024	CCB		4627424
025	BLANK	QC702138	4601083
026	SAMPLE	248009-002	4539551
027	BS	QC702139	4374020
028	BSD	QC702140	4364919
029	MSS	247790-001	4338587
030	MS	QC702141	4201136
031	MSD	QC702142	4275914
032	SER	QC702202	4452872
033	PDS	QC702203	4227661
034	SAMPLE	248018-001	3252636
035	CCV		4314277
036	CCB		4847073
037	SAMPLE	248018-001	3195232
038	ICSAB		3713627
039	CCV		4308041
040	CCB		4578284
041	BLANK	QC701869	4568600
042	SAMPLE	247491-001	4577461
043	SAMPLE	247491-002	4577061
044	BLANK	QC702143	4586597
045	BS	QC702144	4467441
046	BSD	QC702145	4334827
047	MSS	247933-001	4404490
048	MS	QC702146	4301808
049	MSD	QC702147	4488987
050	SER	QC702148	4578747
051	CCV		4329576
052	CCB		4579258
053	PDS	QC702149	4229872
054	SAMPLE	248023-001	4116178
055	SAMPLE	248023-002	4050118
056	SAMPLE	248023-003	4093359
057	SAMPLE	248023-005	4105876

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 93328700

Date : 08/16/13 Reference : met09_sn
Sequence : MET09 08/16/13 Analyzed : 08/16/13 06:25

#	Type	Sample ID	Y A
058	SAMPLE	248023-001	4744968
059	SAMPLE	248023-002	4583531
060	SAMPLE	248023-003	4678378
061	SAMPLE	248023-005	4719999
062	ICSAB		3851294
063	CCV		4448301
064	CCB		4736798
065	SAMPLE	247883-001	4550745
066	SAMPLE	247883-002	4505734
067	SAMPLE	247883-003	4535346
068	SAMPLE	247934-001	4290308
069	SAMPLE	247935-001	4596041
070	SAMPLE	247960-001	4624996
071	SAMPLE	247960-002	4634046
072	SAMPLE	247960-001	4552952
073	SAMPLE	247960-002	4786941
074	CCV		4399728
075	CCB		4571868
076	ICSAB		3832582
077	BLANK	QC702133	4176931
078	BS	QC702134	4529702
079	BSD	QC702135	4585733
081	MS	QC702136	4477763
082	MSD	QC702137	4196841
084	SAMPLE	247938-001	4462421
085	CCV		4314076
086	CCB		4639550
087	SAMPLE	247938-002	4214640
088	SER	QC702229	4532468
089	PDS	QC702230	4179529
090	SAMPLE	247964-002	4210088
091	SAMPLE	247964-003	4160239
092	CCV		4368003
093	CCB		4649659
094	ICSAB		3844815
095	SAMPLE	247909-001	4180769
096	SAMPLE	247958-006	4169218
097	SAMPLE	247958-011	4121084
098	SAMPLE	247939-001	4177743
099	SAMPLE	247682-031	4390591
100	SAMPLE	247939-001	4288958
105	CCV		4234271
106	CCB		4540697
108	ICSAB		3820430
117	SAMPLE	247682-033	4321540
118	ICSAB		3653557
119	CCV		4330153
121	CCB		4530434
122	SAMPLE	247672-003	4307447
123	SAMPLE	247672-005	4140570
124	SAMPLE	247672-010	4297347
125	BLANK	QC701878	4617680

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 93328700

Date : 08/16/13 Reference : met09_sn
Sequence : MET09 08/16/13 Analyzed : 08/16/13 06:25

#	Type	Sample ID	Y A
126	SAMPLE	247788-002	4301438
127	SAMPLE	247788-003	4379290
128	SAMPLE	247788-004	4358170
129	BLANK	QC701730	4602025
130	BS	QC701731	4363651
131	BSD	QC701732	4315496
132	CCV		4312364
134	CCB		4564343
135	MSS	247736-004	3815293
136	MS	QC701733	3784753
137	MSD	QC701734	3800065
138	SER	QC701737	4203622
139	PDS	QC701738	3827223
140	MSS	247736-007	3910060
141	MS	QC701735	3874322
142	MSD	QC701736	3907082
143	SAMPLE	247736-002	4003386
144	SAMPLE	247736-003	3987394
145	ICSAB		3724149
146	CCV		4319795
147	CCB		4707432
148	SAMPLE	247736-005	3952859
149	SAMPLE	247736-006	3930741
150	SAMPLE	247736-010	4066768
151	SAMPLE	247738-001	3881802
152	SAMPLE	247738-002	3931608
153	SAMPLE	247738-003	4175967
154	SAMPLE	247738-004	4099424
155	SAMPLE	247738-005	3894404
156	SAMPLE	247738-008	4020396
157	SAMPLE	247738-009	3903671
158	CCV		4411028
159	CCB		4633720
160	SAMPLE	247738-010	3861476
161	BLANK	QC701692	4735423
162	BS	QC701693	4419842
163	BSD	QC701694	4431911
164	MSS	247792-001	4500878
165	MS	QC701695	4507999
166	MSD	QC701696	4487098
167	SAMPLE	247792-005	4458462
168	SAMPLE	247792-009	4451980
169	SAMPLE	247792-011	4121696
170	ICSAB		3822048
171	CCV		4430663
172	CCB		4664258
173	SAMPLE	247792-016	4446872
174	SAMPLE	247792-019	4325307
175	SAMPLE	247792-022	4447207
176	SAMPLE	247792-024	4394748
177	SAMPLE	247792-027	4311649
178	SAMPLE	247792-037	4405681

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 93328700

Date : 08/16/13 Reference : met09_sn
Sequence : MET09 08/16/13 Analyzed : 08/16/13 06:25

#	Type	Sample ID	Y A
179	SAMPLE	247792-039	4344577
180	SAMPLE	247792-041	4385692
181	SAMPLE	247792-043	4519517
182	SAMPLE	247792-060	4326272
183	CCV		4370834
184	CCB		4731542
185	SAMPLE	247792-064	4382769
186	BLANK	QC701745	4688960
187	BS	QC701746	4459060
188	BSD	QC701747	4454141
189	MSS	247769-005	920664 *
192	SAMPLE	247769-001	4608617
193	SAMPLE	247769-002	817153 *
194	SAMPLE	247769-003	3362973
195	ICSAB		3799047
196	CCV		4315206
198	CCB		4568170
199	SAMPLE	247769-004	2518778
200	SAMPLE	247769-006	2242218
201	CCV		4277308
203	CCB		4591355
204	ICSAB		3706653

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 247738 METALS Filtrate: EPA 6010B

Inst : MET09 Reviewer : ---
Calnum : 93328700001 Date : 16-AUG-2013 06:20
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	met09_sn	93328700002	CRI5.1	16-AUG-2013 06:25	S22714
L2	met09_sn	93328700003	CS100	16-AUG-2013 06:30	S22716
L3	met09_sn	93328700004	CS1K	16-AUG-2013 06:34	S22715
L4	met09_sn	93328700005	CS10K	16-AUG-2013 06:37	S22717
L5	met09_sn	93328700006	CS100K	16-AUG-2013 06:43	S22718

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Chromium	A	253.30	242.95	241.26	238.85		LOR0	0.00000	0.00419		244.09	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Chromium	A	5.0000	6	100.00	2	1000.0	1	10000	0		

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 247738 METALS Filtrate
EPA 6010B

Inst : MET09
Calnum : 93328700001 Cal Date : 16-AUG-2013

ICV 93328700007 (16-AUG-2013) stds: S22721

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Chromium	A	5000	4919	ug/L	-2	10	

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR 247738 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93328700009 File : met09_sn Time : 16-AUG-2013 07:01
Cal : 93328700001 Caldate : 16-AUG-2013
Standards: S22719

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	18810	ug/L	94
Copper	A	20000	20300	ug/L	101
Manganese	A	20000	18160	ug/L	91
Nickel	A	20000	17430	ug/L	87
Vanadium	A	20000	19480	ug/L	97
Aluminum	R	500000	502800	ug/L	101
Calcium	R	500000	485700	ug/L	97
Iron	R	200000	192500	ug/L	96
Magnesium	R	500000	500500	ug/L	100
Titanium	R	20000	21340	ug/L	107

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4582096	3727302	-18.66

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 247738 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93328700118 File : met09_sn Time : 16-AUG-2013 17:12
Cal : 93328700001 Caldate : 16-AUG-2013
Standards: S22720

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	487.7	ug/L	-2	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4582096	3653557	-20.26

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247738 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93328700119 File : met09_sn Time : 16-AUG-2013 17:19
Cal : 93328700001 Caldate : 16-AUG-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	244.09	235.43	5000	4928	ug/L	-1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4582096	4330153	-5.50

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 247738 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93328700121 File : met09_sn Time : 16-AUG-2013 17:29
Cal : 93328700001 Caldate : 16-AUG-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.252	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4582096	4530434	-1.13

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247738 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93328700132 File : met09_sn Time : 16-AUG-2013 18:16
Cal : 93328700001 Caldate : 16-AUG-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	244.09	237.49	5000	4971	ug/L	-1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4582096	4312364	-5.89

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 247738 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93328700134 File : met09_sn Time : 16-AUG-2013 18:26
Cal : 93328700001 Caldate : 16-AUG-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.252	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4582096	4564343	-0.39

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 247738 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93328700145 File : met09_sn Time : 16-AUG-2013 19:45
Cal : 93328700001 Caldate : 16-AUG-2013
Standards: S22720

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	486.1	ug/L	-3	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4582096	3724149	-18.72

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247738 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93328700146 File : met09_sn Time : 16-AUG-2013 19:51
Cal : 93328700001 Caldate : 16-AUG-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	244.09	235.90	5000	4938	ug/L	-1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4582096	4319795	-5.72

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 247738 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93328700147 File : met09_sn Time : 16-AUG-2013 19:58
Cal : 93328700001 Caldate : 16-AUG-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.252	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4582096	4707432	2.74

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247738 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93328700158 File : met09_sn Time : 16-AUG-2013 21:19
Cal : 93328700001 Caldate : 16-AUG-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	244.09	233.03	5000	4878	ug/L	-2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4582096	4411028	-3.73

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 247738 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93328700159 File : met09_sn Time : 16-AUG-2013 21:25
Cal : 93328700001 Caldate : 16-AUG-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.252	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4582096	4633720	1.13

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 247738 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93328700170 File : met09_sn Time : 16-AUG-2013 22:13
Cal : 93328700001 Caldate : 16-AUG-2013
Standards: S22720

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	480.3	ug/L	-4	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4582096	3822048	-16.59

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247738 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93328700171 File : met09_sn Time : 16-AUG-2013 22:19
Cal : 93328700001 Caldate : 16-AUG-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	244.09	234.74	5000	4913	ug/L	-2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4582096	4430663	-3.30

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 247738 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93328700172 File : met09_sn Time : 16-AUG-2013 22:25
Cal : 93328700001 Caldate : 16-AUG-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.252	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4582096	4664258	1.79

SAMPLE PREPARATION SUMMARY

Batch # : 201670 Analysis : ICAP
Started By : MRN Prep Date : 13-AUG-2013 20:00 Finished By : MRN
Method : 3010A SOP Version : 3010A_icp_rv15 Units : mL
Spike #1 ID : S21652 Spike #2 ID : S21653

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
247736-002		Filtrate	50	50	1	1.0						CR	
247736-003		Filtrate	50	50	1	1.0						CR	
247736-004		Filtrate	50	50	1	1.0						CR	
247736-005		Filtrate	50	50	1	1.0						CR	
247736-006		Filtrate	50	50	1	1.0						CR	
247736-007		Filtrate	50	50	1	1.0						CR	
247736-010		Filtrate	50	50	1	1.0						CR	
247738-001		Filtrate	50	50	1	1.0						CR	
247738-002		Filtrate	50	50	1	1.0						CR	
247738-003		Filtrate	50	50	1	1.0						CR	
247738-004		Filtrate	50	50	1	1.0						CR	
247738-005		Filtrate	50	50	1	1.0						CR	
247738-008		Filtrate	50	50	1	1.0						CR	
247738-009		Filtrate	50	50	1	1.0						CR	
247738-010		Filtrate	50	50	1	1.0						CR	
QC701730	BLANK	Filtrate	50	50	1	1.0							
QC701731	BS	Filtrate	50	50	1	1.0		.5	.5				
QC701732	BSD	Filtrate	50	50	1	1.0		.5	.5				
QC701733	MS	Filtrate	50	50	1	1.0		.5	.5				
QC701734	MSD	Filtrate	50	50	1	1.0		.5	.5				
QC701735	MS	Filtrate	50	50	1	1.0		.5	.5				
QC701736	MSD	Filtrate	50	50	1	1.0		.5	.5				
QC701737	SER	Filtrate	50	50	1	1.0							
QC701738	PDS	Filtrate	50	50	1	1.0							
QC701739	SER	Filtrate	50	50	1	1.0							
QC701740	PDS	Filtrate	50	50	1	1.0							

Analyst: NT Date: 08/19/13 Reviewer: PRW Date: 08/19/13

Water Digestion for ICP

Curtis & Tompkins, Ltd.

LIMS Batch #: 201670
Digested by: MN
Date Digested: 8/13/13

Digestion Method
☒ EPA 3010a for ICP
☐ EPA 200.7
☒ Filtrak Prep

BK3443
Page 90

Lvl.	Sample #	Container ID	Volume Sample(mL)	Final Volume (mL)	Filtered? (y/n)	ID II	Comments
	BLK		☑ 50 ☐	☑ 50 ☐	N	✓	
	BS		☑ 50 ☐	☑ 50 ☐		✓	
	BSD		☑ 50 ☐	☑ 50 ☐		✓	
III	247736-002	D	☑ 50 ☐	☑ 50 ☐		✓	
5	-003		☑ 50 ☐	☑ 50 ☐		✓	
	-004		☑ 50 ☐	☑ 50 ☐		✓	
	-004 MS		☑ 50 ☐	☑ 50 ☐		✓	
	-004 MSD		☑ 50 ☐	☑ 50 ☐		✓	
	-005		☑ 50 ☐	☑ 50 ☐		✓	
10	-006		☑ 50 ☐	☑ 50 ☐		✓	
	-007		☑ 50 ☐	☑ 50 ☐		✓	
	-007 MS		☑ 50 ☐	☑ 50 ☐		✓	
	-007 MSD		☑ 50 ☐	☑ 50 ☐		✓	
	-010		☑ 50 ☐	☑ 50 ☐		✓	
III 15	247738-001	E	☑ 50 ☐	☑ 50 ☐		✓	
	-002		☑ 50 ☐	☑ 50 ☐		✓	
	-003		☑ 50 ☐	☑ 50 ☐		✓	
	-004		☑ 50 ☐	☑ 50 ☐		✓	
	-005		☑ 50 ☐	☑ 50 ☐		✓	
20	-008		☑ 50 ☐	☑ 50 ☐		✓	
	-009		☑ 50 ☐	☑ 50 ☐		✓	
	-010		☑ 50 ☐	☑ 50 ☐		✓	
			☐ 50 ☐	☐ 50 ☐			
			☐ 50 ☐	☐ 50 ☐			
			☐ 50 ☐	☐ 50 ☐			

	Reagent ID or LIMS #	Initials / Date
Digestion tubes, lot #	162904-261	MN 8/13/13
0.5 mL of spike solution (Std1) was added to all spikes	S21652	
0.5 mL of spike solution (Std2) was added to all spikes	S21653	
Digestion Temperature (°C), Block and Probe Location	— —	
digestion begun at (time)	—	
1:1 HCl	18301-052213	
concentrated HNO3	3390	
digestion ended at (time)	—	
☐ filtered thru' Whatman # 541	—	
Relinquished to ICP group	ICAP	

8/13/13
Prep Chemist / Date

Continued from page ____
Continued on page ____

Reviewed by / Date

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 247818
ANALYTICAL REPORT

Haley & Aldrich 400 East Van Buren Street Phoenix, CA 85004	Project : 39049-103 Location : PGA South Level : III

Sample ID	Lab ID
GMW-01	247818-001
GMW-02	247818-002
GMW-09MC	247818-003
GMW-03	247818-004
EMW-14R	247818-005
EMW-03	247818-006
EMW-06	247818-007
EMW-08R	247818-008
EMW-10R	247818-009
EMW-11R	247818-010
EP-02R	247818-011
NEW-03	247818-012
GMW-13UC	247818-013
EMW-12R	247818-014
SB-11LC	247818-015
GMW-10LC	247818-016
GMW-21UC	247818-017
GMW-11UC	247818-018
GMW-23UC	247818-019
EMW-07R	247818-020
EMW-103	247818-021
GMW-113UC	247818-022
EMW-107R	247818-023
TRIP BLANK	247818-024

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Isabelle Choy Date: 08/21/2013

Isabelle Choy
Project Manager
(510) 486-0900

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**247818**
Client:	**Haley & Aldrich**
Project:	**39049-103**
Location:	**PGA South**
Request Date:	**08/09/13**
Samples Received:	**08/09/13**

This data package contains sample and QC results for twenty four water samples, requested for the above referenced project on 08/09/13. See attached cooler receipt form for any sample receipt problems or discrepancies.

Volatile Organics by GC/MS (EPA 8260B):
High response was observed for Freon 113 in the CCV analyzed 08/12/13 14:41; this analyte was not detected at or above the RL in the associated samples.

Chloroform was detected between the MDL and the RL in the method blank for batch 201722 and the method blank for batch 201746; this analyte was not detected in the sample at or above the RL.

Bromomethane was detected between the MDL and the RL in the method blank for batch 201594 and the method blank for batch 201683; this analyte was not detected in samples at or above the RL.

Methylene chloride was detected between the MDL and the RL in GMW-11UC (lab # 247818-018); this analyte is a common laboratory contaminant.

GMW-11UC (lab # 247818-018) was diluted due to high SO2.

EMW-11R (lab # 247818-010) had pH greater than 2.

No other analytical problems were encountered.

Metals (EPA 6010B) Water:
No analytical problems were encountered.

Metals (EPA 6010B) Filtrate:
No analytical problems were encountered.

Chain of Custody

Send email

CHAIN OF CUSTODY

Curtis & Tompkins Laboratories
ENVIRONMENTAL ANALYTICAL TESTING LABORATORY
In Business Since 1878

2323 Fifth Street
Berkeley, CA 94710

Phone (510) 486-0900
Fax (510) 486-0532

Chain of Custody # _____

C&T LOGIN # 247818

Project No: 39049-103
Project Name: PGAS
Project P. O. No: 39049-103
EDD Format: Report Level ☐ II ☐ III ☐ IV
Turnaround Time: ☐ RUSH _____ ☒ Standard

Sampler: Mark Argall
Report To: Paula Chang
Company: H+A
Telephone: 602-760-2418
Email: pchang@h-aldrich.com

ANALYTICAL REQUEST

Lab No.	Sample ID.	Date Collected	Time Collected	Water	Solid			# of Containers	HCl	H2SO4	HNO3	NaOH	None	8260B Halogenated only	6010B Total chromium	6010B Lab filtered & preserved dissolved chromium
1	GMW-01	8-8-13	0900	X				5	X		X			X	X	X
2	GMW-02	8-8-13	0915	X				5	X		X			X	X	X
3	GMW-09MC		0945	X				5	X		X			X	X	X
4	GMW-03		0930	X				3	X					X		
5	EMW-14R		0550	X		X		5	X		X			X	X	X
6	EMW-03		0830	X		5		~~10~~	X		X			X	X	X
7	EMW-06		0815	X				5	X		X			X	X	X
8	EMW-08R		0725	X				5	X		X			X	X	X
9	EMW-10R		0715	X				5	X		X			X	X	X
10	EMW-11R		0745	X				5	X		X			X	X	X
11	EP-02R		0605	X				5	X		X			X	X	X
12	NEW-03		1015	X		X		5	X		X			X	X	X
13	GMW-13UC		0845	X		5		~~10~~	X		X			X	X	X

Notes:
Lab filter + preserve 6010B dissolved chromium upon receipt

SAMPLE RECEIPT
☐ Intact
☐ Cold
☐ On Ice
☐ Ambient

RELINQUISHED BY:
DATE: 8-8-13 TIME:
DATE: TIME:
DATE: TIME:

RECEIVED BY:
DATE: 8/9/13 TIME: 0930
DATE: TIME:
DATE: TIME:

Semi-annual

CHAIN OF CUSTODY

Curtis & Tompkins Laboratories
ENVIRONMENTAL ANALYTICAL TESTING LABORATORY
In Business Since 1878

2323 Fifth Street
Berkeley, CA 94710

Phone (510) 486-0900
Fax (510) 486-0532

Chain of Custody # _____

C&T LOGIN # 247818

Project No: 39049-103
Project Name: PG&S
Project P. O. No: 39049-103
EDD Format: Report Level ☐ II ☐ III ☐ IV
Turnaround Time: ☐ RUSH _____ ☒ Standard

Sampler: Mark Argall
Report To: Paula Chang
Company: H + A
Telephone: 602-760-2418
Email: pchang@h-aldrich.com

Lab No.	Sample ID.	SAMPLING Date Collected	SAMPLING Time Collected	MATRIX Water	MATRIX Solid	# of Containers	CHEMICAL PRESERVATIVE HCl	H2SO4	HNO3	NaOH	None	ANALYTICAL REQUEST 8260B Halogenated only	6010B Total Chromium	6010B Lab filtered & preserved dissolved chrome
14	EMW-12R	8-8-13	0540	X		3	X					X		
15	SB-11LC		0620	X		3	X					X		
16	GMW-10LC		0645	X		3	X					X		
17	GMW-21uC		0700	X		3	X					X		
18	GMW-11uC		0800	X		3	X					X		
19	GMW-23uC		1000	X		3	X					X		
20	EMW-07R		1030	X		3	X					X		
21	EMW-103		0830	X		5	X		X			X	X	X
22	GMW-113uC		0845	X		5	X		X			X	X	X
23	EMW-107R		1030	X		3	X					X		
24	Trip Blank					3	X					X		
	Temp Blank					1								

Notes:
Lab to filter + preserve 6010B dissolved chrome upon Receipt

SAMPLE RECEIPT
☐ Intact
☐ Cold
☐ On Ice
☐ Ambient

RELINQUISHED BY:
DATE: 8-8-13 TIME:
DATE: TIME:
DATE: TIME:

RECEIVED BY:
DATE: 8/9/13 TIME: 0930
DATE: TIME:
DATE: TIME:

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 247818 Date Received 8/9/13 Number of coolers 1
Client H&A Project PGAS

Date Opened 8/9/13 By (print) AA (sign) [signature]
Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc) FedEx (YES) NO
   Shipping info 0200 8009 7835 1985

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☐ NO
   How many 2 Name initials Date 8/8/13
2B. Were custody seals intact upon arrival? (YES) NO N/A
3. Were custody papers dry and intact when received? (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) (YES) NO
6. Indicate the packing in cooler: (if other, describe)

☐ Bubble Wrap ☐ Foam blocks ☐ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☑ Wet ☐ Blue/Gel ☐ None Temp(°C) 3.0

☐ Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES (NO)
   If YES, what time were they transferred to freezer?
9. Did all bottles arrive unbroken/unopened? (YES) NO
10. Are there any missing / extra samples? YES (NO)
11. Are samples in the appropriate containers for indicated tests? (YES) NO
12. Are sample labels present, in good condition and complete? (YES) NO
13. Do the sample labels agree with custody papers? (YES) NO
14. Was sufficient amount of sample sent for tests requested? (YES) NO
15. Are the samples appropriately preserved? (YES) NO N/A
16. Did you check preservatives for all bottles for each sample? (YES) NO N/A
17. Did you document your preservative check? (YES) NO N/A
18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO (N/A)
19. Did you change the hold time in LIMS for preserved terracores? YES NO (N/A)
20. Are bubbles > 6mm absent in VOA samples? YES (NO) N/A
21. Was the client contacted concerning this sample delivery? YES (NO)
   If YES, Who was called? By Date:

COMMENTS
20. Sample-024, 1 of 3 VOAs w/ Bubble 7.6mm

Rev 10, 11/11

Curtis & Tompkins Sample Preservation for 247818

Sample	pH: <2	>9	>12	Other
-001a	[ ]	[ ]	[ ]	____
b	[ ]	[ ]	[ ]	____
c	[ ]	[ ]	[ ]	____
d	[✓]	[ ]	[ ]	____
e	[ ]	[ ]	[ ]	____
-002a	[ ]	[ ]	[ ]	____
b	[ ]	[ ]	[ ]	____
c	[ ]	[ ]	[ ]	____
d	[✓]	[ ]	[ ]	____
e	[ ]	[ ]	[ ]	____
-003a	[ ]	[ ]	[ ]	____
b	[ ]	[ ]	[ ]	____
c	[ ]	[ ]	[ ]	____
d	[✓]	[ ]	[ ]	____
e	[ ]	[ ]	[ ]	____
-005a	[ ]	[ ]	[ ]	____
b	[ ]	[ ]	[ ]	____
c	[ ]	[ ]	[ ]	____
d	[✓]	[ ]	[ ]	____
e	[ ]	[ ]	[ ]	____
-006a	[ ]	[ ]	[ ]	____
b	[ ]	[ ]	[ ]	____
c	[ ]	[ ]	[ ]	____
d	[✓]	[ ]	[ ]	____
e	[ ]	[ ]	[ ]	____
-007a	[ ]	[ ]	[ ]	____
b	[ ]	[ ]	[ ]	____
c	[ ]	[ ]	[ ]	____
d	[✓]	[ ]	[ ]	____
e	[ ]	[ ]	[ ]	____
-008a	[ ]	[ ]	[ ]	____
b	[ ]	[ ]	[ ]	____
c	[ ]	[ ]	[ ]	____
d	[✓]	[ ]	[ ]	____
e	[ ]	[ ]	[ ]	____
-009a	[ ]	[ ]	[ ]	____
b	[ ]	[ ]	[ ]	____
c	[ ]	[ ]	[ ]	____
d	[✓]	[ ]	[ ]	____
e	[ ]	[ ]	[ ]	____
-010a	[ ]	[ ]	[ ]	____
b	[ ]	[ ]	[ ]	____
c	[ ]	[ ]	[ ]	____
d	[✓]	[ ]	[ ]	____
e	[ ]	[ ]	[ ]	____
-011a	[ ]	[ ]	[ ]	____
b	[ ]	[ ]	[ ]	____
c	[ ]	[ ]	[ ]	____
d	[✓]	[ ]	[ ]	____
e	[ ]	[ ]	[ ]	____
-012a	[ ]	[ ]	[ ]	____
b	[ ]	[ ]	[ ]	____
c	[ ]	[ ]	[ ]	____
d	[✓]	[ ]	[ ]	____
e	[ ]	[ ]	[ ]	____
-013a	[ ]	[ ]	[ ]	____
b	[ ]	[ ]	[ ]	____
c	[ ]	[ ]	[ ]	____
d	[✓]	[ ]	[ ]	____
e	[ ]	[ ]	[ ]	____
-021a	[ ]	[ ]	[ ]	____
b	[ ]	[ ]	[ ]	____
c	[ ]	[ ]	[ ]	____
d	[✓]	[ ]	[ ]	____
e	[ ]	[ ]	[ ]	____
-022a	[ ]	[ ]	[ ]	____
b	[ ]	[ ]	[ ]	____
c	[ ]	[ ]	[ ]	____
d	[✓]	[ ]	[ ]	____
e	[ ]	[ ]	[ ]	____

Analyst: AA

Date: 8/9/13

Page 1 of 1

Laboratory Job Number 247818

ANALYTICAL REPORT

Volatile Organics by GC/MS

Matrix: Water

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GMW-01	Batch#:	201594
Lab ID:	247818-001	Sampled:	08/08/13
Matrix:	Water	Received:	08/09/13
Units:	ug/L	Analyzed:	08/12/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	108	76-138
Toluene-d8	102	80-120
Bromofluorobenzene	103	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GMW-02	Batch#:	201672
Lab ID:	247818-002	Sampled:	08/08/13
Matrix:	Water	Received:	08/09/13
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	0.6 J	2.0	0.1
1,1-Dichloroethene	0.9	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.6 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	0.8	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	43	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	0.3 J	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	99	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	90	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GMW-09MC	Batch#:	201672
Lab ID:	247818-003	Sampled:	08/08/13
Matrix:	Water	Received:	08/09/13
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	97	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	93	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GMW-03	Batch#:	201672
Lab ID:	247818-004	Sampled:	08/08/13
Matrix:	Water	Received:	08/09/13
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	0.4 J	2.0	0.1
1,1-Dichloroethene	1.4	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.3 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	0.1 J	0.5	0.1
1,2-Dichloroethane	0.3 J	0.5	0.1
Trichloroethene	1.1	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	6.9	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	97	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	91	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	EMW-14R	Batch#:	201672
Lab ID:	247818-005	Sampled:	08/08/13
Matrix:	Water	Received:	08/09/13
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	33	2.0	0.1
1,1-Dichloroethene	5.3	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	0.5 J	0.5	0.1
cis-1,2-Dichloroethene	0.9	0.5	0.1
Chloroform	1.0	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	0.1 J	0.5	0.1
1,2-Dichloroethane	0.1 J	0.5	0.1
Trichloroethene	90	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	3.2	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	98	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	92	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	EMW-03	Batch#:	201672
Lab ID:	247818-006	Sampled:	08/08/13
Matrix:	Water	Received:	08/09/13
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	0.6 J	2.0	0.1
1,1-Dichloroethene	1.0	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	0.3 J	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	1.7	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	0.9	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	97	76-138
Toluene-d8	101	80-120
Bromofluorobenzene	92	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	EMW-06	Batch#:	201672
Lab ID:	247818-007	Sampled:	08/08/13
Matrix:	Water	Received:	08/09/13
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	0.8 J	2.0	0.1
1,1-Dichloroethene	0.2 J	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.6 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	8.1	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	1.1	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	97	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	92	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	EMW-08R	Units:	ug/L
Lab ID:	247818-008	Sampled:	08/08/13
Matrix:	Water	Received:	08/09/13

Analyte	Result	RL	MDL	Diln Fac	Batch#	Analyzed
Chloromethane	ND	1.0	0.1	1.000	201672	08/14/13
Vinyl Chloride	ND	0.5	0.1	1.000	201672	08/14/13
Bromomethane	ND	1.0	0.1	1.000	201672	08/14/13
Chloroethane	ND	1.0	0.2	1.000	201672	08/14/13
Trichlorofluoromethane	1.2	1.0	0.1	1.000	201672	08/14/13
Freon 113	40	2.0	0.1	1.000	201672	08/14/13
1,1-Dichloroethene	25	0.5	0.1	1.000	201672	08/14/13
Methylene Chloride	ND	20	0.1	1.000	201672	08/14/13
trans-1,2-Dichloroethene	1.2	0.5	0.1	1.000	201672	08/14/13
1,1-Dichloroethane	ND	0.5	0.1	1.000	201672	08/14/13
cis-1,2-Dichloroethene	2.5	0.5	0.1	1.000	201672	08/14/13
Chloroform	23	1.0	0.1	1.000	201672	08/14/13
1,1,1-Trichloroethane	ND	0.5	0.1	1.000	201672	08/14/13
Carbon Tetrachloride	11	0.5	0.1	1.000	201672	08/14/13
1,2-Dichloroethane	ND	0.5	0.1	1.000	201672	08/14/13
Trichloroethene	290	2.5	0.5	5.000	201722	08/15/13
1,2-Dichloropropane	ND	0.5	0.1	1.000	201672	08/14/13
Bromodichloromethane	ND	0.5	0.1	1.000	201672	08/14/13
cis-1,3-Dichloropropene	ND	0.5	0.1	1.000	201672	08/14/13
trans-1,3-Dichloropropene	ND	0.5	0.1	1.000	201672	08/14/13
1,1,2-Trichloroethane	0.1 J	0.5	0.1	1.000	201672	08/14/13
Tetrachloroethene	22	0.5	0.1	1.000	201672	08/14/13
Dibromochloromethane	ND	0.5	0.1	1.000	201672	08/14/13
Chlorobenzene	ND	0.5	0.1	1.000	201672	08/14/13
Bromoform	ND	0.5	0.1	1.000	201672	08/14/13
1,1,2,2-Tetrachloroethane	ND	0.5	0.1	1.000	201672	08/14/13
1,3-Dichlorobenzene	ND	0.5	0.1	1.000	201672	08/14/13
1,4-Dichlorobenzene	ND	0.5	0.1	1.000	201672	08/14/13
1,2-Dichlorobenzene	ND	0.5	0.1	1.000	201672	08/14/13

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
1,2-Dichloroethane-d4	97	76-138	1.000	201672	08/14/13
Toluene-d8	100	80-120	1.000	201672	08/14/13
Bromofluorobenzene	93	80-125	1.000	201672	08/14/13

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	EMW-10R	Batch#:	201624
Lab ID:	247818-009	Sampled:	08/08/13
Matrix:	Water	Received:	08/09/13
Units:	ug/L	Analyzed:	08/13/13
Diln Fac:	5.000		

Analyte	Result	RL	MDL
Chloromethane	ND	5.0	1.1
Vinyl Chloride	ND	2.5	0.6
Bromomethane	ND	5.0	0.8
Chloroethane	ND	5.0	0.8
Trichlorofluoromethane	ND	5.0	0.9
Freon 113	11	10	0.8
1,1-Dichloroethene	ND	2.5	0.5
Methylene Chloride	ND	100	0.7
trans-1,2-Dichloroethene	ND	2.5	0.5
1,1-Dichloroethane	ND	2.5	0.5
cis-1,2-Dichloroethene	ND	2.5	0.5
Chloroform	0.8 J	5.0	0.5
1,1,1-Trichloroethane	ND	2.5	0.5
Carbon Tetrachloride	ND	2.5	0.5
1,2-Dichloroethane	ND	2.5	0.5
Trichloroethene	430	2.5	0.5
1,2-Dichloropropane	ND	2.5	0.8
Bromodichloromethane	ND	2.5	0.5
cis-1,3-Dichloropropene	ND	2.5	0.5
trans-1,3-Dichloropropene	ND	2.5	0.5
1,1,2-Trichloroethane	ND	2.5	0.8
Tetrachloroethene	3.8	2.5	0.5
Dibromochloromethane	ND	2.5	0.5
Chlorobenzene	ND	2.5	0.6
Bromoform	ND	2.5	0.5
1,1,2,2-Tetrachloroethane	ND	2.5	0.5
1,3-Dichlorobenzene	ND	2.5	0.5
1,4-Dichlorobenzene	ND	2.5	0.5
1,2-Dichlorobenzene	ND	2.5	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	106	76-138
Toluene-d8	98	80-120
Bromofluorobenzene	94	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	EMW-11R	Batch#:	201624
Lab ID:	247818-010	Sampled:	08/08/13
Matrix:	Water	Received:	08/09/13
Units:	ug/L	Analyzed:	08/13/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	7.5	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	3.1	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	52	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	2.5	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	108	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	94	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	EP-02R	Batch#:	201672
Lab ID:	247818-011	Sampled:	08/08/13
Matrix:	Water	Received:	08/09/13
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	8.2	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.3 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	51	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	0.1 J	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	97	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	92	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	NEW-03	Units:	ug/L
Lab ID:	247818-012	Sampled:	08/08/13
Matrix:	Water	Received:	08/09/13

Analyte	Result	RL	MDL	Diln Fac	Batch#	Analyzed
Chloromethane	ND	1.0	0.1	1.000	201672	08/14/13
Vinyl Chloride	ND	0.5	0.1	1.000	201672	08/14/13
Bromomethane	ND	1.0	0.1	1.000	201672	08/14/13
Chloroethane	ND	1.0	0.2	1.000	201672	08/14/13
Trichlorofluoromethane	ND	1.0	0.1	1.000	201672	08/14/13
Freon 113	25	2.0	0.1	1.000	201672	08/14/13
1,1-Dichloroethene	7.4	0.5	0.1	1.000	201672	08/14/13
Methylene Chloride	ND	20	0.1	1.000	201672	08/14/13
trans-1,2-Dichloroethene	ND	0.5	0.1	1.000	201672	08/14/13
1,1-Dichloroethane	0.9	0.5	0.1	1.000	201672	08/14/13
cis-1,2-Dichloroethene	1.3	0.5	0.1	1.000	201672	08/14/13
Chloroform	0.7 J	1.0	0.1	1.000	201672	08/14/13
1,1,1-Trichloroethane	ND	0.5	0.1	1.000	201672	08/14/13
Carbon Tetrachloride	ND	0.5	0.1	1.000	201672	08/14/13
1,2-Dichloroethane	0.2 J	0.5	0.1	1.000	201672	08/14/13
Trichloroethene	79	0.7	0.1	1.429	201722	08/15/13
1,2-Dichloropropane	ND	0.5	0.1	1.000	201672	08/14/13
Bromodichloromethane	ND	0.5	0.1	1.000	201672	08/14/13
cis-1,3-Dichloropropene	ND	0.5	0.1	1.000	201672	08/14/13
trans-1,3-Dichloropropene	ND	0.5	0.1	1.000	201672	08/14/13
1,1,2-Trichloroethane	ND	0.5	0.1	1.000	201672	08/14/13
Tetrachloroethene	3.6	0.5	0.1	1.000	201672	08/14/13
Dibromochloromethane	ND	0.5	0.1	1.000	201672	08/14/13
Chlorobenzene	ND	0.5	0.1	1.000	201672	08/14/13
Bromoform	ND	0.5	0.1	1.000	201672	08/14/13
1,1,2,2-Tetrachloroethane	ND	0.5	0.1	1.000	201672	08/14/13
1,3-Dichlorobenzene	ND	0.5	0.1	1.000	201672	08/14/13
1,4-Dichlorobenzene	ND	0.5	0.1	1.000	201672	08/14/13
1,2-Dichlorobenzene	ND	0.5	0.1	1.000	201672	08/14/13

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
1,2-Dichloroethane-d4	98	76-138	1.000	201672	08/14/13
Toluene-d8	101	80-120	1.000	201672	08/14/13
Bromofluorobenzene	91	80-125	1.000	201672	08/14/13

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GMW-13UC	Batch#:	201683
Lab ID:	247818-013	Sampled:	08/08/13
Matrix:	Water	Received:	08/09/13
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	0.2 J	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	2.8	2.0	0.2
1,1-Dichloroethene	2.0	0.5	0.2
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	1.2	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	2.5	0.5	0.1
1,2-Dichloroethane	0.4 J	0.5	0.1
Trichloroethene	75	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	0.2 J	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	109	76-138
Toluene-d8	101	80-120
Bromofluorobenzene	102	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	EMW-12R	Batch#:	201746
Lab ID:	247818-014	Sampled:	08/08/13
Matrix:	Water	Received:	08/09/13
Units:	ug/L	Analyzed:	08/15/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	4.0	2.0	0.1
1,1-Dichloroethene	8.4	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	0.5 J	0.5	0.1
cis-1,2-Dichloroethene	0.3 J	0.5	0.1
Chloroform	1.0 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	17	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	0.3 J	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	1.5	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	107	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	104	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	SB-11LC	Batch#:	201683
Lab ID:	247818-015	Sampled:	08/08/13
Matrix:	Water	Received:	08/09/13
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	0.9	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	110	76-138
Toluene-d8	101	80-120
Bromofluorobenzene	101	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GMW-10LC	Batch#:	201683
Lab ID:	247818-016	Sampled:	08/08/13
Matrix:	Water	Received:	08/09/13
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	0.9	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	110	76-138
Toluene-d8	102	80-120
Bromofluorobenzene	98	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GMW-21UC	Batch#:	201683
Lab ID:	247818-017	Sampled:	08/08/13
Matrix:	Water	Received:	08/09/13
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	0.2 J	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	111	76-138
Toluene-d8	102	80-120
Bromofluorobenzene	100	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GMW-11UC	Batch#:	201683
Lab ID:	247818-018	Sampled:	08/08/13
Matrix:	Water	Received:	08/09/13
Units:	ug/L	Analyzed:	08/15/13
Diln Fac:	2.000		

Analyte	Result	RL	MDL
Chloromethane	ND	2.0	0.2
Vinyl Chloride	0.4 J	1.0	0.2
Bromomethane	0.4 J	2.0	0.2
Chloroethane	ND	2.0	0.2
Trichlorofluoromethane	ND	2.0	0.3
Freon 113	ND	4.0	0.3
1,1-Dichloroethene	ND	1.0	0.3
Methylene Chloride	0.7 J	40	0.3
trans-1,2-Dichloroethene	ND	1.0	0.3
1,1-Dichloroethane	ND	1.0	0.2
cis-1,2-Dichloroethene	ND	1.0	0.3
Chloroform	ND	2.0	0.2
1,1,1-Trichloroethane	ND	1.0	0.3
Carbon Tetrachloride	ND	1.0	0.2
1,2-Dichloroethane	ND	1.0	0.2
Trichloroethene	1.1	1.0	0.2
1,2-Dichloropropane	ND	1.0	0.2
Bromodichloromethane	ND	1.0	0.2
cis-1,3-Dichloropropene	ND	1.0	0.2
trans-1,3-Dichloropropene	ND	1.0	0.2
1,1,2-Trichloroethane	ND	1.0	0.2
Tetrachloroethene	ND	1.0	0.2
Dibromochloromethane	ND	1.0	0.2
Chlorobenzene	ND	1.0	0.2
Bromoform	ND	1.0	0.2
1,1,2,2-Tetrachloroethane	ND	1.0	0.2
1,3-Dichlorobenzene	ND	1.0	0.2
1,4-Dichlorobenzene	ND	1.0	0.2
1,2-Dichlorobenzene	ND	1.0	0.2

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	113	76-138
Toluene-d8	102	80-120
Bromofluorobenzene	101	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GMW-23UC	Batch#:	201683
Lab ID:	247818-019	Sampled:	08/08/13
Matrix:	Water	Received:	08/09/13
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	110	76-138
Toluene-d8	103	80-120
Bromofluorobenzene	100	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	EMW-07R	Batch#:	201683
Lab ID:	247818-020	Sampled:	08/08/13
Matrix:	Water	Received:	08/09/13
Units:	ug/L	Analyzed:	08/15/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.2 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	0.3 J	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	0.7	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	112	76-138
Toluene-d8	102	80-120
Bromofluorobenzene	101	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	EMW-103	Batch#:	201683
Lab ID:	247818-021	Sampled:	08/08/13
Matrix:	Water	Received:	08/09/13
Units:	ug/L	Analyzed:	08/15/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	0.8 J	2.0	0.2
1,1-Dichloroethene	0.8	0.5	0.2
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	0.2 J	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	1.6	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	0.8	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	112	76-138
Toluene-d8	102	80-120
Bromofluorobenzene	101	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GMW-113UC	Batch#:	201683
Lab ID:	247818-022	Sampled:	08/08/13
Matrix:	Water	Received:	08/09/13
Units:	ug/L	Analyzed:	08/15/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	0.2 J	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	2.6	2.0	0.2
1,1-Dichloroethene	1.8	0.5	0.2
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	1.2	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	2.3	0.5	0.1
1,2-Dichloroethane	0.4 J	0.5	0.1
Trichloroethene	71	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	0.2 J	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	112	76-138
Toluene-d8	103	80-120
Bromofluorobenzene	101	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	EMW-107R	Batch#:	201683
Lab ID:	247818-023	Sampled:	08/08/13
Matrix:	Water	Received:	08/09/13
Units:	ug/L	Analyzed:	08/15/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.2 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	0.3 J	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	0.7	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	111	76-138
Toluene-d8	102	80-120
Bromofluorobenzene	102	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	TRIP BLANK	Batch#:	201683
Lab ID:	247818-024	Sampled:	08/08/13
Matrix:	Water	Received:	08/09/13
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	107	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	102	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	201594
Units:	ug/L	Analyzed:	08/12/13
Diln Fac:	1.000		

Type: BS Lab ID: QC701400

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	13.56	108	77-132
Trichloroethene	12.50	13.58	109	80-120
Chlorobenzene	12.50	13.77	110	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	105	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	99	80-125

Type: BSD Lab ID: QC701401

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	12.88	103	77-132	5	20
Trichloroethene	12.50	12.81	102	80-120	6	20
Chlorobenzene	12.50	13.24	106	80-120	4	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	104	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	97	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC701402	Batch#:	201594
Matrix:	Water	Analyzed:	08/12/13
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	0.1 J	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	105	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	102	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	201624
Units:	ug/L	Analyzed:	08/13/13
Diln Fac:	1.000		

Type: BS Lab ID: QC701535

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	24.07	96	77-132
Trichloroethene	25.00	27.36	109	80-120
Chlorobenzene	25.00	29.12	116	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	97	76-138
Toluene-d8	98	80-120
Bromofluorobenzene	90	80-125

Type: BSD Lab ID: QC701536

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	24.26	97	77-132	1	20
Trichloroethene	25.00	28.53	114	80-120	4	20
Chlorobenzene	25.00	29.17	117	80-120	0	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	97	76-138
Toluene-d8	95	80-120
Bromofluorobenzene	89	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC701537	Batch#:	201624
Matrix:	Water	Analyzed:	08/13/13
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	101	76-138
Toluene-d8	94	80-120
Bromofluorobenzene	88	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	201672
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Type: BS Lab ID: QC701750

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	13.27	106	77-132
Trichloroethene	12.50	13.09	105	80-120
Chlorobenzene	12.50	13.88	111	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	98	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	89	80-125

Type: BSD Lab ID: QC701751

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	13.04	104	77-132	2	20
Trichloroethene	12.50	12.78	102	80-120	2	20
Chlorobenzene	12.50	13.75	110	80-120	1	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	97	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	89	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC701752	Batch#:	201672
Matrix:	Water	Analyzed:	08/14/13
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	97	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	93	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	201683
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Type: BS Lab ID: QC701790

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	13.38	107	77-132
Trichloroethene	12.50	13.40	107	80-120
Chlorobenzene	12.50	14.03	112	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	104	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	99	80-125

Type: BSD Lab ID: QC701791

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	12.41	99	77-132	8	20
Trichloroethene	12.50	12.83	103	80-120	4	20
Chlorobenzene	12.50	13.31	106	80-120	5	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	105	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	100	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC701792	Batch#:	201683
Matrix:	Water	Analyzed:	08/14/13
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	0.1 J	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	106	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	101	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	201722
Units:	ug/L	Analyzed:	08/15/13
Diln Fac:	1.000		

Type: BS Lab ID: QC701952

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	13.74	110	77-132
Trichloroethene	12.50	12.83	103	80-120
Chlorobenzene	12.50	13.66	109	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	98	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	88	80-125

Type: BSD Lab ID: QC701953

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	13.47	108	77-132	2	20
Trichloroethene	12.50	12.66	101	80-120	1	20
Chlorobenzene	12.50	13.81	110	80-120	1	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	97	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	89	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC701954	Batch#:	201722
Matrix:	Water	Analyzed:	08/15/13
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.1 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	96	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	90	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC702053	Batch#:	201746
Matrix:	Water	Analyzed:	08/15/13
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.1 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	106	76-138
Toluene-d8	98	80-120
Bromofluorobenzene	102	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	201746
Units:	ug/L	Analyzed:	08/15/13
Diln Fac:	1.000		

Type: BS Lab ID: QC702054

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	20.00	20.05	100	77-132
Trichloroethene	20.00	20.25	101	80-120
Chlorobenzene	20.00	20.86	104	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	105	76-138
Toluene-d8	98	80-120
Bromofluorobenzene	99	80-125

Type: BSD Lab ID: QC702055

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	20.00	19.54	98	77-132	3	20
Trichloroethene	20.00	19.44	97	80-120	4	20
Chlorobenzene	20.00	20.64	103	80-120	1	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	105	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	100	80-125

RPD= Relative Percent Difference

Initial & Continuing Calibration Data

CURTIS & TOMPKINS BFB TUNE FOR 247818 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : BFB IDF : 1.0
Seqnum : 483147320011 File : idc11 Time : 12-APR-2013 14:37

Standards: S21369

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	82690	20.27	
75	30% - 60% of mass 95	177445	43.49	
95		408000	100.00	
96	5% - 9% of mass 95	27293	6.69	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	324138	79.45	
175	5% - 9% of mass 174	24104	7.44	
176	> 95% and < 101% of mass 174	310613	95.83	
177	5% - 9% of mass 176	20056	6.46	

Analyst: MJB Date: 04/15/13 Reviewer: TW Date: 04/17/13

CURTIS & TOMPKINS BFB TUNE FOR 247818 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : BFB IDF : 1.0
Seqnum : 483324446004 File : ihd04 Time : 13-AUG-2013 09:23

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	77880	18.81	
75	30% - 60% of mass 95	181021	43.73	
95		413973	100.00	
96	5% - 9% of mass 95	28150	6.80	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	392362	94.78	
175	5% - 9% of mass 174	30048	7.66	
176	> 95% and < 101% of mass 174	389120	99.17	
177	5% - 9% of mass 176	26200	6.73	

Analyst: MJB Date: 08/13/13 Reviewer: BO Date: 08/14/13

CURTIS & TOMPKINS BFB TUNE FOR 247818 MSVOA Water
EPA 8260B

Inst : MSVOA11 Run Name : BFB IDF : 1.0
Seqnum : 833307436003 File : kh103 Time : 01-AUG-2013 13:36

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	6573	18.08	
75	30% - 60% of mass 95	17961	49.40	
95		36360	100.00	
96	5% - 9% of mass 95	2434	6.69	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	29106	80.05	
175	5% - 9% of mass 174	2052	7.05	
176	> 95% and < 101% of mass 174	28397	97.56	
177	5% - 9% of mass 176	2078	7.32	

Analyst: BO Date: 08/02/13 Reviewer: LW Date: 08/02/13

CURTIS & TOMPKINS BFB TUNE FOR 247818 MSVOA Water
EPA 8260B

Inst : MSVOA11 Run Name : BFB IDF : 1.0
Seqnum : 833327616002 File : khf02 Time : 15-AUG-2013 12:57

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	6693	17.94	
75	30% - 60% of mass 95	17740	47.56	
95		37301	100.00	
96	5% - 9% of mass 95	2568	6.88	
173	< 2% of mass 174	86	0.30	
174	> 50% and < 100% of mass 95	28584	76.63	
175	5% - 9% of mass 174	2086	7.30	
176	> 95% and < 101% of mass 174	27357	95.71	
177	5% - 9% of mass 176	1851	6.77	

Analyst: TEW Date: 08/15/13 Reviewer: BO Date: 08/16/13

CURTIS & TOMPKINS BFB TUNE FOR 247818 MSVOA Water
EPA 8260B

Inst : MSVOA13 Run Name : BFB IDF : 1.0
Seqnum : 943295688006 File : mgo06 Time : 24-JUL-2013 10:56

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	11013	18.87	
75	30% - 60% of mass 95	30587	52.42	
95		58355	100.00	
96	5% - 9% of mass 95	4166	7.14	
173	< 2% of mass 174	198	0.53	
174	> 50% and < 100% of mass 95	37541	64.33	
175	5% - 9% of mass 174	2886	7.69	
176	> 95% and < 101% of mass 174	36371	96.88	
177	5% - 9% of mass 176	2198	6.04	

Analyst: BO Date: 07/25/13 Reviewer: LW Date: 07/25/13

CURTIS & TOMPKINS BFB TUNE FOR 247818 MSVOA Water
EPA 8260B

Inst : MSVOA13 Run Name : BFB IDF : 1.0
Seqnum : 943297216002 File : mgp02 Time : 25-JUL-2013 10:01

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	12837	21.43	
75	30% - 60% of mass 95	33613	56.10	
95		59912	100.00	
96	5% - 9% of mass 95	4091	6.83	
173	< 2% of mass 174	276	0.75	
174	> 50% and < 100% of mass 95	36725	61.30	
175	5% - 9% of mass 174	2657	7.23	
176	> 95% and < 101% of mass 174	35648	97.07	
177	5% - 9% of mass 176	2491	6.99	

Analyst: BO Date: 07/25/13 Reviewer: LW Date: 07/25/13

CURTIS & TOMPKINS BFB TUNE FOR 247818 MSVOA Water
EPA 8260B

Inst : MSVOA13 Run Name : BFB IDF : 1.0
Seqnum : 943323354002 File : mhc02 Time : 12-AUG-2013 13:40

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	15859	21.04	
75	30% - 60% of mass 95	40491	53.72	
95		75376	100.00	
96	5% - 9% of mass 95	4872	6.46	
173	< 2% of mass 174	205	0.47	
174	> 50% and < 100% of mass 95	44059	58.45	
175	5% - 9% of mass 174	3450	7.83	
176	> 95% and < 101% of mass 174	43560	98.87	
177	5% - 9% of mass 176	3067	7.04	

Analyst: BO Date: 08/13/13 Reviewer: SJD Date: 08/13/13

CURTIS & TOMPKINS BFB TUNE FOR 247818 MSVOA Water
EPA 8260B

Inst : MSVOA13 Run Name : BFB IDF : 1.0
Seqnum : 943325988008 File : mhe08 Time : 14-AUG-2013 14:44

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	14987	19.44	
75	30% - 60% of mass 95	41355	53.65	
95		77080	100.00	
96	5% - 9% of mass 95	5651	7.33	
173	< 2% of mass 174	324	0.62	
174	> 50% and < 100% of mass 95	52253	67.79	
175	5% - 9% of mass 174	3510	6.72	
176	> 95% and < 101% of mass 174	49997	95.68	
177	5% - 9% of mass 176	3389	6.78	

Analyst: BO Date: 08/15/13 Reviewer: SJD Date: 08/15/13

CURTIS & TOMPKINS BFB TUNE FOR 247818 MSVOA Water
EPA 8260B

Inst : MSVOA14 Run Name : BFB IDF : 1.0
Seqnum : 953314372003 File : nh603 Time : 06-AUG-2013 07:53

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	9545	17.44	
75	30% - 60% of mass 95	25195	46.05	
95		54715	100.00	
96	5% - 9% of mass 95	3601	6.58	
173	< 2% of mass 174	339	0.81	
174	> 50% and < 100% of mass 95	42101	76.95	
175	5% - 9% of mass 174	2895	6.88	
176	> 95% and < 101% of mass 174	40189	95.46	
177	5% - 9% of mass 176	2742	6.82	

Analyst: MCT Date: 08/07/13 Reviewer: SJD Date: 08/08/13

CURTIS & TOMPKINS BFB TUNE FOR 247818 MSVOA Water
EPA 8260B

Inst : MSVOA14 Run Name : BFB IDF : 1.0
Seqnum : 953325804002 File : nhe02 Time : 14-AUG-2013 07:16

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	9212	19.46	
75	30% - 60% of mass 95	22203	46.90	
95		47341	100.00	
96	5% - 9% of mass 95	3256	6.88	
173	< 2% of mass 174	452	1.25	
174	> 50% and < 100% of mass 95	36301	76.68	
175	5% - 9% of mass 174	2809	7.74	
176	> 95% and < 101% of mass 174	35072	96.61	
177	5% - 9% of mass 176	2393	6.82	

Analyst: MCT Date: 08/14/13 Reviewer: BO Date: 08/15/13

CURTIS & TOMPKINS BFB TUNE FOR 247818 MSVOA Water
EPA 8260B

Inst : MSVOA14 Run Name : BFB IDF : 1.0
Seqnum : 953327254002 File : nhf02 Time : 15-AUG-2013 06:45

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	9039	20.44	
75	30% - 60% of mass 95	21616	48.89	
95		44213	100.00	
96	5% - 9% of mass 95	2769	6.26	
173	< 2% of mass 174	495	1.41	
174	> 50% and < 100% of mass 95	35029	79.23	
175	5% - 9% of mass 174	2636	7.53	
176	> 95% and < 101% of mass 174	34504	98.50	
177	5% - 9% of mass 176	2376	6.89	

Analyst: MCT Date: 08/15/13 Reviewer: BO Date: 08/16/13

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 247818 MSVOA Water: EPA 8260B

Inst : MSVOA09 Name : 826GOX9W
Calnum : 483147320002 Date : 12-APR-2013 16:14 Type : WATER
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	idc14	483147320014		12-APR-2013 16:14	S21889 (2000000X), S21761 (1000000X), S21635 (2000000X), S21908 (2000000X), S22165 (5000X)
L2	idc15	483147320015		12-APR-2013 16:49	S21889 (1000000X), S21761 (500000X), S21635 (1000000X), S21908 (1000000X), S22165 (5000X)
L3	idc16	483147320016		12-APR-2013 17:23	S21889 (250000X), S21761 (250000X), S21635 (500000X), S21908 (250000X), S22165 (5000X)
L4	idc17	483147320017		12-APR-2013 17:58	S21889 (100000X), S21761 (100000X), S21635 (200000X), S21908 (100000X), S22165 (5000X)
L5	idc18	483147320018		12-APR-2013 18:32	S21889 (50000X), S21761 (50000X), S21635 (100000X), S21908 (50000X), S22165 (5000X)
L6	idc19	483147320019		12-APR-2013 19:06	S21889 (25000X), S21761 (25000X), S21635 (50000X), S21908 (25000X), S22165 (5000X)
L7	idc20	483147320020		12-APR-2013 19:41	S21889 (10000X), S21761 (10000X), S21635 (20000X), S21908 (10000X), S22165 (5000X)
L8	idc21	483147320021		12-APR-2013 20:15	S21889 (6667X), S21761 (6667X), S21635 (13330X), S21908 (6667X), S22165 (5000X)
L9	idc22	483147320022		12-APR-2013 20:50	S21889 (5000X), S21761 (5000X), S21635 (10000X), S21908 (5000X), S22165 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Chloromethane	0.6814	0.6494	0.6139	0.5558	0.5799	0.6241	0.5400	0.5369	0.5279	AVRG		1.69513		0.5899	9	15	0.10	0.99	
Vinyl Chloride	0.3855	0.4200	0.3887	0.3695	0.3820	0.4169	0.3727	0.3276	0.3327	AVRG		2.65044		0.3773	8	15	0.05	0.99	
Bromomethane		0.1642m	0.1655	0.1593	0.1706	0.2125	0.2143	0.1889	0.2101	AVRG		5.38545		0.1857	13	15	0.05	0.99	
Chloroethane		0.2946m	0.2784	0.2570	0.2538	0.2779	0.2452	0.2137	0.2217	AVRG		3.91703		0.2553	11	15	0.05	0.99	
Trichlorofluoromethane		0.4651	0.4719	0.4475	0.4536	0.4826	0.4441	0.4438	0.4259	AVRG		2.20107		0.4543	4	15	0.05	0.99	
Freon 113		0.1862	0.2660	0.2461	0.2318	0.2487	0.2484	0.2599	0.2472	AVRG		4.13554		0.2418	10	15	0.05	0.99	
1,1-Dichloroethene		0.2949	0.2791	0.2696	0.2662	0.2847	0.2651	0.2735	0.2650	AVRG		3.63951		0.2748	4	15	0.05	0.99	
Methylene Chloride		0.3676	0.3880	0.3662	0.3658	0.3832	0.3550	0.3524	0.3485	AVRG		2.73350		0.3658	4	15	0.05	0.99	
trans-1,2-Dichloroethene		0.3484	0.3170	0.3139	0.3128	0.3296	0.3141	0.3250	0.3082	AVRG		3.11415		0.3211	4	15	0.05	0.99	
1,1-Dichloroethane		0.7302	0.6930	0.6590	0.6930	0.7100	0.6572	0.6603	0.6285	AVRG		1.47296		0.6789	5	15	0.10	0.99	
cis-1,2-Dichloroethene		0.3834	0.3921	0.3581	0.3614	0.3787	0.3595	0.3621	0.3545	AVRG		2.71194		0.3687	4	15	0.05	0.99	
Chloroform		0.6132	0.6115	0.5692	0.6017	0.6153	0.5736	0.5814	0.5517	AVRG		1.69581		0.5897	4	15	0.05	0.99	
1,1,1-Trichloroethane		0.4418	0.4519	0.4104	0.4142	0.4274	0.4084	0.4136	0.4007	AVRG		2.37493		0.4211	4	15	0.05	0.99	
Carbon Tetrachloride		0.2464	0.2455	0.2319	0.2346	0.2470	0.2412	0.2501	0.2449	AVRG		4.12026		0.2427	3	15	0.05	0.99	
1,2-Dichloroethane		0.2796	0.2983	0.2627	0.2789	0.2870	0.2671	0.2774	0.2629	AVRG		3.61359		0.2767	4	15	0.05	0.99	
Trichloroethene		0.2300	0.2297	0.2097	0.2309	0.2310	0.2258	0.2279	0.2152	AVRG		4.44407		0.2250	4	15	0.05	0.99	
1,2-Dichloropropane		0.2917	0.2909	0.2705	0.2831	0.2920	0.2676	0.2703	0.2583	AVRG		3.59643		0.2781	5	15	0.05	0.99	
Bromodichloromethane		0.3031	0.2955	0.2794	0.2950	0.3098	0.2911	0.2973	0.2913	AVRG		3.38608		0.2953	3	15	0.05	0.99	
cis-1,3-Dichloropropene		0.3400	0.3513	0.3238	0.3447	0.3593	0.3325	0.3378	0.3195	AVRG		2.95316		0.3386	4	15	0.05	0.99	
trans-1,3-Dichloropropene		0.3464	0.4017	0.3801	0.4071	0.4232	0.4010	0.4025	0.3975	AVRG		2.53191		0.3950	6	15	0.05	0.99	
1,1,2-Trichloroethane		0.1229	0.1381	0.1341	0.1389	0.1422	0.1348	0.1400	0.1378	AVRG		7.34592		0.1361	4	15	0.05	0.99	
Tetrachloroethene		0.2574	0.2560	0.2447	0.2511	0.2625	0.2628	0.2708	0.2614	AVRG		3.87089		0.2583	3	15	0.05	0.99	
Dibromochloromethane		0.2610	0.2700	0.2703	0.2853	0.3091	0.2899	0.3118	0.3106	AVRG		3.46628		0.2885	7	15	0.05	0.99	
Chlorobenzene		0.7289	0.7712	0.7297	0.7391	0.7635	0.7239	0.7273	0.7034	AVRG		1.35891		0.7359	3	15	0.30	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Bromoform		0.1254	0.1609	0.1577	0.1699	0.1795	0.1824	0.1944	0.1990	AVRG		5.84287		0.1711	14	15	0.10	0.99	
1,1,2,2-Tetrachloroethane		0.5668	0.6096	0.5952	0.5871	0.6072	0.5649	0.6160	0.6253	AVRG		1.67647		0.5965	4	15	0.30	0.99	
1,3-Dichlorobenzene		0.9508	1.0994	1.0608	1.0408	1.1101	1.0904	1.0959	1.0953	AVRG		0.93638		1.0679	5	15	0.05	0.99	
1,4-Dichlorobenzene		1.0187	1.0892	1.0456	1.0709	1.0859	1.0743	1.0917	1.0938	AVRG		0.93347		1.0713	2	15	0.05	0.99	
1,2-Dichlorobenzene		0.8927	1.0783	1.0048	1.0073	1.0683	1.0544	1.0697	1.0611	AVRG		0.97127		1.0296	6	15	0.05	0.99	
1,2-Dichloroethane-d4	0.3101	0.3096	0.3146	0.3177	0.3128	0.3105	0.2957	0.2978	0.2777	AVRG		3.27684		0.3052	4	15	0.05	0.99	
Toluene-d8	1.2928	1.3445	1.3757	1.3977	1.4204	1.4087	1.4242	1.4355	1.3842	AVRG		0.72094		1.3871	3	15	0.05	0.99	
Bromofluorobenzene	1.0104	1.0400	1.0558	1.0411	1.0470	1.0375	1.0504	0.9933	1.0202	AVRG		0.96818		1.0329	2	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Chloromethane	0.5000	16	1.0000	10	2.0000	4	5.0000	-6	10.000	-2	20.000	6	50.000	-8	75.000	-9	100.00	-11
Vinyl Chloride	0.5000	2	1.0000	11	2.0000	3	5.0000	-2	10.000	1	20.000	10	50.000	-1	75.000	-13	100.00	-12
Bromomethane			1.0000	-12	2.0000	-11	5.0000	-14	10.000	-8	20.000	14	50.000	15	75.000	2	100.00	13
Chloroethane			1.0000	15	2.0000	9	5.0000	1	10.000	-1	20.000	9	50.000	-4	75.000	-16	100.00	-13
Trichlorofluoromethane			1.0000	2	2.0000	4	5.0000	-2	10.000	0	20.000	6	50.000	-2	75.000	-2	100.00	-6
Freon 113			0.5000	**-23**	2.0000	10	5.0000	2	10.000	-4	20.000	3	50.000	3	75.000	8	100.00	2
1,1-Dichloroethene			0.5000	7	2.0000	2	5.0000	-2	10.000	-3	20.000	4	50.000	-4	75.000	0	100.00	-4
Methylene Chloride			0.5000	0	2.0000	6	5.0000	0	10.000	0	20.000	5	50.000	-3	75.000	-4	100.00	-5
trans-1,2-Dichloroethene			0.5000	8	2.0000	-1	5.0000	-2	10.000	-3	20.000	3	50.000	-2	75.000	1	100.00	-4
1,1-Dichloroethane			0.5000	8	2.0000	2	5.0000	-3	10.000	2	20.000	5	50.000	-3	75.000	-3	100.00	-7
cis-1,2-Dichloroethene			0.5000	4	2.0000	6	5.0000	-3	10.000	-2	20.000	3	50.000	-2	75.000	-2	100.00	-4
Chloroform			0.5000	4	2.0000	4	5.0000	-3	10.000	2	20.000	4	50.000	-3	75.000	-1	100.00	-6
1,1,1-Trichloroethane			0.5000	5	2.0000	7	5.0000	-3	10.000	-2	20.000	2	50.000	-3	75.000	-2	100.00	-5
Carbon Tetrachloride			0.5000	2	2.0000	1	5.0000	-4	10.000	-3	20.000	2	50.000	-1	75.000	3	100.00	1
1,2-Dichloroethane			0.5000	1	2.0000	8	5.0000	-5	10.000	1	20.000	4	50.000	-3	75.000	0	100.00	-5
Trichloroethene			0.5000	2	2.0000	2	5.0000	-7	10.000	3	20.000	3	50.000	0	75.000	1	100.00	-4
1,2-Dichloropropane			0.5000	5	2.0000	5	5.0000	-3	10.000	2	20.000	5	50.000	-4	75.000	-3	100.00	-7
Bromodichloromethane			0.5000	3	2.0000	0	5.0000	-5	10.000	0	20.000	5	50.000	-1	75.000	1	100.00	-1
cis-1,3-Dichloropropene			0.5000	0	2.0000	4	5.0000	-4	10.000	2	20.000	6	50.000	-2	75.000	0	100.00	-6
trans-1,3-Dichloropropene			0.5000	-12	2.0000	2	5.0000	-4	10.000	3	20.000	7	50.000	2	75.000	2	100.00	1
1,1,2-Trichloroethane			0.5000	-10	2.0000	1	5.0000	-1	10.000	2	20.000	4	50.000	-1	75.000	3	100.00	1
Tetrachloroethene			0.5000	0	2.0000	-1	5.0000	-5	10.000	-3	20.000	2	50.000	2	75.000	5	100.00	1
Dibromochloromethane			0.5000	-10	2.0000	-6	5.0000	-6	10.000	-1	20.000	7	50.000	0	75.000	8	100.00	8
Chlorobenzene			0.5000	-1	2.0000	5	5.0000	-1	10.000	0	20.000	4	50.000	-2	75.000	-1	100.00	-4
Bromoform			0.5000	**-27**	2.0000	-6	5.0000	-8	10.000	-1	20.000	5	50.000	7	75.000	14	100.00	16
1,1,2,2-Tetrachloroethane			0.5000	-5	2.0000	2	5.0000	0	10.000	-2	20.000	2	50.000	-5	75.000	3	100.00	5
1,3-Dichlorobenzene			0.5000	-11	2.0000	3	5.0000	-1	10.000	-3	20.000	4	50.000	2	75.000	3	100.00	3
1,4-Dichlorobenzene			0.5000	-5	2.0000	2	5.0000	-2	10.000	0	20.000	1	50.000	0	75.000	2	100.00	2
1,2-Dichlorobenzene			0.5000	-13	2.0000	5	5.0000	-2	10.000	-2	20.000	4	50.000	2	75.000	4	100.00	3
1,2-Dichloroethane-d4	50.000	2	50.000	1	50.000	3	50.000	4	50.000	2	50.000	2	50.000	-3	50.000	-2	50.000	-9
Toluene-d8	50.000	-7	50.000	-3	50.000	-1	50.000	1	50.000	2	50.000	2	50.000	3	50.000	3	50.000	0
Bromofluorobenzene	50.000	-2	50.000	1	50.000	2	50.000	1	50.000	1	50.000	0	50.000	2	50.000	-4	50.000	-1

MJB 04/17/13 [Bromomethane]: Combined split peak in (idc15).

MJB 04/17/13 [Chloroethane]: Combined split peak in (idc15).

MJB 04/17/13 [Ethanol]: Combined split peak in (idc15).

MJB 04/17/13 [4-Methyl-2-Pentanone]: Picked or reassigned peak in (idc15).

MJB 04/17/13 [Naphthalene]: Combined split peak in (idc15).

MJB 04/17/13 : All integrations for file 15 done by TW

MJB 04/17/13 [4-Methyl-2-Pentanone]: Picked or reassigned peak in (idc18).

MJB 04/17/13 [4-Methyl-2-Pentanone]: Picked or reassigned peak in (idc19).

MJB 04/17/13 [Acetone]: Fails min RF; no 8260C samples.

MJB 04/17/13 [Iodomethane]: ICV at -63; do not run samples for this analyte.

TW 04/17/13 [Acetone]: Fails 8260C min RF; Acetone cannot be reported for 8260C jobs from this calibration. Meets Avg RF criteria for 8260B.

Analyst: MJB Date: 04/17/13 Reviewer: TW Date: 04/17/13

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 247818 MSVOA Water
EPA 8260B

Inst : MSVOA09 Name : 826GOX9W
Calnum : 483147320002 Cal Date : 12-APR-2013 Type : WATER

ICV 483147320023 (idc23 12-APR-2013) stds: S21932 (10000X), S22165 (5000X)
ICV 483147320024 (idc24 12-APR-2013) stds: S21957 (10000X), S22045 (10000X), S22146 (10000X), S22165 (5000X)

Analyte	ICV Seqnum	Spiked	Quant	Units	%D	Max	Flags
Chloromethane	483147320023	20.00	19.18	ug/L	-4	30	
Vinyl Chloride	483147320023	20.00	21.44	ug/L	7	20	
Bromomethane	483147320023	20.00	14.73	ug/L	**-26**	30	!v- m
Chloroethane	483147320023	20.00	18.42	ug/L	-8	30	
Trichlorofluoromethane	483147320023	20.00	19.86	ug/L	-1	30	
Freon 113	483147320024	25.00	27.29	ug/L	9	30	
1,1-Dichloroethene	483147320024	25.00	25.97	ug/L	4	20	
Methylene Chloride	483147320024	25.00	26.16	ug/L	5	30	
trans-1,2-Dichloroethene	483147320024	25.00	27.41	ug/L	10	30	
1,1-Dichloroethane	483147320024	25.00	25.36	ug/L	1	30	
cis-1,2-Dichloroethene	483147320024	25.00	26.70	ug/L	7	30	
Chloroform	483147320024	25.00	26.04	ug/L	4	20	
1,1,1-Trichloroethane	483147320024	25.00	25.61	ug/L	2	30	
Carbon Tetrachloride	483147320024	25.00	27.14	ug/L	9	30	
1,2-Dichloroethane	483147320024	25.00	25.77	ug/L	3	30	
Trichloroethene	483147320024	25.00	26.74	ug/L	7	30	
1,2-Dichloropropane	483147320024	25.00	25.30	ug/L	1	20	
Bromodichloromethane	483147320024	25.00	26.42	ug/L	6	30	
cis-1,3-Dichloropropene	483147320024	25.00	29.58	ug/L	18	30	
trans-1,3-Dichloropropene	483147320024	25.00	25.99	ug/L	4	30	
1,1,2-Trichloroethane	483147320024	25.00	27.32	ug/L	9	30	
Tetrachloroethene	483147320024	25.00	26.94	ug/L	8	30	
Dibromochloromethane	483147320024	25.00	27.10	ug/L	8	30	
Chlorobenzene	483147320024	25.00	24.83	ug/L	-1	30	
Bromoform	483147320024	25.00	29.82	ug/L	19	30	
1,1,2,2-Tetrachloroethane	483147320024	25.00	28.35	ug/L	13	30	
1,3-Dichlorobenzene	483147320024	25.00	25.42	ug/L	2	30	
1,4-Dichlorobenzene	483147320024	25.00	27.83	ug/L	11	30	
1,2-Dichlorobenzene	483147320024	25.00	26.05	ug/L	4	30	

483147320023: Analyst: MJB Date: 04/17/13 Reviewer: TW Date: 04/17/13
483147320024: Analyst: MJB Date: 04/17/13 Reviewer: TW Date: 04/17/13

!=warning -=low bias m=manual integration v=ICV

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 247818 MSVOA Water: EPA 8260B

Inst : MSVOA11 Name : 8260GX11
Calnum : 833307436001 Date : 01-AUG-2013 15:02 Type : WATER
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	kh106	833307436006	.25/.5PPB	01-AUG-2013 15:02	S21953 (2000000X), S22575 (2000000X), S22920 (2000000X), S22141 (1000000X), S22937 (2500X)
L2	kh107	833307436007	0.5/1PPB	01-AUG-2013 15:31	S21953 (1000000X), S22575 (1000000X), S22920 (1000000X), S22141 (500000X), S22937 (2500X)
L3	kh108	833307436008	2PPB	01-AUG-2013 15:59	S21953 (500000X), S22575 (250000X), S22920 (250000X), S22141 (250000X), S22937 (2500X)
L4	kh109	833307436009	5PPB	01-AUG-2013 16:27	S21953 (200000X), S22575 (100000X), S22920 (100000X), S22141 (100000X), S22937 (2500X)
L5	kh110	833307436010	10PPB	01-AUG-2013 16:56	S21953 (100000X), S22575 (50000X), S22920 (50000X), S22141 (50000X), S22937 (2500X)
L6	kh111	833307436011	20PPB	01-AUG-2013 17:24	S21953 (50000X), S22575 (25000X), S22920 (25000X), S22141 (25000X), S22937 (2500X)
L7	kh112	833307436012	50PPB	01-AUG-2013 17:52	S21953 (20000X), S22575 (10000X), S22920 (10000X), S22141 (10000X), S22937 (2500X)
L8	kh113	833307436013	75PPB	01-AUG-2013 18:21	S21953 (13330X), S22575 (6667X), S22920 (6667X), S22141 (6667X), S22937 (2500X)
L9	kh114	833307436014	100PPB	01-AUG-2013 18:49	S21953 (10000X), S22575 (5000X), S22920 (5000X), S22141 (5000X), S22937 (2500X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Chloromethane	0.7977	0.6887	0.7477	0.7897	0.7708	0.7799	0.8092	0.6344	0.8284	AVRG		1.31452		0.7607	8	15	0.10	0.99	
Vinyl Chloride	0.6636m	0.6702	0.6679	0.7126	0.6894	0.6883	0.7431	0.6914	0.7280	AVRG		1.43897		0.6949	4	15	0.05	0.99	
Bromomethane		0.2088	0.2618	0.2857	0.2666	0.2681	0.2822			AVRG		3.81371		0.2622	11	15	0.05	0.99	
Chloroethane		0.3648	0.3826m	0.4005	0.3882	0.3911	0.4070	0.3534	0.3958	AVRG		2.59442		0.3854	5	15	0.05	0.99	
Trichlorofluoromethane		0.6520	0.7084	0.7475	0.6599	0.6643	0.7523	0.7429	0.7497	AVRG		1.40917		0.7096	6	15	0.05	0.99	
Freon 113		0.3259	0.4118	0.4203	0.3905	0.4145	0.4436	0.4354	0.4394	AVRG		2.43801		0.4102	9	15	0.05	0.99	
1,1-Dichloroethene		0.4169m	0.4432	0.4187	0.3918	0.4166	0.4371	0.4271	0.4334	AVRG		2.36349		0.4231	4	15	0.05	0.99	
Methylene Chloride		0.5087	0.5426	0.5422	0.5224	0.5267	0.5495	0.5159	0.5364	AVRG		1.88484		0.5305	3	15	0.05	0.99	
trans-1,2-Dichloroethene		0.5199	0.5043	0.4994	0.4782	0.4850	0.5112	0.4950	0.5008	AVRG		2.00300		0.4993	3	15	0.05	0.99	
1,1-Dichloroethane		1.0131	1.0328	1.0306	1.0187	1.0436	1.1006	0.9873	1.0606	AVRG		0.96533		1.0359	3	15	0.10	0.99	
cis-1,2-Dichloroethene		0.5837	0.5879	0.5870	0.5571	0.5793	0.5952	0.5726	0.5824	AVRG		1.72218		0.5807	2	15	0.05	0.99	
Chloroform		0.9774	0.9363	0.9297	0.9074	0.9254	0.9755	0.9314	0.9455	AVRG		1.06263		0.9411	3	15	0.05	0.99	
1,1,1-Trichloroethane		0.7559	0.7631	0.7553	0.7355	0.7723	0.8139	0.7737	0.7883	AVRG		1.29913		0.7697	3	15	0.05	0.99	
Carbon Tetrachloride		0.2551	0.3015	0.3314	0.3272	0.3494	0.3865	0.3219	0.3912	AVRG		3.00275		0.3330	13	15	0.05	0.99	
1,2-Dichloroethane		0.4400	0.4372	0.4369	0.4394	0.4477	0.4639	0.4377	0.4474	AVRG		2.25339		0.4438	2	15	0.05	0.99	
Trichloroethene		0.3701	0.3669	0.3560	0.3451	0.3386	0.3609	0.3561	0.3638	AVRG		2.79951		0.3572	3	15	0.05	0.99	
1,2-Dichloropropane		0.4427	0.4139	0.4055m	0.4118m	0.4267	0.4514	0.4336	0.4433	AVRG		2.33312		0.4286	4	15	0.05	0.99	
Bromodichloromethane		0.4266	0.4612	0.4437	0.4543	0.4592	0.4835	0.4651	0.4767	AVRG		2.17973		0.4588	4	15	0.05	0.99	
cis-1,3-Dichloropropene		0.5751	0.5830	0.5897	0.5744	0.6039	0.6376	0.5808	0.6247	AVRG		1.67742		0.5962	4	15	0.05	0.99	
trans-1,3-Dichloropropene		0.6022	0.6125	0.6323	0.6176	0.6384	0.6701	0.5981	0.6434	AVRG		1.59532		0.6268	4	15	0.05	0.99	
1,1,2-Trichloroethane		0.2256	0.1925	0.1914	0.1953	0.1938	0.2023	0.1962	0.1955	AVRG		5.02356		0.1991	6	15	0.05	0.99	
Tetrachloroethene		0.3601	0.3384	0.3435	0.3274	0.3371	0.3634	0.3583	0.3658	AVRG		2.86347		0.3492	4	15	0.05	0.99	
Dibromochloromethane		0.3586	0.3751	0.3725	0.3662	0.3744	0.3973	0.3811	0.3907	AVRG		2.65263		0.3770	3	15	0.05	0.99	
Chlorobenzene		1.1159	1.0459	1.0517	0.9985	1.0497	1.0887	1.0488	1.0632	AVRG		0.94536		1.0578	3	15	0.30	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Bromoform		0.2148	0.2373	0.2281	0.2321	0.2404	0.2490	0.2400	0.2485	AVRG		4.23230		0.2363	5	15	0.10	0.99	
1,1,2,2-Tetrachloroethane		0.8009	0.8199	0.7859	0.7836	0.8567	0.8726	0.8316	0.8064	AVRG		1.21995		0.8197	4	15	0.30	0.99	
1,3-Dichlorobenzene		1.7750	1.6029	1.6105	1.4843	1.6212	1.6693	1.6275	1.6364	AVRG		0.61411		1.6284	5	15	0.05	0.99	
1,4-Dichlorobenzene		1.6742	1.6624	1.6532	1.5323	1.6443	1.6967	1.6314	1.6661	AVRG		0.60787		1.6451	3	15	0.05	0.99	
1,2-Dichlorobenzene		1.6299	1.5961	1.5568	1.4924	1.5801	1.6332	1.5887	1.6025	AVRG		0.63093		1.5850	3	15	0.05	0.99	
1,2-Dichloroethane-d4	0.3669	0.3704	0.3713	0.3745	0.3708	0.3776	0.3769	0.3715	0.3695	AVRG		2.68687		0.3722	1	15	0.05	0.99	
Toluene-d8	1.4674	1.4652	1.4650	1.4673	1.4605	1.4587	1.4676	1.4680	1.4499	AVRG		0.68339		1.4633	0	15	0.05	0.99	
Bromofluorobenzene	1.0235	1.0312	1.0229	1.0252	1.0156	1.0271	1.0188	1.0369	0.9969	AVRG		0.97846		1.0220	1	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Chloromethane	0.5000	5	1.0000	-9	2.0000	-2	5.0000	4	10.000	1	20.000	3	50.000	6	75.000	-17	100.00	9
Vinyl Chloride	0.5000	-5	1.0000	-4	2.0000	-4	5.0000	3	10.000	-1	20.000	-1	50.000	7	75.000	-1	100.00	5
Bromomethane			1.0000	-20	2.0000	0	5.0000	9	10.000	2	20.000	2	50.000	8				
Chloroethane			1.0000	-5	2.0000	-1	5.0000	4	10.000	1	20.000	1	50.000	6	75.000	-8	100.00	3
Trichlorofluoromethane			1.0000	-8	2.0000	0	5.0000	5	10.000	-7	20.000	-6	50.000	6	75.000	5	100.00	6
Freon 113			0.5000	**-21**	2.0000	0	5.0000	2	10.000	-5	20.000	1	50.000	8	75.000	6	100.00	7
1,1-Dichloroethene			0.5000	-1	2.0000	5	5.0000	-1	10.000	-7	20.000	-2	50.000	3	75.000	1	100.00	2
Methylene Chloride			0.5000	-4	2.0000	2	5.0000	2	10.000	-2	20.000	-1	50.000	4	75.000	-3	100.00	1
trans-1,2-Dichloroethene			0.5000	4	2.0000	1	5.0000	0	10.000	-4	20.000	-3	50.000	2	75.000	-1	100.00	0
1,1-Dichloroethane			0.5000	-2	2.0000	0	5.0000	-1	10.000	-2	20.000	1	50.000	6	75.000	-5	100.00	2
cis-1,2-Dichloroethene			0.5000	1	2.0000	1	5.0000	1	10.000	-4	20.000	0	50.000	2	75.000	-1	100.00	0
Chloroform			0.5000	4	2.0000	-1	5.0000	-1	10.000	-4	20.000	-2	50.000	4	75.000	-1	100.00	0
1,1,1-Trichloroethane			0.5000	-2	2.0000	-1	5.0000	-2	10.000	-4	20.000	0	50.000	6	75.000	1	100.00	2
Carbon Tetrachloride			0.5000	**-23**	2.0000	-9	5.0000	0	10.000	-2	20.000	5	50.000	16	75.000	-3	100.00	17
1,2-Dichloroethane			0.5000	-1	2.0000	-1	5.0000	-2	10.000	-1	20.000	1	50.000	5	75.000	-1	100.00	1
Trichloroethene			0.5000	4	2.0000	3	5.0000	0	10.000	-3	20.000	-5	50.000	1	75.000	0	100.00	2
1,2-Dichloropropane			0.5000	3	2.0000	-3	5.0000	-5	10.000	-4	20.000	0	50.000	5	75.000	1	100.00	3
Bromodichloromethane			0.5000	-7	2.0000	1	5.0000	-3	10.000	-1	20.000	0	50.000	5	75.000	1	100.00	4
cis-1,3-Dichloropropene			0.5000	-4	2.0000	-2	5.0000	-1	10.000	-4	20.000	1	50.000	7	75.000	-3	100.00	5
trans-1,3-Dichloropropene			0.5000	-4	2.0000	-2	5.0000	1	10.000	-1	20.000	2	50.000	7	75.000	-5	100.00	3
1,1,2-Trichloroethane			0.5000	13	2.0000	-3	5.0000	-4	10.000	-2	20.000	-3	50.000	2	75.000	-1	100.00	-2
Tetrachloroethene			0.5000	3	2.0000	-3	5.0000	-2	10.000	-6	20.000	-3	50.000	4	75.000	3	100.00	5
Dibromochloromethane			0.5000	-5	2.0000	0	5.0000	-1	10.000	-3	20.000	-1	50.000	5	75.000	1	100.00	4
Chlorobenzene			0.5000	5	2.0000	-1	5.0000	-1	10.000	-6	20.000	-1	50.000	3	75.000	-1	100.00	1
Bromoform			0.5000	-9	2.0000	0	5.0000	-3	10.000	-2	20.000	2	50.000	5	75.000	2	100.00	5
1,1,2,2-Tetrachloroethane			0.5000	-2	2.0000	0	5.0000	-4	10.000	-4	20.000	5	50.000	6	75.000	1	100.00	-2
1,3-Dichlorobenzene			0.5000	9	2.0000	-2	5.0000	-1	10.000	-9	20.000	0	50.000	3	75.000	0	100.00	0
1,4-Dichlorobenzene			0.5000	2	2.0000	1	5.0000	0	10.000	-7	20.000	0	50.000	3	75.000	-1	100.00	1
1,2-Dichlorobenzene			0.5000	3	2.0000	1	5.0000	-2	10.000	-6	20.000	0	50.000	3	75.000	0	100.00	1
1,2-Dichloroethane-d4	50.000	-1	50.000	0	50.000	0	50.000	1	50.000	0	50.000	1	50.000	1	50.000	0	50.000	-1
Toluene-d8	50.000	0	50.000	0	50.000	0	50.000	0	50.000	0	50.000	0	50.000	0	50.000	0	50.000	-1
Bromofluorobenzene	50.000	0	50.000	1	50.000	0	50.000	0	50.000	-1	50.000	0	50.000	0	50.000	1	50.000	-2

BO 08/02/13 [Freon 12]: Corrected fronting or tailing peak integration in multiple levels.

BO 08/02/13 [Vinyl Chloride]: Corrected fronting or tailing peak integration.5PPB (kh106).

BO 08/02/13 [Chloroethane]: Corrected automatically drawn baseline in 2PPB (kh108).

BO 08/02/13 [1,1-Dichloroethene]: Corrected automatically drawn baseline1PPB (kh107).

BO 08/02/13 [1,2-Dichloropropane]: Separated from coeluting peak in multiple levels.

BO 08/02/13 [Tetrahydrofuran]: Corrected fronting or tailing peak integration in 75PPB (kh113).

BO 08/02/13 [Iodomethane]: Cannot report due to %RSD failure

BO 08/02/13 [Vinyl Acetate]: Cannot report 8260C at 2ppb due to high bias

Analyst: BO Date: 08/02/13 Reviewer: LW Date: 08/02/13

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 247818 MSVOA Water
EPA 8260B

Inst : MSVOA11 Name : 8260GX11
Calnum : 833307436001 Cal Date : 01-AUG-2013 Type : WATER

ICV 833307436015 (kh115 01-AUG-2013) stds: S22793 (10000X), S22937 (2500X)
ICV 833307436017 (kh117 01-AUG-2013) stds: S22666 (10000X), S22927 (10000X), S22609 (10000X), S22937 (2500X)

Analyte	ICV Seqnum	Spiked	Quant	Units	%D	Max	Flags
Chloromethane	833307436015	20.00	24.25	ug/L	**21**	30	!v+
Vinyl Chloride	833307436015	20.00	22.40	ug/L	12	20	
Bromomethane	833307436015	20.00	19.59	ug/L	-2	30	
Chloroethane	833307436015	20.00	23.94	ug/L	20	30	
Trichlorofluoromethane	833307436015	20.00	20.05	ug/L	0	30	
Freon 113	833307436017	25.00	23.87	ug/L	-5	30	
1,1-Dichloroethene	833307436017	25.00	24.19	ug/L	-3	20	
Methylene Chloride	833307436017	25.00	25.17	ug/L	1	30	
trans-1,2-Dichloroethene	833307436017	25.00	25.23	ug/L	1	30	
1,1-Dichloroethane	833307436017	25.00	24.55	ug/L	-2	30	
cis-1,2-Dichloroethene	833307436017	25.00	24.67	ug/L	-1	30	
Chloroform	833307436017	25.00	24.18	ug/L	-3	20	
1,1,1-Trichloroethane	833307436017	25.00	25.40	ug/L	2	30	
Carbon Tetrachloride	833307436017	25.00	27.59	ug/L	10	30	
1,2-Dichloroethane	833307436017	25.00	25.26	ug/L	1	30	
Trichloroethene	833307436017	25.00	25.19	ug/L	1	30	
1,2-Dichloropropane	833307436017	25.00	24.11	ug/L	-4	20	
Bromodichloromethane	833307436017	25.00	24.17	ug/L	-3	30	
cis-1,3-Dichloropropene	833307436017	25.00	26.36	ug/L	5	30	
trans-1,3-Dichloropropene	833307436017	25.00	23.79	ug/L	-5	30	
1,1,2-Trichloroethane	833307436017	25.00	24.59	ug/L	-2	30	
Tetrachloroethene	833307436017	25.00	25.43	ug/L	2	30	
Dibromochloromethane	833307436017	25.00	24.45	ug/L	-2	30	
Chlorobenzene	833307436017	25.00	23.28	ug/L	-7	30	
Bromoform	833307436017	25.00	27.26	ug/L	9	30	
1,1,2,2-Tetrachloroethane	833307436017	25.00	25.07	ug/L	0	30	
1,3-Dichlorobenzene	833307436017	25.00	22.98	ug/L	-8	30	
1,4-Dichlorobenzene	833307436017	25.00	25.13	ug/L	1	30	
1,2-Dichlorobenzene	833307436017	25.00	23.12	ug/L	-8	30	

833307436015: Analyst: BO Date: 08/02/13 Reviewer: LW Date: 08/02/13
833307436017: Analyst: BO Date: 08/02/13 Reviewer: LW Date: 08/02/13

!=warning +=high bias v=ICV

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 247818 MSVOA Water: EPA 8260B

Inst : MSVOA13
Calnum : 943295688001 Date : 24-JUL-2013 12:44
Units : ug/L

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	mgo10	943295688010	.25/.5PPB	24-JUL-2013 12:44	S21953 (2000000X), S22575 (2000000X), S22920 (2000000X), S22141 (1000000X), S22908 (2500X)
L2	mgo11	943295688011	0.5/1PPB	24-JUL-2013 13:12	S21953 (1000000X), S22575 (1000000X), S22920 (1000000X), S22141 (500000X), S22908 (2500X)
L3	mgo12	943295688012	2PPB	24-JUL-2013 13:40	S21953 (500000X), S22575 (250000X), S22920 (250000X), S22141 (250000X), S22908 (2500X)
L4	mgo13	943295688013	5PPB	24-JUL-2013 14:08	S21953 (200000X), S22575 (100000X), S22920 (100000X), S22141 (100000X), S22908 (2500X)
L5	mgo14	943295688014	10PPB	24-JUL-2013 14:36	S21953 (100000X), S22575 (50000X), S22920 (50000X), S22141 (50000X), S22908 (2500X)
L6	mgo15	943295688015	20PPB	24-JUL-2013 15:04	S21953 (50000X), S22575 (25000X), S22920 (25000X), S22141 (25000X), S22908 (2500X)
L7	mgo16	943295688016	50PPB	24-JUL-2013 15:33	S21953 (20000X), S22575 (10000X), S22920 (10000X), S22141 (10000X), S22908 (2500X)
L8	mgo17	943295688017	75PPB	24-JUL-2013 16:01	S21953 (13330X), S22575 (6667X), S22920 (6667X), S22141 (6667X), S22908 (2500X)
L9	mgo18	943295688018	100PPB	24-JUL-2013 16:29	S21953 (10000X), S22575 (5000X), S22920 (5000X), S22141 (5000X), S22908 (2500X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	X	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Chloromethane	1.0973	1.0557	1.0956	1.1461	1.1427	1.1240	1.0247	0.9927	1.0140	AVRG	R		0.92854		1.0770	5	15	0.10	0.99	
Vinyl Chloride	0.9579	1.0231	1.0536	1.0060	1.0218	1.0613	0.9720	1.0134	0.9669	AVRG	R		0.99163		1.0084	4	15	0.05	0.99	
Bromomethane		0.4247	0.4463	0.4821	0.4619	0.4500	0.3855	0.3466	0.3419	AVRG	R		2.39586		0.4174	13	15	0.05	0.99	
Chloroethane		0.6453	0.6324	0.7807	0.6245	0.6159	0.6015	0.5614	0.5043	AVRG	R		1.61098		0.6207	13	15	0.05	0.99	
Trichlorofluoromethane		1.3507	1.3210	1.2673	1.2745	1.3524	1.2263	1.3281	1.3282	AVRG	R		0.76567		1.3060	3	15	0.05	0.99	
Freon 113			0.4674	0.4697	0.4287	0.4665	0.5956			AVRG	R		2.05946		0.4856	13	15	0.05	0.99	
1,1-Dichloroethene		0.4210	0.4473	0.4853	0.4491	0.4715	0.5430	0.5877	0.5923	AVRG	R		2.00138		0.4997	13	15	0.05	0.99	
Methylene Chloride		0.7622	0.7592	0.8263	0.7725	0.7667	0.7293	0.7481	0.7573	AVRG	R		1.30685		0.7652	4	15	0.05	0.99	
trans-1,2-Dichloroethene		0.6135	0.6238	0.6493	0.6017	0.6086	0.6508	0.6792	0.6883	AVRG	R		1.56398		0.6394	5	15	0.05	0.99	
1,1-Dichloroethane		1.5207	1.6461	1.7476	1.6387	1.6429	1.6518	1.6913	1.6866	AVRG	R		0.60488		1.6532	4	15	0.10	0.99	
cis-1,2-Dichloroethene		0.7801	0.7453	0.7876	0.7475	0.7639	0.7545	0.7776	0.7925	AVRG	R		1.30104		0.7686	2	15	0.05	0.99	
Chloroform		1.3632	1.4230	1.5283	1.4530	1.4500	1.4360	1.4488	1.4600	AVRG	R		0.69190		1.4453	3	15	0.05	0.99	
1,1,1-Trichloroethane		0.9086	1.0378	1.1180	1.0266	1.0567	1.2036	1.2697	1.2556	AVRG	R		0.90124		1.1096	11	15	0.05	0.99	
Carbon Tetrachloride		0.3044	0.3831	0.4024	0.3842	0.4084	0.5159	0.5552		QUAD	A	-0.2024	0.40561	0.002066	0.4220	0.999	15	0.05	0.99	
1,2-Dichloroethane		0.7341	0.7213	0.7879	0.7531	0.7527	0.7251	0.7204	0.7036	AVRG	R		1.35631		0.7373	4	15	0.05	0.99	
Trichloroethene		0.3911	0.4022	0.4284	0.3918	0.3960	0.4302	0.4485	0.4512	AVRG	R		2.39567		0.4174	6	15	0.05	0.99	
1,2-Dichloropropane		0.5084m	0.5151	0.5387	0.5212m	0.5229	0.5257	0.5355	0.5403	AVRG	R		1.90130		0.5260	2	15	0.05	0.99	
Bromodichloromethane		0.4918	0.5126	0.5937	0.5773	0.5941	0.6087	0.6186	0.6264	AVRG	R		1.73038		0.5779	9	15	0.05	0.99	
cis-1,3-Dichloropropene		0.5814	0.6155	0.7204	0.7097	0.7508	0.7672	0.7891	0.7940	AVRG	R		1.39661		0.7160	11	15	0.05	0.99	
trans-1,3-Dichloropropene		0.5913	0.6461	0.7503	0.7547	0.8133	0.8125	0.8414	0.8510	AVRG	R		1.32001		0.7576	12	15	0.05	0.99	
1,1,2-Trichloroethane		0.2176	0.2251	0.2584	0.2443	0.2457	0.2337	0.2419	0.2427	AVRG	R		4.18999		0.2387	5	15	0.05	0.99	
Tetrachloroethene		0.2394	0.2850	0.2804	0.2625	0.2595	0.3036	0.3323	0.3365	AVRG	R		3.47948		0.2874	12	15	0.05	0.99	
Dibromochloromethane		0.2774	0.3002	0.3621	0.3571	0.3773	0.3835	0.4061	0.4159	AVRG	R		2.77821		0.3599	13	15	0.05	0.99	
Chlorobenzene		1.1302	1.1512	1.1973	1.1211	1.1160	1.1233	1.1796	1.1965	AVRG	R		0.86814		1.1519	3	15	0.30	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	X	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Bromoform		0.1347	0.1564	0.1893	0.1983	0.2182	0.2360			QUAD	A	-0.0912	0.20825	5.943E-4	0.1888	1.000	15	0.10	0.99	
1,1,2,2-Tetrachloroethane		1.2092	1.2528	1.3844	1.3424	1.3414	1.2860	1.3098	1.3332	AVRG	R		0.76488		1.3074	4	15	0.30	0.99	
1,3-Dichlorobenzene		1.6419	1.6596	1.7510	1.6766	1.6305	1.6318	1.6902	1.7283	AVRG	R		0.59657		1.6762	3	15	0.05	0.99	
1,4-Dichlorobenzene		1.9177	1.8044	1.8974	1.7765	1.7222	1.7127	1.7543	1.8062	AVRG	R		0.55589		1.7989	4	15	0.05	0.99	
1,2-Dichlorobenzene		1.5736	1.6271	1.7390	1.6527	1.6350	1.5854	1.6418	1.6673	AVRG	R		0.60967		1.6402	3	15	0.05	0.99	
1,2-Dichloroethane-d4	0.5437	0.5506	0.5612	0.5693	0.5630	0.5716	0.5796	0.5665	0.5413	AVRG	R		1.78330		0.5608	2	15	0.05	0.99	
Toluene-d8	1.5104	1.5061	1.5183	1.5203	1.5271	1.5194	1.4924	1.4840	1.4877	AVRG	R		0.66343		1.5073	1	15	0.05	0.99	
Bromofluorobenzene	1.3496	1.3641	1.3461	1.3528	1.3658	1.3595	1.3521	1.3100	1.3417	AVRG	R		0.74125		1.3491	1	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Chloromethane	0.5000	2	1.0000	-2	2.0000	2	5.0000	6	10.000	6	20.000	4	50.000	-5	75.000	-8	100.00	-6
Vinyl Chloride	0.5000	-5	1.0000	1	2.0000	4	5.0000	0	10.000	1	20.000	5	50.000	-4	75.000	0	100.00	-4
Bromomethane			1.0000	2	2.0000	7	5.0000	16	10.000	11	20.000	8	50.000	-8	75.000	-17	100.00	-18
Chloroethane			1.0000	4	2.0000	2	5.0000	**26**	10.000	1	20.000	-1	50.000	-3	75.000	-10	100.00	-19
Trichlorofluoromethane			1.0000	3	2.0000	1	5.0000	-3	10.000	-2	20.000	4	50.000	-6	75.000	2	100.00	2
Freon 113					2.0000	-4	5.0000	-3	10.000	-12	20.000	-4	50.000	**23**				
1,1-Dichloroethene			0.5000	-16	2.0000	-10	5.0000	-3	10.000	-10	20.000	-6	50.000	9	75.000	18	100.00	19
Methylene Chloride			0.5000	0	2.0000	-1	5.0000	8	10.000	1	20.000	0	50.000	-5	75.000	-2	100.00	-1
trans-1,2-Dichloroethene			0.5000	-4	2.0000	-2	5.0000	2	10.000	-6	20.000	-5	50.000	2	75.000	6	100.00	8
1,1-Dichloroethane			0.5000	-8	2.0000	0	5.0000	6	10.000	-1	20.000	-1	50.000	0	75.000	2	100.00	2
cis-1,2-Dichloroethene			0.5000	1	2.0000	-3	5.0000	2	10.000	-3	20.000	-1	50.000	-2	75.000	1	100.00	3
Chloroform			0.5000	-6	2.0000	-2	5.0000	6	10.000	1	20.000	0	50.000	-1	75.000	0	100.00	1
1,1,1-Trichloroethane			0.5000	-18	2.0000	-6	5.0000	1	10.000	-7	20.000	-5	50.000	8	75.000	14	100.00	13
Carbon Tetrachloride			0.5000	**74**	2.0000	18	5.0000	6	10.000	-5	20.000	-6	50.000	2	75.000	0		
1,2-Dichloroethane			0.5000	0	2.0000	-2	5.0000	7	10.000	2	20.000	2	50.000	-2	75.000	-2	100.00	-5
Trichloroethene			0.5000	-6	2.0000	-4	5.0000	3	10.000	-6	20.000	-5	50.000	3	75.000	7	100.00	8
1,2-Dichloropropane			0.5000	-3	2.0000	-2	5.0000	2	10.000	-1	20.000	-1	50.000	0	75.000	2	100.00	3
Bromodichloromethane			0.5000	-15	2.0000	-11	5.0000	3	10.000	0	20.000	3	50.000	5	75.000	7	100.00	8
cis-1,3-Dichloropropene			0.5000	-19	2.0000	-14	5.0000	1	10.000	-1	20.000	5	50.000	7	75.000	10	100.00	11
trans-1,3-Dichloropropene			0.5000	**-22**	2.0000	-15	5.0000	-1	10.000	0	20.000	7	50.000	7	75.000	11	100.00	12
1,1,2-Trichloroethane			0.5000	-9	2.0000	-6	5.0000	8	10.000	2	20.000	3	50.000	-2	75.000	1	100.00	2
Tetrachloroethene			0.5000	-17	2.0000	-1	5.0000	-2	10.000	-9	20.000	-10	50.000	6	75.000	16	100.00	17
Dibromochloromethane			0.5000	**-23**	2.0000	-17	5.0000	1	10.000	-1	20.000	5	50.000	7	75.000	13	100.00	16
Chlorobenzene			0.5000	-2	2.0000	0	5.0000	4	10.000	-3	20.000	-3	50.000	-2	75.000	2	100.00	4
Bromoform			0.5000	**52**	2.0000	-4	5.0000	-2	10.000	-3	20.000	1	50.000	0				
1,1,2,2-Tetrachloroethane			0.5000	-8	2.0000	-4	5.0000	6	10.000	3	20.000	3	50.000	-2	75.000	0	100.00	2
1,3-Dichlorobenzene			0.5000	-2	2.0000	-1	5.0000	4	10.000	0	20.000	-3	50.000	-3	75.000	1	100.00	3
1,4-Dichlorobenzene			0.5000	7	2.0000	0	5.0000	5	10.000	-1	20.000	-4	50.000	-5	75.000	-2	100.00	0
1,2-Dichlorobenzene			0.5000	-4	2.0000	-1	5.0000	6	10.000	1	20.000	0	50.000	-3	75.000	0	100.00	2
1,2-Dichloroethane-d4	50.000	-3	50.000	-2	50.000	0	50.000	2	50.000	0	50.000	2	50.000	3	50.000	1	50.000	-3
Toluene-d8	50.000	0	50.000	0	50.000	1	50.000	1	50.000	1	50.000	1	50.000	-1	50.000	-2	50.000	-1
Bromofluorobenzene	50.000	0	50.000	1	50.000	0	50.000	0	50.000	1	50.000	1	50.000	0	50.000	-3	50.000	-1

BO 07/25/13 [Acetone]: Corrected automatically drawn baseline in 10PPB (mgo14).

BO 07/25/13 [1,2-Dichloropropane]: Separated from coeluting peak in multiple levels.

BO 07/25/13 [2-Chlorotoluene]: Separated from coeluting peak in all levels.

BO 07/25/13 [Carbon Tetrachloride]: Cannot report 8260C due to high bias in low point

BO 07/25/13 [Bromoform]: Cannot report 8260C due to high bias in low point

BO 07/25/13 [2-Chloroethylvinylether]: Cannot report 8260C due to high bias in low point

BO 07/25/13 [Carbon Tetrachloride]: RR hits <2ppb

BO 07/25/13 [Bromoform]: RR hits <2ppb

BO 07/25/13 [2-Chloroethylvinylether]: RR hits <2ppb

Analyst: BO Date: 07/25/13 Reviewer: LW Date: 07/25/13

m=manual integration

X=A: Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating); X=R: Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; QUAD=Quadratic regression

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 247818 MSVOA Water
EPA 8260B

Inst : MSVOA13
Calnum : 943295688001 Cal Date : 24-JUL-2013

ICV 943297216003 (mgp03 25-JUL-2013) stds: S22666 (10000X), S22596 (10000X), S22793 (8000X), S22609 (10000X), S22908 (2500X)

Analyte	Spiked	Quant	Units	%D	Max	Flags
Chloromethane	25.00	22.52	ug/L	-10	30	
Vinyl Chloride	25.00	23.59	ug/L	-6	20	
Bromomethane	25.00	26.52	ug/L	6	30	
Chloroethane	25.00	22.81	ug/L	-9	30	
Trichlorofluoromethane	25.00	20.98	ug/L	-16	30	
Freon 113	25.00	32.35	ug/L	**29**	30	!v+
1,1-Dichloroethene	25.00	29.76	ug/L	19	20	
Methylene Chloride	25.00	26.41	ug/L	6	30	
trans-1,2-Dichloroethene	25.00	28.03	ug/L	12	30	
1,1-Dichloroethane	25.00	26.79	ug/L	7	30	
cis-1,2-Dichloroethene	25.00	26.16	ug/L	5	30	
Chloroform	25.00	26.00	ug/L	4	20	
1,1,1-Trichloroethane	25.00	29.18	ug/L	17	30	
Carbon Tetrachloride	25.00	29.63	ug/L	19	30	
1,2-Dichloroethane	25.00	25.35	ug/L	1	30	
Trichloroethene	25.00	25.77	ug/L	3	30	
1,2-Dichloropropane	25.00	25.79	ug/L	3	20	
Bromodichloromethane	25.00	25.19	ug/L	1	30	
cis-1,3-Dichloropropene	25.00	28.27	ug/L	13	30	
trans-1,3-Dichloropropene	25.00	26.21	ug/L	5	30	
1,1,2-Trichloroethane	25.00	25.32	ug/L	1	30	
Tetrachloroethene	25.00	28.74	ug/L	15	30	
Dibromochloromethane	25.00	26.05	ug/L	4	30	
Chlorobenzene	25.00	23.68	ug/L	-5	30	
Bromoform	25.00	26.42	ug/L	6	30	
1,1,2,2-Tetrachloroethane	25.00	25.59	ug/L	2	30	
1,3-Dichlorobenzene	25.00	23.65	ug/L	-5	30	
1,4-Dichlorobenzene	25.00	24.94	ug/L	0	30	
1,2-Dichlorobenzene	25.00	23.48	ug/L	-6	30	

Analyst: BO Date: 07/25/13 Reviewer: LW Date: 07/25/13

!=warning +=high bias v=ICV

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 247818 MSVOA Water: EPA 8260B

Inst : MSVOA14
Calnum : 953314372001
Units : ug/L

Date : 06-AUG-2013 09:39
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	nh607	953314372007		06-AUG-2013 09:39	S22575 (2000000X), S22920 (2000000X), S21953 (2000000X), S22141 (1000000X), S22908 (2500X)
L2	nh608	953314372008		06-AUG-2013 10:08	S22575 (1000000X), S22920 (1000000X), S21953 (1000000X), S22141 (500000X), S22908 (2500X)
L3	nh609	953314372009		06-AUG-2013 10:36	S22575 (250000X), S22920 (250000X), S21953 (500000X), S22141 (250000X), S22908 (2500X)
L4	nh610	953314372010		06-AUG-2013 11:05	S22575 (100000X), S22920 (100000X), S21953 (200000X), S22141 (100000X), S22908 (2500X)
L5	nh611	953314372011		06-AUG-2013 11:33	S22575 (50000X), S22920 (50000X), S21953 (100000X), S22141 (50000X), S22908 (2500X)
L6	nh612	953314372012		06-AUG-2013 12:02	S22575 (25000X), S22920 (25000X), S21953 (50000X), S22141 (25000X), S22908 (2500X)
L7	nh613	953314372013		06-AUG-2013 12:31	S22575 (10000X), S22920 (10000X), S21953 (20000X), S22141 (10000X), S22908 (2500X)
L8	nh614	953314372014		06-AUG-2013 12:59	S22575 (6667X), S22920 (6667X), S21953 (13330X), S22141 (6667X), S22908 (2500X)
L9	nh615	953314372015		06-AUG-2013 13:28	S22575 (5000X), S22920 (5000X), S21953 (10000X), S22141 (5000X), S22908 (2500X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Chloromethane	0.4973	0.6686	0.6325	0.7374	0.7009	0.7203	0.7294	0.7805	0.7570	AVRG		1.44605		0.6915	12	15	0.10	0.99	
Vinyl Chloride	0.4443	0.7232	0.6898	0.7489	0.7643	0.7924	0.7971			LINR	0.26140	1.24859		0.7086	1.000	15	0.05	0.99	
Bromomethane	0.3243	0.3475	0.3614	0.3837	0.3560	0.3478	0.3469	0.3687	0.3614	AVRG		2.81455		0.3553	5	15	0.05	0.99	
Chloroethane		0.3995	0.3822	0.4129	0.4100	0.4265	0.4239	0.4491	0.4354	AVRG		2.39551		0.4174	5	15	0.05	0.99	
Trichlorofluoromethane		0.7066	0.6901	0.7424	0.7275	0.7563	0.7361	0.7681	0.7296	AVRG		1.36595		0.7321	3	15	0.05	0.99	
Freon 113			0.3824	0.3947	0.4019	0.4261	0.4333	0.4432	0.4227	AVRG		2.41020		0.4149	5	15	0.05	0.99	
1,1-Dichloroethene		0.4177m	0.4504	0.4189	0.4130	0.4215	0.4211	0.4300	0.4165	AVRG		2.36061		0.4236	3	15	0.05	0.99	
Methylene Chloride		0.5181	0.5106	0.4976	0.5024	0.5030	0.5159	0.5258	0.5069	AVRG		1.96058		0.5101	2	15	0.05	0.99	
trans-1,2-Dichloroethene		0.4447	0.4949	0.4740	0.4800	0.4844	0.4869	0.4944	0.4773	AVRG		2.08515		0.4796	3	15	0.05	0.99	
1,1-Dichloroethane		1.0371	1.0289	0.9356	1.0410	0.9866	1.0922	1.1157	1.0813	AVRG		0.96172		1.0398	6	15	0.10	0.99	
cis-1,2-Dichloroethene		0.6192	0.5505	0.5442	0.5388	0.5464	0.5617	0.5679	0.5493	AVRG		1.78656		0.5597	5	15	0.05	0.99	
Chloroform		0.8154	0.8309	0.8182	0.8567	0.8582	0.8946	0.9159	0.8898	AVRG		1.16286		0.8600	4	15	0.05	0.99	
1,1,1-Trichloroethane		0.6588	0.6731	0.6591	0.6957	0.7098	0.7280	0.7431	0.7189	AVRG		1.43203		0.6983	5	15	0.05	0.99	
Carbon Tetrachloride		0.2576	0.3076	0.3069	0.3127	0.3216	0.3306	0.3350	0.3302	AVRG		3.19708		0.3128	8	15	0.05	0.99	
1,2-Dichloroethane		0.3831	0.4053	0.4174	0.4427	0.4374	0.4453	0.4455	0.4388	AVRG		2.34232		0.4269	5	15	0.05	0.99	
Trichloroethene		0.2954	0.3168	0.3035	0.3240	0.3193	0.3325	0.3369	0.3321	AVRG		3.12451		0.3201	5	15	0.05	0.99	
1,2-Dichloropropane		0.3465	0.3579	0.3653	0.3643	0.3686	0.3947	0.3799	0.3755	AVRG		2.70946		0.3691	4	15	0.05	0.99	
Bromodichloromethane		0.3536	0.3773	0.3853	0.4010	0.4044	0.4262	0.4321	0.4294	AVRG		2.49270		0.4012	7	15	0.05	0.99	
cis-1,3-Dichloropropene		0.4207	0.4693	0.5018	0.5327	0.5368	0.5567	0.5613	0.5495	AVRG		1.93755		0.5161	10	15	0.05	0.99	
trans-1,3-Dichloropropene		0.4963	0.5016	0.4988	0.5377	0.5445	0.5681	0.5785	0.5590	AVRG		1.86717		0.5356	6	15	0.05	0.99	
1,1,2-Trichloroethane		0.1579	0.1843	0.1712	0.1761	0.1761	0.1827	0.1855	0.1783	AVRG		5.66554		0.1765	5	15	0.05	0.99	
Tetrachloroethene		0.3131	0.3135	0.3212	0.3279	0.3181	0.3281	0.3287	0.3182	AVRG		3.11439		0.3211	2	15	0.05	0.99	
Dibromochloromethane		0.2498	0.2829	0.2883	0.3021	0.3033	0.3241	0.3291	0.3211	AVRG		3.33231		0.3001	9	15	0.05	0.99	
Chlorobenzene		0.9233	0.8999	0.9448	0.9877	0.9624	1.0023	1.0063	0.9952	AVRG		1.03602		0.9652	4	15	0.30	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Bromoform		0.1667	0.1792	0.1806	0.1978	0.2023	0.2203	0.2280	0.2241	AVRG		5.00354		0.1999	12	15	0.10	0.99	
1,1,2,2-Tetrachloroethane		0.7692	0.8032	0.8767	0.8726	0.8363	0.8696	0.8710	0.8437	AVRG		1.18655		0.8428	5	15	0.30	0.99	
1,3-Dichlorobenzene		1.3727	1.3897	1.4427	1.4751	1.4876	1.5260	1.5220	1.4913	AVRG		0.68335		1.4634	4	15	0.05	0.99	
1,4-Dichlorobenzene		1.4646	1.3869	1.4264	1.5320	1.5001	1.5415	1.5360	1.5206	AVRG		0.67181		1.4885	4	15	0.05	0.99	
1,2-Dichlorobenzene		1.2971	1.3430	1.4254	1.4429	1.4490	1.4719	1.4812	1.4578	AVRG		0.70371		1.4210	5	15	0.05	0.99	
1,2-Dichloroethane-d4	0.3543	0.3594	0.3670	0.3666	0.3734	0.3725	0.3743	0.3840	0.3870	AVRG		2.69583		0.3709	3	15	0.05	0.99	
Toluene-d8	1.3745	1.3876	1.3957	1.3965	1.3945	1.3873	1.3894	1.3907	1.3799	AVRG		0.72022		1.3885	1	15	0.05	0.99	
Bromofluorobenzene	1.0478	1.0467	1.0334	1.0938	1.0281	1.0252	1.0198	1.0132	1.0148	AVRG		0.96538		1.0359	2	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Chloromethane	0.5000	**-28**	1.0000	-3	2.0000	-9	5.0000	7	10.000	1	20.000	4	50.000	5	75.000	13	100.00	9
Vinyl Chloride	0.5000	8	1.0000	16	2.0000	-1	5.0000	-1	10.000	-2	20.000	0	50.000	0				
Bromomethane	0.5000	-9	1.0000	-2	2.0000	2	5.0000	8	10.000	0	20.000	-2	50.000	-2	75.000	4	100.00	2
Chloroethane			1.0000	-4	2.0000	-8	5.0000	-1	10.000	-2	20.000	2	50.000	2	75.000	8	100.00	4
Trichlorofluoromethane			1.0000	-3	2.0000	-6	5.0000	1	10.000	-1	20.000	3	50.000	1	75.000	5	100.00	0
Freon 113					2.0000	-8	5.0000	-5	10.000	-3	20.000	3	50.000	4	75.000	7	100.00	2
1,1-Dichloroethene			0.5000	-1	2.0000	6	5.0000	-1	10.000	-3	20.000	-1	50.000	-1	75.000	1	100.00	-2
Methylene Chloride			0.5000	2	2.0000	0	5.0000	-2	10.000	-1	20.000	-1	50.000	1	75.000	3	100.00	-1
trans-1,2-Dichloroethene			0.5000	-7	2.0000	3	5.0000	-1	10.000	0	20.000	1	50.000	2	75.000	3	100.00	0
1,1-Dichloroethane			0.5000	0	2.0000	-1	5.0000	-10	10.000	0	20.000	-5	50.000	5	75.000	7	100.00	4
cis-1,2-Dichloroethene			0.5000	11	2.0000	-2	5.0000	-3	10.000	-4	20.000	-2	50.000	0	75.000	1	100.00	-2
Chloroform			0.5000	-5	2.0000	-3	5.0000	-5	10.000	0	20.000	0	50.000	4	75.000	7	100.00	3
1,1,1-Trichloroethane			0.5000	-6	2.0000	-4	5.0000	-6	10.000	0	20.000	2	50.000	4	75.000	6	100.00	3
Carbon Tetrachloride			0.5000	-18	2.0000	-2	5.0000	-2	10.000	0	20.000	3	50.000	6	75.000	7	100.00	6
1,2-Dichloroethane			0.5000	-10	2.0000	-5	5.0000	-2	10.000	4	20.000	2	50.000	4	75.000	4	100.00	3
Trichloroethene			0.5000	-8	2.0000	-1	5.0000	-5	10.000	1	20.000	0	50.000	4	75.000	5	100.00	4
1,2-Dichloropropane			0.5000	-6	2.0000	-3	5.0000	-1	10.000	-1	20.000	0	50.000	7	75.000	3	100.00	2
Bromodichloromethane			0.5000	-12	2.0000	-6	5.0000	-4	10.000	0	20.000	1	50.000	6	75.000	8	100.00	7
cis-1,3-Dichloropropene			0.5000	-18	2.0000	-9	5.0000	-3	10.000	3	20.000	4	50.000	8	75.000	9	100.00	6
trans-1,3-Dichloropropene			0.5000	-7	2.0000	-6	5.0000	-7	10.000	0	20.000	2	50.000	6	75.000	8	100.00	4
1,1,2-Trichloroethane			0.5000	-11	2.0000	4	5.0000	-3	10.000	0	20.000	0	50.000	4	75.000	5	100.00	1
Tetrachloroethene			0.5000	-2	2.0000	-2	5.0000	0	10.000	2	20.000	-1	50.000	2	75.000	2	100.00	-1
Dibromochloromethane			0.5000	-17	2.0000	-6	5.0000	-4	10.000	1	20.000	1	50.000	8	75.000	10	100.00	7
Chlorobenzene			0.5000	-4	2.0000	-7	5.0000	-2	10.000	2	20.000	0	50.000	4	75.000	4	100.00	3
Bromoform			0.5000	-17	2.0000	-10	5.0000	-10	10.000	-1	20.000	1	50.000	10	75.000	14	100.00	12
1,1,2,2-Tetrachloroethane			0.5000	-9	2.0000	-5	5.0000	4	10.000	4	20.000	-1	50.000	3	75.000	3	100.00	0
1,3-Dichlorobenzene			0.5000	-6	2.0000	-5	5.0000	-1	10.000	1	20.000	2	50.000	4	75.000	4	100.00	2
1,4-Dichlorobenzene			0.5000	-2	2.0000	-7	5.0000	-4	10.000	3	20.000	1	50.000	4	75.000	3	100.00	2
1,2-Dichlorobenzene			0.5000	-9	2.0000	-5	5.0000	0	10.000	2	20.000	2	50.000	4	75.000	4	100.00	3
1,2-Dichloroethane-d4	50.000	-4	50.000	-3	50.000	-1	50.000	-1	50.000	1	50.000	0	50.000	1	50.000	4	50.000	4
Toluene-d8	50.000	-1	50.000	0	50.000	1	50.000	1	50.000	0	50.000	0	50.000	0	50.000	0	50.000	-1
Bromofluorobenzene	50.000	1	50.000	1	50.000	0	50.000	6	50.000	-1	50.000	-1	50.000	-2	50.000	-2	50.000	-2

MCT 08/08/13 [2-Chloroethylvinylether]: 2-Cleve failed, can not use.

MCT 08/08/13 [Chloroethane]: Corrected baseline noise or negative peak in (nh607).

MCT 08/08/13 [Ethanol]: Combined split peak in multiple levels.

MCT 08/08/13 [1,1-Dichloroethene]: Corrected baseline noise or negative peak in (nh608).

Analyst: MCT Date: 08/08/13 Reviewer: SJD Date: 08/08/13

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; LINR=Linear regression

953314372001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 247818 MSVOA Water
EPA 8260B

Inst : MSVOA14
Calnum : 953314372001 Cal Date : 06-AUG-2013

ICV 953314372016 (nh616 06-AUG-2013) stds: S22793 (10000X), S22908 (2500X)
ICV 953314372017 (nh617 06-AUG-2013) stds: S22975 (10000X), S22927 (10000X), S22609 (10000X), S22908 (2500X)

Analyte	ICV Seqnum	Spiked	Quant	Units	%D	Max	Flags
Chloromethane	953314372016	20.00	21.94	ug/L	10	30	
Vinyl Chloride	953314372016	20.00	20.76	ug/L	4	20	
Bromomethane	953314372016	20.00	14.80	ug/L	**-26**	30	!v-
Chloroethane	953314372016	20.00	20.49	ug/L	2	30	
Trichlorofluoromethane	953314372016	20.00	19.21	ug/L	-4	30	
Freon 113	953314372017	25.00	24.31	ug/L	-3	30	
1,1-Dichloroethene	953314372017	25.00	24.38	ug/L	-2	20	
Methylene Chloride	953314372017	25.00	26.02	ug/L	4	30	
trans-1,2-Dichloroethene	953314372017	25.00	26.38	ug/L	6	30	
1,1-Dichloroethane	953314372017	25.00	24.71	ug/L	-1	30	
cis-1,2-Dichloroethene	953314372017	25.00	25.43	ug/L	2	30	
Chloroform	953314372017	25.00	26.46	ug/L	6	20	
1,1,1-Trichloroethane	953314372017	25.00	26.73	ug/L	7	30	
Carbon Tetrachloride	953314372017	25.00	26.46	ug/L	6	30	
1,2-Dichloroethane	953314372017	25.00	26.72	ug/L	7	30	
Trichloroethene	953314372017	25.00	26.71	ug/L	7	30	
1,2-Dichloropropane	953314372017	25.00	26.01	ug/L	4	20	
Bromodichloromethane	953314372017	25.00	25.47	ug/L	2	30	
cis-1,3-Dichloropropene	953314372017	25.00	27.96	ug/L	12	30	
trans-1,3-Dichloropropene	953314372017	25.00	25.17	ug/L	1	30	
1,1,2-Trichloroethane	953314372017	25.00	26.14	ug/L	5	30	
Tetrachloroethene	953314372017	25.00	25.53	ug/L	2	30	
Dibromochloromethane	953314372017	25.00	25.46	ug/L	2	30	
Chlorobenzene	953314372017	25.00	24.04	ug/L	-4	30	
Bromoform	953314372017	25.00	27.13	ug/L	9	30	
1,1,2,2-Tetrachloroethane	953314372017	25.00	25.91	ug/L	4	30	
1,3-Dichlorobenzene	953314372017	25.00	23.96	ug/L	-4	30	
1,4-Dichlorobenzene	953314372017	25.00	25.67	ug/L	3	30	
1,2-Dichlorobenzene	953314372017	25.00	24.16	ug/L	-3	30	

953314372016: Analyst: MCT Date: 08/08/13 Reviewer: SJD Date: 08/08/13
953314372017: Analyst: MCT Date: 08/08/13 Reviewer: SJD Date: 08/08/13

!=warning -=low bias v=ICV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247818 MSVOA Water
EPA 8260B

Inst : MSVOA09 IDF : 1.0
Seqnum : 483324446005 File : ihd05 Time : 13-AUG-2013 09:51
Cal : 483147320002 Caldate : 12-APR-2013 Caltype : WATER
Standards: S21953 (25000X), S23013 (25000X), S22920 (25000X), S21857 (25000X), S22913 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Chloromethane	0.5899	0.5525	20.00	18.73	ug/L	-6	30	0.1000	
Vinyl Chloride	0.3773	0.3922	20.00	20.79	ug/L	4	20	0.0500	
Bromomethane	0.1857	0.1404	20.00	15.12	ug/L	**-24**	30	0.0500	!c- !v-
Chloroethane	0.2553	0.2210	20.00	17.31	ug/L	-13	30	0.0500	
Trichlorofluoromethane	0.4543	0.4998	20.00	22.00	ug/L	10	30	0.0500	
Freon 113	0.2418	0.2241	20.00	18.53	ug/L	-7	30	0.0500	
1,1-Dichloroethene	0.2748	0.2195	20.00	15.98	ug/L	-20	20	0.0500	
Methylene Chloride	0.3658	0.2861	20.00	15.64	ug/L	**-22**	30	0.0500	!c-
trans-1,2-Dichloroethene	0.3211	0.2769	20.00	17.24	ug/L	-14	30	0.0500	
1,1-Dichloroethane	0.6789	0.5488	20.00	16.17	ug/L	-19	30	0.1000	
cis-1,2-Dichloroethene	0.3687	0.3227	20.00	17.50	ug/L	-12	30	0.0500	
Chloroform	0.5897	0.5390	20.00	18.28	ug/L	-9	20	0.0500	
1,1,1-Trichloroethane	0.4211	0.4151	20.00	19.72	ug/L	-1	30	0.0500	
Carbon Tetrachloride	0.2427	0.2915	20.00	24.02	ug/L	20	30	0.0500	
1,2-Dichloroethane	0.2767	0.2906	20.00	21.00	ug/L	5	30	0.0500	
Trichloroethene	0.2250	0.2218	20.00	19.72	ug/L	-1	30	0.0500	
1,2-Dichloropropane	0.2781	0.2395	20.00	17.23	ug/L	-14	20	0.0500	
Bromodichloromethane	0.2953	0.3172	20.00	21.48	ug/L	7	30	0.0500	
cis-1,3-Dichloropropene	0.3386	0.3443	20.00	20.34	ug/L	2	30	0.0500	
trans-1,3-Dichloropropene	0.3950	0.3803	20.00	19.26	ug/L	-4	30	0.0500	
1,1,2-Trichloroethane	0.1361	0.1156	20.00	16.99	ug/L	-15	30	0.0500	
Tetrachloroethene	0.2583	0.2932	20.00	22.70	ug/L	14	30	0.0500	
Dibromochloromethane	0.2885	0.2992	20.00	20.74	ug/L	4	30	0.0500	
Chlorobenzene	0.7359	0.7472	20.00	20.31	ug/L	2	30	0.3000	
Bromoform	0.1711	0.1882	20.00	22.00	ug/L	10	30	0.1000	
1,1,2,2-Tetrachloroethane	0.5965	0.4368	20.00	14.65	ug/L	**-27**	30	0.3000	!c-
1,3-Dichlorobenzene	1.0679	1.0708	20.00	20.05	ug/L	0	30	0.0500	
1,4-Dichlorobenzene	1.0713	1.0494	20.00	19.59	ug/L	-2	30	0.0500	
1,2-Dichlorobenzene	1.0296	1.0621	20.00	20.63	ug/L	3	30	0.0500	
1,2-Dichloroethane-d4	0.3052	0.3167	50.00	51.89	ug/L	4	30	0.0500	
Toluene-d8	1.3871	1.2674	50.00	45.69	ug/L	-9	30	0.0500	
Bromofluorobenzene	1.0329	0.9002	50.00	43.58	ug/L	-13	30	0.0500	

ISTD (ICAL idc20)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1676048	1516284	-9.53	11.44	11.40	-0.04
1,4-Difluorobenzene	2499222	1999631	-19.99	12.70	12.66	-0.04
Chlorobenzene-d5	1839785	1615774	-12.18	16.96	16.93	-0.03
1,4-Dichlorobenzene-d4	910468	903636	-0.75	19.40	19.39	-0.01

Analyst: MJB Date: 08/13/13 Reviewer: BO Date: 08/14/13

!=warning -=low bias c=CCV v=ICV

CURTIS & TOMPKINS SPIKE USER REPORT FOR 247818 MSVOA Water
EPA 8260B

Inst : MSVOA11 Run Name : QC702054 IDF : 1.0
Seqnum : 833327616005.2 File : khf05 Time : 15-AUG-2013 14:16
Cal : 833307436001 Caldate : 01-AUG-2013 Caltype : WATER
Standards: S23020 (12500X), S22435 (12500X), S22927 (12500X), S22937 (2500X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Chloromethane	0.7607	0.8673	16.00	18.24	ug/L	14	30	0.1000	!v+ u
Vinyl Chloride	0.6949	0.7551	16.00	17.38	ug/L	9	20	0.0500	u
Bromomethane	0.2622	0.3017	16.00	18.41	ug/L	15	30	0.0500	u
Chloroethane	0.3854	0.4024	16.00	16.71	ug/L	4	30	0.0500	u
Trichlorofluoromethane	0.7096	0.6986	16.00	15.75	ug/L	-2	30	0.0500	u
Freon 113	0.4102	0.4551	20.00	22.19	ug/L	11	30	0.0500	u
1,1-Dichloroethene	0.4231	0.4241	20.00	20.05	ug/L	0	20	0.0500	u
Methylene Chloride	0.5305	0.5609	20.00	21.14	ug/L	6	30	0.0500	u
trans-1,2-Dichloroethene	0.4993	0.5194	20.00	20.81	ug/L	4	30	0.0500	u
1,1-Dichloroethane	1.0359	0.9853	20.00	19.02	ug/L	-5	30	0.1000	u
cis-1,2-Dichloroethene	0.5807	0.5925	20.00	20.41	ug/L	2	30	0.0500	u
Chloroform	0.9411	0.8996	20.00	19.12	ug/L	-4	20	0.0500	u
1,1,1-Trichloroethane	0.7697	0.7560	20.00	19.64	ug/L	-2	30	0.0500	u
Carbon Tetrachloride	0.3330	0.3697	20.00	22.20	ug/L	11	30	0.0500	u
1,2-Dichloroethane	0.4438	0.4738	20.00	21.35	ug/L	7	30	0.0500	u
Trichloroethene	0.3572	0.3616	20.00	20.25	ug/L	1	30	0.0500	u
1,2-Dichloropropane	0.4286	0.4294	20.00	20.04	ug/L	0	20	0.0500	u
Bromodichloromethane	0.4588	0.4548	20.00	19.83	ug/L	-1	30	0.0500	u
cis-1,3-Dichloropropene	0.5962	0.6632	20.00	22.25	ug/L	11	30	0.0500	u
trans-1,3-Dichloropropene	0.6268	0.6311	20.00	20.14	ug/L	1	30	0.0500	u
1,1,2-Trichloroethane	0.1991	0.2072	20.00	20.82	ug/L	4	30	0.0500	u
Tetrachloroethene	0.3492	0.3264	20.00	18.69	ug/L	-7	30	0.0500	u
Dibromochloromethane	0.3770	0.3812	20.00	20.22	ug/L	1	30	0.0500	u
Chlorobenzene	1.0578	1.1033	20.00	20.86	ug/L	4	30	0.3000	u
Bromoform	0.2363	0.2421	20.00	20.49	ug/L	2	30	0.1000	u
1,1,2,2-Tetrachloroethane	0.8197	0.9509	20.00	23.20	ug/L	16	30	0.3000	u
1,3-Dichlorobenzene	1.6284	1.7073	20.00	20.97	ug/L	5	30	0.0500	u
1,4-Dichlorobenzene	1.6451	1.6667	20.00	20.26	ug/L	1	30	0.0500	u
1,2-Dichlorobenzene	1.5850	1.6629	20.00	20.98	ug/L	5	30	0.0500	u
1,2-Dichloroethane-d4	0.3722	0.3921	50.00	52.67	ug/L	5	30	0.0500	u
Toluene-d8	1.4633	1.4396	50.00	49.19	ug/L	-2	30	0.0500	u
Bromofluorobenzene	1.0220	1.0132	50.00	49.57	ug/L	-1	30	0.0500	u

ISTD (ICAL kh112)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	377160	321365	-14.79	10.26	10.26	0.00
1,4-Difluorobenzene	618016	542794	-12.17	11.20	11.20	0.00
Chlorobenzene-d5	549972	497968	-9.46	14.35	14.35	0.00
1,4-Dichlorobenzene-d4	282339	257117	-8.93	16.57	16.57	0.01

TEW 08/15/13 : Changed ID in LIMS to CCV/BS. [general version]

Analyst: KKM Date: 08/16/13 Reviewer: SJD Date: 08/16/13

!=warning +=high bias u=use v=ICV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247818 MSVOA Water
EPA 8260B

Inst : MSVOA11 Run Name : A/A IDF : 1.0
Seqnum : 833327616007 File : khf07 Time : 15-AUG-2013 15:35
Cal : 833307436001 Caldate : 01-AUG-2013 Caltype : WATER
Standards: S22949 (50000X), S22937 (2500X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2-Dichloroethane-d4	0.3722	0.3868	50.00	51.97	ug/L	4	30	0.0500	
Toluene-d8	1.4633	1.4576	50.00	49.81	ug/L	0	30	0.0500	
Bromofluorobenzene	1.0220	1.0479	50.00	51.27	ug/L	3	30	0.0500	

ISTD (ICAL kh112)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	377160	307134	-18.57	10.26	10.25	-0.01
1,4-Difluorobenzene	618016	519801	-15.89	11.20	11.20	0.00
Chlorobenzene-d5	549972	468819	-14.76	14.35	14.35	0.00
1,4-Dichlorobenzene-d4	282339	235159	-16.71	16.57	16.57	0.01

MJB 08/16/13 : Not Used

Analyst: MJB Date: 08/16/13 Reviewer: SJD Date: 08/16/13

CURTIS & TOMPKINS SPIKE USER REPORT FOR 247818 MSVOA Water
EPA 8260B

Inst : MSVOA13 Run Name : QC701400 IDF : 1.0
Seqnum : 943323354004.5 File : mhc04 Time : 12-AUG-2013 14:41
Cal : 943295688001 Caldate : 24-JUL-2013
Standards: S22266 (200000X), S22927 (20000X), S22793 (20000X), S22609 (20000X), S22908 (2500X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Chloromethane	1.0770	1.2558	10.00	11.66	ug/L	17	30	0.1000	u
Vinyl Chloride	1.0084	0.8779	10.00	8.705	ug/L	-13	20	0.0500	u
Bromomethane	0.4174	0.4662	10.00	11.17	ug/L	12	30	0.0500	u
Chloroethane	0.6207	0.7177	10.00	11.56	ug/L	16	30	0.0500	u
Trichlorofluoromethane	1.3060	1.1831	10.00	9.058	ug/L	-9	30	0.0500	u
Freon 113	0.4856	0.6534	12.50	16.82	ug/L	**35**	30	0.0500	!v+ c+ u ***
1,1-Dichloroethene	0.4997	0.5421	12.50	13.56	ug/L	8	20	0.0500	u
Methylene Chloride	0.7652	0.8027	12.50	13.11	ug/L	5	30	0.0500	u
trans-1,2-Dichloroethene	0.6394	0.6890	12.50	13.47	ug/L	8	30	0.0500	u
1,1-Dichloroethane	1.6532	1.6426	12.50	12.42	ug/L	-1	30	0.1000	u
cis-1,2-Dichloroethene	0.7686	0.7745	12.50	12.60	ug/L	1	30	0.0500	u
Chloroform	1.4453	1.4325	12.50	12.39	ug/L	-1	20	0.0500	u
1,1,1-Trichloroethane	1.1096	1.2011	12.50	13.53	ug/L	8	30	0.0500	u
Carbon Tetrachloride	0.4220	0.5293	12.50	15.58	ug/L	25	30	0.0500	u
1,2-Dichloroethane	0.7373	0.8360	12.50	14.17	ug/L	13	30	0.0500	u
Trichloroethene	0.4174	0.4534	12.50	13.58	ug/L	9	30	0.0500	u
1,2-Dichloropropane	0.5260	0.5833	12.50	13.86	ug/L	11	20	0.0500	u
Bromodichloromethane	0.5779	0.6239	12.50	13.49	ug/L	8	30	0.0500	u
cis-1,3-Dichloropropene	0.7160	0.8687	12.50	15.17	ug/L	21	30	0.0500	u
trans-1,3-Dichloropropene	0.7576	0.8296	12.50	13.69	ug/L	10	30	0.0500	u
1,1,2-Trichloroethane	0.2387	0.2550	12.50	13.35	ug/L	7	30	0.0500	u
Tetrachloroethene	0.2874	0.3254	12.50	14.15	ug/L	13	30	0.0500	u
Dibromochloromethane	0.3599	0.3854	12.50	13.39	ug/L	7	30	0.0500	u
Chlorobenzene	1.1519	1.2687	12.50	13.77	ug/L	10	30	0.3000	u
Bromoform	0.1888	0.2213	12.50	13.22	ug/L	6	30	0.1000	u
1,1,2,2-Tetrachloroethane	1.3074	1.4179	12.50	13.56	ug/L	8	30	0.3000	u
1,3-Dichlorobenzene	1.6762	1.8186	12.50	13.56	ug/L	8	30	0.0500	u
1,4-Dichlorobenzene	1.7989	1.8519	12.50	12.87	ug/L	3	30	0.0500	u
1,2-Dichlorobenzene	1.6402	1.7553	12.50	13.38	ug/L	7	30	0.0500	u
1,2-Dichloroethane-d4	0.5608	0.5898	50.00	52.59	ug/L	5	30	0.0500	u
Toluene-d8	1.5073	1.5113	50.00	50.13	ug/L	0	30	0.0500	u
Bromofluorobenzene	1.3491	1.3422	50.00	49.75	ug/L	-1	30	0.0500	u

ISTD (ICAL mgo16)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	754540	932022	23.52	11.39	11.39	0.00
1,4-Difluorobenzene	1418479	1693565	19.39	12.23	12.23	0.00
Chlorobenzene-d5	1344645	1578448	17.39	15.05	15.05	0.00
1,4-Dichlorobenzene-d4	616170	747216	21.27	17.10	17.10	0.00

Analyst: KKM Date: 08/16/13 Reviewer: SJD Date: 08/16/13

!=warning +=high bias c=CCV u=use v=ICV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247818 MSVOA Water
EPA 8260B

Inst : MSVOA13 Run Name : 12.5PPB IDF : 1.0
Seqnum : 943325988009 File : mhe09 Time : 14-AUG-2013 15:06
Cal : 943295688001 Caldate : 24-JUL-2013
Standards: S22435 (20000X), S22927 (20000X), S23020 (20000X), S22975 (20000X), S22908 (2500X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Chloromethane	1.0770	1.2167	10.00	11.30	ug/L	13	30	0.1000	
Vinyl Chloride	1.0084	0.8841	10.00	8.767	ug/L	-12	20	0.0500	
Bromomethane	0.4174	0.4121	10.00	9.872	ug/L	-1	30	0.0500	
Chloroethane	0.6207	0.7574	10.00	12.20	ug/L	**22**	30	0.0500	!c+
Trichlorofluoromethane	1.3060	1.1861	10.00	9.081	ug/L	-9	30	0.0500	
Freon 113	0.4856	0.6004	12.50	15.46	ug/L	**24**	30	0.0500	!c+ !v+
1,1-Dichloroethene	0.4997	0.5193	12.50	12.99	ug/L	4	20	0.0500	
Methylene Chloride	0.7652	0.7752	12.50	12.66	ug/L	1	30	0.0500	
trans-1,2-Dichloroethene	0.6394	0.6730	12.50	13.16	ug/L	5	30	0.0500	
1,1-Dichloroethane	1.6532	1.5945	12.50	12.06	ug/L	-4	30	0.1000	
cis-1,2-Dichloroethene	0.7686	0.7337	12.50	11.93	ug/L	-5	30	0.0500	
Chloroform	1.4453	1.3544	12.50	11.71	ug/L	-6	20	0.0500	
1,1,1-Trichloroethane	1.1096	1.1328	12.50	12.76	ug/L	2	30	0.0500	
Carbon Tetrachloride	0.4220	0.5021	12.50	14.85	ug/L	19	30	0.0500	
1,2-Dichloroethane	0.7373	0.7813	12.50	13.25	ug/L	6	30	0.0500	
Trichloroethene	0.4174	0.4308	12.50	12.90	ug/L	3	30	0.0500	
1,2-Dichloropropane	0.5260	0.5596	12.50	13.30	ug/L	6	20	0.0500	
Bromodichloromethane	0.5779	0.5914	12.50	12.79	ug/L	2	30	0.0500	
cis-1,3-Dichloropropene	0.7160	0.8177	12.50	14.28	ug/L	14	30	0.0500	
trans-1,3-Dichloropropene	0.7576	0.7541	12.50	12.44	ug/L	0	30	0.0500	
1,1,2-Trichloroethane	0.2387	0.2436	12.50	12.76	ug/L	2	30	0.0500	
Tetrachloroethene	0.2874	0.3120	12.50	13.57	ug/L	9	30	0.0500	
Dibromochloromethane	0.3599	0.3700	12.50	12.85	ug/L	3	30	0.0500	
Chlorobenzene	1.1519	1.2419	12.50	13.48	ug/L	8	30	0.3000	
Bromoform	0.1888	0.2141	12.50	12.82	ug/L	3	30	0.1000	
1,1,2,2-Tetrachloroethane	1.3074	1.3484	12.50	12.89	ug/L	3	30	0.3000	
1,3-Dichlorobenzene	1.6762	1.7610	12.50	13.13	ug/L	5	30	0.0500	
1,4-Dichlorobenzene	1.7989	1.8019	12.50	12.52	ug/L	0	30	0.0500	
1,2-Dichlorobenzene	1.6402	1.7062	12.50	13.00	ug/L	4	30	0.0500	
1,2-Dichloroethane-d4	0.5608	0.5733	50.00	51.11	ug/L	2	30	0.0500	
Toluene-d8	1.5073	1.4993	50.00	49.73	ug/L	-1	30	0.0500	
Bromofluorobenzene	1.3491	1.3192	50.00	48.90	ug/L	-2	30	0.0500	

ISTD (ICAL mgo16)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	754540	1036228	37.33	11.39	11.39	0.00
1,4-Difluorobenzene	1418479	1881601	32.65	12.23	12.23	0.00
Chlorobenzene-d5	1344645	1764417	31.22	15.05	15.05	0.00
1,4-Dichlorobenzene-d4	616170	846764	37.42	17.10	17.10	0.00

BO 08/15/13 [2-Chlorotoluene]: Separated from coeluting peak.

Analyst: BO Date: 08/15/13 Reviewer: SJD Date: 08/15/13

!=warning +=high bias c=CCV v=ICV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247818 MSVOA Water
EPA 8260B

Inst : MSVOA14 IDF : 1.0
Seqnum : 953325804003 File : nhe03 Time : 14-AUG-2013 07:38
Cal : 953314372001 Caldate : 06-AUG-2013
Standards: S23013 (33330X), S22920 (33330X), S22141 (33330X), S22908 (2500X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Chloromethane	0.6915	0.7612	15.00	16.51	ug/L	10	30	0.1000	
Vinyl Chloride	0.7086	0.8169	15.00	15.56	ug/L	4	20	0.0500	
Bromomethane	0.3553	0.3859	15.00	16.29	ug/L	9	30	0.0500	!v-
Chloroethane	0.4174	0.4620	15.00	16.60	ug/L	11	30	0.0500	
Trichlorofluoromethane	0.7321	0.7929	15.00	16.25	ug/L	8	30	0.0500	
Freon 113	0.4149	0.4374	15.00	15.81	ug/L	5	30	0.0500	
1,1-Dichloroethene	0.4236	0.3986	15.00	14.11	ug/L	-6	20	0.0500	
Methylene Chloride	0.5101	0.5149	15.00	15.14	ug/L	1	30	0.0500	
trans-1,2-Dichloroethene	0.4796	0.4945	15.00	15.47	ug/L	3	30	0.0500	
1,1-Dichloroethane	1.0398	1.0696	15.00	15.43	ug/L	3	30	0.1000	
cis-1,2-Dichloroethene	0.5597	0.5521	15.00	14.79	ug/L	-1	30	0.0500	
Chloroform	0.8600	0.8733	15.00	15.23	ug/L	2	20	0.0500	
1,1,1-Trichloroethane	0.6983	0.7093	15.00	15.24	ug/L	2	30	0.0500	
Carbon Tetrachloride	0.3128	0.3279	15.00	15.72	ug/L	5	30	0.0500	
1,2-Dichloroethane	0.4269	0.4098	15.00	14.40	ug/L	-4	30	0.0500	
Trichloroethene	0.3201	0.3212	15.00	15.05	ug/L	0	30	0.0500	
1,2-Dichloropropane	0.3691	0.3868	15.00	15.72	ug/L	5	20	0.0500	
Bromodichloromethane	0.4012	0.4011	15.00	15.00	ug/L	0	30	0.0500	
cis-1,3-Dichloropropene	0.5161	0.5233	15.00	15.21	ug/L	1	30	0.0500	
trans-1,3-Dichloropropene	0.5356	0.4783	15.00	13.40	ug/L	-11	30	0.0500	
1,1,2-Trichloroethane	0.1765	0.1627	15.00	13.82	ug/L	-8	30	0.0500	
Tetrachloroethene	0.3211	0.3436	15.00	16.05	ug/L	7	30	0.0500	
Dibromochloromethane	0.3001	0.2866	15.00	14.32	ug/L	-5	30	0.0500	
Chlorobenzene	0.9652	0.9746	15.00	15.15	ug/L	1	30	0.3000	
Bromoform	0.1999	0.1796	15.00	13.48	ug/L	-10	30	0.1000	
1,1,2,2-Tetrachloroethane	0.8428	0.6466	15.00	11.51	ug/L	**-23**	30	0.3000	!c-
1,3-Dichlorobenzene	1.4634	1.4657	15.00	15.02	ug/L	0	30	0.0500	
1,4-Dichlorobenzene	1.4885	1.5341	15.00	15.46	ug/L	3	30	0.0500	
1,2-Dichlorobenzene	1.4210	1.4000	15.00	14.78	ug/L	-1	30	0.0500	
1,2-Dichloroethane-d4	0.3709	0.3587	50.00	48.35	ug/L	-3	30	0.0500	
Toluene-d8	1.3885	1.3855	50.00	49.89	ug/L	0	30	0.0500	
Bromofluorobenzene	1.0359	0.9091	50.00	43.88	ug/L	-12	30	0.0500	

ISTD (ICAL nh613)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	598915	686492	14.62	11.22	11.22	0.00
1,4-Difluorobenzene	1015820	1149740	13.18	12.06	12.06	0.00
Chlorobenzene-d5	938083	1094898	16.72	14.90	14.90	0.00
1,4-Dichlorobenzene-d4	477424	582079	21.92	16.94	16.94	0.00

Analyst: MCT Date: 08/14/13 Reviewer: BO Date: 08/15/13

!=warning -=low bias c=CCV v=ICV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247818 MSVOA Water
EPA 8260B

Inst : MSVOA14 IDF : 1.0
Seqnum : 953327254003 File : nhf03 Time : 15-AUG-2013 07:07
Cal : 953314372001 Caldate : 06-AUG-2013
Standards: S23013 (33330X), S22920 (33330X), S22141 (33330X), S22908 (2500X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Chloromethane	0.6915	0.7808	15.00	16.94	ug/L	13	30	0.1000	
Vinyl Chloride	0.7086	0.8393	15.00	15.98	ug/L	7	20	0.0500	
Bromomethane	0.3553	0.3969	15.00	16.76	ug/L	12	30	0.0500	!v-
Chloroethane	0.4174	0.4511	15.00	16.21	ug/L	8	30	0.0500	
Trichlorofluoromethane	0.7321	0.8057	15.00	16.51	ug/L	10	30	0.0500	
Freon 113	0.4149	0.4432	15.00	16.02	ug/L	7	30	0.0500	
1,1-Dichloroethene	0.4236	0.4286	15.00	15.17	ug/L	1	20	0.0500	
Methylene Chloride	0.5101	0.5266	15.00	15.49	ug/L	3	30	0.0500	
trans-1,2-Dichloroethene	0.4796	0.5006	15.00	15.66	ug/L	4	30	0.0500	
1,1-Dichloroethane	1.0398	1.1027	15.00	15.91	ug/L	6	30	0.1000	
cis-1,2-Dichloroethene	0.5597	0.5429	15.00	14.55	ug/L	-3	30	0.0500	
Chloroform	0.8600	0.8725	15.00	15.22	ug/L	1	20	0.0500	
1,1,1-Trichloroethane	0.6983	0.6895	15.00	14.81	ug/L	-1	30	0.0500	
Carbon Tetrachloride	0.3128	0.3256	15.00	15.61	ug/L	4	30	0.0500	
1,2-Dichloroethane	0.4269	0.4180	15.00	14.69	ug/L	-2	30	0.0500	
Trichloroethene	0.3201	0.2982	15.00	13.98	ug/L	-7	30	0.0500	
1,2-Dichloropropane	0.3691	0.3832	15.00	15.58	ug/L	4	20	0.0500	
Bromodichloromethane	0.4012	0.4066	15.00	15.20	ug/L	1	30	0.0500	
cis-1,3-Dichloropropene	0.5161	0.5283	15.00	15.36	ug/L	2	30	0.0500	
trans-1,3-Dichloropropene	0.5356	0.4988	15.00	13.97	ug/L	-7	30	0.0500	
1,1,2-Trichloroethane	0.1765	0.1750	15.00	14.87	ug/L	-1	30	0.0500	
Tetrachloroethene	0.3211	0.3360	15.00	15.70	ug/L	5	30	0.0500	
Dibromochloromethane	0.3001	0.3080	15.00	15.40	ug/L	3	30	0.0500	
Chlorobenzene	0.9652	0.9721	15.00	15.11	ug/L	1	30	0.3000	
Bromoform	0.1999	0.2119	15.00	15.90	ug/L	6	30	0.1000	
1,1,2,2-Tetrachloroethane	0.8428	0.8376	15.00	14.91	ug/L	-1	30	0.3000	
1,3-Dichlorobenzene	1.4634	1.4495	15.00	14.86	ug/L	-1	30	0.0500	
1,4-Dichlorobenzene	1.4885	1.5141	15.00	15.26	ug/L	2	30	0.0500	
1,2-Dichlorobenzene	1.4210	1.3923	15.00	14.70	ug/L	-2	30	0.0500	
1,2-Dichloroethane-d4	0.3709	0.3646	50.00	49.14	ug/L	-2	30	0.0500	
Toluene-d8	1.3885	1.3827	50.00	49.79	ug/L	0	30	0.0500	
Bromofluorobenzene	1.0359	0.8970	50.00	43.30	ug/L	-13	30	0.0500	

ISTD (ICAL nh613)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	598915	705633	17.82	11.22	11.22	0.00
1,4-Difluorobenzene	1015820	1180105	16.17	12.06	12.06	0.00
Chlorobenzene-d5	938083	1127125	20.15	14.90	14.90	0.00
1,4-Dichlorobenzene-d4	477424	603619	26.43	16.94	16.94	0.00

Analyst: MCT Date: 08/15/13 Reviewer: BO Date: 08/16/13

!=warning -=low bias v=ICV

Logbooks & Sequences

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 483324446

Date : 08/13/13 Reference : idc20
Sequence : MSVOA09 ihd Analyzed : 04/12/13 19:41

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	1676048	11.44	2499222	12.70	1839785	16.96	910468	19.40
		LOWER LIMIT	838024	10.94	1249611	12.20	919893	16.46	455234	18.90
		UPPER LIMIT	3352096	11.94	4998444	13.20	3679570	17.46	1820936	19.90
005	CCV		1516284	11.40	1999631	12.66	1615774	16.93	903636	19.39
006	BS	QC701535	1584711	11.41	2143761	12.68	1606986	16.93	892018	19.39
007	BSD	QC701536	1516483	11.41	1968784	12.68	1538216	16.94	843630	19.40
009	BLANK	QC701537	1568772	11.42	2066647	12.69	1597655	16.95	864966	19.40
010	SAMPLE	247738-003	1541341	11.42	2038536	12.69	1579359	16.95	833093	19.40
011	SAMPLE	247738-001	1500489	11.42	1949128	12.69	1548557	16.95	822151	19.39
012	SAMPLE	247738-002	1465372	11.42	1919172	12.68	1507443	16.94	822404	19.40
013	SAMPLE	247736-001	1462028	11.43	1956092	12.69	1526050	16.95	796816	19.40
014	SAMPLE	247736-003	1473880	11.42	1952212	12.69	1501233	16.94	831595	19.40
015	MSS	247736-007	1437457	11.43	1944022	12.69	1512909	16.95	798603	19.40
016	SAMPLE	247738-008	1339719	11.42	1821775	12.69	1427799	16.94	733857	19.40
017	SAMPLE	247761-003	1407924	11.42	1874709	12.69	1456504	16.95	783483	19.39
018	SAMPLE	247761-006	1412882	11.43	1899785	12.69	1485662	16.95	808866	19.40
019	SAMPLE	247761-004	1343316	11.42	1779217	12.69	1368649	16.95	724821	19.40
020	SAMPLE	247818-010	1341016	11.43	1751177	12.69	1381386	16.95	725796	19.40
021	SAMPLE	247818-009	1317361	11.43	1731454	12.69	1320321	16.95	718352	19.40
022	MS	QC701354	1415215	11.43	1892417	12.69	1543309	16.95	850396	19.40
023	MSD	QC701355	1500265	11.43	2005725	12.70	1536716	16.95	884707	19.40
025	IB		1497514	11.43	2015607	12.69	1532522	16.95	829258	19.39
026	IB		1471179	11.43	1958078	12.69	1549017	16.95	829479	19.40

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 833327616

Date : 08/15/13 Reference : kh112
Sequence : MSVOA11 khf Analyzed : 08/01/13 17:52

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	377160	10.26	618016	11.20	549972	14.35	282339	16.57
		LOWER LIMIT	188580	9.76	309008	10.70	274986	13.85	141170	16.07
		UPPER LIMIT	754320	10.76	1236032	11.70	1099944	14.85	564678	17.07
003	CCV	20PPB	324863	10.25	541563	11.20	491539	14.35	251807	16.57
004	CCV/BS	QC702054	307026	10.26	519336	11.20	469731	14.35	244229	16.57
005	CCV/BS	QC702054	321365	10.26	542794	11.20	497968	14.35	257117	16.57
006	BSD	QC702055	328637	10.25	554633	11.20	502365	14.35	260535	16.57
007	CCV	A/A	307134	10.25	519801	11.20	468819	14.35	235159	16.57
008	BLANK	QC702053	311440	10.26	530134	11.20	481393	14.35	240684	16.57
009	SAMPLE	247818-014	308305	10.26	526513	11.20	480707	14.35	237485	16.57
010	SAMPLE	247931-001	314524	10.25	533053	11.20	486237	14.35	244277	16.57
011	SAMPLE	247957-001	309215	10.25	526491	11.20	481632	14.35	241435	16.57
012	SAMPLE	248016-001	307302	10.25	520780	11.20	479187	14.35	234946	16.57
013	SAMPLE	247965-003	305457	10.25	521541	11.20	479739	14.35	243547	16.57
014	SAMPLE	247943-002	309562	10.25	526445	11.20	483288	14.35	241568	16.57
015	SAMPLE	247943-001	307047	10.26	520773	11.20	475719	14.35	237795	16.57
016	SAMPLE	247965-001	305967	10.25	521881	11.20	482261	14.35	243666	16.57
017	SAMPLE	247965-002	305432	10.25	521828	11.20	475228	14.35	239681	16.57

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 943323354

Date : 08/12/13 Reference : mgo16
Sequence : MSVOA13 mhc Analyzed : 07/24/13 15:33

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	754540	11.39	1418479	12.23	1344645	15.05	616170	17.10
		LOWER LIMIT	377270	10.89	709240	11.73	672323	14.55	308085	16.60
		UPPER LIMIT	1509080	11.89	2836958	12.73	2689290	15.55	1232340	17.60
001	IB	IB	956698	11.39	1790956	12.23	1596664	15.05	696001	17.10
003	CCV	25PPB	950196	11.39	1725894	12.23	1612386	15.05	747804	17.10
004	CCV/BS	QC701400	932022	11.39	1693565	12.23	1578448	15.05	747216	17.10
005	BSD	QC701401	946787	11.39	1725769	12.23	1607005	15.05	779303	17.10
006	IB	IB	894525	11.39	1677431	12.23	1519033	15.05	670898	17.10
007	BLANK	QC701402	850461	11.39	1612011	12.23	1456052	15.05	648421	17.10
008	LOD	219962-021	791799	11.39	1512171	12.23	1367680	15.05	590451	17.10
009	LOD	219962-021	800253	11.39	1526692	12.23	1381932	15.05	602566	17.10
010	LOD	219962-021	782871	11.39	1483451	12.23	1357109	15.05	614058	17.10
011	LOD	219962-021	801011	11.39	1507317	12.23	1364853	15.05	612336	17.10
012	SAMPLE	247818-001	755168	11.39	1462169	12.23	1319050	15.05	568982	17.10
013	SAMPLE	247726-004	756041	11.39	1458069	12.23	1328221	15.05	576010	17.10
014	SAMPLE	247669-006	735474	11.39	1437607	12.23	1304321	15.05	564005	17.10
015	SAMPLE	247669-001	743164	11.39	1442018	12.23	1309639	15.05	583612	17.10
016	SAMPLE	247669-002	746992	11.39	1468836	12.23	1357941	15.05	609015	17.10
017	SAMPLE	247669-003	781117	11.39	1517034	12.23	1380759	15.05	609309	17.10
018	SAMPLE	247669-004	748592	11.39	1452645	12.23	1330869	15.05	613279	17.10
019	SAMPLE	247669-005	740637	11.39	1456151	12.23	1337580	15.05	610826	17.10
020	SAMPLE	247726-001	727568	11.39	1431025	12.23	1297594	15.05	559749	17.10
021	SAMPLE	247726-002	714584	11.39	1409766	12.23	1280503	15.05	547642	17.10
022	SAMPLE	247726-003	709843	11.39	1400596	12.23	1278799	15.05	556795	17.10
023	SAMPLE	247729-001	723823	11.39	1420676	12.23	1306163	15.05	568574	17.10
024	SAMPLE	247729-002	720221	11.39	1425887	12.23	1309270	15.05	589649	17.10
025	IB	IB	722588	11.39	1428051	12.23	1299611	15.05	566421	17.10
026	IB	IB	711705	11.39	1407464	12.23	1308454	15.05	603062	17.10

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 943325988

Date : 08/14/13 Reference : mgo16
Sequence : MSVOA13 mhe Analyzed : 07/24/13 15:33

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	754540	11.39	1418479	12.23	1344645	15.05	616170	17.10
		LOWER LIMIT	377270	10.89	709240	11.73	672323	14.55	308085	16.60
		UPPER LIMIT	1509080	11.89	2836958	12.73	2689290	15.55	1232340	17.60
001	IB	IB	703589	11.39	1435887	12.23	1297737	15.05	552459	17.10
003	CCV	20PPB	802569	11.39	1488206	12.23	1473017	15.05	714012	17.10
005	CCV/BS	QC701790	818570	11.39	1509617	12.23	1459978	15.05	704326	17.10
007	CCV	20PPB	871338	11.39	1540742	12.23	1487354	15.05	735183	17.10
009	CCV	12.5PPB	1036228	11.39	1881601	12.23	1764417	15.05	846764	17.10
010	BS	QC701790	977200	11.39	1772485	12.23	1675582	15.05	795348	17.10
011	BSD	QC701791	972376	11.39	1763167	12.23	1662366	15.05	775482	17.10
012	IB	IB	901541	11.39	1727381	12.23	1574106	15.05	699828	17.10
013	BLANK	QC701792	838445	11.39	1631344	12.23	1498732	15.05	664590	17.10
014	SAMPLE	247818-024	827223	11.39	1614503	12.23	1475554	15.05	638398	17.10
015	SAMPLE	247944-001	811614	11.39	1601239	12.23	1476751	15.05	664251	17.10
016	SAMPLE	247944-003	779632	11.39	1544005	12.23	1408656	15.05	622664	17.10
017	SAMPLE	247944-004	809692	11.39	1565892	12.23	1439736	15.05	639046	17.10
018	SAMPLE	247944-005	756071	11.39	1520090	12.23	1416016	15.05	643434	17.10
019	SAMPLE	247944-006	760670	11.39	1540887	12.23	1414448	15.05	628910	17.10
020	SAMPLE	247944-007	736006	11.39	1488838	12.23	1361660	15.05	590093	17.10
021	SAMPLE	247902-006	742273	11.39	1512189	12.23	1409698	15.05	637629	17.10
022	SAMPLE	247818-013	767425	11.39	1571661	12.23	1445510	15.05	622080	17.10
023	SAMPLE	247818-014	745479	11.39	1522352	12.23	1403426	15.05	615632	17.10
024	SAMPLE	247818-015	747523	11.39	1533054	12.23	1403346	15.05	605270	17.10
025	SAMPLE	247818-016	748998	11.39	1512748	12.23	1402708	15.05	634778	17.10
026	SAMPLE	247818-017	735612	11.39	1500120	12.23	1375179	15.05	600042	17.10
027	SAMPLE	247818-019	733245	11.39	1524492	12.23	1393787	15.05	615323	17.10
028	SAMPLE	247818-020	720796	11.39	1497989	12.23	1375074	15.05	587524	17.10
029	SAMPLE	247818-021	712377	11.39	1491205	12.23	1361346	15.05	589499	17.10
030	SAMPLE	247818-022	733359	11.39	1521716	12.23	1389104	15.05	602696	17.10
031	SAMPLE	247818-023	723875	11.39	1512690	12.23	1376711	15.05	592347	17.10
032	SAMPLE	247818-018	728619	11.39	1539646	12.23	1409424	15.05	622759	17.10
033	SAMPLE	247944-002	725732	11.39	1509663	12.23	1368659	15.05	590644	17.10
034	IB	IB	717544	11.39	1490394	12.23	1358732	15.05	591976	17.10
035	IB	IB	725911	11.39	1508613	12.23	1391136	15.05	604066	17.10
036	IB	IB	711484	11.39	1487158	12.23	1354557	15.05	583965	17.10

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 953325804

Date : 08/14/13 Reference : nh613
Sequence : MSVOA14 nhe Analyzed : 08/06/13 12:31

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	598915	11.22	1015820	12.06	938083	14.90	477424	16.94
		LOWER LIMIT	299458	10.72	507910	11.56	469042	14.40	238712	16.44
		UPPER LIMIT	1197830	11.72	2031640	12.56	1876166	15.40	954848	17.44
003	CCV		686492	11.22	1149740	12.06	1094898	14.90	582079	16.94
004	BS	QC701750	705338	11.22	1172630	12.06	1108278	14.90	585325	16.94
005	BSD	QC701751	710267	11.22	1168313	12.06	1106906	14.90	582789	16.94
007	BLANK	QC701752	696818	11.22	1154489	12.06	1058958	14.90	514472	16.94
008	SAMPLE	247818-003	680765	11.22	1137266	12.06	1051051	14.90	507415	16.94
009	SAMPLE	247818-004	683912	11.22	1124433	12.06	1041384	14.90	511446	16.94
010	SAMPLE	247818-005	672155	11.22	1120563	12.06	1038007	14.90	506136	16.94
011	SAMPLE	247818-006	690335	11.22	1137101	12.06	1053576	14.90	513565	16.94
012	SAMPLE	247818-007	687271	11.22	1147758	12.06	1055928	14.90	515217	16.94
013	SAMPLE	247818-008	683852	11.22	1135122	12.06	1056973	14.90	508765	16.94
014	SAMPLE	247818-011	674006	11.22	1119384	12.06	1037257	14.90	503170	16.94
015	SAMPLE	247818-012	681469	11.22	1123849	12.06	1036482	14.90	511317	16.94
016	SAMPLE	247818-002	673715	11.22	1115229	12.06	1030519	14.90	508179	16.94
017	SAMPLE	247842-003	674595	11.22	1123413	12.06	1032753	14.90	511936	16.94
018	SAMPLE	247902-001	666010	11.22	1118005	12.06	1034810	14.90	504333	16.94
019	SAMPLE	247902-002	661612	11.22	1112164	12.06	1026975	14.90	502785	16.94
020	SAMPLE	247876-001	660960	11.22	1108363	12.06	1031778	14.90	499067	16.94
021	SAMPLE	247876-003	673851	11.22	1113378	12.06	1038244	14.90	509973	16.94
022	SAMPLE	247876-005	665492	11.22	1111082	12.06	1030568	14.90	508526	16.94
023	SAMPLE	247889-001	657170	11.22	1098078	12.06	1028767	14.90	504586	16.94
024	SAMPLE	247889-002	653943	11.22	1090716	12.06	1009222	14.90	498693	16.94
025	SAMPLE	247889-003	668996	11.22	1114763	12.06	1033311	14.90	506211	16.94
026	SAMPLE	247876-004	567596	11.22	944095	12.06	880532	14.90	442279	16.94

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 953327254

Date : 08/15/13 Reference : nh613
Sequence : MSVOA14 nhf Analyzed : 08/06/13 12:31

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	598915	11.22	1015820	12.06	938083	14.90	477424	16.94
		LOWER LIMIT	299458	10.72	507910	11.56	469042	14.40	238712	16.44
		UPPER LIMIT	1197830	11.72	2031640	12.56	1876166	15.40	954848	17.44
003	CCV		705633	11.22	1180105	12.06	1127125	14.90	603619	16.94
004	BS	QC701952	706779	11.22	1176350	12.06	1129481	14.90	599562	16.94
005	BSD	QC701953	704231	11.22	1168419	12.06	1118131	14.90	602919	16.94
007	BLANK	QC701954	690046	11.22	1155926	12.06	1068065	14.90	526956	16.94
008	SAMPLE	247944-008	691785	11.22	1146016	12.06	1067117	14.90	529421	16.94
009	SAMPLE	247876-004	754135	11.22	1207047	12.06	1198427	14.90	623441	16.94
010	SAMPLE	247943-006	739331	11.22	1210416	12.06	1114010	14.90	553139	16.94
011	SAMPLE	247943-008	703508	11.22	1157998	12.06	1076907	14.90	530225	16.94
012	SAMPLE	247943-009	693585	11.22	1146405	12.06	1062430	14.90	525589	16.94
013	SAMPLE	247943-010	692014	11.22	1154494	12.06	1067792	14.90	528916	16.94
014	SAMPLE	247943-012	672121	11.22	1122132	12.06	1042248	14.90	513071	16.94
015	SAMPLE	247943-013	676931	11.22	1134794	12.06	1048743	14.90	519789	16.94
016	SAMPLE	247943-017	660995	11.22	1098498	12.06	1012133	14.90	501831	16.94
017	SAMPLE	247943-018	668652	11.22	1113330	12.06	1042300	14.90	510887	16.94
018	SAMPLE	247943-019	673363	11.22	1135470	12.06	1047591	14.90	513832	16.94
019	SAMPLE	247818-012	656267	11.22	1108590	12.06	1030338	14.90	501800	16.94
020	SAMPLE	247944-009	657570	11.22	1100964	12.06	1025161	14.90	496013	16.94
021	SAMPLE	247818-008	650509	11.22	1091040	12.06	1017364	14.90	499045	16.94
022	SAMPLE	247943-014	661392	11.22	1106179	12.06	1030203	14.90	498705	16.94
023	SAMPLE	247943-016	659225	11.22	1099937	12.06	1019464	14.90	500151	16.94
024	SAMPLE	247943-011	650109	11.22	1089520	12.06	1029929	14.90	496710	16.94
025	SAMPLE	247943-015	657938	11.22	1096214	12.06	1024603	14.90	506849	16.94
026	SAMPLE	247943-007	643953	11.22	1099257	12.06	1019618	14.90	493637	16.94

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 483147320

Instrument : MSVOA09 Begun : 04/12/13 07:20
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	idc01	X	IB			04/12/13 07:20	1.0	1	
002	idc02	TUN	BFB			04/12/13 08:59	1.0	2	
003	idc03	CCV				04/12/13 09:25	1.0	3 4 5 6 7	cc+ , 80:ETHANOL=73000
004	idc04	BS	QC684032	Water	197328	04/12/13 09:58	1.0	8 9 10 11 7	spk cc+ , 79:ETHANOL=80000
005	idc05	BSD	QC684033	Water	197328	04/12/13 10:31	1.0	8 9 10 11 7	spk cc+ , 79:ETHANOL=190000
008	idc08	IB				04/12/13 11:03	197100	7	
009	idc09	BLANK	QC684034	Water	197328	04/12/13 11:36	1.0	7	cc+
010	idc10	CCV				04/12/13 13:05	1.0	3 4 5 6 7	cc+
011	idc11	TUN	BFB			04/12/13 14:37	1.0	2	
012	idc12	IB				04/12/13 15:05	197200	7	
013	idc13	IB	CALIB			04/12/13 15:40	197200	7	
014	idc14	ICAL				04/12/13 16:14	1.0	5 6 3 4 7	
015	idc15	ICAL				04/12/13 16:49	1.0	5 6 3 4 7	
016	idc16	ICAL				04/12/13 17:23	1.0	5 6 3 4 7	
017	idc17	ICAL				04/12/13 17:58	1.0	5 6 3 4 7	
018	idc18	ICAL				04/12/13 18:32	1.0	5 6 3 4 7	
019	idc19	ICAL				04/12/13 19:06	1.0	5 6 3 4 7	
020	idc20	ICAL				04/12/13 19:41	1.0	5 6 3 4 7	
021	idc21	ICAL				04/12/13 20:15	1.0	5 6 3 4 7	
022	idc22	ICAL				04/12/13 20:50	1.0	5 6 3 4 7	
023	idc23	ICV				04/12/13 21:24	1.0	11 7	
024	idc24	ICV				04/12/13 21:59	1.0	8 9 10 7	
025	idc25	X	IB			04/12/13 22:34	1.0	7	
026	idc26	X	IB			04/12/13 23:08	1.0	7	

MJB 04/17/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 26.

Analyst: MJB Date: 04/17/13 Reviewer: TW Date: 04/17/13

Standards used: 1=S21822 2=S21369 3=S21635 4=S21908 5=S21889 6=S21761 7=S22165 8=S21957 9=S22045 10=S22146 11=S21932

Flags used: +=high bias cc=CCV CCC failure spk=5% spike rule

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 483324446

Instrument : MSVOA09 Begun : 08/13/13 07:26
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	ihd01	X	HIGH GASES			08/13/13 07:26	1.0	1	
002	ihd02	X	IB			08/13/13 08:00	1.0	1	
003	ihd03	TUN	BFB			08/13/13 09:08	1.0	2	t
004	ihd04	TUN	BFB			08/13/13 09:23	1.0	2	
005	ihd05	CCV				08/13/13 09:51	1.0	3 4 5 6 1	
006	ihd06	BS	QC701535	Water	201624	08/13/13 10:25	1.0	7 8 9 10 1	
007	ihd07	BSD	QC701536	Water	201624	08/13/13 10:59	1.0	7 8 9 10 1	
008	ihd08	X	A/A			08/13/13 11:33	1.0	11 1	
009	ihd09	BLANK	QC701537	Water	201624	08/13/13 12:07	1.0	1	
010	ihd10	SAMPLE	247738-003	Water	201624	08/13/13 12:41	1.0	1	
011	ihd11	SAMPLE	247738-001	Water	201624	08/13/13 13:15	1.0	1	
012	ihd12	SAMPLE	247738-002	Water	201624	08/13/13 13:49	1.0	1	
013	ihd13	SAMPLE	247736-001	Water	201624	08/13/13 14:24	1.0	1	
014	ihd14	SAMPLE	247736-003	Water	201624	08/13/13 14:58	1.0	1	headspace <= 1 mL
015	ihd15	MSS	247736-007	Water	201624	08/13/13 15:32	1.0	1	
016	ihd16	SAMPLE	247738-008	Water	201624	08/13/13 16:06	2.0	1	
017	ihd17	SAMPLE	247761-003	Water	201624	08/13/13 16:40	5.0	1	pH > 2
018	ihd18	SAMPLE	247761-006	Water	201624	08/13/13 17:14	10.0	1	pH > 2
019	ihd19	SAMPLE	247761-004	Water	201624	08/13/13 17:48	25.0	1	pH > 2
020	ihd20	SAMPLE	247818-010	Water	201624	08/13/13 18:22	1.0	1	pH > 2
021	ihd21	SAMPLE	247818-009	Water	201624	08/13/13 18:56	5.0	1	
022	ihd22	MS	QC701354	Water	201577	08/13/13 19:30	1.0	7 8 9 10 1	
023	ihd23	MSD	QC701355	Water	201577	08/13/13 20:04	1.0	7 8 9 10 1	
024	ihd24	X	HIGH GAS		201624	08/13/13 20:38	1.0	1	
025	ihd25	IB				08/13/13 21:12	201600	1	
026	ihd26	IB				08/13/13 21:47	201600	1	<<t

MJB 08/14/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 26.

MJB 08/14/13 : Matrix spikes were not performed for this analysis in batch 201624 due to insufficient sample amount.

Analyst: MJB Date: 08/14/13 Reviewer: BO Date: 08/14/13

Standards used: 1=S22913 2=S22624 3=S21953 4=S23013 5=S22920 6=S21857 7=S22975 8=S22927 9=S23020 10=S22435 11=S22949

Flags used: <<t=out of clock t=tune failure

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 833307436

Instrument : MSVOA11 Begun : 08/01/13 11:56
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	kh101	X	IB			08/01/13 11:56	1.0	1	
002	kh102	X	LOW PT			08/01/13 12:24	1.0	1	
003	kh103	TUN	BFB			08/01/13 13:36	1.0	2	
004	kh104	X	IB			08/01/13 14:06	1.0	1	
005	kh105	IB	CALIB IB			08/01/13 14:34	1.0	1	
006	kh106	ICAL	.25/.5PPB			08/01/13 15:02	1.0	3 4 5 6 1	
007	kh107	ICAL	0.5/1PPB			08/01/13 15:31	1.0	3 4 5 6 1	
008	kh108	ICAL	2PPB			08/01/13 15:59	1.0	3 4 5 6 1	
009	kh109	ICAL	5PPB			08/01/13 16:27	1.0	3 4 5 6 1	
010	kh110	ICAL	10PPB			08/01/13 16:56	1.0	3 4 5 6 1	
011	kh111	ICAL	20PPB			08/01/13 17:24	1.0	3 4 5 6 1	
012	kh112	ICAL	50PPB			08/01/13 17:52	1.0	3 4 5 6 1	
013	kh113	ICAL	75PPB			08/01/13 18:21	1.0	3 4 5 6 1	
014	kh114	ICAL	100PPB			08/01/13 18:49	1.0	3 4 5 6 1	
015	kh115	ICV	25PPB			08/01/13 19:18	1.0	7 1	
016	kh116	ICV	40PPB			08/01/13 19:46	1.0	8 1	
017	kh117	ICV	25PPB			08/01/13 20:14	1.0	9 10 11 1	
018	kh118	X	IB			08/01/13 20:43	1.0	1	
019	kh119	X	IB			08/01/13 21:11	1.0	1	
020	kh120	X	IB			08/01/13 21:39	1.0	1	

BO 08/02/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 20.

Analyst: BO Date: 08/02/13 Reviewer: LW Date: 08/02/13

Standards used: 1=S22937 2=S22624 3=S21953 4=S22575 5=S22920 6=S22141 7=S22793 8=S17234 9=S22666 10=S22927 11=S22609

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 833327616

Instrument : MSVOA11 Begun : 08/15/13 12:16
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	khf01	X	IB			08/15/13 12:16	1.0	1	
002	khf02	TUN	BFB			08/15/13 12:57	1.0	2	
003	khf03	CCV	20PPB			08/15/13 13:19	1.0	3 4 5 1	cc+
004	khf04	CCV/BS	QC702054	Water	201746	08/15/13 13:48	1.0	6 7 8 1	cc+
005	khf05	CCV/BS	QC702054	Water	201746	08/15/13 14:16	1.0	6 7 8 1	
006	khf06	BSD	QC702055	Water	201746	08/15/13 15:07	1.0	6 7 8 1	
007	khf07	CCV	A/A			08/15/13 15:35	1.0	9 1	
008	khf08	BLANK	QC702053	Water	201746	08/15/13 16:04	1.0	1	
009	khf09	SAMPLE	247818-014	Water	201746	08/15/13 16:32	1.0	1	
010	khf10	SAMPLE	247931-001	Water	201746	08/15/13 17:00	1.0	1	
011	khf11	SAMPLE	247957-001	Water	201746	08/15/13 17:29	1.0	1	
012	khf12	SAMPLE	248016-001	Water	201746	08/15/13 17:57	1.0	1	
013	khf13	SAMPLE	247965-003	Water	201746	08/15/13 18:26	2.0	1	headspace <= 1 mL, 1:STY=140
014	khf14	SAMPLE	247943-002	Water	201746	08/15/13 18:54	5.0	1	
015	khf15	SAMPLE	247943-001	Water	201746	08/15/13 19:22	12.50	1	
016	khf16	SAMPLE	247965-001	Water	201746	08/15/13 19:50	25.0	1	headspace <= 1 mL, 1:STY=100
017	khf17	SAMPLE	247965-002	Water	201746	08/15/13 20:19	25.0	1	headspace <= 1 mL, 1:STY=110
018	khf18	X	IB			08/15/13 20:47	1.0	1	

MJB 08/16/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 18.

MJB 08/16/13 : Matrix spikes were not performed for this analysis in batch 201746 due to insufficient sample amount.

Analyst: MJB Date: 08/16/13 Reviewer: BO Date: 08/16/13

Standards used: 1=S22937 2=S22624 3=S22920 4=S21857 5=S21953 6=S23020 7=S22435 8=S22927 9=S22949

Flags used: +=high bias cc=CCV CCC failure

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 943295688

Instrument : MSVOA13 Begun : 07/24/13 08:08
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	mgo01	TUN	BFB			07/24/13 08:08	1.0	1	
002	mgo02	IB	IB			07/24/13 08:47	1.0	2	
003	mgo03	X	LOW PT			07/24/13 09:28	1.0	2	
004	mgo04	X	LOW PT			07/24/13 09:55	1.0	2	
005	mgo05	X	LOW PT			07/24/13 10:23	1.0	2	
006	mgo06	TUN	BFB			07/24/13 10:56	1.0	1	
007	mgo07	X	IB			07/24/13 11:20	1.0	2	
008	mgo08	X	IB			07/24/13 11:48	1.0	2	
009	mgo09	IB	CALIB IB			07/24/13 12:16	1.0	2	
010	mgo10	ICAL	.25/.5PPB			07/24/13 12:44	1.0	3 4 5 6 2	
011	mgo11	ICAL	0.5/1PPB			07/24/13 13:12	1.0	3 4 5 6 2	
012	mgo12	ICAL	2PPB			07/24/13 13:40	1.0	3 4 5 6 2	
013	mgo13	ICAL	5PPB			07/24/13 14:08	1.0	3 4 5 6 2	
014	mgo14	ICAL	10PPB			07/24/13 14:36	1.0	3 4 5 6 2	
015	mgo15	ICAL	20PPB			07/24/13 15:04	1.0	3 4 5 6 2	
016	mgo16	ICAL	50PPB			07/24/13 15:33	1.0	3 4 5 6 2	
017	mgo17	ICAL	75PPB			07/24/13 16:01	1.0	3 4 5 6 2	
018	mgo18	ICAL	100PPB			07/24/13 16:29	1.0	3 4 5 6 2	
019	mgo19	ICV	25PPB			07/24/13 16:57	1.0	7 2	
020	mgo20	ICV	40PPB			07/24/13 17:25	1.0	8 2	
021	mgo21	ICV	25PPB			07/24/13 17:53	1.0	9 10 11 2	
022	mgo22	IB	IB			07/24/13 18:22	1.0	2	
023	mgo23	IB	IB			07/24/13 18:50	1.0	2	
024	mgo24	IB	IB			07/24/13 19:18	1.0	2	

BO 07/25/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 24.

Analyst: BO Date: 07/25/13 Reviewer: LW Date: 07/25/13

Standards used: 1=S22624 2=S22908 3=S21953 4=S22575 5=S22920 6=S22141 7=S22793 8=S17234 9=S22606 10=S22596 11=S22609

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 943297216

Instrument : MSVOA13 Begun : 07/25/13 09:36
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	mgp01	IB	IB			07/25/13 09:36	1.0	1	?t
002	mgp02	TUN	BFB			07/25/13 10:01	1.0	2	
003	mgp03	ICV	25PPB			07/25/13 10:30	1.0	3 4 5 6 1	

BO 07/25/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 3.

Analyst: BO Date: 07/25/13 Reviewer: LW Date: 07/25/13

Standards used: 1=S22908 2=S22624 3=S22666 4=S22596 5=S22793 6=S22609

Flags used: ?t=missing tune

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 943323354

Instrument : MSVOA13 Begun : 08/12/13 13:14
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	mhc01	IB	IB			08/12/13 13:14	1.0	1	?t
002	mhc02	TUN	BFB			08/12/13 13:40	1.0	2	
003	mhc03	CCV	25PPB			08/12/13 14:02	1.0	3 4 5 6 1	
004	mhc04	CCV/BS	QC701400	Water	201594	08/12/13 14:41	1.0	7 8 9 10 1	
005	mhc05	BSD	QC701401	Water	201594	08/12/13 15:09	1.0	7 8 9 10 1	
006	mhc06	IB	IB			08/12/13 15:37	1.0	1	
007	mhc07	BLANK	QC701402	Water	201594	08/12/13 16:05	1.0	1	
008	mhc08	LOD	219962-021	Water	201594	08/12/13 16:33	1.0	1 3 4 11 12	
009	mhc09	LOD	219962-021	Water	201594	08/12/13 17:01	1.0	1 3 4 11 12	
010	mhc10	LOD	219962-021	Water	201594	08/12/13 17:29	1.0	1 3 4 11 12	
011	mhc11	LOD	219962-021	Water	201594	08/12/13 17:57	1.0	1 3 4 11 12	
012	mhc12	SAMPLE	247818-001	Water	201594	08/12/13 18:25	1.0	1	
013	mhc13	SAMPLE	247726-004	Water	201594	08/12/13 18:53	1.0	1	
014	mhc14	SAMPLE	247669-006	Water	201594	08/12/13 19:21	1.0	1	
015	mhc15	SAMPLE	247669-001	Water	201594	08/12/13 19:49	1.0	1	
016	mhc16	SAMPLE	247669-002	Water	201594	08/12/13 20:17	1.0	1	
017	mhc17	SAMPLE	247669-003	Water	201594	08/12/13 20:45	1.0	1	
018	mhc18	SAMPLE	247669-004	Water	201594	08/12/13 21:13	1.0	1	
019	mhc19	SAMPLE	247669-005	Water	201594	08/12/13 21:41	1.0	1	
020	mhc20	SAMPLE	247726-001	Water	201594	08/12/13 22:09	1.0	1	
021	mhc21	SAMPLE	247726-002	Water	201594	08/12/13 22:36	1.0	1	
022	mhc22	SAMPLE	247726-003	Water	201594	08/12/13 23:04	1.0	1	
023	mhc23	SAMPLE	247729-001	Water	201594	08/12/13 23:32	1.0	1	
024	mhc24	SAMPLE	247729-002	Water	201594	08/13/13 00:00	1.0	1	
025	mhc25	IB	IB			08/13/13 00:27	1.0	1	
026	mhc26	IB	IB			08/13/13 00:55	1.0	1	

BO 08/13/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 26.

BO 08/13/13 : Matrix spikes were not performed for this analysis in batch 201594 due to insufficient sample amount.

SJD 08/13/13 : 247669-004 ran twice on this sequence? Not listed twice on prep sheet

Analyst: BO Date: 08/13/13 Reviewer: SJD Date: 08/13/13

Standards used: 1=S22908 2=S22624 3=S21953 4=S23013 5=S22920 6=S22141 7=S22266 8=S22927 9=S22793 10=S22609 11=S22755 12=S21857

Flags used: ?t=missing tune

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 943325988

Instrument : MSVOA13 Begun : 08/14/13 09:08
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	mhe01	IB	IB			08/14/13 09:08	1.0	1	?t
002	mhe02	TUN	BFB			08/14/13 10:32	1.0	2	
003	mhe03	CCV	20PPB			08/14/13 10:54	1.0	3 4 5 6 1	cc-
004	mhe04	TUN	BFB			08/14/13 11:35	1.0	2	
005	mhe05	CCV/BS	QC701790	Water	201683	08/14/13 11:57	1.0	7 8 9 10 1	
006	mhe06	TUN	BFB			08/14/13 12:32	1.0	2	
007	mhe07	CCV	20PPB			08/14/13 12:53	1.0	3 4 5 6 1	cc-
008	mhe08	TUN	BFB			08/14/13 14:44	1.0	2	
009	mhe09	CCV	12.5PPB			08/14/13 15:06	1.0	7 8 9 10 1	
010	mhe10	BS	QC701790	Water	201683	08/14/13 15:50	1.0	7 8 9 10 1	spk
011	mhe11	BSD	QC701791	Water	201683	08/14/13 16:20	1.0	7 8 9 10 1	spk
012	mhe12	IB	IB			08/14/13 16:48	1.0	1	
013	mhe13	BLANK	QC701792	Water	201683	08/14/13 17:16	1.0	1	
014	mhe14	SAMPLE	247818-024	Water	201683	08/14/13 17:44	1.0	1	spk
015	mhe15	SAMPLE	247944-001	Water	201683	08/14/13 18:13	1.0	1	
016	mhe16	SAMPLE	247944-003	Water	201683	08/14/13 18:41	1.0	1	
017	mhe17	SAMPLE	247944-004	Water	201683	08/14/13 19:09	1.0	1	
018	mhe18	SAMPLE	247944-005	Water	201683	08/14/13 19:37	1.0	1	
019	mhe19	SAMPLE	247944-006	Water	201683	08/14/13 20:05	1.0	1	
020	mhe20	SAMPLE	247944-007	Water	201683	08/14/13 20:33	1.0	1	
021	mhe21	SAMPLE	247902-006	Water	201683	08/14/13 21:01	1.0	1	spk
022	mhe22	SAMPLE	247818-013	Water	201683	08/14/13 21:29	1.0	1	spk
023	mhe23	SAMPLE	247818-014	Water	201683	08/14/13 21:57	1.0	1	spk
024	mhe24	SAMPLE	247818-015	Water	201683	08/14/13 22:25	1.0	1	spk
025	mhe25	SAMPLE	247818-016	Water	201683	08/14/13 22:53	1.0	1	spk
026	mhe26	SAMPLE	247818-017	Water	201683	08/14/13 23:21	1.0	1	spk
027	mhe27	SAMPLE	247818-019	Water	201683	08/14/13 23:48	1.0	1	spk
028	mhe28	SAMPLE	247818-020	Water	201683	08/15/13 00:16	1.0	1	spk
029	mhe29	SAMPLE	247818-021	Water	201683	08/15/13 00:44	1.0	1	spk
030	mhe30	SAMPLE	247818-022	Water	201683	08/15/13 01:12	1.0	1	spk
031	mhe31	SAMPLE	247818-023	Water	201683	08/15/13 01:39	1.0	1	spk
032	mhe32	SAMPLE	247818-018	Water	201683	08/15/13 02:07	2.0	1	spk
033	mhe33	SAMPLE	247944-002	Water	201683	08/15/13 02:35	5.0	1	
034	mhe34	IB	IB			08/15/13 03:03	1.0	1	<<t
035	mhe35	IB	IB			08/15/13 03:30	1.0	1	<<t
036	mhe36	IB	IB			08/15/13 03:58	1.0	1	<<t
037	mhe37	X	HIGH GAS			08/15/13 04:25	1.0	1	

BO 08/15/13 : mhe04, mhe06, mhe08, adjusted tune

BO 08/15/13 : Matrix spikes were not performed for this analysis in batch 201683 due to insufficient sample amount.

BO 08/15/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 37.

Analyst: BO Date: 08/15/13 Reviewer: SJD Date: 08/15/13

Standards used: 1=S22908 2=S22624 3=S21953 4=S23013 5=S22920 6=S22141 7=S22435 8=S22927 9=S23020 10=S22975

Flags used: -=low bias <<t=out of clock ?t=missing tune cc=CCV CCC failure spk=5% spike rule

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 953314372

Instrument : MSVOA14 Begun : 08/06/13 07:32
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	nh601	TUN	BFB			08/06/13 07:32	1.0	1	
002	nh602	TUN	BFB			08/06/13 07:41	1.0	1	t
003	nh603	TUN	BFB			08/06/13 07:53	1.0	1	
004	nh604	X	IB			08/06/13 08:14	1.0	2	
005	nh605	X	IB			08/06/13 08:42	1.0	2	
006	nh606	IB	CALIBRATION			08/06/13 09:11	1.0	2	
007	nh607	ICAL				08/06/13 09:39	1.0	3 4 5 6 2	
008	nh608	ICAL				08/06/13 10:08	1.0	3 4 5 6 2	
009	nh609	ICAL				08/06/13 10:36	1.0	3 4 5 6 2	
010	nh610	ICAL				08/06/13 11:05	1.0	3 4 5 6 2	
011	nh611	ICAL				08/06/13 11:33	1.0	3 4 5 6 2	
012	nh612	ICAL				08/06/13 12:02	1.0	3 4 5 6 2	
013	nh613	ICAL				08/06/13 12:31	1.0	3 4 5 6 2	
014	nh614	ICAL				08/06/13 12:59	1.0	3 4 5 6 2	
015	nh615	ICAL				08/06/13 13:28	1.0	3 4 5 6 2	
016	nh616	ICV				08/06/13 13:57	1.0	7 2	
017	nh617	ICV				08/06/13 14:26	1.0	8 9 10 2	
018	nh618	X	IB			08/06/13 14:55	1.0	2	
019	nh619	X	IB			08/06/13 15:24	1.0	2	
020	nh620	X	IB			08/06/13 15:52	1.0	2	

MCT 08/08/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 20.

Analyst: MCT Date: 08/08/13 Reviewer: SJD Date: 08/08/13

Standards used: 1=S22624 2=S22908 3=S22575 4=S22920 5=S21953 6=S22141 7=S22793 8=S22975 9=S22927 10=S22609

Flags used: t=tune failure

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 953325804

Instrument : MSVOA14 Begun : 08/14/13 06:04
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	nhe01	X	IB			08/14/13 06:04	1.0	1	
002	nhe02	TUN	BFB			08/14/13 07:16	1.0	2	
003	nhe03	CCV				08/14/13 07:38	1.0	3 4 5 1	
004	nhe04	BS	QC701750	Water	201672	08/14/13 08:21	1.0	6 7 8 9 1	
005	nhe05	BSD	QC701751	Water	201672	08/14/13 08:49	1.0	6 7 8 9 1	
006	nhe06	X	IB			08/14/13 09:17	1.0	1	
007	nhe07	BLANK	QC701752	Water	201672	08/14/13 09:46	1.0	1	
008	nhe08	SAMPLE	247818-003	Water	201672	08/14/13 10:14	1.0	1	
009	nhe09	SAMPLE	247818-004	Water	201672	08/14/13 10:43	1.0	1	
010	nhe10	SAMPLE	247818-005	Water	201672	08/14/13 11:11	1.0	1	
011	nhe11	SAMPLE	247818-006	Water	201672	08/14/13 11:40	1.0	1	
012	nhe12	SAMPLE	247818-007	Water	201672	08/14/13 12:09	1.0	1	
013	nhe13	SAMPLE	247818-008	Water	201672	08/14/13 12:38	1.0	1	1:TCE=370
014	nhe14	SAMPLE	247818-011	Water	201672	08/14/13 13:07	1.0	1	
015	nhe15	SAMPLE	247818-012	Water	201672	08/14/13 13:37	1.0	1	1:TCE=100
016	nhe16	SAMPLE	247818-002	Water	201672	08/14/13 14:06	1.0	1	
017	nhe17	SAMPLE	247842-003	Water	201672	08/14/13 14:35	1.0	1	2:ISOPROH=17000
018	nhe18	SAMPLE	247902-001	Water	201672	08/14/13 15:05	1.0	1	
019	nhe19	SAMPLE	247902-002	Water	201672	08/14/13 15:34	1.0	1	
020	nhe20	SAMPLE	247876-001	Water	201672	08/14/13 16:04	1.0	1	
021	nhe21	SAMPLE	247876-003	Water	201672	08/14/13 16:33	1.0	1	
022	nhe22	SAMPLE	247876-005	Water	201672	08/14/13 17:03	1.0	1	
023	nhe23	SAMPLE	247889-001	Water	201672	08/14/13 17:32	1.0	1	combined (sediment)
024	nhe24	SAMPLE	247889-002	Water	201672	08/14/13 18:02	1.0	1	
025	nhe25	SAMPLE	247889-003	Water	201672	08/14/13 18:31	1.0	1	
026	nhe26	SAMPLE	247876-004	Water	201672	08/14/13 19:00	12.50	1	
027	nhe27	X	IB			08/14/13 19:29	1.0	1	
028	nhe28	X	IB			08/14/13 19:58	1.0	1	
029	nhe29	X	IB			08/14/13 20:27	1.0	1	

MCT 08/15/13 : Matrix spikes were not performed for this analysis in batch 201672 due to insufficient sample amount.

MCT 08/15/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 29.

Analyst: MCT Date: 08/15/13 Reviewer: BO Date: 08/15/13

Standards used: 1=S22908 2=S22624 3=S23013 4=S22920 5=S22141 6=S22975 7=S22927 8=S23020 9=S22793

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 953327254

Instrument : MSVOA14 Begun : 08/15/13 06:14
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	nhf01	X	IB			08/15/13 06:14	1.0	1
002	nhf02	TUN	BFB			08/15/13 06:45	1.0	2
003	nhf03	CCV				08/15/13 07:07	1.0	3 4 5 1
004	nhf04	BS	QC701952	Water	201722	08/15/13 07:52	1.0	6 7 8 9 1
005	nhf05	BSD	QC701953	Water	201722	08/15/13 08:20	1.0	6 7 8 9 1
006	nhf06	X	IB			08/15/13 08:49	1.0	1
007	nhf07	BLANK	QC701954	Water	201722	08/15/13 09:17	1.0	1
008	nhf08	SAMPLE	247944-008	Water	201722	08/15/13 09:46	1.0	1
009	nhf09	SAMPLE	247876-004	Water	201722	08/15/13 10:15	1.0	1
010	nhf10	SAMPLE	247943-006	Water	201722	08/15/13 10:43	1.0	1
011	nhf11	SAMPLE	247943-008	Water	201722	08/15/13 11:12	1.0	1
012	nhf12	SAMPLE	247943-009	Water	201722	08/15/13 11:42	1.0	1
013	nhf13	SAMPLE	247943-010	Water	201722	08/15/13 12:11	1.0	1
014	nhf14	SAMPLE	247943-012	Water	201722	08/15/13 12:40	1.0	1
015	nhf15	SAMPLE	247943-013	Water	201722	08/15/13 13:09	1.0	1
016	nhf16	SAMPLE	247943-017	Water	201722	08/15/13 13:39	1.0	1
017	nhf17	SAMPLE	247943-018	Water	201722	08/15/13 14:08	1.0	1
018	nhf18	SAMPLE	247943-019	Water	201722	08/15/13 14:38	1.0	1
019	nhf19	SAMPLE	247818-012	Water	201722	08/15/13 15:07	1.429	1
020	nhf20	SAMPLE	247944-009	Water	201722	08/15/13 15:37	2.0	1
021	nhf21	SAMPLE	247818-008	Water	201722	08/15/13 16:06	5.0	1
022	nhf22	SAMPLE	247943-014	Water	201722	08/15/13 16:36	7.143	1
023	nhf23	SAMPLE	247943-016	Water	201722	08/15/13 17:05	14.29	1
024	nhf24	SAMPLE	247943-011	Water	201722	08/15/13 17:35	33.33	1
025	nhf25	SAMPLE	247943-015	Water	201722	08/15/13 18:04	40.0	1
026	nhf26	SAMPLE	247943-007	Water	201722	08/15/13 18:33	10000	1
027	nhf27	X	IB			08/15/13 19:02	1.0	1
028	nhf28	X	IB			08/15/13 19:31	1.0	1
029	nhf29	X	IB			08/15/13 20:00	1.0	1

MCT 08/16/13 : Matrix spikes were not performed for this analysis in batch 201722 due to insufficient sample amount.

MCT 08/16/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 29.

Analyst: MCT Date: 08/16/13 Reviewer: BO Date: 08/16/13

Standards used: 1=S22908 2=S22624 3=S23013 4=S22920 5=S22141 6=S22975 7=S22927 8=S23020 9=S22793

Page 1 of 1

MSVOA WATER Prepsheet Curtis & Tompkins, Ltd.

Date: 8/12/13 **Batch #:** 201594

	Sample ID	Vial	pH <2	pH (if >2)	HS?	Dil'n flask	MS#	RR	DF	Comments	20 % ccv	hold	due	init date
1	219962.21	—					B	—	—	LODs x3				BO
2	247669.1	C	✓						1					KMM 8/12
3	2	↓	✓						1					
4	3		✓						1					
5	4		✓						1					
6	5		✓						1					
7	6	B	✓						1	TB				
8	247726.1	C	✓						1					
9	2		✓						1					
10	3		✓						1					
11	4	A	✓						1	TB				
12	247729.1	C	✓						1					
13	2		✓						1					
14	247818-1	B	✓						1					
15														
16														
17														
18														
19														
20														
21														
22														

MSVOA WATER Prepsheet Curtis & Tompkins, Ltd.

Date: 8/13/13 **Batch #:** 20624

	Sample ID	Vial	pH <2	pH (if >2)	HS?	Dil'n flask	MS#	RR	DF	Comments	20% ccv ?	hold	due	init date
161	247736-001	A	✓				9		1x					AGB
2	-002	↓	✓						↓					
3	-003	B	✓					1	1x	Bromomethane MB Contamination				
4	↓ -006	A	✓			5			2x					
5	247761-003	C		7		8		1	5x	VC >LR				
6	-004	↓		7		10		1	25x	↓				
7	↓ -006	↓		7		3		1	10x	Ethylbz >LR				
8	MS 247736-004	FGH	✓					1	1x	QC 701354 Batch 201577 MS9				
9	MSD ↓	↓	✓					↓	↓	↓ 355 ↓ ↓				
10	247736-001	C	✓					1	1x	OD				
11	↓ -003	A	✓		1ml			↓	↓	↓				
12	247736-007	I	✓					1	1x	VC CO ✓				
13	↓ -MS	GHE	✓						↓	} NOT NEEDED				
14	↓ -MSD	↓	✓						↓					
15														
16	247816-9	B	✓			10			5					BO 8/12
17	↓ 10	B		7					1					
18														
19														
20														
21														
22														

MSVOA WATER Prepsheet Curtis & Tompkins, Ltd.

Date: 8/14/13 **Batch #:** 201672

	Sample ID	Vial	pH <2	pH (if >2)	HS?	Dil'n flask	MS#	RR	DF	Comments	20 % ccv	hold	due	init date
1	247818-3	B	✓				14		1x					
2	-4		✓											
16 3	-5		✓											
4	-6		✓											
5	-7		✓											
6	-8		✓											
7	-2	C	✓					1	1x	BROMOFORM CONTA.				
8	-11	B	✓						1x					
9	-12		✓											
16 10	247842-3	C	✓					1	1x	BROMOFORM CONT.				
11	247889-1	C+D	✓						1x	C+D = HIGH SEDIMENT.				
12	-2	C	✓											
17 13	-3		✓											
14	247876-1	C	✓						1x					
15	-3	C	✓											
16 16	-4	D	✓			1			12.5x					8/14
17	-5	B	✓						1x					
18	247902-1	A	✓						1x					
17 19	-2		✓											
20														
21														
22														

MSVOA WATER Prepsheet

Curtis & Tompkins, Ltd.

Date: 8/14/13

Batch #: 201683

	Sample ID	Vial	pH <2	pH (if >2)	HS?	Dil'n flask	MS#	RR	DF	Comments	20 % ccv	hold	due	init date
17 1	247902-6	A	✓				13		1					
16 2	247818-13	B	✓						1					
3	-14		✓						1					
4	-15		✓						1					
5	-16		✓						1					
6	-17		✓						1					
7	-18	B	✗			8			2					
8	-19		✓						1					
9	-20		✓						1					
10	-21		✓						1					
11	-22		✓						1					
12	-23		✓						1					
13	-24	B	✓						1	TTS				
18 14	247944-1	A	✓						1					
15	-2		✗			10			5					
16	-3		✓						1					
17	-4		✓						1					
18	-5		✓						1					
19	-6		✓						1					
20	-7		✓						1					
21														
22														

MSVOA WATER Prepsheet Curtis & Tompkins, Ltd.

Date: 8/15/13 **Batch #:** 201722

	Sample ID	Vial	pH <2	pH (if >2)	HS?	Dil'n flask	MS#	RR	DF	Comments	20 % ccv	hold	due	init date
1	247818-8	C	✓			5	14	1	5x	TCE>LR III			8/15	MLS 8/15
16 2	-12	↓	✓			2		1	1.42x	TCE>LR ↓			↓	↓
16 3	7876-4	A	✓					1	1x	OD II			8/16	
4	7944-8	A	✓						1x					
17 5	-9	B	✓			3			2x					MLS 8/15
6	7943-6	A	✓						1x					
7	-7		✓			3			10,000x					MLS 8/15
8	-8		✓						1x					
9	-9		✓						↓					
10	-10		✓											
17 11	-11		✓			10			33x					MLS 8/15
12	-12		✓						1x					
13	-13		✓						↓					
14	-14		✓			7			7.14x					MLS 8/15
15	-15		✓			2			40x					↓
16	-16	↓	✓			8			14.3x					
17	-17	B	✓						1x					
18	-18	A	✓						↓					
19	-19	B	✓				↓		↓					
20														
21														
22														

MSVOA WATER Prepsheet Curtis & Tompkins, Ltd.

Date: 8-15-13 **Batch #:** 201746

	Sample ID	Vial	pH <2	pH (if >2)	HS?	Dil'n flask	MS#	RR	DF	Comments	20% ccv ?	hold	due	init date
16 1	247818-14	C	✓		LV		11	1	1x	C Tet curve +		8/22	8/15	TEW
17 2	247943-1	B	X			8			12.5x	VC >LR				
3	↓ -2	↓	X			7			5x	VC C.O.				
17 4	247931-1	A	✓						1x					
18 5	247957-1	C	✓						1x					
6	247965-1	B	X		Bubble <1mL	5			25x					
7	↓ -2	↓	X		↓	3			25x					
8	↓ -3	↓	X			2	↓		2x					
9	248016-1	A	✓						1x			8/	8/16	MR
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														

Laboratory Job Number 247818

ANALYTICAL REPORT

Metals

Matrix: Water

Curtis & Tompkins, Ltd.

Chromium

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Sampled:	08/08/13
Matrix:	Water	Received:	08/09/13
Units:	ug/L	Prepared:	08/15/13
Diln Fac:	1.000	Analyzed:	08/20/13
Batch#:	201774		

Field ID	Type	Lab ID	Result	RL	MDL
GMW-01	SAMPLE	247818-001	10	5.0	0.69
GMW-02	SAMPLE	247818-002	140	5.0	0.69
GMW-09MC	SAMPLE	247818-003	820	5.0	0.69
EMW-14R	SAMPLE	247818-005	28	5.0	0.69
EMW-03	SAMPLE	247818-006	32	5.0	0.69
EMW-06	SAMPLE	247818-007	14	5.0	0.69
EMW-08R	SAMPLE	247818-008	150	5.0	0.69
EMW-10R	SAMPLE	247818-009	29	5.0	0.69
EMW-11R	SAMPLE	247818-010	29	5.0	0.69
EP-02R	SAMPLE	247818-011	16	5.0	0.69
NEW-03	SAMPLE	247818-012	87	5.0	0.69
GMW-13UC	SAMPLE	247818-013	450	5.0	0.69
EMW-103	SAMPLE	247818-021	29	5.0	0.69
GMW-113UC	SAMPLE	247818-022	410	5.0	0.69
	BLANK	QC702171	ND	5.0	0.69

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

40.0

Curtis & Tompkins, Ltd.

Batch QC Report

Chromium

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Batch#:	201774
Field ID:	GMW-02	Sampled:	08/08/13
MSS Lab ID:	247818-002	Received:	08/09/13
Matrix:	Water	Prepared:	08/15/13
Units:	ug/L	Analyzed:	08/20/13
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC702172		200.0	204.9	102	80-120		
BSD	QC702173		200.0	205.2	103	80-120	0	20
MS	QC702174	144.0	200.0	348.1	102	80-120		
MSD	QC702175		200.0	358.0	107	80-120	3	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Chromium

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	GMW-02	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	201774
MSS Lab ID:	247818-002	Sampled:	08/08/13
Lab ID:	QC702176	Received:	08/09/13
Matrix:	Water	Analyzed:	08/20/13

MSS Result	MSS RL	Result	RL	% Diff	Lim
144.0	5.000	145.1	25.00	1	10

RL= Reporting Limit

42.0

Curtis & Tompkins, Ltd.

Batch QC Report

Chromium

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	GMW-02	Diln Fac:	1.000
Type:	Post Digest Spike	Batch#:	201774
MSS Lab ID:	247818-002	Sampled:	08/08/13
Lab ID:	QC702177	Received:	08/09/13
Matrix:	Water	Analyzed:	08/20/13

MSS Result	Spiked	Result	%REC	Limits
144.0	200.0	358.7	107	75-125

REPORTING SUMMARY FOR 247818 METALS Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CR	
247818-001	MET08	08/20/13 13:25	1.0	+	
247818-002	MET08	08/20/13 13:03	1.0	+	
247818-003	MET08	08/20/13 13:30	1.0	+	
247818-005	MET08	08/20/13 13:51	1.0	+	
247818-006	MET08	08/20/13 13:56	1.0	+	
247818-007	MET08	08/20/13 14:00	1.0	+	
247818-008	MET08	08/20/13 14:04	1.0	+	
247818-009	MET08	08/20/13 14:09	1.0	+	
247818-010	MET08	08/20/13 14:15	1.0	+	
247818-011	MET08	08/20/13 14:20	1.0	+	
247818-012	MET08	08/20/13 14:25	1.0	+	
247818-013	MET08	08/20/13 14:29	1.0	+	
247818-021	MET08	08/20/13 14:34	1.0	+	
247818-022	MET08	08/20/13 14:49	1.0	+	
QC702171	MET08	08/20/13 12:50	1.0	+	
QC702172	MET08	08/20/13 12:55	1.0	+	
QC702173	MET08	08/20/13 12:59	1.0	+	
QC702174	MET08	08/20/13 13:07	1.0	+	
QC702175	MET08	08/20/13 13:12	1.0	+	
QC702176	MET08	08/20/13 13:16	5.0	+	
QC702177	MET08	08/20/13 13:21	1.0	+	

ICP Data

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83334471

Instrument : MET08 Begun : 08/20/13 06:31
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	met08_sr_6010	ICALBLK				08/20/13 06:31	1.0		
002	met08_sr_6010	ICAL	CRI5.1			08/20/13 06:36	1.0	1	
003	met08_sr_6010	ICAL	CS100			08/20/13 06:41	1.0	2	
004	met08_sr_6010	ICAL	CS1K			08/20/13 06:45	1.0	3	
005	met08_sr_6010	ICAL	CS10K			08/20/13 06:50	1.0	4	
006	met08_sr_6010	ICAL	CS100K			08/20/13 06:55	1.0	5	
007	met08_sr_6010	ICV				08/20/13 07:01	1.0	6	
008	met08_sr_6010	ICB				08/20/13 07:06	1.0		
009	met08_sr_6010	ICSA				08/20/13 07:11	1.0	7	10:AL=490000
010	met08_sr_6010	ICSAB				08/20/13 07:25	1.0	8	5:AL=500000
011	met08_sr_6010	XCRI				08/20/13 07:30	1.0	9	
012	met08_sr_6010	CRI				08/20/13 07:34	1.0	9	
013	met08_sr_6010	BLANK	QC702416	Filtrate	201825	08/20/13 07:38	1.0		
014	met08_sr_6010	BS	QC702417	Filtrate	201825	08/20/13 07:44	1.0		
015	met08_sr_6010	BSD	QC702418	Filtrate	201825	08/20/13 07:48	1.0		
016	met08_sr_6010	MSS	247770-001	Filtrate	201825	08/20/13 07:52	1.0		1:CA=100000
017	met08_sr_6010	MS	QC702419	Filtrate	201825	08/20/13 07:57	1.0		2:CA=120000
018	met08_sr_6010	MSD	QC702420	Filtrate	201825	08/20/13 08:01	1.0		3:CA=130000
019	met08_sr_6010	MSS	247770-001	Filtrate	201825	08/20/13 08:05	1.0		1:CA=100000
020	met08_sr_6010	MSS	247770-001	Filtrate	201825	08/20/13 08:11	100.0		
021	met08_sr_6010	SER	QC702426	Filtrate	201825	08/20/13 08:16	5.0		
022	met08_sr_6010	CCV				08/20/13 08:21	1.0	10	
023	met08_sr_6010	CCB				08/20/13 08:26	1.0		
024	met08_sr_6010	PDS	QC702427	Filtrate	201825	08/20/13 08:31	1.0	11 12	1:CA=120000
025	met08_sr_6010	SAMPLE	247770-004	Filtrate	201825	08/20/13 08:36	1.0		1:CA=110000
026	met08_sr_6010	SAMPLE	247770-004	Filtrate	201825	08/20/13 08:41	1.0		1:CA=110000
027	met08_sr_6010	SAMPLE	247770-004	Filtrate	201825	08/20/13 08:46	100.0		
028	met08_sr_6010	MSS	247769-005	Filtrate	201671	08/20/13 08:51	5.0		3:MG=920000
029	met08_sr_6010	MS	QC701748	Filtrate	201671	08/20/13 08:58	5.0		
030	met08_sr_6010	MSD	QC701749	Filtrate	201671	08/20/13 09:04	5.0		
031	met08_sr_6010	SAMPLE	247769-002	Filtrate	201671	08/20/13 09:11	5.0		3:MG=1100000
032	met08_sr_6010	BLANK	QC701885	Water	201705	08/20/13 09:18	1.0		
033	met08_sr_6010	BS	QC701886	Water	201705	08/20/13 09:23	1.0		
034	met08_sr_6010	ICSAB				08/20/13 09:27	1.0	8	5:AL=500000
035	met08_sr_6010	CCV				08/20/13 09:33	1.0	10	
036	met08_sr_6010	XCCB				08/20/13 09:38	1.0		
037	met08_sr_6010	CCB				08/20/13 09:42	1.0		
038	met08_sr_6010	BSD	QC701887	Water	201705	08/20/13 09:47	1.0		
039	met08_sr_6010	BLANK	QC702684	Miscell.	201889	08/20/13 09:51	1.0		
040	met08_sr_6010	MSS	247736-004	Water	201705	08/20/13 09:56	1.0		3:CA=430000
041	met08_sr_6010	MS	QC701888	Water	201705	08/20/13 10:00	1.0		
042	met08_sr_6010	MSD	QC701889	Water	201705	08/20/13 10:05	1.0		
043	met08_sr_6010	SER	QC702426	Filtrate	201825	08/20/13 10:08	500.0		
044	met08_sr_6010	PDS	QC702427	Filtrate	201825	08/20/13 10:13	100.0	11 12	
045	met08_sr_6010	SER	QC702734	Water	201705	08/20/13 10:17	5.0		
046	met08_sr_6010	PDS	QC702735	Water	201705	08/20/13 10:22	1.0	11 12	
047	met08_sr_6010	MSS	247736-007	Water	201705	08/20/13 10:26	1.0		3:NA=370000
048	met08_sr_6010	CCV				08/20/13 10:31	1.0	10	
049	met08_sr_6010	CCB				08/20/13 10:36	1.0		
050	met08_sr_6010	MS	QC701890	Water	201705	08/20/13 10:42	1.0		
051	met08_sr_6010	MSD	QC701891	Water	201705	08/20/13 10:46	1.0		
052	met08_sr_6010	SAMPLE	247637-001	Water	201705	08/20/13 10:50	1.0		2:SN=440000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83334471

Instrument : MET08 Begun : 08/20/13 06:31
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
053	met08_sr_6010	SAMPLE	247736-002	Water	201705	08/20/13 10:56	1.0		3:CA=210000
054	met08_sr_6010	SAMPLE	247736-003	Water	201705	08/20/13 11:01	1.0		2:CA=240000
055	met08_sr_6010	SAMPLE	247736-005	Water	201705	08/20/13 11:05	1.0		2:NA=430000
056	met08_sr_6010	SAMPLE	247736-006	Water	201705	08/20/13 11:09	1.0		2:NA=390000
057	met08_sr_6010	SAMPLE	247736-010	Water	201705	08/20/13 11:15	1.0		3:CA=210000
058	met08_sr_6010	SAMPLE	247738-001	Water	201705	08/20/13 11:20	1.0		3:NA=390000
059	met08_sr_6010	SAMPLE	247738-002	Water	201705	08/20/13 11:25	1.0		3:NA=400000
060	met08_sr_6010	ICSAB				08/20/13 11:30	1.0	8	5:MG=500000
061	met08_sr_6010	CCV				08/20/13 11:36	1.0	10	
062	met08_sr_6010	XCCB				08/20/13 11:41	1.0		
063	met08_sr_6010	CCB				08/20/13 11:45	1.0		
064	met08_sr_6010	SAMPLE	247738-003	Water	201705	08/20/13 11:50	1.0		1:CA=200000
065	met08_sr_6010	SAMPLE	247738-004	Water	201705	08/20/13 11:55	1.0		1:CA=200000
066	met08_sr_6010	SAMPLE	247738-005	Water	201705	08/20/13 12:01	1.0		2:NA=360000
067	met08_sr_6010	SER	QC702426	Filtrate	201825	08/20/13 12:06	500.0		
068	met08_sr_6010	SAMPLE	247738-008	Water	201705	08/20/13 12:11	1.0		3:CA=320000
069	met08_sr_6010	SAMPLE	247738-009	Water	201705	08/20/13 12:15	1.0		3:CA=400000
070	met08_sr_6010	SAMPLE	247738-010	Water	201705	08/20/13 12:21	1.0		3:CA=400000
071	met08_sr_6010	SAMPLE	247789-001	Water	201705	08/20/13 12:26	1.0		
072	met08_sr_6010	SAMPLE	247789-002	Water	201705	08/20/13 12:30	1.0		
073	met08_sr_6010	SAMPLE	247789-003	Water	201705	08/20/13 12:35	1.0		
074	met08_sr_6010	CCV				08/20/13 12:39	1.0	10	
075	met08_sr_6010	CCB				08/20/13 12:45	1.0		
076	met08_sr_6010	BLANK	QC702171	Water	201774	08/20/13 12:50	1.0		
077	met08_sr_6010	BS	QC702172	Water	201774	08/20/13 12:55	1.0		
078	met08_sr_6010	BSD	QC702173	Water	201774	08/20/13 12:59	1.0		
079	met08_sr_6010	MSS	247818-002	Water	201774	08/20/13 13:03	1.0		3:CA=280000
080	met08_sr_6010	MS	QC702174	Water	201774	08/20/13 13:07	1.0		
081	met08_sr_6010	MSD	QC702175	Water	201774	08/20/13 13:12	1.0		
082	met08_sr_6010	SER	QC702176	Water	201774	08/20/13 13:16	5.0		
083	met08_sr_6010	PDS	QC702177	Water	201774	08/20/13 13:21	1.0	11 12	
084	met08_sr_6010	SAMPLE	247818-001	Water	201774	08/20/13 13:25	1.0		3:CA=210000
085	met08_sr_6010	SAMPLE	247818-003	Water	201774	08/20/13 13:30	1.0		2:CA=230000
086	met08_sr_6010	ICSAB				08/20/13 13:35	1.0	8	5:MG=490000
087	met08_sr_6010	CCV				08/20/13 13:40	1.0	10	
088	met08_sr_6010	CCB				08/20/13 13:45	1.0		
089	met08_sr_6010	SAMPLE	247818-005	Water	201774	08/20/13 13:51	1.0		3:NA=370000
090	met08_sr_6010	SAMPLE	247818-006	Water	201774	08/20/13 13:56	1.0		2:NA=200000
091	met08_sr_6010	SAMPLE	247818-007	Water	201774	08/20/13 14:00	1.0		2:NA=430000
092	met08_sr_6010	SAMPLE	247818-008	Water	201774	08/20/13 14:04	1.0		2:CA=220000
093	met08_sr_6010	SAMPLE	247818-009	Water	201774	08/20/13 14:09	1.0		2:NA=250000
094	met08_sr_6010	SAMPLE	247818-010	Water	201774	08/20/13 14:15	1.0		2:NA=420000
095	met08_sr_6010	SAMPLE	247818-011	Water	201774	08/20/13 14:20	1.0		3:NA=470000
096	met08_sr_6010	SAMPLE	247818-012	Water	201774	08/20/13 14:25	1.0		2:NA=490000
097	met08_sr_6010	SAMPLE	247818-013	Water	201774	08/20/13 14:29	1.0		3:CA=450000
098	met08_sr_6010	SAMPLE	247818-021	Water	201774	08/20/13 14:34	1.0		2:NA=190000
099	met08_sr_6010	CCV				08/20/13 14:39	1.0	10	
100	met08_sr_6010	CCB				08/20/13 14:44	1.0		
101	met08_sr_6010	SAMPLE	247818-022	Water	201774	08/20/13 14:49	1.0		3:CA=440000
102	met08_sr_6010	SAMPLE	247832-001	Water	201774	08/20/13 14:54	1.0		1:NA=110000
103	met08_sr_6010	SAMPLE	247832-002	Water	201774	08/20/13 14:59	1.0		
104	met08_sr_6010	SAMPLE	247832-003	Water	201774	08/20/13 15:03	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83334471

Instrument : MET08 Begun : 08/20/13 06:31
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
105	met08_sr_6010	SAMPLE	247834-001	Water	201774	08/20/13 15:07	1.0		
106	met08_sr_6010	SAMPLE	247834-002	Water	201774	08/20/13 15:12	1.0		
107	met08_sr_6010	SAMPLE	247835-001	Water	201774	08/20/13 15:17	1.0		
108	met08_sr_6010	BLANK	QC702181	Water	201775	08/20/13 15:22	1.0		
109	met08_sr_6010	BS	QC702182	Water	201775	08/20/13 15:27	1.0		
110	met08_sr_6010	BSD	QC702183	Water	201775	08/20/13 15:32	1.0		
111	met08_sr_6010	ICSAB				08/20/13 15:36	1.0	8	5:MG=490000
112	met08_sr_6010	CCV				08/20/13 15:41	1.0	10	
113	met08_sr_6010	CCB				08/20/13 15:47	1.0		
114	met08_sr_6010	MSS	247833-001	Water	201775	08/20/13 15:52	1.0		1:CA=250000
115	met08_sr_6010	MS	QC702184	Water	201775	08/20/13 15:56	1.0		2:CA=290000
116	met08_sr_6010	MSD	QC702185	Water	201775	08/20/13 16:00	1.0		2:CA=290000
117	met08_sr_6010	SER	QC702186	Water	201775	08/20/13 16:04	5.0		
118	met08_sr_6010	PDS	QC702187	Water	201775	08/20/13 16:09	1.0	11 12	2:CA=270000
119	met08_sr_6010	SAMPLE	247833-002	Water	201775	08/20/13 16:13	1.0		
120	met08_sr_6010	SAMPLE	247833-003	Water	201775	08/20/13 16:17	1.0		
121	met08_sr_6010	SAMPLE	247833-004	Water	201775	08/20/13 16:21	1.0		1:CA=110000
122	met08_sr_6010	SAMPLE	247836-001	Water	201775	08/20/13 16:25	1.0		1:CA=120000
123	met08_sr_6010	SAMPLE	247837-001	Water	201775	08/20/13 16:31	1.0		
124	met08_sr_6010	CCV				08/20/13 16:36	1.0	10	
125	met08_sr_6010	CCB				08/20/13 16:41	1.0		
126	met08_sr_6010	SAMPLE	247838-001	Water	201775	08/20/13 16:46	1.0		
127	met08_sr_6010	SAMPLE	247844-031	Water	201775	08/20/13 16:51	1.0		
128	met08_sr_6010	SAMPLE	247876-005	Water	201775	08/20/13 16:55	1.0		
129	met08_sr_6010	SAMPLE	247885-001	Water	201775	08/20/13 17:01	1.0		1:NA=100000
130	met08_sr_6010	SAMPLE	247885-002	Water	201775	08/20/13 17:06	1.0		1:NA=200000
131	met08_sr_6010	SAMPLE	247885-003	Water	201775	08/20/13 17:11	1.0		1:NA=240000
132	met08_sr_6010	BLANK	QC702103	Soil	201759	08/20/13 17:16	1.0		
133	met08_sr_6010	BS	QC702104	Soil	201759	08/20/13 17:21	1.0		
134	met08_sr_6010	BSD	QC702105	Soil	201759	08/20/13 17:25	1.0		
135	met08_sr_6010	MSS	247844-001	Soil	201759	08/20/13 17:30	1.0		3:FE=300000
136	met08_sr_6010	ICSAB				08/20/13 17:33	1.0	8	5:AL=490000
137	met08_sr_6010	CCV				08/20/13 17:38	1.0	10	
138	met08_sr_6010	CCB				08/20/13 17:44	1.0		
139	met08_sr_6010	MS	QC702106	Soil	201759	08/20/13 17:49	1.0		2:FE=370000
140	met08_sr_6010	MSD	QC702107	Soil	201759	08/20/13 17:52	1.0		1:FE=360000
141	met08_sr_6010	SAMPLE	247844-005	Soil	201759	08/20/13 17:55	1.0		3:FE=450000
142	met08_sr_6010	SAMPLE	247844-006	Soil	201759	08/20/13 17:59	1.0		4:FE=410000
143	met08_sr_6010	SAMPLE	247844-015	Soil	201759	08/20/13 18:02	1.0		2:FE=260000
144	met08_sr_6010	SAMPLE	247844-019	Soil	201759	08/20/13 18:05	1.0		7:FE=590000
145	met08_sr_6010	SAMPLE	247844-020	Soil	201759	08/20/13 18:11	1.0		5:CA=700000
146	met08_sr_6010	SAMPLE	247844-021	Soil	201759	08/20/13 18:14	1.0		3:FE=380000
147	met08_sr_6010	SAMPLE	247844-034	Soil	201759	08/20/13 18:17	1.0		2:FE=320000
148	met08_sr_6010	SAMPLE	247844-036	Soil	201759	08/20/13 18:20	1.0		2:FE=340000
149	met08_sr_6010	CCV				08/20/13 18:24	1.0	10	
150	met08_sr_6010	CCB				08/20/13 18:29	1.0		
151	met08_sr_6010	SAMPLE	247844-037	Soil	201759	08/20/13 18:34	1.0		2:FE=440000
152	met08_sr_6010	SAMPLE	247844-038	Soil	201759	08/20/13 18:38	1.0		3:FE=400000
153	met08_sr_6010	SAMPLE	247844-040	Soil	201759	08/20/13 18:41	1.0		3:FE=380000
154	met08_sr_6010	SAMPLE	247844-042	Soil	201759	08/20/13 18:44	1.0		3:FE=390000
155	met08_sr_6010	SAMPLE	247844-043	Soil	201759	08/20/13 18:48	1.0		2:AL=280000
156	met08_sr_6010	SAMPLE	247844-044	Soil	201759	08/20/13 18:51	1.0		2:FE=620000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83334471

Instrument : MET08 Begun : 08/20/13 06:31
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
157	met08_sr_6010	SAMPLE	247844-045	Soil	201759	08/20/13 18:56	1.0		2:FE=380000
158	met08_sr_6010	SAMPLE	247844-046	Soil	201759	08/20/13 19:00	1.0		4:FE=400000
159	met08_sr_6010	SAMPLE	247844-047	Soil	201759	08/20/13 19:03	1.0		3:FE=370000
160	met08_sr_6010	SAMPLE	247844-048	Soil	201759	08/20/13 19:06	1.0		4:FE=900000
161	met08_sr_6010	ICSAB				08/20/13 19:10	1.0	8	5:AL=510000
162	met08_sr_6010	CCV				08/20/13 19:15	1.0	10	
163	met08_sr_6010	CCB				08/20/13 19:20	1.0		
164	met08_sr_6010	SAMPLE	247844-049	Soil	201759	08/20/13 19:26	1.0		2:FE=410000
165	met08_sr_6010	CCV				08/20/13 19:29	1.0	10	
166	met08_sr_6010	CCB				08/20/13 19:34	1.0		
167	met08_sr_6010	ICSAB				08/20/13 19:39	1.0	8	5:AL=490000

NT 08/21/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 167.

Standards used: 1=S22714 2=S22716 3=S22715 4=S22717 5=S22718 6=S22721 7=S22719 8=S22720 9=S22723 10=S22722 11=S21652 12=S21653

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83334471

Date : 08/20/13 Reference : met08_sr_6010
Sequence : MET08 08/20/13 Analyzed : 08/20/13 06:36

#	Type	Sample ID	Y A
		ICAL STD	2998436
		LOWER LIMIT	899531
		UPPER LIMIT	5996871
008	ICB		3044067
009	ICSA		2493534
010	ICSAB		2514061
013	BLANK	QC702416	3084150
014	BS	QC702417	2961108
015	BSD	QC702418	2973889
016	MSS	247770-001	2813126
017	MS	QC702419	2793842
018	MSD	QC702420	2769602
019	MSS	247770-001	2808006
020	MSS	247770-001	2979308
021	SER	QC702426	2873762
022	CCV		2899207
023	CCB		3024542
024	PDS	QC702427	2750400
025	SAMPLE	247770-004	2783534
026	SAMPLE	247770-004	2754187
027	SAMPLE	247770-004	2951708
028	MSS	247769-005	1979367
029	MS	QC701748	1980570
030	MSD	QC701749	1971311
031	SAMPLE	247769-002	1923456
032	BLANK	QC701885	2979456
033	BS	QC701886	2837481
034	ICSAB		2456349
035	CCV		2824987
037	CCB		3003125
038	BSD	QC701887	2871826
039	BLANK	QC702684	3074095
040	MSS	247736-004	2541100
041	MS	QC701888	2548727
042	MSD	QC701889	2577816
043	SER	QC702426	3198443
044	PDS	QC702427	2924283
045	SER	QC702734	2885314
046	PDS	QC702735	2545968
047	MSS	247736-007	2669203
048	CCV		2944355
049	CCB		3124191
050	MS	QC701890	2616973
051	MSD	QC701891	2598776
052	SAMPLE	247637-001	3170630
053	SAMPLE	247736-002	2694317
054	SAMPLE	247736-003	2695840
055	SAMPLE	247736-005	2667047
056	SAMPLE	247736-006	2631222
057	SAMPLE	247736-010	2686624
058	SAMPLE	247738-001	2613869

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83334471

Date : 08/20/13 Reference : met08_sr_6010
Sequence : MET08 08/20/13 Analyzed : 08/20/13 06:36

#	Type	Sample ID	Y A
059	SAMPLE	247738-002	2590949
060	ICSAB		2468564
061	CCV		2864998
063	CCB		3078455
064	SAMPLE	247738-003	2690463
065	SAMPLE	247738-004	2692175
066	SAMPLE	247738-005	2616130
067	SER	QC702426	2980749
068	SAMPLE	247738-008	2626667
069	SAMPLE	247738-009	2596650
070	SAMPLE	247738-010	2564587
071	SAMPLE	247789-001	2830385
072	SAMPLE	247789-002	2825183
073	SAMPLE	247789-003	2931864
074	CCV		2845645
075	CCB		3024855
076	BLANK	QC702171	3062294
077	BS	QC702172	2912067
078	BSD	QC702173	2919198
079	MSS	247818-002	2700120
080	MS	QC702174	2661535
081	MSD	QC702175	2655855
082	SER	QC702176	2889617
083	PDS	QC702177	2658470
084	SAMPLE	247818-001	2514085
085	SAMPLE	247818-003	2651154
086	ICSAB		2485925
087	CCV		2851119
088	CCB		3013000
089	SAMPLE	247818-005	2667662
090	SAMPLE	247818-006	2738889
091	SAMPLE	247818-007	2623127
092	SAMPLE	247818-008	2738724
093	SAMPLE	247818-009	2723911
094	SAMPLE	247818-010	2655424
095	SAMPLE	247818-011	2603166
096	SAMPLE	247818-012	2595463
097	SAMPLE	247818-013	2650767
098	SAMPLE	247818-021	2792563
099	CCV		2912752
100	CCB		3081390
101	SAMPLE	247818-022	2667706
102	SAMPLE	247832-001	2887554
103	SAMPLE	247832-002	2867210
104	SAMPLE	247832-003	2883743
105	SAMPLE	247834-001	2905092
106	SAMPLE	247834-002	2928062
107	SAMPLE	247835-001	2911168
108	BLANK	QC702181	3124166
109	BS	QC702182	2940831
110	BSD	QC702183	2961024
111	ICSAB		2540577

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83334471

Date : 08/20/13 Reference : met08_sr_6010
Sequence : MET08 08/20/13 Analyzed : 08/20/13 06:36

#	Type	Sample ID	Y A
112	CCV		2959268
113	CCB		3069913
114	MSS	247833-001	2831274
115	MS	QC702184	2762347
116	MSD	QC702185	2722808
117	SER	QC702186	2870342
118	PDS	QC702187	2752491
119	SAMPLE	247833-002	2882771
120	SAMPLE	247833-003	2835202
121	SAMPLE	247833-004	2811288
122	SAMPLE	247836-001	2802550
123	SAMPLE	247837-001	2860145
124	CCV		2889847
125	CCB		3023018
126	SAMPLE	247838-001	2920726
127	SAMPLE	247844-031	3034426
128	SAMPLE	247876-005	3045086
129	SAMPLE	247885-001	2811136
130	SAMPLE	247885-002	2760622
131	SAMPLE	247885-003	2760624
132	BLANK	QC702103	3115417
133	BS	QC702104	2889478
134	BSD	QC702105	2907873
135	MSS	247844-001	2871986
136	ICSAB		2454771
137	CCV		2834617
138	CCB		2940834
139	MS	QC702106	2740734
140	MSD	QC702107	2819177
141	SAMPLE	247844-005	2912225
142	SAMPLE	247844-006	2862711
143	SAMPLE	247844-015	3011436
144	SAMPLE	247844-019	2744079
145	SAMPLE	247844-020	2689154
146	SAMPLE	247844-021	2902785
147	SAMPLE	247844-034	2906716
148	SAMPLE	247844-036	2947373
149	CCV		2859766
150	CCB		3001554
151	SAMPLE	247844-037	2907734
152	SAMPLE	247844-038	2905992
153	SAMPLE	247844-040	2853038
154	SAMPLE	247844-042	2968687
155	SAMPLE	247844-043	2900706
156	SAMPLE	247844-044	3137312
157	SAMPLE	247844-045	3022197
158	SAMPLE	247844-046	2967169
159	SAMPLE	247844-047	2925415
160	SAMPLE	247844-048	3263284
161	ICSAB		2461980
162	CCV		2895247
163	CCB		3086446

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83334471

Date : 08/20/13 Reference : met08_sr_6010
Sequence : MET08 08/20/13 Analyzed : 08/20/13 06:36

#	Type	Sample ID	Y A
164	SAMPLE	247844-049	3000530
165	CCV		2843113
166	CCB		3057948
167	ICSAB		2513632

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 247818 METALS Water: EPA 6010B

Inst : MET08 Reviewer : ---
Calnum : 83334471001 Date : 20-AUG-2013 06:31
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	met08_sr_6010	83334471002	CRI5.1	20-AUG-2013 06:36	S22714
L2	met08_sr_6010	83334471003	CS100	20-AUG-2013 06:41	S22716
L3	met08_sr_6010	83334471004	CS1K	20-AUG-2013 06:45	S22715
L4	met08_sr_6010	83334471005	CS10K	20-AUG-2013 06:50	S22717
L5	met08_sr_6010	83334471006	CS100K	20-AUG-2013 06:55	S22718

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Chromium	A	111.90	107.82	105.91	106.09		LOR0	0.00000	0.00943		107.93	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Chromium	A	5.0000	5	100.00	2	1000.0	0	10000	0		

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 247818 METALS Water
EPA 6010B

Inst : MET08
Calnum : 83334471001 Cal Date : 20-AUG-2013

ICV 83334471007 (20-AUG-2013) stds: S22721

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Chromium	A	5000	4985	ug/L	0	10	

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR 247818 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471009 File : met08_sr_6010 Time : 20-AUG-2013 07:11
Cal : 83334471001 Caldate : 20-AUG-2013
Standards: S22719

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19420	ug/L	97
Copper	A	20000	20460	ug/L	102
Manganese	A	20000	18770	ug/L	94
Nickel	A	20000	18200	ug/L	91
Vanadium	A	20000	19740	ug/L	99
Aluminum	R	500000	491400	ug/L	98
Calcium	R	500000	478000	ug/L	96
Iron	R	200000	188300	ug/L	94
Magnesium	R	500000	489600	ug/L	98
Titanium	R	20000	21150	ug/L	106

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	2493534	-16.84

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 247818 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471060 File : met08_sr_6010 Time : 20-AUG-2013 11:30
Cal : 83334471001 Caldate : 20-AUG-2013
Standards: S22720

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	514.6	ug/L	3	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	2468564	-17.67

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247818 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471074 File : met08_sr_6010 Time : 20-AUG-2013 12:39
Cal : 83334471001 Caldate : 20-AUG-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	107.93	109.03	5000	5139	ug/L	3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	2845645	-5.10

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 247818 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471075 File : met08_sr_6010 Time : 20-AUG-2013 12:45
Cal : 83334471001 Caldate : 20-AUG-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	3024855	0.88

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 247818 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471086 File : met08_sr_6010 Time : 20-AUG-2013 13:35
Cal : 83334471001 Caldate : 20-AUG-2013
Standards: S22720

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	503.3	ug/L	1	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	2485925	-17.09

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247818 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471087 File : met08_sr_6010 Time : 20-AUG-2013 13:40
Cal : 83334471001 Caldate : 20-AUG-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	107.93	105.91	5000	4992	ug/L	0	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	2851119	-4.91

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 247818 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471088 File : met08_sr_6010 Time : 20-AUG-2013 13:45
Cal : 83334471001 Caldate : 20-AUG-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	3013000	0.49

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247818 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471099 File : met08_sr_6010 Time : 20-AUG-2013 14:39
Cal : 83334471001 Caldate : 20-AUG-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	107.93	105.57	5000	4975	ug/L	0	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	2912752	-2.86

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 247818 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471100 File : met08_sr_6010 Time : 20-AUG-2013 14:44
Cal : 83334471001 Caldate : 20-AUG-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	3081390	2.77

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 247818 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471111 File : met08_sr_6010 Time : 20-AUG-2013 15:36
Cal : 83334471001 Caldate : 20-AUG-2013
Standards: S22720

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	495.4	ug/L	-1	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	2540577	-15.27

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247818 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471112 File : met08_sr_6010 Time : 20-AUG-2013 15:41
Cal : 83334471001 Caldate : 20-AUG-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	107.93	104.18	5000	4910	ug/L	-2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	2959268	-1.31

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 247818 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83334471113 File : met08_sr_6010 Time : 20-AUG-2013 15:47
Cal : 83334471001 Caldate : 20-AUG-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2998436	3069913	2.38

SAMPLE PREPARATION SUMMARY

Batch # : 201774 Analysis : ICAP
Started By : VV Prep Date : 15-AUG-2013 18:00 Finished By : VV
Method : 3010A SOP Version : 3010A_icp_rv15 Units : mL
Spike #1 ID : S21652 Spike #2 ID : S21653

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
247818-001		Water	50	50	1	1.0						CR	
247818-002		Water	50	50	1	1.0						CR	
247818-003		Water	50	50	1	1.0						CR	
247818-005		Water	50	50	1	1.0						CR	
247818-006		Water	50	50	1	1.0						CR	
247818-007		Water	50	50	1	1.0						CR	
247818-008		Water	50	50	1	1.0						CR	
247818-009		Water	50	50	1	1.0						CR	
247818-010		Water	50	50	1	1.0						CR	
247818-011		Water	50	50	1	1.0						CR	
247818-012		Water	50	50	1	1.0						CR	
247818-013		Water	50	50	1	1.0						CR	
247818-021		Water	50	50	1	1.0						CR	
247818-022		Water	50	50	1	1.0						CR	
247832-001		Water	50	50	1	1.0						PB	
247832-002		Water	50	50	1	1.0						PB	
247832-003		Water	50	50	1	1.0						PB	
247834-001		Water	50	50	1	1.0						PB	
247834-002		Water	50	50	1	1.0						PB	
247835-001		Water	50	50	1	1.0						PB	
QC702171	BLANK	Water	50	50	1	1.0							
QC702172	BS	Water	50	50	1	1.0		.5	.5				
QC702173	BSD	Water	50	50	1	1.0		.5	.5				
QC702174	MS	Water	50	50	1	1.0		.5	.5				
QC702175	MSD	Water	50	50	1	1.0		.5	.5				
QC702176	SER	Water	50	50	1	1.0							
QC702177	PDS	Water	50	50	1	1.0							

Analyst: NT Date: 08/21/13 Reviewer: PRW Date: 08/21/13

Water Digestion for ICP

Curtis & Tompkins, Ltd.

LIMS Batch #: 201774
Digested by: VV
Date Digested: 8-15-13

Digestion Method
☒ EPA 3010a for ICP
☐ EPA 200.7
☐ _____

BK3443
Page 95

Lvl.	Sample #	Container ID	Volume Sample(mL)	Final Volume (mL)	Filtered? (y/n)	ID Π	Comments
	BLK 70271		☒ 50 ☐	☒ 50 ☐	NO	✓	
	* BS 2		☒ 50 ☐	☒ 50 ☐		✓	
	* BSD * 3		☒ 50 ☐	☒ 50 ☐		✓	
	*247818-002 MS		☒ 50 ☐	☒ 50 ☐		✓	
5	* -002 MSD		☒ 50 ☐	☒ 50 ☐		✓	
III	-001	D	☒ 50 ☐	☒ 50 ☐		✓	
	-002		☒ 50 ☐	☒ 50 ☐		✓	
	-003		☒ 50 ☐	☒ 50 ☐		✓	
	-005		☒ 50 ☐	☒ 50 ☐		✓	
10	-006		☒ 50 ☐	☒ 50 ☐		✓	
	-007		☒ 50 ☐	☒ 50 ☐		✓	
	-008		☒ 50 ☐	☒ 50 ☐		✓	
	-009		☒ 50 ☐	☒ 50 ☐		✓	
	-010		☒ 50 ☐	☒ 50 ☐		✓	
15	-011		☒ 50 ☐	☒ 50 ☐		✓	
	-012		☒ 50 ☐	☒ 50 ☐		✓	
	-013		☒ 50 ☐	☒ 50 ☐		✓	
	-021		☒ 50 ☐	☒ 50 ☐		✓	
	-022		☒ 50 ☐	☒ 50 ☐		✓	
III 20	247832-001	E	☒ 50 ☐	☒ 50 ☐		✓	
	-002		☒ 50 ☐	☒ 50 ☐		✓	
	-003		☒ 50 ☐	☒ 50 ☐		✓	
III	247834-001	E	☒ 50 ☐	☒ 50 ☐		✓	
	-002		☒ 50 ☐	☒ 50 ☐		✓	
III	247835-001	E	☒ 50 ☐	☒ 50 ☐		✓	

	Reagent ID or LIMS #	Initials / Date
EK-12271 Digestion tubes, lot #	~~165909-261~~ RV 8/15/13	VV 8-15-13
0.5 mL of spike solution (Std1) was added to all spikes	521652	
0.5 mL of spike solution (Std2) was added to all spikes	521653 *	
Digestion Temperature (°C), Block and Probe Location	95°C D14	
digestion begun at (time)	6PM	
1:1 HCl	40272-081513	
concentrated HNO3	3390-JTB	W 8-15-15
digestion ended at (time)	11:20PM	
☐ filtered thru' Whatman # 541	—	
Relinquished to ICP group	TOAP	

M.V. 8-15-13
Prep Chemist / Date

Continued from page Ø.
Continued on page Ø.

Reviewed by / Date

Laboratory Job Number 247818

ANALYTICAL REPORT

Metals

Matrix: Filtrate

Curtis & Tompkins, Ltd.

Dissolved Chromium

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	METHOD
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Sampled:	08/08/13
Matrix:	Filtrate	Received:	08/09/13
Units:	ug/L	Prepared:	08/16/13
Diln Fac:	1.000	Analyzed:	08/21/13
Batch#:	201837		

Field ID	Type	Lab ID	Result	RL	MDL
GMW-01	SAMPLE	247818-001	5.0	5.0	0.69
GMW-02	SAMPLE	247818-002	130	5.0	0.69
GMW-09MC	SAMPLE	247818-003	2.6 J	5.0	0.69
EMW-14R	SAMPLE	247818-005	24	5.0	0.69
EMW-03	SAMPLE	247818-006	24	5.0	0.69
EMW-06	SAMPLE	247818-007	12	5.0	0.69
EMW-08R	SAMPLE	247818-008	150	5.0	0.69
EMW-10R	SAMPLE	247818-009	30	5.0	0.69
EMW-11R	SAMPLE	247818-010	27	5.0	0.69
EP-02R	SAMPLE	247818-011	12	5.0	0.69
NEW-03	SAMPLE	247818-012	15	5.0	0.69
GMW-13UC	SAMPLE	247818-013	390	5.0	0.69
EMW-103	SAMPLE	247818-021	24	5.0	0.69
GMW-113UC	SAMPLE	247818-022	360	5.0	0.69
	BLANK	QC702461	ND	5.0	0.69

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

44.0

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Chromium

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	METHOD
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Batch#:	201837
Field ID:	GMW-01	Sampled:	08/08/13
MSS Lab ID:	247818-001	Received:	08/09/13
Matrix:	Filtrate	Prepared:	08/16/13
Units:	ug/L	Analyzed:	08/21/13
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC702462		200.0	195.3	98	80-120		
BSD	QC702463		200.0	200.0	100	80-120	2	20
MS	QC702464	5.039	200.0	210.5	103	74-120		
MSD	QC702465		200.0	204.4	100	74-120	3	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Chromium

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	METHOD
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	GMW-01	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	201837
MSS Lab ID:	247818-001	Sampled:	08/08/13
Lab ID:	QC702466	Received:	08/09/13
Matrix:	Filtrate	Analyzed:	08/21/13

MSS Result	MSS RL	Result	RL	% Diff	Lim
5.039	5.000	ND	25.00	NC	10

NC= Not Calculated
ND= Not Detected at or above MDL
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Chromium

Lab #:	247818	Location:	PGA South
Client:	Haley & Aldrich	Prep:	METHOD
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	GMW-01	Diln Fac:	1.000
Type:	Post Digest Spike	Batch#:	201837
MSS Lab ID:	247818-001	Sampled:	08/08/13
Lab ID:	QC702467	Received:	08/09/13
Matrix:	Filtrate	Analyzed:	08/21/13

MSS Result	Spiked	Result	%REC	Limits
5.039	200.0	210.9	103	75-125

REPORTING SUMMARY FOR 247818 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CR	
247818-001	MET08	08/21/13 09:02	1.0	+	
247818-002	MET08	08/21/13 09:25	1.0	+	
247818-003	MET08	08/21/13 09:30	1.0	+	
247818-005	MET08	08/21/13 09:46	1.0	+	
247818-006	MET08	08/21/13 09:51	1.0	+	
247818-007	MET08	08/21/13 09:56	1.0	+	
247818-008	MET08	08/21/13 10:02	1.0	+	
247818-009	MET08	08/21/13 10:07	1.0	+	
247818-010	MET08	08/21/13 10:12	1.0	+	
247818-011	MET08	08/21/13 10:17	1.0	+	
247818-012	MET08	08/21/13 10:22	1.0	+	
247818-013	MET08	08/21/13 10:30	1.0	+	
247818-021	MET08	08/21/13 10:35	1.0	+	
247818-022	MET08	08/21/13 10:56	1.0	+	
QC702461	MET08	08/21/13 08:49	1.0	+	
QC702462	MET08	08/21/13 08:54	1.0	+	
QC702463	MET08	08/21/13 08:58	1.0	+	
QC702464	MET08	08/21/13 09:07	1.0	+	
QC702465	MET08	08/21/13 09:11	1.0	+	
QC702466	MET08	08/21/13 09:16	5.0	+	
QC702467	MET08	08/21/13 09:21	1.0	+	

ICP Data

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83335936

Instrument : MET08 Begun : 08/21/13 06:56
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	met08_sn_6010	ICALBLK				08/21/13 06:56	1.0		
002	met08_sn_6010	ICAL	CRI5.1			08/21/13 07:01	1.0	1	
003	met08_sn_6010	ICAL	CS100			08/21/13 07:06	1.0	2	
004	met08_sn_6010	ICAL	CS1K			08/21/13 07:10	1.0	3	
005	met08_sn_6010	ICAL	CS10K			08/21/13 07:15	1.0	4	
006	met08_sn_6010	ICAL	CS100K			08/21/13 07:20	1.0	5	
007	met08_sn_6010	ICV				08/21/13 07:25	1.0	6	
008	met08_sn_6010	ICB				08/21/13 07:31	1.0		
009	met08_sn_6010	ICSA				08/21/13 07:36	1.0	7	10:AL=510000
010	met08_sn_6010	ICSAB				08/21/13 07:48	1.0	8	5:AL=500000
011	met08_sn_6010	XCRI				08/21/13 07:53	1.0	9	
012	met08_sn_6010	CRI				08/21/13 07:57	1.0	9	
013	met08_sn_6010	BLANK	QC702684	Miscell.	201889	08/21/13 08:04	1.0		
014	met08_sn_6010	SAMPLE	248123-001	Soil	201889	08/21/13 08:09	1.0		5:FE=380000
015	met08_sn_6010	SAMPLE	248124-001	Soil	201889	08/21/13 08:13	1.0		4:CA=1400000
016	met08_sn_6010	SAMPLE	248124-001	Soil	201889	08/21/13 08:16	1.0		4:CA=1400000
017	met08_sn_6010	SAMPLE	247844-019	Soil	201759	08/21/13 08:19	100.0		
018	met08_sn_6010	SAMPLE	247844-020	Soil	201759	08/21/13 08:23	1.0		4:CA=680000
019	met08_sn_6010	CCV				08/21/13 08:27	1.0	10	
020	met08_sn_6010	CCB				08/21/13 08:32	1.0		
021	met08_sn_6010	ICSAB				08/21/13 08:37	1.0	8	5:AL=500000
022	met08_sn_6010	BLANK	QC702461	Filtrate	201837	08/21/13 08:49	1.0		
023	met08_sn_6010	BS	QC702462	Filtrate	201837	08/21/13 08:54	1.0		
024	met08_sn_6010	BSD	QC702463	Filtrate	201837	08/21/13 08:58	1.0		
025	met08_sn_6010	MSS	247818-001	Filtrate	201837	08/21/13 09:02	1.0		3:CA=200000
026	met08_sn_6010	MS	QC702464	Filtrate	201837	08/21/13 09:07	1.0		
027	met08_sn_6010	MSD	QC702465	Filtrate	201837	08/21/13 09:11	1.0		
028	met08_sn_6010	SER	QC702466	Filtrate	201837	08/21/13 09:16	5.0		
029	met08_sn_6010	PDS	QC702467	Filtrate	201837	08/21/13 09:21	1.0	11 12	
030	met08_sn_6010	SAMPLE	247818-002	Filtrate	201837	08/21/13 09:25	1.0		3:CA=280000
031	met08_sn_6010	SAMPLE	247818-003	Filtrate	201837	08/21/13 09:30	1.0		2:CA=240000
032	met08_sn_6010	CCV				08/21/13 09:35	1.0	10	
033	met08_sn_6010	CCB				08/21/13 09:41	1.0		
034	met08_sn_6010	SAMPLE	247818-005	Filtrate	201837	08/21/13 09:46	1.0		3:NA=320000
035	met08_sn_6010	SAMPLE	247818-006	Filtrate	201837	08/21/13 09:51	1.0		2:NA=190000
036	met08_sn_6010	SAMPLE	247818-007	Filtrate	201837	08/21/13 09:56	1.0		2:NA=430000
037	met08_sn_6010	SAMPLE	247818-008	Filtrate	201837	08/21/13 10:02	1.0		2:CA=210000
038	met08_sn_6010	SAMPLE	247818-009	Filtrate	201837	08/21/13 10:07	1.0		2:NA=270000
039	met08_sn_6010	SAMPLE	247818-010	Filtrate	201837	08/21/13 10:12	1.0		2:NA=400000
040	met08_sn_6010	SAMPLE	247818-011	Filtrate	201837	08/21/13 10:17	1.0		3:NA=450000
041	met08_sn_6010	SAMPLE	247818-012	Filtrate	201837	08/21/13 10:22	1.0		2:CA=280000
042	met08_sn_6010	SAMPLE	247818-013	Filtrate	201837	08/21/13 10:30	1.0		3:CA=430000
043	met08_sn_6010	SAMPLE	247818-021	Filtrate	201837	08/21/13 10:35	1.0		2:NA=200000
044	met08_sn_6010	ICSAB				08/21/13 10:40	1.0	8	5:AL=510000
045	met08_sn_6010	CCV				08/21/13 10:45	1.0	10	
046	met08_sn_6010	CCB				08/21/13 10:51	1.0		
047	met08_sn_6010	SAMPLE	247818-022	Filtrate	201837	08/21/13 10:56	1.0		3:CA=430000
048	met08_sn_6010	SAMPLE	247889-001	Filtrate	201837	08/21/13 11:01	1.0		
049	met08_sn_6010	SAMPLE	247889-002	Filtrate	201837	08/21/13 11:05	1.0		
050	met08_sn_6010	SAMPLE	247889-003	Filtrate	201837	08/21/13 11:10	1.0		
051	met08_sn_6010	BLANK	QC702197	Soil	201779	08/21/13 11:14	1.0		
052	met08_sn_6010	BS	QC702198	Soil	201779	08/21/13 11:19	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83335936

Instrument : MET08 Begun : 08/21/13 06:56
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
053	met08_sn_6010	BSD	QC702199	Soil	201779	08/21/13 11:23	1.0		
054	met08_sn_6010	MSS	247890-002	Soil	201779	08/21/13 11:27	1.0		4:FE=550000
055	met08_sn_6010	MS	QC702200	Soil	201779	08/21/13 11:31	1.0		
056	met08_sn_6010	MSD	QC702201	Soil	201779	08/21/13 11:34	1.0		
057	met08_sn_6010	CCV				08/21/13 11:37	1.0	10	
058	met08_sn_6010	CCB				08/21/13 11:43	1.0		
059	met08_sn_6010	SAMPLE	247882-005	Soil	201779	08/21/13 11:48	1.0		3:CA=710000
060	met08_sn_6010	SAMPLE	247890-001	Soil	201779	08/21/13 11:51	1.0		3:FE=530000
061	met08_sn_6010	SAMPLE	247890-003	Soil	201779	08/21/13 11:55	1.0		3:FE=390000
062	met08_sn_6010	SAMPLE	247890-005	Soil	201779	08/21/13 11:58	1.0		4:FE=550000
063	met08_sn_6010	SAMPLE	247890-006	Soil	201779	08/21/13 12:01	1.0		3:FE=520000
064	met08_sn_6010	SAMPLE	247890-007	Soil	201779	08/21/13 12:07	1.0		4:FE=520000
065	met08_sn_6010	SAMPLE	247890-005	Soil	201779	08/21/13 12:10	1.0		4:FE=550000
066	met08_sn_6010	SAMPLE	247890-009	Soil	201779	08/21/13 12:14	1.0		6:FE=430000
067	met08_sn_6010	SAMPLE	247890-010	Soil	201779	08/21/13 12:17	1.0		3:FE=430000
068	met08_sn_6010	SAMPLE	247890-011	Soil	201779	08/21/13 12:20	1.0		4:FE=610000
069	met08_sn_6010	ICSAB				08/21/13 12:24	1.0	8	5:AL=500000
070	met08_sn_6010	CCV				08/21/13 12:29	1.0	10	
071	met08_sn_6010	CCB				08/21/13 12:34	1.0		
072	met08_sn_6010	SAMPLE	247890-013	Soil	201779	08/21/13 12:40	1.0		3:FE=510000
073	met08_sn_6010	SAMPLE	247890-014	Soil	201779	08/21/13 12:43	1.0		3:FE=460000
074	met08_sn_6010	SAMPLE	247890-015	Soil	201779	08/21/13 12:46	1.0		3:FE=420000
075	met08_sn_6010	SAMPLE	247890-017	Soil	201779	08/21/13 12:49	1.0		4:FE=500000
076	met08_sn_6010	SAMPLE	247890-018	Soil	201779	08/21/13 12:53	1.0		3:FE=540000
077	met08_sn_6010	SAMPLE	247890-019	Soil	201779	08/21/13 12:56	1.0		3:FE=470000
078	met08_sn_6010	SAMPLE	247890-020	Soil	201779	08/21/13 12:59	1.0		5:FE=460000
079	met08_sn_6010	SAMPLE	247890-021	Soil	201779	08/21/13 13:05	1.0		4:FE=530000
080	met08_sn_6010	SAMPLE	247890-022	Soil	201779	08/21/13 13:08	1.0		4:FE=520000
081	met08_sn_6010	MSS	247926-004	Water	201838	08/21/13 13:12	100.0		
082	met08_sn_6010	CCV				08/21/13 13:16	1.0	10	
083	met08_sn_6010	CCB				08/21/13 13:21	1.0		
084	met08_sn_6010	SAMPLE	247902-001	Water	201838	08/21/13 13:26	1.0		1:NA=130000
085	met08_sn_6010	SAMPLE	247902-002	Water	201838	08/21/13 13:30	1.0		3:CA=370000
086	met08_sn_6010	SAMPLE	247904-002	Water	201838	08/21/13 13:35	10.0		
087	met08_sn_6010	SAMPLE	247907-001	Water	201838	08/21/13 13:40	1.0		
088	met08_sn_6010	SAMPLE	247907-001	Water	201838	08/21/13 13:45	10.0		
089	met08_sn_6010	SAMPLE	247918-001	Water	201838	08/21/13 13:50	10.0		
090	met08_sn_6010	SAMPLE	247926-002	Water	201838	08/21/13 13:55	1.0		1:NA=190000
091	met08_sn_6010	SAMPLE	247926-003	Water	201838	08/21/13 13:59	1.0		
092	met08_sn_6010	SAMPLE	247926-005	Water	201838	08/21/13 14:04	1.0		1:NA=180000
093	met08_sn_6010	SAMPLE	247926-007	Water	201838	08/21/13 14:10	1.0		
094	met08_sn_6010	ICSAB				08/21/13 14:15	1.0	8	5:AL=500000
095	met08_sn_6010	CCV				08/21/13 14:20	1.0	10	
096	met08_sn_6010	CCB				08/21/13 14:26	1.0		
097	met08_sn_6010	SAMPLE	247932-001	Water	201838	08/21/13 14:31	1.0		
098	met08_sn_6010	SAMPLE	247986-001	Water	201838	08/21/13 14:35	1.0		
099	met08_sn_6010	SAMPLE	247988-001	Water	201838	08/21/13 14:39	1.0		
100	met08_sn_6010	BLANK	QC702522	Soil	201848	08/21/13 14:43	1.0		
101	met08_sn_6010	BS	QC702523	Soil	201848	08/21/13 14:48	1.0		
102	met08_sn_6010	BSD	QC702524	Soil	201848	08/21/13 14:53	1.0		
103	met08_sn_6010	MSS	247927-001	Soil	201848	08/21/13 14:57	1.0		
104	met08_sn_6010	MS	QC702525	Soil	201848	08/21/13 15:00	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83335936

Instrument : MET08 Begun : 08/21/13 06:56
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
105	met08_sn_6010	MSD	QC702526	Soil	201848	08/21/13 15:03	1.0		
106	met08_sn_6010	SER	QC702527	Soil	201848	08/21/13 15:06	5.0		
107	met08_sn_6010	CCV				08/21/13 15:11	1.0	10	
108	met08_sn_6010	CCB				08/21/13 15:16	1.0		
109	met08_sn_6010	PDS	QC702528	Soil	201848	08/21/13 15:21	1.0	13	
110	met08_sn_6010	SAMPLE	247919-001	Soil	201848	08/21/13 15:24	1.0		

NT 08/21/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 71.

Standards used: 1=S22714 2=S22716 3=S22715 4=S22717 5=S22718 6=S22721 7=S22719 8=S22720 9=S22723 10=S22722 11=S21652 12=S21653 13=S22594

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83335936

Date : 08/21/13 Reference : met08_sn_6010
Sequence : MET08 08/21/13 Analyzed : 08/21/13 07:01

#	Type	Sample ID	Y A
		ICAL STD	3273602
		LOWER LIMIT	982080
		UPPER LIMIT	6547203
008	ICB		3353157
009	ICSA		2762975
010	ICSAB		2748355
013	BLANK	QC702684	3380966
014	SAMPLE	248123-001	3130082
015	SAMPLE	248124-001	2808002
016	SAMPLE	248124-001	2804702
017	SAMPLE	247844-019	3386048
018	SAMPLE	247844-020	3023055
019	CCV		3182097
020	CCB		3310870
021	ICSAB		2750239
022	BLANK	QC702461	3440427
023	BS	QC702462	3284831
024	BSD	QC702463	3259852
025	MSS	247818-001	3010051
026	MS	QC702464	2976244
027	MSD	QC702465	3015613
028	SER	QC702466	3182233
029	PDS	QC702467	3006167
030	SAMPLE	247818-002	3066940
031	SAMPLE	247818-003	3028964
032	CCV		3144962
033	CCB		3306370
034	SAMPLE	247818-005	2999791
035	SAMPLE	247818-006	3129523
036	SAMPLE	247818-007	2936727
037	SAMPLE	247818-008	3009283
038	SAMPLE	247818-009	2996069
039	SAMPLE	247818-010	2967534
040	SAMPLE	247818-011	2931504
041	SAMPLE	247818-012	2901179
042	SAMPLE	247818-013	2994601
043	SAMPLE	247818-021	3069426
044	ICSAB		2727568
045	CCV		3201555
046	CCB		3324100
047	SAMPLE	247818-022	3029883
048	SAMPLE	247889-001	3158735
049	SAMPLE	247889-002	3141308
050	SAMPLE	247889-003	3149930
051	BLANK	QC702197	3351177
052	BS	QC702198	3159472
053	BSD	QC702199	3171836
054	MSS	247890-002	3122791
055	MS	QC702200	3157614
056	MSD	QC702201	3165656
057	CCV		3166978

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83335936

Date : 08/21/13 Reference : met08_sn_6010
Sequence : MET08 08/21/13 Analyzed : 08/21/13 07:01

#	Type	Sample ID	Y A
058	CCB		3345940
059	SAMPLE	247882-005	3000286
060	SAMPLE	247890-001	3251631
061	SAMPLE	247890-003	3198074
062	SAMPLE	247890-005	3195509
063	SAMPLE	247890-006	3259273
064	SAMPLE	247890-007	3083723
065	SAMPLE	247890-005	3216303
066	SAMPLE	247890-009	3225404
067	SAMPLE	247890-010	3163364
068	SAMPLE	247890-011	3205499
069	ICSAB		2728612
070	CCV		3170549
071	CCB		3274023
072	SAMPLE	247890-013	3244835
073	SAMPLE	247890-014	3169921
074	SAMPLE	247890-015	3158986
075	SAMPLE	247890-017	3219749
076	SAMPLE	247890-018	3190425
077	SAMPLE	247890-019	3145044
078	SAMPLE	247890-020	3209135
079	SAMPLE	247890-021	3101407
080	SAMPLE	247890-022	3093505
081	MSS	247926-004	3232561
082	CCV		3114206
083	CCB		3255497
084	SAMPLE	247902-001	3074121
085	SAMPLE	247902-002	2905001
087	SAMPLE	247907-001	3111350
088	SAMPLE	247907-001	3222685
090	SAMPLE	247926-002	3002808
091	SAMPLE	247926-003	3194323
092	SAMPLE	247926-005	3084389
093	SAMPLE	247926-007	3257583
094	ICSAB		2728415
095	CCV		3145389
096	CCB		3301620

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 247818 METALS Filtrate: EPA 6010B

Inst : MET08 Reviewer : ---
Calnum : 83335936001 Date : 21-AUG-2013 06:56
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	met08_sn_6010	83335936002	CRI5.1	21-AUG-2013 07:01	S22714
L2	met08_sn_6010	83335936003	CS100	21-AUG-2013 07:06	S22716
L3	met08_sn_6010	83335936004	CS1K	21-AUG-2013 07:10	S22715
L4	met08_sn_6010	83335936005	CS10K	21-AUG-2013 07:15	S22717
L5	met08_sn_6010	83335936006	CS100K	21-AUG-2013 07:20	S22718

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Chromium	A	91.680	106.58	106.56	105.96		LOR0	0.00000	0.00944		102.69	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Chromium	A	5.0000	-13	100.00	1	1000.0	1	10000	0		

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 247818 METALS Filtrate
EPA 6010B

Inst : MET08
Calnum : 83335936001 Cal Date : 21-AUG-2013

ICV 83335936007 (21-AUG-2013) stds: S22721

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Chromium	A	5000	5002	ug/L	0	10	

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR 247818 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83335936009 File : met08_sn_6010 Time : 21-AUG-2013 07:36
Cal : 83335936001 Caldate : 21-AUG-2013
Standards: S22719

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19310	ug/L	97
Copper	A	20000	20220	ug/L	101
Manganese	A	20000	18560	ug/L	93
Nickel	A	20000	17880	ug/L	89
Vanadium	A	20000	19660	ug/L	98
Aluminum	R	500000	508600	ug/L	102
Calcium	R	500000	490400	ug/L	98
Iron	R	200000	193200	ug/L	97
Magnesium	R	500000	502100	ug/L	100
Titanium	R	20000	20980	ug/L	105

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3273602	2762975	-15.60

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247818 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83335936019 File : met08_sn_6010 Time : 21-AUG-2013 08:27
Cal : 83335936001 Caldate : 21-AUG-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	102.69	105.43	5000	4975	ug/L	-1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3273602	3182097	-2.80

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 247818 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83335936020 File : met08_sn_6010 Time : 21-AUG-2013 08:32
Cal : 83335936001 Caldate : 21-AUG-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3273602	3310870	1.14

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 247818 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83335936021 File : met08_sn_6010 Time : 21-AUG-2013 08:37
Cal : 83335936001 Caldate : 21-AUG-2013
Standards: S22720

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	498.1	ug/L	0	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3273602	2750239	-15.99

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247818 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83335936032 File : met08_sn_6010 Time : 21-AUG-2013 09:35
Cal : 83335936001 Caldate : 21-AUG-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	102.69	105.68	5000	4987	ug/L	0	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3273602	3144962	-3.93

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 247818 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83335936033 File : met08_sn_6010 Time : 21-AUG-2013 09:41
Cal : 83335936001 Caldate : 21-AUG-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3273602	3306370	1.00

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 247818 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83335936044 File : met08_sn_6010 Time : 21-AUG-2013 10:40
Cal : 83335936001 Caldate : 21-AUG-2013
Standards: S22720

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	502.6	ug/L	1	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3273602	2727568	-16.68

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247818 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83335936045 File : met08_sn_6010 Time : 21-AUG-2013 10:45
Cal : 83335936001 Caldate : 21-AUG-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	102.69	104.72	5000	4941	ug/L	-1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3273602	3201555	-2.20

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 247818 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83335936046 File : met08_sn_6010 Time : 21-AUG-2013 10:51
Cal : 83335936001 Caldate : 21-AUG-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3273602	3324100	1.54

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247818 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83335936057 File : met08_sn_6010 Time : 21-AUG-2013 11:37
Cal : 83335936001 Caldate : 21-AUG-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	102.69	105.24	5000	4966	ug/L	-1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3273602	3166978	-3.26

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 247818 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83335936058 File : met08_sn_6010 Time : 21-AUG-2013 11:43
Cal : 83335936001 Caldate : 21-AUG-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3273602	3345940	2.21

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 247818 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83335936069 File : met08_sn_6010 Time : 21-AUG-2013 12:24
Cal : 83335936001 Caldate : 21-AUG-2013
Standards: S22720

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	500.7	ug/L	0	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3273602	2728612	-16.65

SAMPLE PREPARATION SUMMARY

Batch # : 201837 Analysis : ICAP
Started By : MRN Prep Date : 16-AUG-2013 22:00 Finished By : VV
Method : METHOD Units : mL
Spike #1 ID : S21652 Spike #2 ID : S21653

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
247818-001		Filtrate	50	50	1	1.0						CR	
247818-002		Filtrate	50	50	1	1.0						CR	
247818-003		Filtrate	50	50	1	1.0						CR	
247818-005		Filtrate	50	50	1	1.0						CR	
247818-006		Filtrate	50	50	1	1.0						CR	
247818-007		Filtrate	50	50	1	1.0						CR	
247818-008		Filtrate	50	50	1	1.0						CR	
247818-009		Filtrate	50	50	1	1.0						CR	
247818-010		Filtrate	50	50	1	1.0						CR	
247818-011		Filtrate	50	50	1	1.0						CR	
247818-012		Filtrate	50	50	1	1.0						CR	
247818-013		Filtrate	50	50	1	1.0						CR	
247818-021		Filtrate	50	50	1	1.0						CR	
247818-022		Filtrate	50	50	1	1.0						CR	
247889-001		Filtrate	50	50	1	1.0						T22/ICP	
247889-002		Filtrate	50	50	1	1.0						T22/ICP	
247889-003		Filtrate	50	50	1	1.0						T22/ICP	
QC702461	BLANK	Filtrate	50	50	1	1.0							
QC702462	BS	Filtrate	50	50	1	1.0		.5	.5				
QC702463	BSD	Filtrate	50	50	1	1.0		.5	.5				
QC702464	MS	Filtrate	50	50	1	1.0		.5	.5				
QC702465	MSD	Filtrate	50	50	1	1.0		.5	.5				
QC702466	SER	Filtrate	50	50	1	1.0							
QC702467	PDS	Filtrate	50	50	1	1.0							

Analyst: NT Date: 08/21/13 Reviewer: PRW Date: 08/21/13

Water Digestion for ICP

Curtis & Tompkins, Ltd.

LIMS Batch #: 201837
Digested by: MN
Date Digested: 8/16/13

Digestion Method
☒ EPA 3010a for ICP
☐ EPA 200.7
☒ filtered Prep

BK3443
Page 98

Lvl.	Sample #	Container ID	Volume Sample(mL)	Final Volume (mL)	Filtered? (y/n)	ID Π	Comments
	BLK 702461		50	50	N	✓	
	* BS 62		50	50		✓	
	* BSD 63		50	50		✓	
III	*247818-001	E	50	50		✓	
5	* -001 MS		50	50		✓	
	* -001 MSD		50	50		✓	
	-002		50	50		✓	
	-003		50	50		✓	
	-005		50	50		✓	
10	-006		50	50		✓	
	-007		50	50		✓	
	-008		50	50		✓	
	-009		50	50		✓	
	-010		50	50		✓	
15	-011		50	50		✓	
	-012		50	50		✓	
	-013		50	50		✓	
	-021		50	50		✓	
	-022		50	50		✓	
II 20	247889-001	9	50	50		✓	
	002		50	50		✓	
	003		50	50		✓	
			50	50			
			50	50			
			50	50			

	Reagent ID or LIMS #	Initials / Date
Digestion tubes, lot #	162909-261	MN 8/16/13
0.5 mL of spike solution (Std1) was added to all spikes	521652	
0.5 mL of spike solution (Std2) was added to all spikes	521653	
Digestion Temperature (°C), Block and Probe Location	— —	
digestion begun at (time)	10PM	
VV 8/16/13 ~~4:1~~ HCl	40272-JTB	
concentrated HNO3	3390-	
digestion ended at (time)	—	
☐ filtered thru' Whatman # 541	—	
Relinquished to ICP group	ICAP	

8/16/13
Prep Chemist / Date

Continued from page Ø.
Continued on page Ø.

Reviewed by / Date

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 247902
ANALYTICAL REPORT

Haley & Aldrich 400 East Van Buren Street Phoenix, CA 85004	Project : 39049-103 Location : PGA South Level : III

Sample ID	Lab ID
GMW-25LC	247902-001
GMW-26LC	247902-002
SB-10LC	247902-003
GMW-14UC	247902-004
GMW-15UC	247902-005
GMW-16UC	247902-006
GMW-17UC	247902-007
GMW-18UC	247902-008
GMW-19LC	247902-009
GMW-20LC	247902-010
EMW-13	247902-011
E-03	247902-012
E-04	247902-013
GMW-24A	247902-014
NEW-01	247902-015
EMW-15	247902-016
SB-06LC	247902-017
SB-06UC	247902-018
SB-08LC	247902-019
SB-08UC	247902-020
SB-09LC	247902-021
TRIP BLANK	247902-022

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Isabelle Choy Date: 08/22/2013

Isabelle Choy
Project Manager
(510) 486-0900

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**247902**
Client:	**Haley & Aldrich**
Project:	**39049-103**
Location:	**PGA South**
Request Date:	**08/13/13**
Samples Received:	**08/13/13**

This data package contains sample and QC results for twenty two water samples, requested for the above referenced project on 08/13/13. See attached cooler receipt form for any sample receipt problems or discrepancies.

Volatile Organics by GC/MS (EPA 8260B):
High response was observed for bromomethane in the CCV analyzed 08/14/13 10:38; this analyte was not detected at or above the RL in the associated samples, and affected data was qualified with "b".

Chloroform was detected between the MDL and the RL in the method blank for batch 201700; this analyte was not detected in samples at or above the RL.

Bromomethane was detected between the MDL and the RL in the method blank for batch 201675 and the method blank for batch 201683; this analyte was not detected in samples at or above the RL.

No other analytical problems were encountered.

Metals (EPA 6010B) Water:
No analytical problems were encountered.

Metals (EPA 6020) Filtrate:
High % difference was observed for chromium in the serial dilution of GMW-25LC (lab # 247902-001).

No other analytical problems were encountered.

Chain of Custody

Semi Annual

CHAIN OF CUSTODY

Curtis & Tompkins Laboratories
ENVIRONMENTAL ANALYTICAL TESTING LABORATORY
In Business Since 1878

2323 Fifth Street
Berkeley, CA 94710

Phone (510) 486-0900
Fax (510) 486-0532

Chain of Custody # _____

C&T LOGIN # 247902

Project No: 39049-103
Project Name: P6AS
Project P. O. No: 39049-103
EDD Format: Report Level ☐ II ☐ III ☐ IV
Turnaround Time: ☐ RUSH _____ ☒ Standard

Sampler: Mark Argall
Report To: Paula Chang
Company: H + A
Telephone: 602-760-2418
Email: pchang@haleyaldrich.com

Lab No.	Sample ID.	Sampling: Date Collected	Sampling: Time Collected	Matrix: Water	Matrix: Solid	# of Containers	Chemical Preservative: HCl	H2SO4	HNO3	NaOH	None	ANALYTICAL REQUEST: 8260B Halogenated only	6010B Total Chromium	6010B Lab filtered preserved dissolved chromium
1	6MW-25LC	8-12-13	0700	X		5	X		X			X	X	X
2	6MW-26LC	8-12-13	0715	X		5	X		X			X	X	X
3	SB-10LC	8-9-13	0820			3	X					X		
4	6MW-14UC		0900			3	X					X		
5	6MW-15UC		1030			3	X					X		
6	6MW-16UC		1015			3	X					X		
7	6MW-17UC		0930			3	X					X		
8	6MW-18UC		0915			3	X					X		
9	6MW-19LC		0945			3	X					X		
10	6MW-20LC		1000			3	X					X		
11	EMW-13		0620			3	X					X		
12	E-03		0630			3	X					X		
13	E-04		0600			3	X					X		

Notes: Lab filter + preserve 6010B dissolved chrom upon receipt

SAMPLE RECEIPT
☐ Intact
☐ Cold
☐ On Ice
☐ Ambient

RELINQUISHED BY:
DATE: 8-12-13 TIME:
DATE: TIME:
DATE: TIME:

RECEIVED BY:
DATE: 8/13/13 TIME: 0712
DATE: TIME:
DATE: TIME:

Semi Annual

CHAIN OF CUSTODY

Curtis & Tompkins Laboratories
ENVIRONMENTAL ANALYTICAL TESTING LABORATORY
In Business Since 1878

2323 Fifth Street
Berkeley, CA 94710

Phone (510) 486-0900
Fax (510) 486-0532

Chain of Custody #

C&T LOGIN # 247902

Project No: 39049-103
Project Name: PGAS
Project P. O. No: 39049-103
EDD Format: Report Level ☐ II ☐ III ☐ IV
Turnaround Time: ☐ RUSH ☒ Standard

Sampler: Mark Argell
Report To: Paula Chang
Company: H+A
Telephone: 602-760-2418
Email: pchang@hleyaldrich.com

Lab No.	Sample ID.	SAMPLING Date Collected	SAMPLING Time Collected	MATRIX Water	MATRIX Solid	# of Containers	CHEMICAL PRESERVATIVE HCl	H2SO4	HNO3	NaOH	None	ANALYTICAL REQUEST 8260B Halogenated only
14	GMW-24A	8-9-13	0605	X		3	X					X
15	NEW-01		0545	X		3	X					X
16	EMW-15		0645	X		3	X					X
17	SB-06LC		0700	X		3	X					X
18	SB-06UC		0710	X		3	X					X
19	SB-08LC		0745	X		3	X					X
20	SB-08UC		0800	X		3	X					X
21	SB-09LC		0810	X		3	X					X
22	Trip Blank			X		3	X					
	Temp Blank					1						

Notes:

SAMPLE RECEIPT
☐ Intact
☐ Cold
☐ On Ice
☐ Ambient

RELINQUISHED BY:
DATE: 8-12-13 TIME:
DATE: TIME:
DATE: TIME:

RECEIVED BY:
DATE: 8/13/13 TIME: 0710
DATE: TIME:
DATE: TIME:

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 247902 Date Received 8/13/13 Number of coolers 1
Client H&A Project PGAS

Date Opened 8/13/13 By (print) [illegible] (sign) [illegible]
Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc) Fed Ex YES NO
   Shipping info 0200 8009 7835 1974

2A. Were custody seals present? .... ☑ YES (circle) on cooler on samples ☐ NO
   How many 2 Name initials Date 8/12/13
2B. Were custody seals intact upon arrival? YES NO N/A
3. Were custody papers dry and intact when received? YES NO
4. Were custody papers filled out properly (ink, signed, etc)? YES NO
5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO
6. Indicate the packing in cooler: (if other, describe)

☐ Bubble Wrap ☐ Foam blocks ☑ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☑ Wet ☐ Blue/Gel ☐ None Temp(°C) 1.5

☐ Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO
   If YES, what time were they transferred to freezer?
9. Did all bottles arrive unbroken/unopened? YES NO
10. Are there any missing / extra samples? YES NO
11. Are samples in the appropriate containers for indicated tests? YES NO
12. Are sample labels present, in good condition and complete? YES NO
13. Do the sample labels agree with custody papers? YES NO
14. Was sufficient amount of sample sent for tests requested? YES NO
15. Are the samples appropriately preserved? YES NO N/A
16. Did you check preservatives for all bottles for each sample? YES NO N/A
17. Did you document your preservative check? YES NO N/A
18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO N/A
19. Did you change the hold time in LIMS for preserved terracores? YES NO N/A
20. Are bubbles > 6mm absent in VOA samples? YES NO N/A
21. Was the client contacted concerning this sample delivery? YES NO
   If YES, Who was called? By Date:

COMMENTS

Rev 10, 11/11

Curtis & Tompkins Sample Preservation for 247902

Sample	pH: <2	>9	>12	Other
-001a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[✓]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____
-002a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[✓]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____

Analyst: AM
Date: 8/13/13

Laboratory Job Number 247902

ANALYTICAL REPORT

Volatile Organics by GC/MS

Matrix: Water

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247902	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GMW-25LC	Batch#:	201672
Lab ID:	247902-001	Sampled:	08/12/13
Matrix:	Water	Received:	08/13/13
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	98	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	92	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247902	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GMW-26LC	Batch#:	201672
Lab ID:	247902-002	Sampled:	08/12/13
Matrix:	Water	Received:	08/13/13
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	0.1 J	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.3 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	1.2	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	1.0	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	3.1	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	4.7	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	98	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	92	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247902	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	SB-10LC	Batch#:	201675
Lab ID:	247902-003	Sampled:	08/09/13
Matrix:	Water	Received:	08/13/13
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	0.3 J	1.0	0.3
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	0.2 J	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	20	0.2
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.2
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	0.3 J	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	123	76-138
Toluene-d8	98	80-120
Bromofluorobenzene	101	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247902	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GMW-14UC	Batch#:	201675
Lab ID:	247902-004	Sampled:	08/09/13
Matrix:	Water	Received:	08/13/13
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.3
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	20	0.2
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.2
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.1 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	5.9	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	127	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	104	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247902	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GMW-15UC	Batch#:	201675
Lab ID:	247902-005	Sampled:	08/09/13
Matrix:	Water	Received:	08/13/13
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.3
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	20	0.2
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.2
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.2 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	0.3 J	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	123	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	103	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247902	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GMW-16UC	Batch#:	201683
Lab ID:	247902-006	Sampled:	08/09/13
Matrix:	Water	Received:	08/13/13
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	0.2 J	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.2 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	0.8	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	9.7	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	110	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	99	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247902	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GMW-17UC	Batch#:	201675
Lab ID:	247902-007	Sampled:	08/09/13
Matrix:	Water	Received:	08/13/13
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.3
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	20	0.2
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.2
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.2 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	0.3 J	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	10	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	121	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	105	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247902	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GMW-18UC	Batch#:	201675
Lab ID:	247902-008	Sampled:	08/09/13
Matrix:	Water	Received:	08/13/13
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.3
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	20	0.2
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.2
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	2.7	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	123	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	104	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247902	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GMW-19LC	Batch#:	201675
Lab ID:	247902-009	Sampled:	08/09/13
Matrix:	Water	Received:	08/13/13
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.3
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	20	0.2
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.2
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.3 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	0.3 J	0.5	0.1
1,2-Dichloroethane	0.6	0.5	0.1
Trichloroethene	13	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	120	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	102	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247902	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GMW-20LC	Batch#:	201675
Lab ID:	247902-010	Sampled:	08/09/13
Matrix:	Water	Received:	08/13/13
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.3
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	20	0.2
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.2
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	1.4	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	122	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	103	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247902	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	EMW-13	Batch#:	201675
Lab ID:	247902-011	Sampled:	08/09/13
Matrix:	Water	Received:	08/13/13
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.3
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	20	0.2
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.2
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	1.0	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	122	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	102	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247902	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	E-03	Batch#:	201675
Lab ID:	247902-012	Sampled:	08/09/13
Matrix:	Water	Received:	08/13/13
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.3
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	20	0.2
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.2
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	123	76-138
Toluene-d8	98	80-120
Bromofluorobenzene	102	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247902	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	E-04	Batch#:	201675
Lab ID:	247902-013	Sampled:	08/09/13
Matrix:	Water	Received:	08/13/13
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.3
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	1.5	0.5	0.2
Methylene Chloride	ND	20	0.2
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	0.2 J	0.5	0.2
cis-1,2-Dichloroethene	0.1 J	0.5	0.1
Chloroform	0.6 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	45	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	0.1 J	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	120	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	103	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247902	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GMW-24A	Batch#:	201675
Lab ID:	247902-014	Sampled:	08/09/13
Matrix:	Water	Received:	08/13/13
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.3
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	4.9	2.0	0.1
1,1-Dichloroethene	10	0.5	0.2
Methylene Chloride	ND	20	0.2
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	0.8	0.5	0.2
cis-1,2-Dichloroethene	0.3 J	0.5	0.1
Chloroform	0.9 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	0.2 J	0.5	0.1
Trichloroethene	77	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	0.9	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	124	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	103	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247902	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	NEW-01	Batch#:	201675
Lab ID:	247902-015	Sampled:	08/09/13
Matrix:	Water	Received:	08/13/13
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.3
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	20	0.2
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.2
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.2 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	9.9	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	124	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	101	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247902	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	EMW-15	Batch#:	201700
Lab ID:	247902-016	Sampled:	08/09/13
Matrix:	Water	Received:	08/13/13
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	0.2 J	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.2
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.1 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.2
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.2
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.2
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.2
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	112	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	99	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247902	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	SB-06LC	Batch#:	201700
Lab ID:	247902-017	Sampled:	08/09/13
Matrix:	Water	Received:	08/13/13
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.2
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.4 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.2
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	0.3 J	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.2
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.2
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.2
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	111	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	97	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247902	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	SB-06UC	Batch#:	201700
Lab ID:	247902-018	Sampled:	08/09/13
Matrix:	Water	Received:	08/13/13
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	0.1 J	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	0.9 J	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.2
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.2
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	4.2	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.2
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.2
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.2
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	116	76-138
Toluene-d8	96	80-120
Bromofluorobenzene	100	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247902	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	SB-08LC	Batch#:	201700
Lab ID:	247902-019	Sampled:	08/09/13
Matrix:	Water	Received:	08/13/13
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.2
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.2
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	0.3 J	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.2
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.2
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.2
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	112	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	101	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247902	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	SB-08UC	Batch#:	201700
Lab ID:	247902-020	Sampled:	08/09/13
Matrix:	Water	Received:	08/13/13
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	0.2 J	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.2
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.2
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	0.3 J	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.2
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.2
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.2
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	115	76-138
Toluene-d8	98	80-120
Bromofluorobenzene	99	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247902	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	SB-09LC	Batch#:	201700
Lab ID:	247902-021	Sampled:	08/09/13
Matrix:	Water	Received:	08/13/13
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	0.2 J	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.2
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.2
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	0.5	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.2
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.2
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.2
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	107	76-138
Toluene-d8	98	80-120
Bromofluorobenzene	103	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	247902	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	TRIP BLANK	Batch#:	201700
Lab ID:	247902-022	Sampled:	08/09/13
Matrix:	Water	Received:	08/13/13
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.2
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.2
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.2
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.2
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.2
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	110	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	100	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	247902	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	201672
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Type: BS Lab ID: QC701750

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	13.27	106	77-132
Trichloroethene	12.50	13.09	105	80-120
Chlorobenzene	12.50	13.88	111	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	98	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	89	80-125

Type: BSD Lab ID: QC701751

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	13.04	104	77-132	2	20
Trichloroethene	12.50	12.78	102	80-120	2	20
Chlorobenzene	12.50	13.75	110	80-120	1	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	97	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	89	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	247902	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC701752	Batch#:	201672
Matrix:	Water	Analyzed:	08/14/13
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	97	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	93	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	247902	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	201675
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Type: BS Lab ID: QC701760

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	24.22	97	77-132
Trichloroethene	25.00	27.41	110	80-120
Chlorobenzene	25.00	29.06	116	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	116	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	99	80-125

Type: BSD Lab ID: QC701761

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	21.13	85	77-132	14	20
Trichloroethene	25.00	24.99	100	80-120	9	20
Chlorobenzene	25.00	26.44	106	80-120	9	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	115	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	100	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	247902	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC701762	Batch#:	201675
Matrix:	Water	Analyzed:	08/14/13
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.3
Vinyl Chloride	ND	0.5	0.1
Bromomethane	0.3 J b	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	20	0.2
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.2
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	116	76-138
Toluene-d8	98	80-120
Bromofluorobenzene	100	80-125

J= Estimated value
b= See narrative
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	247902	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	201683
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Type: BS Lab ID: QC701790

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	13.38	107	77-132
Trichloroethene	12.50	13.40	107	80-120
Chlorobenzene	12.50	14.03	112	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	104	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	99	80-125

Type: BSD Lab ID: QC701791

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	12.41	99	77-132	8	20
Trichloroethene	12.50	12.83	103	80-120	4	20
Chlorobenzene	12.50	13.31	106	80-120	5	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	105	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	100	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	247902	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC701792	Batch#:	201683
Matrix:	Water	Analyzed:	08/14/13
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	0.1 J	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	106	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	101	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	247902	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	201700
Units:	ug/L	Analyzed:	08/14/13
Diln Fac:	1.000		

Type: BS Lab ID: QC701866

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	14.45	116	77-132
Trichloroethene	12.50	13.95	112	80-120
Chlorobenzene	12.50	14.24	114	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	106	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	102	80-125

Type: BSD Lab ID: QC701867

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	13.46	108	77-132	7	20
Trichloroethene	12.50	13.22	106	80-120	5	20
Chlorobenzene	12.50	13.24	106	80-120	7	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	102	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	103	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	247902	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC701868	Batch#:	201700
Matrix:	Water	Analyzed:	08/14/13
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.2
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.1 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.2
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.2
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.2
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.2
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	105	76-138
Toluene-d8	101	80-120
Bromofluorobenzene	100	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Initial & Continuing Calibration Data

CURTIS & TOMPKINS BFB TUNE FOR 247902 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 453320921001 File : fha01 Time : 10-AUG-2013 20:41

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	98981	25.46	
75	30% - 60% of mass 95	204842	52.68	
95		388842	100.00	
96	5% - 9% of mass 95	26109	6.71	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	271573	69.84	
175	5% - 9% of mass 174	13720	5.05	
176	> 95% and < 101% of mass 174	261120	96.15	
177	5% - 9% of mass 176	17812	6.82	

Analyst: DAR Date: 08/12/13 Reviewer: SJD Date: 08/15/13

CURTIS & TOMPKINS BFB TUNE FOR 247902 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 453326247001 File : fhe01 Time : 14-AUG-2013 13:27

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	91376	25.41	
75	30% - 60% of mass 95	190606	53.01	
95		359540	100.00	
96	5% - 9% of mass 95	23812	6.62	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	251200	69.87	
175	5% - 9% of mass 174	20970	8.35	
176	> 95% and < 101% of mass 174	239125	95.19	
177	5% - 9% of mass 176	15595	6.52	

Analyst: DAR Date: 08/14/13 Reviewer: SJD Date: 08/15/13

CURTIS & TOMPKINS BFB TUNE FOR 247902 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 453326247004 File : fhe04 Time : 14-AUG-2013 15:14

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	97472	25.00	
75	30% - 60% of mass 95	203200	52.13	
95		389824	100.00	
96	5% - 9% of mass 95	25856	6.63	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	277952	71.30	
175	5% - 9% of mass 174	22376	8.05	
176	> 95% and < 101% of mass 174	266816	95.99	
177	5% - 9% of mass 176	17424	6.53	

Analyst: DAR Date: 08/14/13 Reviewer: SJD Date: 08/15/13

CURTIS & TOMPKINS BFB TUNE FOR 247902 MSVOA Water
EPA 8260B

Inst : MSVOA08 Run Name : BFB IDF : 1.0
Seqnum : 473114230007 File : hck07 Time : 20-MAR-2013 14:05

Standards: S21369

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	11442	22.41	
75	30% - 60% of mass 95	23940	46.89	
95		51061	100.00	
96	5% - 9% of mass 95	3250	6.36	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	39269	76.91	
175	5% - 9% of mass 174	2784	7.09	
176	> 95% and < 101% of mass 174	37378	95.18	
177	5% - 9% of mass 176	2389	6.39	

Analyst: MJB Date: 03/22/13 Reviewer: LW Date: 03/22/13

CURTIS & TOMPKINS BFB TUNE FOR 247902 MSVOA Water
EPA 8260B

Inst : MSVOA08 Run Name : BFB IDF : 1.0
Seqnum : 473326033004 File : hhe04 Time : 14-AUG-2013 10:11

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	11799	22.57	
75	30% - 60% of mass 95	23074	44.14	
95		52272	100.00	
96	5% - 9% of mass 95	3400	6.50	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	43480	83.18	
175	5% - 9% of mass 174	2858	6.57	
176	> 95% and < 101% of mass 174	41501	95.45	
177	5% - 9% of mass 176	2505	6.04	

Analyst: KKM Date: 08/14/13 Reviewer: BO Date: 08/15/13

CURTIS & TOMPKINS BFB TUNE FOR 247902 MSVOA Water
EPA 8260B

Inst : MSVOA13 Run Name : BFB IDF : 1.0
Seqnum : 943295688006 File : mgo06 Time : 24-JUL-2013 10:56

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	11013	18.87	
75	30% - 60% of mass 95	30587	52.42	
95		58355	100.00	
96	5% - 9% of mass 95	4166	7.14	
173	< 2% of mass 174	198	0.53	
174	> 50% and < 100% of mass 95	37541	64.33	
175	5% - 9% of mass 174	2886	7.69	
176	> 95% and < 101% of mass 174	36371	96.88	
177	5% - 9% of mass 176	2198	6.04	

Analyst: BO Date: 07/25/13 Reviewer: LW Date: 07/25/13

CURTIS & TOMPKINS BFB TUNE FOR 247902 MSVOA Water
EPA 8260B

Inst : MSVOA13 Run Name : BFB IDF : 1.0
Seqnum : 943297216002 File : mgp02 Time : 25-JUL-2013 10:01

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	12837	21.43	
75	30% - 60% of mass 95	33613	56.10	
95		59912	100.00	
96	5% - 9% of mass 95	4091	6.83	
173	< 2% of mass 174	276	0.75	
174	> 50% and < 100% of mass 95	36725	61.30	
175	5% - 9% of mass 174	2657	7.23	
176	> 95% and < 101% of mass 174	35648	97.07	
177	5% - 9% of mass 176	2491	6.99	

Analyst: BO Date: 07/25/13 Reviewer: LW Date: 07/25/13

CURTIS & TOMPKINS BFB TUNE FOR 247902 MSVOA Water
EPA 8260B

Inst : MSVOA13 Run Name : BFB IDF : 1.0
Seqnum : 943325988008 File : mhe08 Time : 14-AUG-2013 14:44

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	14987	19.44	
75	30% - 60% of mass 95	41355	53.65	
95		77080	100.00	
96	5% - 9% of mass 95	5651	7.33	
173	< 2% of mass 174	324	0.62	
174	> 50% and < 100% of mass 95	52253	67.79	
175	5% - 9% of mass 174	3510	6.72	
176	> 95% and < 101% of mass 174	49997	95.68	
177	5% - 9% of mass 176	3389	6.78	

Analyst: BO Date: 08/15/13 Reviewer: SJD Date: 08/15/13

CURTIS & TOMPKINS BFB TUNE FOR 247902 MSVOA Water
EPA 8260B

Inst : MSVOA14 Run Name : BFB IDF : 1.0
Seqnum : 953314372003 File : nh603 Time : 06-AUG-2013 07:53

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	9545	17.44	
75	30% - 60% of mass 95	25195	46.05	
95		54715	100.00	
96	5% - 9% of mass 95	3601	6.58	
173	< 2% of mass 174	339	0.81	
174	> 50% and < 100% of mass 95	42101	76.95	
175	5% - 9% of mass 174	2895	6.88	
176	> 95% and < 101% of mass 174	40189	95.46	
177	5% - 9% of mass 176	2742	6.82	

Analyst: MCT Date: 08/07/13 Reviewer: SJD Date: 08/08/13

CURTIS & TOMPKINS BFB TUNE FOR 247902 MSVOA Water
EPA 8260B

Inst : MSVOA14 Run Name : BFB IDF : 1.0
Seqnum : 953325804002 File : nhe02 Time : 14-AUG-2013 07:16

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	9212	19.46	
75	30% - 60% of mass 95	22203	46.90	
95		47341	100.00	
96	5% - 9% of mass 95	3256	6.88	
173	< 2% of mass 174	452	1.25	
174	> 50% and < 100% of mass 95	36301	76.68	
175	5% - 9% of mass 174	2809	7.74	
176	> 95% and < 101% of mass 174	35072	96.61	
177	5% - 9% of mass 176	2393	6.82	

Analyst: MCT Date: 08/14/13 Reviewer: BO Date: 08/15/13

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 247902 MSVOA Water: EPA 8260B

Inst : MSVOA06 Name : 826GOX6W
Calnum : 453320921002 Date : 10-AUG-2013 22:49 Type : WATER
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	fha05	453320921005	.25PPB	10-AUG-2013 22:49	S23013 (2000000X), S21953 (4000000X), S22920 (2000000X), S21857 (2000000X), S22914 (5000X)
L2	fha06	453320921006	0.5PPB	10-AUG-2013 23:22	S23013 (1000000X), S21953 (2000000X), S22920 (1000000X), S21857 (1000000X), S22914 (5000X)
L3	fha07	453320921007	1PPB	10-AUG-2013 23:54	S23013 (500000X), S21953 (1000000X), S22920 (500000X), S21857 (500000X), S22914 (5000X)
L4	fha08	453320921008	2PPB	11-AUG-2013 00:27	S23013 (250000X), S21635 (500000X), S22920 (250000X), S21857 (250000X), S22914 (5000X)
L5	fha09	453320921009	5PPB	11-AUG-2013 01:00	S23013 (100000X), S21953 (200000X), S22920 (100000X), S21857 (100000X), S22914 (5000X)
L6	fha10	453320921010	10PPB	11-AUG-2013 01:33	S23013 (50000X), S21953 (100000X), S22920 (50000X), S21857 (50000X), S22914 (5000X)
L7	fha11	453320921011	20PPB	11-AUG-2013 02:07	S23013 (25000X), S21953 (50000X), S22920 (25000X), S21857 (25000X), S22914 (5000X)
L8	fha12	453320921012	50PPB	11-AUG-2013 02:40	S23013 (10000X), S21953 (20000X), S22920 (10000X), S21857 (10000X), S22914 (5000X)
L9	fha13	453320921013	75PPB	11-AUG-2013 03:14	S23013 (6667X), S21953 (13330X), S22920 (6667X), S21857 (6667X), S22914 (5000X)
L10	fha14	453320921014	100PPB	11-AUG-2013 03:47	S23013 (5000X), S21953 (10000X), S22920 (5000X), S21857 (5000X), S22914 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Chloromethane		2.0018m	1.9634m	1.7359m	1.4701	1.7307	1.5797m	1.6442	1.6763	1.6341	AVRG		0.58304		1.7151	10	15	0.10	0.99	
Vinyl Chloride		1.4927m	1.4829	1.4590	1.3387	1.3606	1.1916	1.3296	1.2961	1.2874	AVRG		0.73536		1.3599	7	15	0.05	0.99	
Bromomethane		0.6798m	0.7590m	0.7108m	0.6514m	0.7854	0.7135	0.7025	0.7332	0.7768	AVRG		1.38199		0.7236	6	15	0.05	0.99	
Chloroethane			1.0813	0.8832m	0.7686	0.9043	0.7647	0.7995	0.8100	0.8102	AVRG		1.17273		0.8527	12	15	0.05	0.99	
Trichlorofluoromethane			1.8101	1.6347	1.6569	1.6597	1.4716	1.6739	1.7149	1.6725	AVRG		0.60176		1.6618	6	15	0.05	0.99	
Freon 113		0.7242	0.8728	0.6915	0.7867	0.8953	0.6492	0.8067	0.8332	0.8019	AVRG		1.27451		0.7846	10	15	0.05	0.99	
1,1-Dichloroethene		0.6718	0.8079	0.6637	0.6947	0.7453	0.6171	0.7069	0.7143	0.7036	AVRG		1.42287		0.7028	8	15	0.05	0.99	
Methylene Chloride		0.8213	0.9234	0.9520	0.9109	0.9540	0.8598	0.8898	0.9097	0.8823	AVRG		1.11067		0.9004	5	15	0.05	0.99	
trans-1,2-Dichloroethene		0.9115	0.8991	0.8311	0.8009	0.8323	0.7435	0.7763	0.7884	0.7861	AVRG		1.22132		0.8188	7	15	0.05	0.99	
1,1-Dichloroethane		1.8257	2.0193	1.8167	1.8645	1.9299	1.7869	1.8424	1.8075	1.8032	AVRG		0.53905		1.8551	4	15	0.10	0.99	
cis-1,2-Dichloroethene		1.0653	1.0286	0.9146	0.9358	0.9610	0.8650	0.8980	0.9026	0.9026	AVRG		1.06212		0.9415	7	15	0.05	0.99	
Chloroform		1.8236	1.9838	1.7381	1.6735	1.8205	1.6314	1.7106	1.6721	1.6558	AVRG		0.57290		1.7455	6	15	0.05	0.99	
1,1,1-Trichloroethane		1.3578	1.4161	1.3062	1.3660	1.4121	1.2226	1.3254	1.2941	1.2869	AVRG		0.75081		1.3319	5	15	0.05	0.99	
Carbon Tetrachloride		0.4891	0.5369	0.4814	0.5294	0.5624	0.4713	0.5274	0.5358	0.5266	AVRG		1.93123		0.5178	6	15	0.05	0.99	
1,2-Dichloroethane		0.7564	0.7557	0.7034	0.6612	0.7223	0.7105	0.6995	0.6783	0.6662	AVRG		1.41656		0.7059	5	15	0.05	0.99	
Trichloroethene		0.4356	0.4467	0.3780	0.4097	0.4303	0.4031	0.4389	0.4431	0.4532	AVRG		2.34469		0.4265	6	15	0.05	0.99	
1,2-Dichloropropane		0.4586	0.4702	0.4860	0.4685	0.4897	0.4773	0.4901	0.4832	0.4844	AVRG		2.08914		0.4787	2	15	0.05	0.99	
Bromodichloromethane		0.6382	0.6742	0.6084	0.5916	0.6480	0.6176	0.6365	0.6343	0.6416	AVRG		1.58162		0.6323	4	15	0.05	0.99	
cis-1,3-Dichloropropene		0.6203	0.7003	0.5996	0.6283	0.6784	0.6543	0.7142	0.6998	0.6972	AVRG		1.50191		0.6658	6	15	0.05	0.99	
trans-1,3-Dichloropropene		0.6380	0.7054	0.6309	0.6615	0.7116	0.7100	0.7733	0.7339	0.7719	AVRG		1.42032		0.7041	7	15	0.05	0.99	
1,1,2-Trichloroethane		0.2326	0.2383	0.2085	0.2238	0.2214	0.2171	0.2460	0.2418	0.2434	AVRG		4.34196		0.2303	6	15	0.05	0.99	
Tetrachloroethene		0.3000	0.3710	0.3048	0.3430	0.3480	0.3034	0.3768	0.3824	0.3994	AVRG		2.87645		0.3477	11	15	0.05	0.99	
Dibromochloromethane		0.3577	0.3870	0.3948	0.4173	0.4472	0.4301	0.4935	0.4778	0.4979	AVRG		2.30578		0.4337	11	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Chlorobenzene		0.9839	1.0205	0.9137	0.8954	0.9617	0.8864	0.9692	0.9345	0.9848	AVRG		1.05262		0.9500	5	15	0.30	0.99	
Bromoform		0.2572	0.2465	0.2720	0.2683	0.2930	0.2855	0.3321	0.3329	0.3469	AVRG		3.41639		0.2927	12	15	0.10	0.99	
1,1,2,2-Tetrachloroethane		1.0454	1.0307	0.9875	1.0335	1.0041	0.9834	1.0710	1.0207	0.9878	AVRG		0.98209		1.0182	3	15	0.30	0.99	
1,3-Dichlorobenzene		1.1914	1.2051	1.0987	1.1642	1.2700	1.1689	1.2879	1.2912	1.3508	AVRG		0.81609		1.2254	6	15	0.05	0.99	
1,4-Dichlorobenzene		1.2826	1.2152	1.2199	1.2104	1.2710	1.1921	1.3264	1.3245	1.3886	AVRG		0.78736		1.2701	5	15	0.05	0.99	
1,2-Dichlorobenzene		0.9936	1.2671	1.0500	1.1001	1.2321	1.1145	1.2496	1.2409	1.3072	AVRG		0.85267		1.1728	9	15	0.05	0.99	
1,2-Dichloroethane-d4	0.5801	0.5904	0.5950	0.5800	0.5551	0.5897	0.5829	0.5474	0.5331	0.5268	AVRG		1.76047		0.5680	4	15	0.05	0.99	
Toluene-d8	1.3445	1.2907	1.3239	1.3180	1.3394	1.2977	1.3045	1.3108	1.2813	1.3297	AVRG		0.76101		1.3141	2	15	0.05	0.99	
Bromofluorobenzene	1.1272	1.0999	1.1367	1.1053	1.1154	1.1097	1.0620	1.0620	1.0286	1.0604	AVRG		0.91681		1.0907	3	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D	L10	%D
Chloromethane			0.5000	17	1.0000	14	2.0000	1	5.0000	-14	10.000	1	20.000	-8	50.000	-4	75.000	-2	100.00	-5
Vinyl Chloride			0.5000	10	1.0000	9	2.0000	7	5.0000	-2	10.000	0	20.000	-12	50.000	-2	75.000	-5	100.00	-5
Bromomethane			0.5000	-6	1.0000	5	2.0000	-2	5.0000	-10	10.000	9	20.000	-1	50.000	-3	75.000	1	100.00	7
Chloroethane					1.0000	**27**	2.0000	4	5.0000	-10	10.000	6	20.000	-10	50.000	-6	75.000	-5	100.00	-5
Trichlorofluoromethane					1.0000	9	2.0000	-2	5.0000	0	10.000	0	20.000	-11	50.000	1	75.000	3	100.00	1
Freon 113			0.5000	-8	1.0000	11	2.0000	-12	5.0000	0	10.000	14	20.000	-17	50.000	3	75.000	6	100.00	2
1,1-Dichloroethene			0.5000	-4	1.0000	15	2.0000	-6	5.0000	-1	10.000	6	20.000	-12	50.000	1	75.000	2	100.00	0
Methylene Chloride			0.5000	-9	1.0000	3	2.0000	6	5.0000	1	10.000	6	20.000	-5	50.000	-1	75.000	1	100.00	-2
trans-1,2-Dichloroethene			0.5000	11	1.0000	10	2.0000	2	5.0000	-2	10.000	2	20.000	-9	50.000	-5	75.000	-4	100.00	-4
1,1-Dichloroethane			0.5000	-2	1.0000	9	2.0000	-2	5.0000	1	10.000	4	20.000	-4	50.000	-1	75.000	-3	100.00	-3
cis-1,2-Dichloroethene			0.5000	13	1.0000	9	2.0000	-3	5.0000	-1	10.000	2	20.000	-8	50.000	-5	75.000	-4	100.00	-4
Chloroform			0.5000	4	1.0000	14	2.0000	0	5.0000	-4	10.000	4	20.000	-7	50.000	-2	75.000	-4	100.00	-5
1,1,1-Trichloroethane			0.5000	2	1.0000	6	2.0000	-2	5.0000	3	10.000	6	20.000	-8	50.000	0	75.000	-3	100.00	-3
Carbon Tetrachloride			0.5000	-6	1.0000	4	2.0000	-7	5.0000	2	10.000	9	20.000	-9	50.000	2	75.000	3	100.00	2
1,2-Dichloroethane			0.5000	7	1.0000	7	2.0000	0	5.0000	-6	10.000	2	20.000	1	50.000	-1	75.000	-4	100.00	-6
Trichloroethene			0.5000	2	1.0000	5	2.0000	-11	5.0000	-4	10.000	1	20.000	-5	50.000	3	75.000	4	100.00	6
1,2-Dichloropropane			0.5000	-4	1.0000	-2	2.0000	2	5.0000	-2	10.000	2	20.000	0	50.000	2	75.000	1	100.00	1
Bromodichloromethane			0.5000	1	1.0000	7	2.0000	-4	5.0000	-6	10.000	2	20.000	-2	50.000	1	75.000	0	100.00	1
cis-1,3-Dichloropropene			0.5000	-7	1.0000	5	2.0000	-10	5.0000	-6	10.000	2	20.000	-2	50.000	7	75.000	5	100.00	5
trans-1,3-Dichloropropene			0.5000	-9	1.0000	0	2.0000	-10	5.0000	-6	10.000	1	20.000	1	50.000	10	75.000	4	100.00	10
1,1,2-Trichloroethane			0.5000	1	1.0000	3	2.0000	-9	5.0000	-3	10.000	-4	20.000	-6	50.000	7	75.000	5	100.00	6
Tetrachloroethene			0.5000	-14	1.0000	7	2.0000	-12	5.0000	-1	10.000	0	20.000	-13	50.000	8	75.000	10	100.00	15
Dibromochloromethane			0.5000	-18	1.0000	-11	2.0000	-9	5.0000	-4	10.000	3	20.000	-1	50.000	14	75.000	10	100.00	15
Chlorobenzene			0.5000	4	1.0000	7	2.0000	-4	5.0000	-6	10.000	1	20.000	-7	50.000	2	75.000	-2	100.00	4
Bromoform			0.5000	-12	1.0000	-16	2.0000	-7	5.0000	-8	10.000	0	20.000	-2	50.000	13	75.000	14	100.00	19
1,1,2,2-Tetrachloroethane			0.5000	3	1.0000	1	2.0000	-3	5.0000	2	10.000	-1	20.000	-3	50.000	5	75.000	0	100.00	-3
1,3-Dichlorobenzene			0.5000	-3	1.0000	-2	2.0000	-10	5.0000	-5	10.000	4	20.000	-5	50.000	5	75.000	5	100.00	10
1,4-Dichlorobenzene			0.5000	1	1.0000	-4	2.0000	-4	5.0000	-5	10.000	0	20.000	-6	50.000	4	75.000	4	100.00	9
1,2-Dichlorobenzene			0.5000	-15	1.0000	8	2.0000	-10	5.0000	-6	10.000	5	20.000	-5	50.000	7	75.000	6	100.00	11
1,2-Dichloroethane-d4	50.000	2	50.000	4	50.000	5	50.000	2	50.000	-2	50.000	4	50.000	3	50.000	-4	50.000	-6	50.000	-7
Toluene-d8	50.000	2	50.000	-2	50.000	1	50.000	0	50.000	2	50.000	-1	50.000	-1	50.000	0	50.000	-2	50.000	1
Bromofluorobenzene	50.000	3	50.000	1	50.000	4	50.000	1	50.000	2	50.000	2	50.000	-3	50.000	-3	50.000	-6	50.000	-3

DAR 08/12/13 [Freon 12]: Combined split peak in multiple levels.

DAR 08/12/13 [Chloromethane]: Combined split peak in multiple levels.

DAR 08/12/13 [Bromomethane]: Combined split peak in multiple levels.

DAR 08/12/13 [Vinyl Chloride]: Combined split peak in 0.5PPB (fha06).

DAR 08/12/13 [Chloroethane]: Combined split peak in 2PPB (fha08).

DAR 08/12/13 [Methyl tert-Amyl Ether (TAME)]: Combined split peak in 0.5PPB (fha06).

DAR 08/12/13 [Vinyl Acetate]: Corrected automatically drawn baseline in multiple levels.

DAR 08/12/13 [Ethanol]: Combined split peak in multiple levels.

DAR 08/12/13 [Isopropanol]: Combined split peak in multiple levels.

DAR 08/14/13 [Isopropanol]: This calibration is not good for Isopropanol

DAR 08/14/13 [Ethanol]: ICV out low -38% for Ethanol

Analyst: DAR Date: 08/14/13 Reviewer: SJD Date: 08/15/13

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 247902 MSVOA Water
EPA 8260B

Inst : MSVOA06 Name : 826GOX6W
Calnum : 453320921002 Cal Date : 10-AUG-2013 Type : WATER

ICV 453320921015 (fha15 11-AUG-2013) stds: S22793 (10000X), S22914 (5000X)
ICV 453320921016 (fha16 11-AUG-2013) stds: S22975 (10000X), S22927 (10000X), S22609 (10000X), S22914 (5000X)

Analyte	ICV Seqnum	Spiked	Quant	Units	%D	Max	Flags
Chloromethane	453320921015	20.00	17.20	ug/L	-14	30	
Vinyl Chloride	453320921015	20.00	19.04	ug/L	-5	20	
Bromomethane	453320921015	20.00	15.37	ug/L	**-23**	30	!v-
Chloroethane	453320921015	20.00	18.73	ug/L	-6	30	
Trichlorofluoromethane	453320921015	20.00	18.96	ug/L	-5	30	
Freon 113	453320921016	25.00	26.61	ug/L	6	30	
1,1-Dichloroethene	453320921016	25.00	25.51	ug/L	2	20	
Methylene Chloride	453320921016	25.00	26.32	ug/L	5	30	
trans-1,2-Dichloroethene	453320921016	25.00	25.75	ug/L	3	30	
1,1-Dichloroethane	453320921016	25.00	22.80	ug/L	-9	30	
cis-1,2-Dichloroethene	453320921016	25.00	25.12	ug/L	0	30	
Chloroform	453320921016	25.00	23.69	ug/L	-5	20	
1,1,1-Trichloroethane	453320921016	25.00	24.18	ug/L	-3	30	
Carbon Tetrachloride	453320921016	25.00	25.38	ug/L	2	30	
1,2-Dichloroethane	453320921016	25.00	26.18	ug/L	5	30	
Trichloroethene	453320921016	25.00	28.22	ug/L	13	30	
1,2-Dichloropropane	453320921016	25.00	25.56	ug/L	2	20	
Bromodichloromethane	453320921016	25.00	26.13	ug/L	5	30	
cis-1,3-Dichloropropene	453320921016	25.00	28.95	ug/L	16	30	
trans-1,3-Dichloropropene	453320921016	25.00	25.59	ug/L	2	30	
1,1,2-Trichloroethane	453320921016	25.00	26.84	ug/L	7	30	
Tetrachloroethene	453320921016	25.00	25.49	ug/L	2	30	
Dibromochloromethane	453320921016	25.00	28.05	ug/L	12	30	
Chlorobenzene	453320921016	25.00	27.42	ug/L	10	30	
Bromoform	453320921016	25.00	26.62	ug/L	6	30	
1,1,2,2-Tetrachloroethane	453320921016	25.00	25.44	ug/L	2	30	
1,3-Dichlorobenzene	453320921016	25.00	27.88	ug/L	12	30	
1,4-Dichlorobenzene	453320921016	25.00	26.33	ug/L	5	30	
1,2-Dichlorobenzene	453320921016	25.00	27.95	ug/L	12	30	

453320921015: Analyst: DAR Date: 08/14/13 Reviewer: SJD Date: 08/15/13
453320921016: Analyst: DAR Date: 08/14/13 Reviewer: SJD Date: 08/15/13

!=warning -=low bias v=ICV

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 247902 MSVOA Water: EPA 8260B

Inst : MSVOA08 Name : 826GOX8
Calnum : 473114230005 Date : 20-MAR-2013 15:46 Type : WATER
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	hck10	473114230010		20-MAR-2013 15:46	S21889 (2000000X), S21576 (1000000X), S21635 (2000000X), S21908 (2000000X), S21822 (5000X)
L2	hck11	473114230011		20-MAR-2013 16:23	S21889 (1000000X), S21576 (500000X), S21635 (1000000X), S21908 (1000000X), S21822 (5000X)
L3	hck12	473114230012		20-MAR-2013 17:00	S21889 (250000X), S21576 (250000X), S21635 (500000X), S21908 (250000X), S21822 (5000X)
L4	hck13	473114230013		20-MAR-2013 17:40	S21889 (100000X), S21576 (100000X), S21635 (200000X), S21908 (100000X), S21822 (5000X)
L5	hck14	473114230014		20-MAR-2013 18:18	S21889 (50000X), S21576 (50000X), S21635 (100000X), S21908 (50000X), S21822 (5000X)
L6	hck15	473114230015		20-MAR-2013 18:55	S21889 (25000X), S21576 (25000X), S21635 (50000X), S21908 (25000X), S21822 (5000X)
L7	hck16	473114230016		20-MAR-2013 19:32	S21889 (10000X), S21576 (10000X), S21635 (20000X), S21908 (10000X), S21822 (5000X)
L8	hck17	473114230017		20-MAR-2013 20:10	S21889 (6667X), S21576 (6667X), S21635 (13330X), S21908 (6667X), S21822 (5000X)
L9	hck18	473114230018		20-MAR-2013 21:08	S21889 (5000X), S21576 (5000X), S21635 (10000X), S21908 (5000X), S21822 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Chloromethane	0.9791	0.9239m	0.9947	0.8273	0.8638	0.8558	0.8198	0.7010	0.6768	AVRG		1.17765		0.8491	13	15	0.10	0.99	
Vinyl Chloride	0.7662	0.6398	0.7271	0.5984	0.6155	0.6641	0.6258	0.5646	0.5390	AVRG		1.56779		0.6378	11	15	0.05	0.99	
Bromomethane		0.3013m	0.4298m	0.3692	0.3863	0.4252	0.4059	0.3916	0.3808	AVRG		2.58886		0.3863	10	15	0.05	0.99	
Chloroethane		0.3466	0.4026	0.3451	0.3367	0.3558	0.3384	0.3151	0.2995	AVRG		2.91998		0.3425	9	15	0.05	0.99	
Trichlorofluoromethane		0.6748	0.7185	0.6067	0.5966	0.6635	0.6448	0.6006	0.5934	AVRG		1.56899		0.6374	7	15	0.05	0.99	
Freon 113		0.4332	0.5352	0.4485	0.4253	0.4844	0.4932	0.4567	0.4418	AVRG		2.15157		0.4648	8	15	0.05	0.99	
1,1-Dichloroethene		0.4741	0.5506	0.4390	0.4832	0.4900	0.4946	0.4531	0.4459	AVRG		2.08855		0.4788	7	15	0.05	0.99	
Methylene Chloride		0.6388	0.6687	0.5796	0.6438	0.6399	0.6207	0.5630	0.5594	AVRG		1.62806		0.6142	7	15	0.05	0.99	
trans-1,2-Dichloroethene		0.5135	0.5843	0.5184	0.5586	0.5643	0.5587	0.5079	0.4989	AVRG		1.85852		0.5381	6	15	0.05	0.99	
1,1-Dichloroethane		1.0574	1.2250	0.9754	1.0828	1.0661	1.0301	0.9321	0.8996	AVRG		0.96754		1.0335	10	15	0.10	0.99	
cis-1,2-Dichloroethene		0.5888	0.6660	0.5357	0.6130	0.6091	0.5998	0.5508	0.5426	AVRG		1.70000		0.5882	7	15	0.05	0.99	
Chloroform		0.9104	1.0458	0.8736	0.9803	0.9649	0.9411	0.8488	0.8317	AVRG		1.08157		0.9246	8	15	0.05	0.99	
1,1,1-Trichloroethane		0.6679	0.7283	0.5800	0.6440	0.6570	0.6567	0.6110	0.5906	AVRG		1.55780		0.6419	7	15	0.05	0.99	
Carbon Tetrachloride		0.3072	0.3654	0.3158	0.3416	0.3643	0.3633	0.3509	0.3340	AVRG		2.91721		0.3428	7	15	0.05	0.99	
1,2-Dichloroethane		0.4102	0.4259	0.3692	0.3895	0.3933	0.3773	0.3623	0.3508	AVRG		2.59859		0.3848	7	15	0.05	0.99	
Trichloroethene		0.3186	0.3703	0.2964	0.3381	0.3410	0.3313	0.3201	0.3075	AVRG		3.04956		0.3279	7	15	0.05	0.99	
1,2-Dichloropropane		0.3864	0.4175	0.3396	0.3791	0.3832	0.3620	0.3349	0.3168	AVRG		2.74021		0.3649	9	15	0.05	0.99	
Bromodichloromethane		0.3769	0.4403	0.3762	0.4272	0.4308	0.4235	0.4055	0.3940	AVRG		2.44325		0.4093	6	15	0.05	0.99	
cis-1,3-Dichloropropene		0.4323	0.5096	0.4373	0.4928	0.4862	0.4801	0.4550	0.4419	AVRG		2.14186		0.4669	6	15	0.05	0.99	
trans-1,3-Dichloropropene		0.4479	0.5261	0.4620	0.5050	0.5214	0.5163	0.4867	0.4772	AVRG		2.02917		0.4928	6	15	0.05	0.99	
1,1,2-Trichloroethane		0.1408	0.1726	0.1611	0.1697	0.1687	0.1716	0.1636	0.1614	AVRG		6.10856		0.1637	6	15	0.05	0.99	
Tetrachloroethene		0.3642	0.3963	0.3255	0.3401	0.3543	0.3530	0.3430	0.3336	AVRG		2.84702		0.3512	6	15	0.05	0.99	
Dibromochloromethane		0.2976	0.3656	0.3193	0.3635	0.3736	0.3810	0.3767	0.3764	AVRG		2.80343		0.3567	9	15	0.05	0.99	
Chlorobenzene		0.9822	1.1174	0.9190	1.0266	1.0033	0.9377	0.8726	0.8270	AVRG		1.04087		0.9607	10	15	0.30	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Bromoform		0.1424	0.1879	0.1754	0.1898	0.2032	0.2163	0.2217	0.2337	AVRG		5.09409		0.1963	15	15	0.10	0.99	
1,1,2,2-Tetrachloroethane		0.5836	0.6565	0.6297	0.6676	0.6668	0.6251	0.5915	0.5906	AVRG		1.59631		0.6264	6	15	0.30	0.99	
1,3-Dichlorobenzene		1.6121	1.6237	1.3606	1.5203	1.4872	1.3710	1.2822	1.1718	AVRG		0.69998		1.4286	11	15	0.05	0.99	
1,4-Dichlorobenzene		1.5744	1.5960	1.3186	1.4945	1.4683	1.3548	1.2428	1.1609	AVRG		0.71363		1.4013	11	15	0.05	0.99	
1,2-Dichlorobenzene		1.4518	1.5532	1.3292	1.4868	1.4403	1.3427	1.2506	1.1908	AVRG		0.72428		1.3807	9	15	0.05	0.99	
1,2-Dichloroethane-d4	0.3285	0.3158	0.3222	0.3223	0.3053	0.3057	0.2878	0.2763	0.2733	AVRG		3.28802		0.3041	7	15	0.05	0.99	
Toluene-d8	1.2132	1.2073	1.2265	1.2020	1.2150	1.2227	1.2015	1.2046	1.2115	AVRG		0.82537		1.2116	1	15	0.05	0.99	
Bromofluorobenzene	0.9812	0.9792	0.9538	0.9701	0.9884	0.9947	0.9315	0.9215	0.9161	AVRG		1.04209		0.9596	3	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Chloromethane	0.5000	15	1.0000	9	2.0000	17	5.0000	-3	10.000	2	20.000	1	50.000	-3	75.000	-17	100.00	-20
Vinyl Chloride	0.5000	20	1.0000	0	2.0000	14	5.0000	-6	10.000	-3	20.000	4	50.000	-2	75.000	-11	100.00	-15
Bromomethane			1.0000	**-22**	2.0000	11	5.0000	-4	10.000	0	20.000	10	50.000	5	75.000	1	100.00	-1
Chloroethane			1.0000	1	2.0000	18	5.0000	1	10.000	-2	20.000	4	50.000	-1	75.000	-8	100.00	-13
Trichlorofluoromethane			1.0000	6	2.0000	13	5.0000	-5	10.000	-6	20.000	4	50.000	1	75.000	-6	100.00	-7
Freon 113			0.5000	-7	2.0000	15	5.0000	-3	10.000	-9	20.000	4	50.000	6	75.000	-2	100.00	-5
1,1-Dichloroethene			0.5000	-1	2.0000	15	5.0000	-8	10.000	1	20.000	2	50.000	3	75.000	-5	100.00	-7
Methylene Chloride			0.5000	4	2.0000	9	5.0000	-6	10.000	5	20.000	4	50.000	1	75.000	-8	100.00	-9
trans-1,2-Dichloroethene			0.5000	-5	2.0000	9	5.0000	-4	10.000	4	20.000	5	50.000	4	75.000	-6	100.00	-7
1,1-Dichloroethane			0.5000	2	2.0000	19	5.0000	-6	10.000	5	20.000	3	50.000	0	75.000	-10	100.00	-13
cis-1,2-Dichloroethene			0.5000	0	2.0000	13	5.0000	-9	10.000	4	20.000	4	50.000	2	75.000	-6	100.00	-8
Chloroform			0.5000	-2	2.0000	13	5.0000	-6	10.000	6	20.000	4	50.000	2	75.000	-8	100.00	-10
1,1,1-Trichloroethane			0.5000	4	2.0000	13	5.0000	-10	10.000	0	20.000	2	50.000	2	75.000	-5	100.00	-8
Carbon Tetrachloride			0.5000	-10	2.0000	7	5.0000	-8	10.000	0	20.000	6	50.000	6	75.000	2	100.00	-3
1,2-Dichloroethane			0.5000	7	2.0000	11	5.0000	-4	10.000	1	20.000	2	50.000	-2	75.000	-6	100.00	-9
Trichloroethene			0.5000	-3	2.0000	13	5.0000	-10	10.000	3	20.000	4	50.000	1	75.000	-2	100.00	-6
1,2-Dichloropropane			0.5000	6	2.0000	14	5.0000	-7	10.000	4	20.000	5	50.000	-1	75.000	-8	100.00	-13
Bromodichloromethane			0.5000	-8	2.0000	8	5.0000	-8	10.000	4	20.000	5	50.000	3	75.000	-1	100.00	-4
cis-1,3-Dichloropropene			0.5000	-7	2.0000	9	5.0000	-6	10.000	6	20.000	4	50.000	3	75.000	-3	100.00	-5
trans-1,3-Dichloropropene			0.5000	-9	2.0000	7	5.0000	-6	10.000	2	20.000	6	50.000	5	75.000	-1	100.00	-3
1,1,2-Trichloroethane			0.5000	-14	2.0000	5	5.0000	-2	10.000	4	20.000	3	50.000	5	75.000	0	100.00	-1
Tetrachloroethene			0.5000	4	2.0000	13	5.0000	-7	10.000	-3	20.000	1	50.000	0	75.000	-2	100.00	-5
Dibromochloromethane			0.5000	-17	2.0000	2	5.0000	-10	10.000	2	20.000	5	50.000	7	75.000	6	100.00	6
Chlorobenzene			0.5000	2	2.0000	16	5.0000	-4	10.000	7	20.000	4	50.000	-2	75.000	-9	100.00	-14
Bromoform			0.5000	**-27**	2.0000	-4	5.0000	-11	10.000	-3	20.000	4	50.000	10	75.000	13	100.00	19
1,1,2,2-Tetrachloroethane			0.5000	-7	2.0000	5	5.0000	1	10.000	7	20.000	6	50.000	0	75.000	-6	100.00	-6
1,3-Dichlorobenzene			0.5000	13	2.0000	14	5.0000	-5	10.000	6	20.000	4	50.000	-4	75.000	-10	100.00	-18
1,4-Dichlorobenzene			0.5000	12	2.0000	14	5.0000	-6	10.000	7	20.000	5	50.000	-3	75.000	-11	100.00	-17
1,2-Dichlorobenzene			0.5000	5	2.0000	12	5.0000	-4	10.000	8	20.000	4	50.000	-3	75.000	-9	100.00	-14
1,2-Dichloroethane-d4	50.000	8	50.000	4	50.000	6	50.000	6	50.000	0	50.000	1	50.000	-5	50.000	-9	50.000	-10
Toluene-d8	50.000	0	50.000	0	50.000	1	50.000	-1	50.000	0	50.000	1	50.000	-1	50.000	-1	50.000	0
Bromofluorobenzene	50.000	2	50.000	2	50.000	-1	50.000	1	50.000	3	50.000	4	50.000	-3	50.000	-4	50.000	-5

MJB 03/22/13 [Chloromethane]: Combined split peak in (hck11).

MJB 03/22/13 [Bromomethane]: Corrected baseline noise or negative peak in (hck11).

MJB 03/22/13 [Ethanol]: Corrected baseline noise or negative peak in (hck11).

MJB 03/22/13 [Acetone]: Corrected baseline noise or negative peak in multiple levels.

MJB 03/22/13 [Isopropanol]: Corrected baseline noise or negative peak in (hck11).

MJB 03/22/13 [2-Butanone]: Corrected baseline noise or negative peak in multiple levels.

MJB 03/22/13 [Bromomethane]: Combined split peak in (hck12).

Analyst: MJB Date: 03/22/13 Reviewer: LW Date: 03/22/13

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 247902 MSVOA Water
EPA 8260B

Inst : MSVOA08 Name : 826GOX8
Calnum : 473114230005 Cal Date : 20-MAR-2013 Type : WATER

ICV 473114230019 (hck19 20-MAR-2013) stds: S21932 (10000X), S21822 (5000X)
ICV 473114230020 (hck20 20-MAR-2013) stds: S21957 (10000X), S21915 (10000X), S21822 (5000X), S21791 (10000X)

Analyte	ICV Seqnum	Spiked	Quant	Units	%D	Max	Flags
Chloromethane	473114230019	20.00	16.09	ug/L	-20	30	
Vinyl Chloride	473114230019	20.00	18.99	ug/L	-5	20	
Bromomethane	473114230019	20.00	15.85	ug/L	**-21**	30	!v-
Chloroethane	473114230019	20.00	18.63	ug/L	-7	30	
Trichlorofluoromethane	473114230019	20.00	19.27	ug/L	-4	30	
Freon 113	473114230020	25.00	25.53	ug/L	2	30	
1,1-Dichloroethene	473114230020	25.00	25.32	ug/L	1	20	
Methylene Chloride	473114230020	25.00	25.90	ug/L	4	30	
trans-1,2-Dichloroethene	473114230020	25.00	27.09	ug/L	8	30	
1,1-Dichloroethane	473114230020	25.00	25.25	ug/L	1	30	
cis-1,2-Dichloroethene	473114230020	25.00	26.01	ug/L	4	30	
Chloroform	473114230020	25.00	25.54	ug/L	2	20	
1,1,1-Trichloroethane	473114230020	25.00	26.12	ug/L	4	30	
Carbon Tetrachloride	473114230020	25.00	27.95	ug/L	12	30	
1,2-Dichloroethane	473114230020	25.00	26.21	ug/L	5	30	
Trichloroethene	473114230020	25.00	26.78	ug/L	7	30	
1,2-Dichloropropane	473114230020	25.00	25.48	ug/L	2	20	
Bromodichloromethane	473114230020	25.00	26.87	ug/L	7	30	
cis-1,3-Dichloropropene	473114230020	25.00	30.27	ug/L	**21**	30	!v+
trans-1,3-Dichloropropene	473114230020	25.00	26.97	ug/L	8	30	
1,1,2-Trichloroethane	473114230020	25.00	27.91	ug/L	12	30	
Tetrachloroethene	473114230020	25.00	26.89	ug/L	8	30	
Dibromochloromethane	473114230020	25.00	27.46	ug/L	10	30	
Chlorobenzene	473114230020	25.00	25.05	ug/L	0	30	
Bromoform	473114230020	25.00	31.12	ug/L	**24**	30	!v+
1,1,2,2-Tetrachloroethane	473114230020	25.00	27.84	ug/L	11	30	
1,3-Dichlorobenzene	473114230020	25.00	24.26	ug/L	-3	30	
1,4-Dichlorobenzene	473114230020	25.00	26.09	ug/L	4	30	
1,2-Dichlorobenzene	473114230020	25.00	25.00	ug/L	0	30	

473114230019: Analyst: MJB Date: 03/22/13 Reviewer: LW Date: 03/22/13
473114230020: Analyst: MJB Date: 03/22/13 Reviewer: LW Date: 03/22/13

!=warning +=high bias -=low bias v=ICV

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 247902 MSVOA Water: EPA 8260B

Inst : MSVOA13
Calnum : 943295688001 Date : 24-JUL-2013 12:44
Units : ug/L

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	mgo10	943295688010	.25/.5PPB	24-JUL-2013 12:44	S21953 (2000000X), S22575 (2000000X), S22920 (2000000X), S22141 (1000000X), S22908 (2500X)
L2	mgo11	943295688011	0.5/1PPB	24-JUL-2013 13:12	S21953 (1000000X), S22575 (1000000X), S22920 (1000000X), S22141 (500000X), S22908 (2500X)
L3	mgo12	943295688012	2PPB	24-JUL-2013 13:40	S21953 (500000X), S22575 (250000X), S22920 (250000X), S22141 (250000X), S22908 (2500X)
L4	mgo13	943295688013	5PPB	24-JUL-2013 14:08	S21953 (200000X), S22575 (100000X), S22920 (100000X), S22141 (100000X), S22908 (2500X)
L5	mgo14	943295688014	10PPB	24-JUL-2013 14:36	S21953 (100000X), S22575 (50000X), S22920 (50000X), S22141 (50000X), S22908 (2500X)
L6	mgo15	943295688015	20PPB	24-JUL-2013 15:04	S21953 (50000X), S22575 (25000X), S22920 (25000X), S22141 (25000X), S22908 (2500X)
L7	mgo16	943295688016	50PPB	24-JUL-2013 15:33	S21953 (20000X), S22575 (10000X), S22920 (10000X), S22141 (10000X), S22908 (2500X)
L8	mgo17	943295688017	75PPB	24-JUL-2013 16:01	S21953 (13330X), S22575 (6667X), S22920 (6667X), S22141 (6667X), S22908 (2500X)
L9	mgo18	943295688018	100PPB	24-JUL-2013 16:29	S21953 (10000X), S22575 (5000X), S22920 (5000X), S22141 (5000X), S22908 (2500X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	X	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Chloromethane	1.0973	1.0557	1.0956	1.1461	1.1427	1.1240	1.0247	0.9927	1.0140	AVRG	R		0.92854		1.0770	5	15	0.10	0.99	
Vinyl Chloride	0.9579	1.0231	1.0536	1.0060	1.0218	1.0613	0.9720	1.0134	0.9669	AVRG	R		0.99163		1.0084	4	15	0.05	0.99	
Bromomethane		0.4247	0.4463	0.4821	0.4619	0.4500	0.3855	0.3466	0.3419	AVRG	R		2.39586		0.4174	13	15	0.05	0.99	
Chloroethane		0.6453	0.6324	0.7807	0.6245	0.6159	0.6015	0.5614	0.5043	AVRG	R		1.61098		0.6207	13	15	0.05	0.99	
Trichlorofluoromethane		1.3507	1.3210	1.2673	1.2745	1.3524	1.2263	1.3281	1.3282	AVRG	R		0.76567		1.3060	3	15	0.05	0.99	
Freon 113			0.4674	0.4697	0.4287	0.4665	0.5956			AVRG	R		2.05946		0.4856	13	15	0.05	0.99	
1,1-Dichloroethene		0.4210	0.4473	0.4853	0.4491	0.4715	0.5430	0.5877	0.5923	AVRG	R		2.00138		0.4997	13	15	0.05	0.99	
Methylene Chloride		0.7622	0.7592	0.8263	0.7725	0.7667	0.7293	0.7481	0.7573	AVRG	R		1.30685		0.7652	4	15	0.05	0.99	
trans-1,2-Dichloroethene		0.6135	0.6238	0.6493	0.6017	0.6086	0.6508	0.6792	0.6883	AVRG	R		1.56398		0.6394	5	15	0.05	0.99	
1,1-Dichloroethane		1.5207	1.6461	1.7476	1.6387	1.6429	1.6518	1.6913	1.6866	AVRG	R		0.60488		1.6532	4	15	0.10	0.99	
cis-1,2-Dichloroethene		0.7801	0.7453	0.7876	0.7475	0.7639	0.7545	0.7776	0.7925	AVRG	R		1.30104		0.7686	2	15	0.05	0.99	
Chloroform		1.3632	1.4230	1.5283	1.4530	1.4500	1.4360	1.4488	1.4600	AVRG	R		0.69190		1.4453	3	15	0.05	0.99	
1,1,1-Trichloroethane		0.9086	1.0378	1.1180	1.0266	1.0567	1.2036	1.2697	1.2556	AVRG	R		0.90124		1.1096	11	15	0.05	0.99	
Carbon Tetrachloride		0.3044	0.3831	0.4024	0.3842	0.4084	0.5159	0.5552		QUAD	A	-0.2024	0.40561	0.002066	0.4220	0.999	15	0.05	0.99	
1,2-Dichloroethane		0.7341	0.7213	0.7879	0.7531	0.7527	0.7251	0.7204	0.7036	AVRG	R		1.35631		0.7373	4	15	0.05	0.99	
Trichloroethene		0.3911	0.4022	0.4284	0.3918	0.3960	0.4302	0.4485	0.4512	AVRG	R		2.39567		0.4174	6	15	0.05	0.99	
1,2-Dichloropropane		0.5084m	0.5151	0.5387	0.5212m	0.5229	0.5257	0.5355	0.5403	AVRG	R		1.90130		0.5260	2	15	0.05	0.99	
Bromodichloromethane		0.4918	0.5126	0.5937	0.5773	0.5941	0.6087	0.6186	0.6264	AVRG	R		1.73038		0.5779	9	15	0.05	0.99	
cis-1,3-Dichloropropene		0.5814	0.6155	0.7204	0.7097	0.7508	0.7672	0.7891	0.7940	AVRG	R		1.39661		0.7160	11	15	0.05	0.99	
trans-1,3-Dichloropropene		0.5913	0.6461	0.7503	0.7547	0.8133	0.8125	0.8414	0.8510	AVRG	R		1.32001		0.7576	12	15	0.05	0.99	
1,1,2-Trichloroethane		0.2176	0.2251	0.2584	0.2443	0.2457	0.2337	0.2419	0.2427	AVRG	R		4.18999		0.2387	5	15	0.05	0.99	
Tetrachloroethene		0.2394	0.2850	0.2804	0.2625	0.2595	0.3036	0.3323	0.3365	AVRG	R		3.47948		0.2874	12	15	0.05	0.99	
Dibromochloromethane		0.2774	0.3002	0.3621	0.3571	0.3773	0.3835	0.4061	0.4159	AVRG	R		2.77821		0.3599	13	15	0.05	0.99	
Chlorobenzene		1.1302	1.1512	1.1973	1.1211	1.1160	1.1233	1.1796	1.1965	AVRG	R		0.86814		1.1519	3	15	0.30	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	X	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Bromoform		0.1347	0.1564	0.1893	0.1983	0.2182	0.2360			QUAD	A	-0.0912	0.20825	5.943E-4	0.1888	1.000	15	0.10	0.99	
1,1,2,2-Tetrachloroethane		1.2092	1.2528	1.3844	1.3424	1.3414	1.2860	1.3098	1.3332	AVRG	R		0.76488		1.3074	4	15	0.30	0.99	
1,3-Dichlorobenzene		1.6419	1.6596	1.7510	1.6766	1.6305	1.6318	1.6902	1.7283	AVRG	R		0.59657		1.6762	3	15	0.05	0.99	
1,4-Dichlorobenzene		1.9177	1.8044	1.8974	1.7765	1.7222	1.7127	1.7543	1.8062	AVRG	R		0.55589		1.7989	4	15	0.05	0.99	
1,2-Dichlorobenzene		1.5736	1.6271	1.7390	1.6527	1.6350	1.5854	1.6418	1.6673	AVRG	R		0.60967		1.6402	3	15	0.05	0.99	
1,2-Dichloroethane-d4	0.5437	0.5506	0.5612	0.5693	0.5630	0.5716	0.5796	0.5665	0.5413	AVRG	R		1.78330		0.5608	2	15	0.05	0.99	
Toluene-d8	1.5104	1.5061	1.5183	1.5203	1.5271	1.5194	1.4924	1.4840	1.4877	AVRG	R		0.66343		1.5073	1	15	0.05	0.99	
Bromofluorobenzene	1.3496	1.3641	1.3461	1.3528	1.3658	1.3595	1.3521	1.3100	1.3417	AVRG	R		0.74125		1.3491	1	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Chloromethane	0.5000	2	1.0000	-2	2.0000	2	5.0000	6	10.000	6	20.000	4	50.000	-5	75.000	-8	100.00	-6
Vinyl Chloride	0.5000	-5	1.0000	1	2.0000	4	5.0000	0	10.000	1	20.000	5	50.000	-4	75.000	0	100.00	-4
Bromomethane			1.0000	2	2.0000	7	5.0000	16	10.000	11	20.000	8	50.000	-8	75.000	-17	100.00	-18
Chloroethane			1.0000	4	2.0000	2	5.0000	**26**	10.000	1	20.000	-1	50.000	-3	75.000	-10	100.00	-19
Trichlorofluoromethane			1.0000	3	2.0000	1	5.0000	-3	10.000	-2	20.000	4	50.000	-6	75.000	2	100.00	2
Freon 113					2.0000	-4	5.0000	-3	10.000	-12	20.000	-4	50.000	**23**				
1,1-Dichloroethene			0.5000	-16	2.0000	-10	5.0000	-3	10.000	-10	20.000	-6	50.000	9	75.000	18	100.00	19
Methylene Chloride			0.5000	0	2.0000	-1	5.0000	8	10.000	1	20.000	0	50.000	-5	75.000	-2	100.00	-1
trans-1,2-Dichloroethene			0.5000	-4	2.0000	-2	5.0000	2	10.000	-6	20.000	-5	50.000	2	75.000	6	100.00	8
1,1-Dichloroethane			0.5000	-8	2.0000	0	5.0000	6	10.000	-1	20.000	-1	50.000	0	75.000	2	100.00	2
cis-1,2-Dichloroethene			0.5000	1	2.0000	-3	5.0000	2	10.000	-3	20.000	-1	50.000	-2	75.000	1	100.00	3
Chloroform			0.5000	-6	2.0000	-2	5.0000	6	10.000	1	20.000	0	50.000	-1	75.000	0	100.00	1
1,1,1-Trichloroethane			0.5000	-18	2.0000	-6	5.0000	1	10.000	-7	20.000	-5	50.000	8	75.000	14	100.00	13
Carbon Tetrachloride			0.5000	**74**	2.0000	18	5.0000	6	10.000	-5	20.000	-6	50.000	2	75.000	0		
1,2-Dichloroethane			0.5000	0	2.0000	-2	5.0000	7	10.000	2	20.000	2	50.000	-2	75.000	-2	100.00	-5
Trichloroethene			0.5000	-6	2.0000	-4	5.0000	3	10.000	-6	20.000	-5	50.000	3	75.000	7	100.00	8
1,2-Dichloropropane			0.5000	-3	2.0000	-2	5.0000	2	10.000	-1	20.000	-1	50.000	0	75.000	2	100.00	3
Bromodichloromethane			0.5000	-15	2.0000	-11	5.0000	3	10.000	0	20.000	3	50.000	5	75.000	7	100.00	8
cis-1,3-Dichloropropene			0.5000	-19	2.0000	-14	5.0000	1	10.000	-1	20.000	5	50.000	7	75.000	10	100.00	11
trans-1,3-Dichloropropene			0.5000	**-22**	2.0000	-15	5.0000	-1	10.000	0	20.000	7	50.000	7	75.000	11	100.00	12
1,1,2-Trichloroethane			0.5000	-9	2.0000	-6	5.0000	8	10.000	2	20.000	3	50.000	-2	75.000	1	100.00	2
Tetrachloroethene			0.5000	-17	2.0000	-1	5.0000	-2	10.000	-9	20.000	-10	50.000	6	75.000	16	100.00	17
Dibromochloromethane			0.5000	**-23**	2.0000	-17	5.0000	1	10.000	-1	20.000	5	50.000	7	75.000	13	100.00	16
Chlorobenzene			0.5000	-2	2.0000	0	5.0000	4	10.000	-3	20.000	-3	50.000	-2	75.000	2	100.00	4
Bromoform			0.5000	**52**	2.0000	-4	5.0000	-2	10.000	-3	20.000	1	50.000	0				
1,1,2,2-Tetrachloroethane			0.5000	-8	2.0000	-4	5.0000	6	10.000	3	20.000	3	50.000	-2	75.000	0	100.00	2
1,3-Dichlorobenzene			0.5000	-2	2.0000	-1	5.0000	4	10.000	0	20.000	-3	50.000	-3	75.000	1	100.00	3
1,4-Dichlorobenzene			0.5000	7	2.0000	0	5.0000	5	10.000	-1	20.000	-4	50.000	-5	75.000	-2	100.00	0
1,2-Dichlorobenzene			0.5000	-4	2.0000	-1	5.0000	6	10.000	1	20.000	0	50.000	-3	75.000	0	100.00	2
1,2-Dichloroethane-d4	50.000	-3	50.000	-2	50.000	0	50.000	2	50.000	0	50.000	2	50.000	3	50.000	1	50.000	-3
Toluene-d8	50.000	0	50.000	0	50.000	1	50.000	1	50.000	1	50.000	1	50.000	-1	50.000	-2	50.000	-1
Bromofluorobenzene	50.000	0	50.000	1	50.000	0	50.000	0	50.000	1	50.000	1	50.000	0	50.000	-3	50.000	-1

BO 07/25/13 [Acetone]: Corrected automatically drawn baseline in 10PPB (mgo14).

BO 07/25/13 [1,2-Dichloropropane]: Separated from coeluting peak in multiple levels.

BO 07/25/13 [2-Chlorotoluene]: Separated from coeluting peak in all levels.

BO 07/25/13 [Carbon Tetrachloride]: Cannot report 8260C due to high bias in low point

BO 07/25/13 [Bromoform]: Cannot report 8260C due to high bias in low point

BO 07/25/13 [2-Chloroethylvinylether]: Cannot report 8260C due to high bias in low point

BO 07/25/13 [Carbon Tetrachloride]: RR hits <2ppb

BO 07/25/13 [Bromoform]: RR hits <2ppb

BO 07/25/13 [2-Chloroethylvinylether]: RR hits <2ppb

Analyst: BO Date: 07/25/13 Reviewer: LW Date: 07/25/13

m=manual integration

X=A: Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating); X=R: Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; QUAD=Quadratic regression

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 247902 MSVOA Water
EPA 8260B

Inst : MSVOA13
Calnum : 943295688001 Cal Date : 24-JUL-2013

ICV 943297216003 (mgp03 25-JUL-2013) stds: S22666 (10000X), S22596 (10000X), S22793 (8000X), S22609 (10000X), S22908 (2500X)

Analyte	Spiked	Quant	Units	%D	Max	Flags
Chloromethane	25.00	22.52	ug/L	-10	30	
Vinyl Chloride	25.00	23.59	ug/L	-6	20	
Bromomethane	25.00	26.52	ug/L	6	30	
Chloroethane	25.00	22.81	ug/L	-9	30	
Trichlorofluoromethane	25.00	20.98	ug/L	-16	30	
Freon 113	25.00	32.35	ug/L	**29**	30	!v+
1,1-Dichloroethene	25.00	29.76	ug/L	19	20	
Methylene Chloride	25.00	26.41	ug/L	6	30	
trans-1,2-Dichloroethene	25.00	28.03	ug/L	12	30	
1,1-Dichloroethane	25.00	26.79	ug/L	7	30	
cis-1,2-Dichloroethene	25.00	26.16	ug/L	5	30	
Chloroform	25.00	26.00	ug/L	4	20	
1,1,1-Trichloroethane	25.00	29.18	ug/L	17	30	
Carbon Tetrachloride	25.00	29.63	ug/L	19	30	
1,2-Dichloroethane	25.00	25.35	ug/L	1	30	
Trichloroethene	25.00	25.77	ug/L	3	30	
1,2-Dichloropropane	25.00	25.79	ug/L	3	20	
Bromodichloromethane	25.00	25.19	ug/L	1	30	
cis-1,3-Dichloropropene	25.00	28.27	ug/L	13	30	
trans-1,3-Dichloropropene	25.00	26.21	ug/L	5	30	
1,1,2-Trichloroethane	25.00	25.32	ug/L	1	30	
Tetrachloroethene	25.00	28.74	ug/L	15	30	
Dibromochloromethane	25.00	26.05	ug/L	4	30	
Chlorobenzene	25.00	23.68	ug/L	-5	30	
Bromoform	25.00	26.42	ug/L	6	30	
1,1,2,2-Tetrachloroethane	25.00	25.59	ug/L	2	30	
1,3-Dichlorobenzene	25.00	23.65	ug/L	-5	30	
1,4-Dichlorobenzene	25.00	24.94	ug/L	0	30	
1,2-Dichlorobenzene	25.00	23.48	ug/L	-6	30	

Analyst: BO Date: 07/25/13 Reviewer: LW Date: 07/25/13

!=warning +=high bias v=ICV

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 247902 MSVOA Water: EPA 8260B

Inst : MSVOA14
Calnum : 953314372001
Units : ug/L

Date : 06-AUG-2013 09:39
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	nh607	953314372007		06-AUG-2013 09:39	S22575 (2000000X), S22920 (2000000X), S21953 (2000000X), S22141 (1000000X), S22908 (2500X)
L2	nh608	953314372008		06-AUG-2013 10:08	S22575 (1000000X), S22920 (1000000X), S21953 (1000000X), S22141 (500000X), S22908 (2500X)
L3	nh609	953314372009		06-AUG-2013 10:36	S22575 (250000X), S22920 (250000X), S21953 (500000X), S22141 (250000X), S22908 (2500X)
L4	nh610	953314372010		06-AUG-2013 11:05	S22575 (100000X), S22920 (100000X), S21953 (200000X), S22141 (100000X), S22908 (2500X)
L5	nh611	953314372011		06-AUG-2013 11:33	S22575 (50000X), S22920 (50000X), S21953 (100000X), S22141 (50000X), S22908 (2500X)
L6	nh612	953314372012		06-AUG-2013 12:02	S22575 (25000X), S22920 (25000X), S21953 (50000X), S22141 (25000X), S22908 (2500X)
L7	nh613	953314372013		06-AUG-2013 12:31	S22575 (10000X), S22920 (10000X), S21953 (20000X), S22141 (10000X), S22908 (2500X)
L8	nh614	953314372014		06-AUG-2013 12:59	S22575 (6667X), S22920 (6667X), S21953 (13330X), S22141 (6667X), S22908 (2500X)
L9	nh615	953314372015		06-AUG-2013 13:28	S22575 (5000X), S22920 (5000X), S21953 (10000X), S22141 (5000X), S22908 (2500X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Chloromethane	0.4973	0.6686	0.6325	0.7374	0.7009	0.7203	0.7294	0.7805	0.7570	AVRG		1.44605		0.6915	12	15	0.10	0.99	
Vinyl Chloride	0.4443	0.7232	0.6898	0.7489	0.7643	0.7924	0.7971			LINR	0.26140	1.24859		0.7086	1.000	15	0.05	0.99	
Bromomethane	0.3243	0.3475	0.3614	0.3837	0.3560	0.3478	0.3469	0.3687	0.3614	AVRG		2.81455		0.3553	5	15	0.05	0.99	
Chloroethane		0.3995	0.3822	0.4129	0.4100	0.4265	0.4239	0.4491	0.4354	AVRG		2.39551		0.4174	5	15	0.05	0.99	
Trichlorofluoromethane		0.7066	0.6901	0.7424	0.7275	0.7563	0.7361	0.7681	0.7296	AVRG		1.36595		0.7321	3	15	0.05	0.99	
Freon 113			0.3824	0.3947	0.4019	0.4261	0.4333	0.4432	0.4227	AVRG		2.41020		0.4149	5	15	0.05	0.99	
1,1-Dichloroethene		0.4177m	0.4504	0.4189	0.4130	0.4215	0.4211	0.4300	0.4165	AVRG		2.36061		0.4236	3	15	0.05	0.99	
Methylene Chloride		0.5181	0.5106	0.4976	0.5024	0.5030	0.5159	0.5258	0.5069	AVRG		1.96058		0.5101	2	15	0.05	0.99	
trans-1,2-Dichloroethene		0.4447	0.4949	0.4740	0.4800	0.4844	0.4869	0.4944	0.4773	AVRG		2.08515		0.4796	3	15	0.05	0.99	
1,1-Dichloroethane		1.0371	1.0289	0.9356	1.0410	0.9866	1.0922	1.1157	1.0813	AVRG		0.96172		1.0398	6	15	0.10	0.99	
cis-1,2-Dichloroethene		0.6192	0.5505	0.5442	0.5388	0.5464	0.5617	0.5679	0.5493	AVRG		1.78656		0.5597	5	15	0.05	0.99	
Chloroform		0.8154	0.8309	0.8182	0.8567	0.8582	0.8946	0.9159	0.8898	AVRG		1.16286		0.8600	4	15	0.05	0.99	
1,1,1-Trichloroethane		0.6588	0.6731	0.6591	0.6957	0.7098	0.7280	0.7431	0.7189	AVRG		1.43203		0.6983	5	15	0.05	0.99	
Carbon Tetrachloride		0.2576	0.3076	0.3069	0.3127	0.3216	0.3306	0.3350	0.3302	AVRG		3.19708		0.3128	8	15	0.05	0.99	
1,2-Dichloroethane		0.3831	0.4053	0.4174	0.4427	0.4374	0.4453	0.4455	0.4388	AVRG		2.34232		0.4269	5	15	0.05	0.99	
Trichloroethene		0.2954	0.3168	0.3035	0.3240	0.3193	0.3325	0.3369	0.3321	AVRG		3.12451		0.3201	5	15	0.05	0.99	
1,2-Dichloropropane		0.3465	0.3579	0.3653	0.3643	0.3686	0.3947	0.3799	0.3755	AVRG		2.70946		0.3691	4	15	0.05	0.99	
Bromodichloromethane		0.3536	0.3773	0.3853	0.4010	0.4044	0.4262	0.4321	0.4294	AVRG		2.49270		0.4012	7	15	0.05	0.99	
cis-1,3-Dichloropropene		0.4207	0.4693	0.5018	0.5327	0.5368	0.5567	0.5613	0.5495	AVRG		1.93755		0.5161	10	15	0.05	0.99	
trans-1,3-Dichloropropene		0.4963	0.5016	0.4988	0.5377	0.5445	0.5681	0.5785	0.5590	AVRG		1.86717		0.5356	6	15	0.05	0.99	
1,1,2-Trichloroethane		0.1579	0.1843	0.1712	0.1761	0.1761	0.1827	0.1855	0.1783	AVRG		5.66554		0.1765	5	15	0.05	0.99	
Tetrachloroethene		0.3131	0.3135	0.3212	0.3279	0.3181	0.3281	0.3287	0.3182	AVRG		3.11439		0.3211	2	15	0.05	0.99	
Dibromochloromethane		0.2498	0.2829	0.2883	0.3021	0.3033	0.3241	0.3291	0.3211	AVRG		3.33231		0.3001	9	15	0.05	0.99	
Chlorobenzene		0.9233	0.8999	0.9448	0.9877	0.9624	1.0023	1.0063	0.9952	AVRG		1.03602		0.9652	4	15	0.30	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Bromoform		0.1667	0.1792	0.1806	0.1978	0.2023	0.2203	0.2280	0.2241	AVRG		5.00354		0.1999	12	15	0.10	0.99	
1,1,2,2-Tetrachloroethane		0.7692	0.8032	0.8767	0.8726	0.8363	0.8696	0.8710	0.8437	AVRG		1.18655		0.8428	5	15	0.30	0.99	
1,3-Dichlorobenzene		1.3727	1.3897	1.4427	1.4751	1.4876	1.5260	1.5220	1.4913	AVRG		0.68335		1.4634	4	15	0.05	0.99	
1,4-Dichlorobenzene		1.4646	1.3869	1.4264	1.5320	1.5001	1.5415	1.5360	1.5206	AVRG		0.67181		1.4885	4	15	0.05	0.99	
1,2-Dichlorobenzene		1.2971	1.3430	1.4254	1.4429	1.4490	1.4719	1.4812	1.4578	AVRG		0.70371		1.4210	5	15	0.05	0.99	
1,2-Dichloroethane-d4	0.3543	0.3594	0.3670	0.3666	0.3734	0.3725	0.3743	0.3840	0.3870	AVRG		2.69583		0.3709	3	15	0.05	0.99	
Toluene-d8	1.3745	1.3876	1.3957	1.3965	1.3945	1.3873	1.3894	1.3907	1.3799	AVRG		0.72022		1.3885	1	15	0.05	0.99	
Bromofluorobenzene	1.0478	1.0467	1.0334	1.0938	1.0281	1.0252	1.0198	1.0132	1.0148	AVRG		0.96538		1.0359	2	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Chloromethane	0.5000	**-28**	1.0000	-3	2.0000	-9	5.0000	7	10.000	1	20.000	4	50.000	5	75.000	13	100.00	9
Vinyl Chloride	0.5000	8	1.0000	16	2.0000	-1	5.0000	-1	10.000	-2	20.000	0	50.000	0				
Bromomethane	0.5000	-9	1.0000	-2	2.0000	2	5.0000	8	10.000	0	20.000	-2	50.000	-2	75.000	4	100.00	2
Chloroethane			1.0000	-4	2.0000	-8	5.0000	-1	10.000	-2	20.000	2	50.000	2	75.000	8	100.00	4
Trichlorofluoromethane			1.0000	-3	2.0000	-6	5.0000	1	10.000	-1	20.000	3	50.000	1	75.000	5	100.00	0
Freon 113					2.0000	-8	5.0000	-5	10.000	-3	20.000	3	50.000	4	75.000	7	100.00	2
1,1-Dichloroethene			0.5000	-1	2.0000	6	5.0000	-1	10.000	-3	20.000	-1	50.000	-1	75.000	1	100.00	-2
Methylene Chloride			0.5000	2	2.0000	0	5.0000	-2	10.000	-1	20.000	-1	50.000	1	75.000	3	100.00	-1
trans-1,2-Dichloroethene			0.5000	-7	2.0000	3	5.0000	-1	10.000	0	20.000	1	50.000	2	75.000	3	100.00	0
1,1-Dichloroethane			0.5000	0	2.0000	-1	5.0000	-10	10.000	0	20.000	-5	50.000	5	75.000	7	100.00	4
cis-1,2-Dichloroethene			0.5000	11	2.0000	-2	5.0000	-3	10.000	-4	20.000	-2	50.000	0	75.000	1	100.00	-2
Chloroform			0.5000	-5	2.0000	-3	5.0000	-5	10.000	0	20.000	0	50.000	4	75.000	7	100.00	3
1,1,1-Trichloroethane			0.5000	-6	2.0000	-4	5.0000	-6	10.000	0	20.000	2	50.000	4	75.000	6	100.00	3
Carbon Tetrachloride			0.5000	-18	2.0000	-2	5.0000	-2	10.000	0	20.000	3	50.000	6	75.000	7	100.00	6
1,2-Dichloroethane			0.5000	-10	2.0000	-5	5.0000	-2	10.000	4	20.000	2	50.000	4	75.000	4	100.00	3
Trichloroethene			0.5000	-8	2.0000	-1	5.0000	-5	10.000	1	20.000	0	50.000	4	75.000	5	100.00	4
1,2-Dichloropropane			0.5000	-6	2.0000	-3	5.0000	-1	10.000	-1	20.000	0	50.000	7	75.000	3	100.00	2
Bromodichloromethane			0.5000	-12	2.0000	-6	5.0000	-4	10.000	0	20.000	1	50.000	6	75.000	8	100.00	7
cis-1,3-Dichloropropene			0.5000	-18	2.0000	-9	5.0000	-3	10.000	3	20.000	4	50.000	8	75.000	9	100.00	6
trans-1,3-Dichloropropene			0.5000	-7	2.0000	-6	5.0000	-7	10.000	0	20.000	2	50.000	6	75.000	8	100.00	4
1,1,2-Trichloroethane			0.5000	-11	2.0000	4	5.0000	-3	10.000	0	20.000	0	50.000	4	75.000	5	100.00	1
Tetrachloroethene			0.5000	-2	2.0000	-2	5.0000	0	10.000	2	20.000	-1	50.000	2	75.000	2	100.00	-1
Dibromochloromethane			0.5000	-17	2.0000	-6	5.0000	-4	10.000	1	20.000	1	50.000	8	75.000	10	100.00	7
Chlorobenzene			0.5000	-4	2.0000	-7	5.0000	-2	10.000	2	20.000	0	50.000	4	75.000	4	100.00	3
Bromoform			0.5000	-17	2.0000	-10	5.0000	-10	10.000	-1	20.000	1	50.000	10	75.000	14	100.00	12
1,1,2,2-Tetrachloroethane			0.5000	-9	2.0000	-5	5.0000	4	10.000	4	20.000	-1	50.000	3	75.000	3	100.00	0
1,3-Dichlorobenzene			0.5000	-6	2.0000	-5	5.0000	-1	10.000	1	20.000	2	50.000	4	75.000	4	100.00	2
1,4-Dichlorobenzene			0.5000	-2	2.0000	-7	5.0000	-4	10.000	3	20.000	1	50.000	4	75.000	3	100.00	2
1,2-Dichlorobenzene			0.5000	-9	2.0000	-5	5.0000	0	10.000	2	20.000	2	50.000	4	75.000	4	100.00	3
1,2-Dichloroethane-d4	50.000	-4	50.000	-3	50.000	-1	50.000	-1	50.000	1	50.000	0	50.000	1	50.000	4	50.000	4
Toluene-d8	50.000	-1	50.000	0	50.000	1	50.000	1	50.000	0	50.000	0	50.000	0	50.000	0	50.000	-1
Bromofluorobenzene	50.000	1	50.000	1	50.000	0	50.000	6	50.000	-1	50.000	-1	50.000	-2	50.000	-2	50.000	-2

MCT 08/08/13 [2-Chloroethylvinylether]: 2-Cleve failed, can not use.

MCT 08/08/13 [Chloroethane]: Corrected baseline noise or negative peak in (nh607).

MCT 08/08/13 [Ethanol]: Combined split peak in multiple levels.

MCT 08/08/13 [1,1-Dichloroethene]: Corrected baseline noise or negative peak in (nh608).

Analyst: MCT Date: 08/08/13 Reviewer: SJD Date: 08/08/13

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; LINR=Linear regression

953314372001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 247902 MSVOA Water
EPA 8260B

Inst : MSVOA14
Calnum : 953314372001 Cal Date : 06-AUG-2013

ICV 953314372016 (nh616 06-AUG-2013) stds: S22793 (10000X), S22908 (2500X)
ICV 953314372017 (nh617 06-AUG-2013) stds: S22975 (10000X), S22927 (10000X), S22609 (10000X), S22908 (2500X)

Analyte	ICV Seqnum	Spiked	Quant	Units	%D	Max	Flags
Chloromethane	953314372016	20.00	21.94	ug/L	10	30	
Vinyl Chloride	953314372016	20.00	20.76	ug/L	4	20	
Bromomethane	953314372016	20.00	14.80	ug/L	**-26**	30	!v-
Chloroethane	953314372016	20.00	20.49	ug/L	2	30	
Trichlorofluoromethane	953314372016	20.00	19.21	ug/L	-4	30	
Freon 113	953314372017	25.00	24.31	ug/L	-3	30	
1,1-Dichloroethene	953314372017	25.00	24.38	ug/L	-2	20	
Methylene Chloride	953314372017	25.00	26.02	ug/L	4	30	
trans-1,2-Dichloroethene	953314372017	25.00	26.38	ug/L	6	30	
1,1-Dichloroethane	953314372017	25.00	24.71	ug/L	-1	30	
cis-1,2-Dichloroethene	953314372017	25.00	25.43	ug/L	2	30	
Chloroform	953314372017	25.00	26.46	ug/L	6	20	
1,1,1-Trichloroethane	953314372017	25.00	26.73	ug/L	7	30	
Carbon Tetrachloride	953314372017	25.00	26.46	ug/L	6	30	
1,2-Dichloroethane	953314372017	25.00	26.72	ug/L	7	30	
Trichloroethene	953314372017	25.00	26.71	ug/L	7	30	
1,2-Dichloropropane	953314372017	25.00	26.01	ug/L	4	20	
Bromodichloromethane	953314372017	25.00	25.47	ug/L	2	30	
cis-1,3-Dichloropropene	953314372017	25.00	27.96	ug/L	12	30	
trans-1,3-Dichloropropene	953314372017	25.00	25.17	ug/L	1	30	
1,1,2-Trichloroethane	953314372017	25.00	26.14	ug/L	5	30	
Tetrachloroethene	953314372017	25.00	25.53	ug/L	2	30	
Dibromochloromethane	953314372017	25.00	25.46	ug/L	2	30	
Chlorobenzene	953314372017	25.00	24.04	ug/L	-4	30	
Bromoform	953314372017	25.00	27.13	ug/L	9	30	
1,1,2,2-Tetrachloroethane	953314372017	25.00	25.91	ug/L	4	30	
1,3-Dichlorobenzene	953314372017	25.00	23.96	ug/L	-4	30	
1,4-Dichlorobenzene	953314372017	25.00	25.67	ug/L	3	30	
1,2-Dichlorobenzene	953314372017	25.00	24.16	ug/L	-3	30	

953314372016: Analyst: MCT Date: 08/08/13 Reviewer: SJD Date: 08/08/13
953314372017: Analyst: MCT Date: 08/08/13 Reviewer: SJD Date: 08/08/13

!=warning -=low bias v=ICV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247902 MSVOA Water
EPA 8260B

Inst : MSVOA06 IDF : 1.0
Seqnum : 453326247005 File : fhe05 Time : 14-AUG-2013 15:43
Cal : 453320921002 Caldate : 10-AUG-2013 Caltype : WATER
Standards: S21953 (33330X), S23013 (33330X), S22920 (33330X), S22141 (33330X), S22914 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Chloromethane	1.7151	2.0660	15.00	18.07	ug/L	20	30	0.1000	
Vinyl Chloride	1.3599	1.5993	15.00	17.64	ug/L	18	20	0.0500	
Bromomethane	0.7236	0.6338	15.00	13.14	ug/L	-12	30	0.0500	!v-
Chloroethane	0.8527	0.8888	15.00	15.64	ug/L	4	30	0.0500	
Trichlorofluoromethane	1.6618	1.7365	15.00	15.67	ug/L	4	30	0.0500	
Freon 113	0.7846	0.8590	15.00	16.42	ug/L	9	30	0.0500	
1,1-Dichloroethene	0.7028	0.7760	15.00	16.56	ug/L	10	20	0.0500	
Methylene Chloride	0.9004	0.9536	15.00	15.89	ug/L	6	30	0.0500	
trans-1,2-Dichloroethene	0.8188	0.8654	15.00	15.85	ug/L	6	30	0.0500	
1,1-Dichloroethane	1.8551	1.9255	15.00	15.57	ug/L	4	30	0.1000	
cis-1,2-Dichloroethene	0.9415	0.9667	15.00	15.40	ug/L	3	30	0.0500	
Chloroform	1.7455	1.8020	15.00	15.49	ug/L	3	20	0.0500	
1,1,1-Trichloroethane	1.3319	1.3745	15.00	15.48	ug/L	3	30	0.0500	
Carbon Tetrachloride	0.5178	0.5401	15.00	15.65	ug/L	4	30	0.0500	
1,2-Dichloroethane	0.7059	0.7253	15.00	15.41	ug/L	3	30	0.0500	
Trichloroethene	0.4265	0.3972	15.00	13.97	ug/L	-7	30	0.0500	
1,2-Dichloropropane	0.4787	0.4559	15.00	14.29	ug/L	-5	20	0.0500	
Bromodichloromethane	0.6323	0.6467	15.00	15.34	ug/L	2	30	0.0500	
cis-1,3-Dichloropropene	0.6658	0.6777	15.00	15.27	ug/L	2	30	0.0500	
trans-1,3-Dichloropropene	0.7041	0.6929	15.00	14.76	ug/L	-2	30	0.0500	
1,1,2-Trichloroethane	0.2303	0.2095	15.00	13.64	ug/L	-9	30	0.0500	
Tetrachloroethene	0.3477	0.3411	15.00	14.72	ug/L	-2	30	0.0500	
Dibromochloromethane	0.4337	0.4227	15.00	14.62	ug/L	-3	30	0.0500	
Chlorobenzene	0.9500	0.9056	15.00	14.30	ug/L	-5	30	0.3000	
Bromoform	0.2927	0.2663	15.00	13.65	ug/L	-9	30	0.1000	
1,1,2,2-Tetrachloroethane	1.0182	0.9351	15.00	13.78	ug/L	-8	30	0.3000	
1,3-Dichlorobenzene	1.2254	1.1947	15.00	14.62	ug/L	-3	30	0.0500	
1,4-Dichlorobenzene	1.2701	1.2586	15.00	14.86	ug/L	-1	30	0.0500	
1,2-Dichlorobenzene	1.1728	1.1686	15.00	14.95	ug/L	0	30	0.0500	
1,2-Dichloroethane-d4	0.5680	0.5823	50.00	51.26	ug/L	3	30	0.0500	
Toluene-d8	1.3141	1.2864	50.00	48.95	ug/L	-2	30	0.0500	
Bromofluorobenzene	1.0907	1.0994	50.00	50.40	ug/L	1	30	0.0500	

ISTD (ICAL fha12)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	509102	548048	7.65	12.46	12.49	0.03
1,4-Difluorobenzene	1018784	1087728	6.77	13.81	13.83	0.02
Chlorobenzene-d5	907181	1009524	11.28	18.38	18.40	0.02
1,4-Dichlorobenzene-d4	499266	550260	10.21	21.10	21.11	0.01

Analyst: DAR Date: 08/14/13 Reviewer: SJD Date: 08/15/13

!=warning -=low bias v=ICV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247902 MSVOA Water
EPA 8260B

Inst : MSVOA08 IDF : 1.0
Seqnum : 473326033005 File : hhe05 Time : 14-AUG-2013 10:38
Cal : 473114230005 Caldate : 20-MAR-2013 Caltype : WATER
Standards: S21953 (33330X), S23013 (33330X), S22920 (33330X), S21857 (33330X), S22913 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Chloromethane	0.8491	0.8455	15.00	14.94	ug/L	0	30	0.1000	
Vinyl Chloride	0.6378	0.6967	15.00	16.38	ug/L	9	20	0.0500	
Bromomethane	0.3863	0.5399	15.00	20.97	ug/L	**40**	30	0.0500	!v- c+ ***
Chloroethane	0.3425	0.3733	15.00	16.35	ug/L	9	30	0.0500	
Trichlorofluoromethane	0.6374	0.8151	15.00	19.18	ug/L	**28**	30	0.0500	!c+
Freon 113	0.4648	0.3956	15.00	12.77	ug/L	-15	30	0.0500	
1,1-Dichloroethene	0.4788	0.3917	15.00	12.27	ug/L	-18	20	0.0500	
Methylene Chloride	0.6142	0.4817	15.00	11.76	ug/L	**-22**	30	0.0500	!c-
trans-1,2-Dichloroethene	0.5381	0.4513	15.00	12.58	ug/L	-16	30	0.0500	
1,1-Dichloroethane	1.0335	0.8911	15.00	12.93	ug/L	-14	30	0.1000	
cis-1,2-Dichloroethene	0.5882	0.4972	15.00	12.68	ug/L	-15	30	0.0500	
Chloroform	0.9246	0.9021	15.00	14.63	ug/L	-2	20	0.0500	
1,1,1-Trichloroethane	0.6419	0.6611	15.00	15.45	ug/L	3	30	0.0500	
Carbon Tetrachloride	0.3428	0.3639	15.00	15.92	ug/L	6	30	0.0500	
1,2-Dichloroethane	0.3848	0.4406	15.00	17.17	ug/L	14	30	0.0500	
Trichloroethene	0.3279	0.3264	15.00	14.93	ug/L	0	30	0.0500	
1,2-Dichloropropane	0.3649	0.3206	15.00	13.18	ug/L	-12	20	0.0500	
Bromodichloromethane	0.4093	0.4525	15.00	16.59	ug/L	11	30	0.0500	
cis-1,3-Dichloropropene	0.4669	0.4840	15.00	15.55	ug/L	4	30	0.0500	!v+
trans-1,3-Dichloropropene	0.4928	0.4779	15.00	14.55	ug/L	-3	30	0.0500	
1,1,2-Trichloroethane	0.1637	0.1427	15.00	13.08	ug/L	-13	30	0.0500	
Tetrachloroethene	0.3512	0.3537	15.00	15.11	ug/L	1	30	0.0500	
Dibromochloromethane	0.3567	0.3433	15.00	14.43	ug/L	-4	30	0.0500	
Chlorobenzene	0.9607	0.9671	15.00	15.10	ug/L	1	30	0.3000	
Bromoform	0.1963	0.1816	15.00	13.87	ug/L	-8	30	0.1000	!v+
1,1,2,2-Tetrachloroethane	0.6264	0.5049	15.00	12.09	ug/L	-19	30	0.3000	
1,3-Dichlorobenzene	1.4286	1.3828	15.00	14.52	ug/L	-3	30	0.0500	
1,4-Dichlorobenzene	1.4013	1.3761	15.00	14.73	ug/L	-2	30	0.0500	
1,2-Dichlorobenzene	1.3807	1.3241	15.00	14.39	ug/L	-4	30	0.0500	
1,2-Dichloroethane-d4	0.3041	0.3669	50.00	60.32	ug/L	**21**	30	0.0500	!c+
Toluene-d8	1.2116	1.1797	50.00	48.68	ug/L	-3	30	0.0500	
Bromofluorobenzene	0.9596	0.9656	50.00	50.31	ug/L	1	30	0.0500	

ISTD (ICAL hck16)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	941940	1057346	12.25	10.05	10.04	-0.01
1,4-Difluorobenzene	1564588	1546821	-1.14	11.23	11.22	-0.01
Chlorobenzene-d5	1292144	1380932	6.87	15.68	15.67	-0.01
1,4-Dichlorobenzene-d4	691346	759710	9.89	18.47	18.46	-0.01

Analyst: MJB Date: 08/14/13 Reviewer: BO Date: 08/15/13

!=warning +=high bias -=low bias c=CCV v=ICV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247902 MSVOA Water
EPA 8260B

Inst : MSVOA13 Run Name : 12.5PPB IDF : 1.0
Seqnum : 943325988009 File : mhe09 Time : 14-AUG-2013 15:06
Cal : 943295688001 Caldate : 24-JUL-2013
Standards: S22435 (20000X), S22927 (20000X), S23020 (20000X), S22975 (20000X), S22908 (2500X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Chloromethane	1.0770	1.2167	10.00	11.30	ug/L	13	30	0.1000	
Vinyl Chloride	1.0084	0.8841	10.00	8.767	ug/L	-12	20	0.0500	
Bromomethane	0.4174	0.4121	10.00	9.872	ug/L	-1	30	0.0500	
Chloroethane	0.6207	0.7574	10.00	12.20	ug/L	**22**	30	0.0500	!c+
Trichlorofluoromethane	1.3060	1.1861	10.00	9.081	ug/L	-9	30	0.0500	
Freon 113	0.4856	0.6004	12.50	15.46	ug/L	**24**	30	0.0500	!c+ !v+
1,1-Dichloroethene	0.4997	0.5193	12.50	12.99	ug/L	4	20	0.0500	
Methylene Chloride	0.7652	0.7752	12.50	12.66	ug/L	1	30	0.0500	
trans-1,2-Dichloroethene	0.6394	0.6730	12.50	13.16	ug/L	5	30	0.0500	
1,1-Dichloroethane	1.6532	1.5945	12.50	12.06	ug/L	-4	30	0.1000	
cis-1,2-Dichloroethene	0.7686	0.7337	12.50	11.93	ug/L	-5	30	0.0500	
Chloroform	1.4453	1.3544	12.50	11.71	ug/L	-6	20	0.0500	
1,1,1-Trichloroethane	1.1096	1.1328	12.50	12.76	ug/L	2	30	0.0500	
Carbon Tetrachloride	0.4220	0.5021	12.50	14.85	ug/L	19	30	0.0500	
1,2-Dichloroethane	0.7373	0.7813	12.50	13.25	ug/L	6	30	0.0500	
Trichloroethene	0.4174	0.4308	12.50	12.90	ug/L	3	30	0.0500	
1,2-Dichloropropane	0.5260	0.5596	12.50	13.30	ug/L	6	20	0.0500	
Bromodichloromethane	0.5779	0.5914	12.50	12.79	ug/L	2	30	0.0500	
cis-1,3-Dichloropropene	0.7160	0.8177	12.50	14.28	ug/L	14	30	0.0500	
trans-1,3-Dichloropropene	0.7576	0.7541	12.50	12.44	ug/L	0	30	0.0500	
1,1,2-Trichloroethane	0.2387	0.2436	12.50	12.76	ug/L	2	30	0.0500	
Tetrachloroethene	0.2874	0.3120	12.50	13.57	ug/L	9	30	0.0500	
Dibromochloromethane	0.3599	0.3700	12.50	12.85	ug/L	3	30	0.0500	
Chlorobenzene	1.1519	1.2419	12.50	13.48	ug/L	8	30	0.3000	
Bromoform	0.1888	0.2141	12.50	12.82	ug/L	3	30	0.1000	
1,1,2,2-Tetrachloroethane	1.3074	1.3484	12.50	12.89	ug/L	3	30	0.3000	
1,3-Dichlorobenzene	1.6762	1.7610	12.50	13.13	ug/L	5	30	0.0500	
1,4-Dichlorobenzene	1.7989	1.8019	12.50	12.52	ug/L	0	30	0.0500	
1,2-Dichlorobenzene	1.6402	1.7062	12.50	13.00	ug/L	4	30	0.0500	
1,2-Dichloroethane-d4	0.5608	0.5733	50.00	51.11	ug/L	2	30	0.0500	
Toluene-d8	1.5073	1.4993	50.00	49.73	ug/L	-1	30	0.0500	
Bromofluorobenzene	1.3491	1.3192	50.00	48.90	ug/L	-2	30	0.0500	

ISTD (ICAL mgo16)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	754540	1036228	37.33	11.39	11.39	0.00
1,4-Difluorobenzene	1418479	1881601	32.65	12.23	12.23	0.00
Chlorobenzene-d5	1344645	1764417	31.22	15.05	15.05	0.00
1,4-Dichlorobenzene-d4	616170	846764	37.42	17.10	17.10	0.00

BO 08/15/13 [2-Chlorotoluene]: Separated from coeluting peak.

Analyst: BO Date: 08/15/13 Reviewer: SJD Date: 08/15/13

!=warning +=high bias c=CCV v=ICV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247902 MSVOA Water
EPA 8260B

Inst : MSVOA14 IDF : 1.0
Seqnum : 953325804003 File : nhe03 Time : 14-AUG-2013 07:38
Cal : 953314372001 Caldate : 06-AUG-2013
Standards: S23013 (33330X), S22920 (33330X), S22141 (33330X), S22908 (2500X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Chloromethane	0.6915	0.7612	15.00	16.51	ug/L	10	30	0.1000	
Vinyl Chloride	0.7086	0.8169	15.00	15.56	ug/L	4	20	0.0500	
Bromomethane	0.3553	0.3859	15.00	16.29	ug/L	9	30	0.0500	!v-
Chloroethane	0.4174	0.4620	15.00	16.60	ug/L	11	30	0.0500	
Trichlorofluoromethane	0.7321	0.7929	15.00	16.25	ug/L	8	30	0.0500	
Freon 113	0.4149	0.4374	15.00	15.81	ug/L	5	30	0.0500	
1,1-Dichloroethene	0.4236	0.3986	15.00	14.11	ug/L	-6	20	0.0500	
Methylene Chloride	0.5101	0.5149	15.00	15.14	ug/L	1	30	0.0500	
trans-1,2-Dichloroethene	0.4796	0.4945	15.00	15.47	ug/L	3	30	0.0500	
1,1-Dichloroethane	1.0398	1.0696	15.00	15.43	ug/L	3	30	0.1000	
cis-1,2-Dichloroethene	0.5597	0.5521	15.00	14.79	ug/L	-1	30	0.0500	
Chloroform	0.8600	0.8733	15.00	15.23	ug/L	2	20	0.0500	
1,1,1-Trichloroethane	0.6983	0.7093	15.00	15.24	ug/L	2	30	0.0500	
Carbon Tetrachloride	0.3128	0.3279	15.00	15.72	ug/L	5	30	0.0500	
1,2-Dichloroethane	0.4269	0.4098	15.00	14.40	ug/L	-4	30	0.0500	
Trichloroethene	0.3201	0.3212	15.00	15.05	ug/L	0	30	0.0500	
1,2-Dichloropropane	0.3691	0.3868	15.00	15.72	ug/L	5	20	0.0500	
Bromodichloromethane	0.4012	0.4011	15.00	15.00	ug/L	0	30	0.0500	
cis-1,3-Dichloropropene	0.5161	0.5233	15.00	15.21	ug/L	1	30	0.0500	
trans-1,3-Dichloropropene	0.5356	0.4783	15.00	13.40	ug/L	-11	30	0.0500	
1,1,2-Trichloroethane	0.1765	0.1627	15.00	13.82	ug/L	-8	30	0.0500	
Tetrachloroethene	0.3211	0.3436	15.00	16.05	ug/L	7	30	0.0500	
Dibromochloromethane	0.3001	0.2866	15.00	14.32	ug/L	-5	30	0.0500	
Chlorobenzene	0.9652	0.9746	15.00	15.15	ug/L	1	30	0.3000	
Bromoform	0.1999	0.1796	15.00	13.48	ug/L	-10	30	0.1000	
1,1,2,2-Tetrachloroethane	0.8428	0.6466	15.00	11.51	ug/L	**-23**	30	0.3000	!c-
1,3-Dichlorobenzene	1.4634	1.4657	15.00	15.02	ug/L	0	30	0.0500	
1,4-Dichlorobenzene	1.4885	1.5341	15.00	15.46	ug/L	3	30	0.0500	
1,2-Dichlorobenzene	1.4210	1.4000	15.00	14.78	ug/L	-1	30	0.0500	
1,2-Dichloroethane-d4	0.3709	0.3587	50.00	48.35	ug/L	-3	30	0.0500	
Toluene-d8	1.3885	1.3855	50.00	49.89	ug/L	0	30	0.0500	
Bromofluorobenzene	1.0359	0.9091	50.00	43.88	ug/L	-12	30	0.0500	

ISTD (ICAL nh613)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	598915	686492	14.62	11.22	11.22	0.00
1,4-Difluorobenzene	1015820	1149740	13.18	12.06	12.06	0.00
Chlorobenzene-d5	938083	1094898	16.72	14.90	14.90	0.00
1,4-Dichlorobenzene-d4	477424	582079	21.92	16.94	16.94	0.00

Analyst: MCT Date: 08/14/13 Reviewer: BO Date: 08/15/13

!=warning -=low bias c=CCV v=ICV

Logbooks & Sequences

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 453326247

Date : 08/14/13 Reference : fha12
Sequence : MSVOA06 fhe Analyzed : 08/11/13 02:40

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	509102	12.46	1018784	13.81	907181	18.38	499266	21.10
		LOWER LIMIT	254551	11.96	509392	13.31	453591	17.88	249633	20.60
		UPPER LIMIT	1018204	12.96	2037568	14.31	1814362	18.88	998532	21.60
005	CCV		548048	12.49	1087728	13.83	1009524	18.40	550260	21.11
006	BS	QC701866	535986	12.48	1035122	13.82	974014	18.39	541290	21.11
007	BSD	QC701867	512145	12.48	988428	13.82	933910	18.39	501541	21.11
009	BLANK	QC701868	483850	12.49	940491	13.82	895927	18.39	477832	21.11
010	LOD	244812-010	479653	12.49	913224	13.83	895275	18.40	481494	21.12
011	LOD	244812-010	479934	12.49	935864	13.82	925433	18.39	496085	21.11
012	LOD	244812-010	465603	12.49	909362	13.83	874593	18.39	467559	21.11
013	LOD	244812-010	467876	12.49	904702	13.83	894335	18.40	486714	21.12
014	SAMPLE	247902-022	484853	12.50	960124	13.83	947119	18.40	503569	21.11
015	SAMPLE	247902-016	479603	12.49	945947	13.84	935449	18.40	500362	21.11
016	SAMPLE	247902-017	469340	12.49	923185	13.83	896822	18.39	483243	21.11
017	SAMPLE	247902-018	445378	12.49	866949	13.83	893149	18.40	481770	21.11
018	SAMPLE	247902-019	448644	12.49	895051	13.83	879110	18.39	469002	21.11
019	SAMPLE	247902-020	428654	12.49	839495	13.83	855305	18.40	451878	21.12
020	SAMPLE	247902-021	434581	12.49	854086	13.83	836785	18.40	443216	21.11
021	SAMPLE	247943-003	430395	12.49	833042	13.83	838064	18.39	436434	21.11
022	SAMPLE	247943-004	422559	12.49	844435	13.84	841575	18.40	455647	21.11
023	SAMPLE	247943-005	433078	12.50	868708	13.84	864391	18.40	461735	21.11
024	SAMPLE	247943-001	412182	12.49	836540	13.83	836202	18.40	440996	21.11
025	SAMPLE	247943-002	391981	12.49	806760	13.83	785839	18.40	417684	21.11
026	SAMPLE	247976-001	402803	12.49	821477	13.83	813778	18.40	447317	21.11
027	IB		436145	12.49	871089	13.83	858519	18.40	455909	21.11
028	IB		405875	12.49	851983	13.83	837500	18.40	448572	21.11
029	IB		473937	12.49	1000872	13.83	969906	18.40	512107	21.11

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 473326033

Date : 08/14/13 Reference : hck16
Sequence : MSVOA08 hhe Analyzed : 03/20/13 19:32

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	941940	10.05	1564588	11.23	1292144	15.68	691346	18.47
		LOWER LIMIT	470970	9.55	782294	10.73	646072	15.18	345673	17.97
		UPPER LIMIT	1883880	10.55	3129176	11.73	2584288	16.18	1382692	18.97
005	CCV		1057346	10.04	1546821	11.22	1380932	15.67	759710	18.46
006	BS	QC701760	956232	10.04	1440830	11.23	1273973	15.67	706606	18.46
007	BSD	QC701761	1072398	10.04	1607207	11.22	1416026	15.67	771584	18.47
009	BLANK	QC701762	1089031	10.04	1610657	11.22	1406677	15.67	745539	18.47
010	SAMPLE	247738-001	1018178	10.04	1545073	11.22	1374769	15.67	723174	18.47
011	SAMPLE	247902-003	1017896	10.04	1517222	11.22	1331603	15.67	706810	18.47
012	SAMPLE	247902-004	1024194	10.04	1490403	11.22	1336475	15.67	702917	18.47
013	SAMPLE	247902-005	942020	10.04	1352093	11.23	1208583	15.67	640802	18.47
014	SAMPLE	247933-001	979645	10.04	1464705	11.22	1294956	15.67	683835	18.46
015	SAMPLE	247902-007	984638	10.04	1466220	11.22	1290036	15.67	675828	18.46
016	SAMPLE	247902-008	1005914	10.04	1461095	11.23	1290303	15.67	687319	18.46
017	SAMPLE	247902-009	1003019	10.04	1487514	11.22	1301932	15.66	689332	18.47
018	SAMPLE	247902-010	900196	10.04	1330326	11.22	1164069	15.67	616651	18.46
019	SAMPLE	247902-011	891354	10.04	1328028	11.22	1162495	15.67	619541	18.46
020	SAMPLE	247902-012	971801	10.04	1440885	11.22	1263108	15.67	673300	18.46
021	SAMPLE	247902-013	905617	10.04	1337526	11.22	1168809	15.67	615772	18.46
022	SAMPLE	247902-014	887320	10.04	1305708	11.22	1137318	15.67	607977	18.46
023	SAMPLE	247902-015	946703	10.04	1402207	11.23	1212507	15.67	655248	18.47

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 943325988

Date : 08/14/13 Reference : mgo16
Sequence : MSVOA13 mhe Analyzed : 07/24/13 15:33

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	754540	11.39	1418479	12.23	1344645	15.05	616170	17.10
		LOWER LIMIT	377270	10.89	709240	11.73	672323	14.55	308085	16.60
		UPPER LIMIT	1509080	11.89	2836958	12.73	2689290	15.55	1232340	17.60
001	IB	IB	703589	11.39	1435887	12.23	1297737	15.05	552459	17.10
003	CCV	20PPB	802569	11.39	1488206	12.23	1473017	15.05	714012	17.10
005	CCV/BS	QC701790	818570	11.39	1509617	12.23	1459978	15.05	704326	17.10
007	CCV	20PPB	871338	11.39	1540742	12.23	1487354	15.05	735183	17.10
009	CCV	12.5PPB	1036228	11.39	1881601	12.23	1764417	15.05	846764	17.10
010	BS	QC701790	977200	11.39	1772485	12.23	1675582	15.05	795348	17.10
011	BSD	QC701791	972376	11.39	1763167	12.23	1662366	15.05	775482	17.10
012	IB	IB	901541	11.39	1727381	12.23	1574106	15.05	699828	17.10
013	BLANK	QC701792	838445	11.39	1631344	12.23	1498732	15.05	664590	17.10
014	SAMPLE	247818-024	827223	11.39	1614503	12.23	1475554	15.05	638398	17.10
015	SAMPLE	247944-001	811614	11.39	1601239	12.23	1476751	15.05	664251	17.10
016	SAMPLE	247944-003	779632	11.39	1544005	12.23	1408656	15.05	622664	17.10
017	SAMPLE	247944-004	809692	11.39	1565892	12.23	1439736	15.05	639046	17.10
018	SAMPLE	247944-005	756071	11.39	1520090	12.23	1416016	15.05	643434	17.10
019	SAMPLE	247944-006	760670	11.39	1540887	12.23	1414448	15.05	628910	17.10
020	SAMPLE	247944-007	736006	11.39	1488838	12.23	1361660	15.05	590093	17.10
021	SAMPLE	247902-006	742273	11.39	1512189	12.23	1409698	15.05	637629	17.10
022	SAMPLE	247818-013	767425	11.39	1571661	12.23	1445510	15.05	622080	17.10
023	SAMPLE	247818-014	745479	11.39	1522352	12.23	1403426	15.05	615632	17.10
024	SAMPLE	247818-015	747523	11.39	1533054	12.23	1403346	15.05	605270	17.10
025	SAMPLE	247818-016	748998	11.39	1512748	12.23	1402708	15.05	634778	17.10
026	SAMPLE	247818-017	735612	11.39	1500120	12.23	1375179	15.05	600042	17.10
027	SAMPLE	247818-019	733245	11.39	1524492	12.23	1393787	15.05	615323	17.10
028	SAMPLE	247818-020	720796	11.39	1497989	12.23	1375074	15.05	587524	17.10
029	SAMPLE	247818-021	712377	11.39	1491205	12.23	1361346	15.05	589499	17.10
030	SAMPLE	247818-022	733359	11.39	1521716	12.23	1389104	15.05	602696	17.10
031	SAMPLE	247818-023	723875	11.39	1512690	12.23	1376711	15.05	592347	17.10
032	SAMPLE	247818-018	728619	11.39	1539646	12.23	1409424	15.05	622759	17.10
033	SAMPLE	247944-002	725732	11.39	1509663	12.23	1368659	15.05	590644	17.10
034	IB	IB	717544	11.39	1490394	12.23	1358732	15.05	591976	17.10
035	IB	IB	725911	11.39	1508613	12.23	1391136	15.05	604066	17.10
036	IB	IB	711484	11.39	1487158	12.23	1354557	15.05	583965	17.10

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 953325804

Date : 08/14/13 Reference : nh613
Sequence : MSVOA14 nhe Analyzed : 08/06/13 12:31

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	598915	11.22	1015820	12.06	938083	14.90	477424	16.94
		LOWER LIMIT	299458	10.72	507910	11.56	469042	14.40	238712	16.44
		UPPER LIMIT	1197830	11.72	2031640	12.56	1876166	15.40	954848	17.44
003	CCV		686492	11.22	1149740	12.06	1094898	14.90	582079	16.94
004	BS	QC701750	705338	11.22	1172630	12.06	1108278	14.90	585325	16.94
005	BSD	QC701751	710267	11.22	1168313	12.06	1106906	14.90	582789	16.94
007	BLANK	QC701752	696818	11.22	1154489	12.06	1058958	14.90	514472	16.94
008	SAMPLE	247818-003	680765	11.22	1137266	12.06	1051051	14.90	507415	16.94
009	SAMPLE	247818-004	683912	11.22	1124433	12.06	1041384	14.90	511446	16.94
010	SAMPLE	247818-005	672155	11.22	1120563	12.06	1038007	14.90	506136	16.94
011	SAMPLE	247818-006	690335	11.22	1137101	12.06	1053576	14.90	513565	16.94
012	SAMPLE	247818-007	687271	11.22	1147758	12.06	1055928	14.90	515217	16.94
013	SAMPLE	247818-008	683852	11.22	1135122	12.06	1056973	14.90	508765	16.94
014	SAMPLE	247818-011	674006	11.22	1119384	12.06	1037257	14.90	503170	16.94
015	SAMPLE	247818-012	681469	11.22	1123849	12.06	1036482	14.90	511317	16.94
016	SAMPLE	247818-002	673715	11.22	1115229	12.06	1030519	14.90	508179	16.94
017	SAMPLE	247842-003	674595	11.22	1123413	12.06	1032753	14.90	511936	16.94
018	SAMPLE	247902-001	666010	11.22	1118005	12.06	1034810	14.90	504333	16.94
019	SAMPLE	247902-002	661612	11.22	1112164	12.06	1026975	14.90	502785	16.94
020	SAMPLE	247876-001	660960	11.22	1108363	12.06	1031778	14.90	499067	16.94
021	SAMPLE	247876-003	673851	11.22	1113378	12.06	1038244	14.90	509973	16.94
022	SAMPLE	247876-005	665492	11.22	1111082	12.06	1030568	14.90	508526	16.94
023	SAMPLE	247889-001	657170	11.22	1098078	12.06	1028767	14.90	504586	16.94
024	SAMPLE	247889-002	653943	11.22	1090716	12.06	1009222	14.90	498693	16.94
025	SAMPLE	247889-003	668996	11.22	1114763	12.06	1033311	14.90	506211	16.94
026	SAMPLE	247876-004	567596	11.22	944095	12.06	880532	14.90	442279	16.94

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 453320921

Instrument : MSVOA06 Begun : 08/10/13 20:41
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	fha01	TUN	BFB			08/10/13 20:41	1.0	1	
002	fha02	X	IB			08/10/13 21:11	1.0	2	
003	fha03	X	IB			08/10/13 21:44	1.0	2	
004	fha04	IB	CALIB IB			08/10/13 22:16	1.0	2	
005	fha05	ICAL	.25PPB			08/10/13 22:49	1.0	3 4 5 6 2	
006	fha06	ICAL	0.5PPB			08/10/13 23:22	1.0	3 4 5 6 2	
007	fha07	ICAL	1PPB			08/10/13 23:54	1.0	3 4 5 6 2	
008	fha08	ICAL	2PPB			08/11/13 00:27	1.0	3 7 5 6 2	
009	fha09	ICAL	5PPB			08/11/13 01:00	1.0	3 4 5 6 2	
010	fha10	ICAL	10PPB			08/11/13 01:33	1.0	3 4 5 6 2	
011	fha11	ICAL	20PPB			08/11/13 02:07	1.0	3 4 5 6 2	
012	fha12	ICAL	50PPB			08/11/13 02:40	1.0	3 4 5 6 2	
013	fha13	ICAL	75PPB			08/11/13 03:14	1.0	3 4 5 6 2	
014	fha14	ICAL	100PPB			08/11/13 03:47	1.0	3 4 5 6 2	
015	fha15	ICV	20PPBGAS			08/11/13 04:20	1.0	8 2	
016	fha16	ICV	25PPBMIX			08/11/13 04:53	1.0	9 10 11 2	
017	fha17	ICV	2CLEVE			08/11/13 05:27	1.0	12 2	
018	fha18	X	IB			08/11/13 05:59	1.0	2	
019	fha19	X	IB			08/11/13 06:32	1.0	2	

DAR 08/15/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 01 through 19.

Analyst: DAR Date: 08/12/13 Reviewer: SJD Date: 08/15/13

Standards used: 1=S22624 2=S22914 3=S23013 4=S21953 5=S22920 6=S21857 7=S21635 8=S22793 9=S22975 10=S22927 11=S22609 12=S17234

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 453326247

Instrument : MSVOA06 Begun : 08/14/13 13:27
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	fhe01	TUN	BFB			08/14/13 13:27	1.0	1	
002	fhe02	X	IB			08/14/13 13:47	1.0	2	
003	fhe03	ICV	IODO			08/14/13 14:19	1.0	3 2	
004	fhe04	TUN	BFB			08/14/13 15:14	1.0	1	
005	fhe05	CCV				08/14/13 15:43	1.0	4 5 6 7 2	
006	fhe06	BS	QC701866	Water	201700	08/14/13 16:16	1.0	8 9 10 11 2	
007	fhe07	BSD	QC701867	Water	201700	08/14/13 16:48	1.0	2 8 9 10 11	
008	fhe08	X	A/A			08/14/13 17:20	1.0	2	
009	fhe09	BLANK	QC701868	Water	201700	08/14/13 17:52	1.0	2	
010	fhe10	LOD	244812-010	Water	201700	08/14/13 18:24	1.0	4 5 6 7 2	
011	fhe11	LOD	244812-010	Water	201700	08/14/13 18:56	1.0	2 4 5 6 7	
012	fhe12	LOD	244812-010	Water	201700	08/14/13 19:28	1.0	2 4 5 6 7	
013	fhe13	LOD	244812-010	Water	201700	08/14/13 20:00	1.0	2 4 5 6 7	
014	fhe14	SAMPLE	247902-022	Water	201700	08/14/13 20:32	1.0	2	
015	fhe15	SAMPLE	247902-016	Water	201700	08/14/13 21:04	1.0	2	
016	fhe16	SAMPLE	247902-017	Water	201700	08/14/13 21:36	1.0	2	
017	fhe17	SAMPLE	247902-018	Water	201700	08/14/13 22:08	1.0	2	
018	fhe18	SAMPLE	247902-019	Water	201700	08/14/13 22:40	1.0	2	
019	fhe19	SAMPLE	247902-020	Water	201700	08/14/13 23:11	1.0	2	
020	fhe20	SAMPLE	247902-021	Water	201700	08/14/13 23:43	1.0	2	
021	fhe21	SAMPLE	247943-003	Water	201700	08/15/13 00:15	1.0	2	
022	fhe22	SAMPLE	247943-004	Water	201700	08/15/13 00:47	1.0	2	
023	fhe23	SAMPLE	247943-005	Water	201700	08/15/13 01:19	1.0	2	
024	fhe24	SAMPLE	247943-001	Water	201700	08/15/13 01:51	5.0	2	1:VC=170
025	fhe25	SAMPLE	247943-002	Water	201700	08/15/13 02:23	7.143	2	
026	fhe26	SAMPLE	247976-001	Water	201700	08/15/13 02:55	2.0	2	pH > 2
027	fhe27	IB				08/15/13 03:26	1.0	2	<<t
028	fhe28	IB				08/15/13 03:58	1.0	2	<<t
029	fhe29	IB				08/15/13 04:30	1.0	2	<<t

DAR 08/15/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 29.

DAR 08/15/13 : Matrix spikes were not performed for this analysis in batch 201700 due to insufficient sample amount.

Analyst: DAR Date: 08/15/13 Reviewer: SJD Date: 08/15/13

Standards used: 1=S22624 2=S22914 3=S21712 4=S21953 5=S23013 6=S22920 7=S22141 8=S22975 9=S22927 10=S23020 11=S22435

Flags used: <<t=out of clock

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 473114230

Instrument : MSVOA08 Begun : 03/20/13 07:50
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	hck01	X	IB			03/20/13 07:50	1.0	1	
002	hck02	X	IB			03/20/13 10:58	1.0	1	
003	hck03	X	IB			03/20/13 11:36	1.0	1	
004	hck04	X	IB			03/20/13 12:13	1.0	1	
005	hck05	X	IB			03/20/13 12:50	1.0	1	
006	hck06	TUN	BFB			03/20/13 13:23	1.0	2	t
007	hck07	TUN	BFB			03/20/13 14:05	1.0	2	
008	hck08	X	IB			03/20/13 14:30	1.0	1	
009	hck09	IB	CALIB			03/20/13 15:07	1.0	1	
010	hck10	ICAL				03/20/13 15:46	1.0	3 4 5 6 1	
011	hck11	ICAL				03/20/13 16:23	1.0	3 4 5 6 1	
012	hck12	ICAL				03/20/13 17:00	1.0	3 4 5 6 1	
013	hck13	ICAL				03/20/13 17:40	1.0	3 4 5 6 1	
014	hck14	ICAL				03/20/13 18:18	1.0	3 4 5 6 1	
015	hck15	ICAL				03/20/13 18:55	1.0	3 4 5 6 1	
016	hck16	ICAL				03/20/13 19:32	1.0	3 4 5 6 1	
017	hck17	ICAL				03/20/13 20:10	1.0	3 4 5 6 1	
018	hck18	ICAL				03/20/13 21:08	1.0	3 4 5 6 1	
019	hck19	ICV				03/20/13 21:54	1.0	7 1	
020	hck20	ICV				03/20/13 22:40	1.0	8 9 1 10	
021	hck21	X	IB			03/20/13 23:28	1.0	1	
022	hck22	X	IB			03/21/13 00:21	1.0	1	

MJB 03/22/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 22.

Analyst: MJB Date: 03/22/13 Reviewer: LW Date: 03/22/13

Standards used: 1=S21822 2=S21369 3=S21889 4=S21576 5=S21635 6=S21908 7=S21932 8=S21957 9=S21915 10=S21791

Flags used: t=tune failure

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 473326033

Instrument : MSVOA08 Begun : 08/14/13 07:23
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	hhe01	X	HIGH GASES			08/14/13 07:23	1.0	1	
002	hhe02	X	IB			08/14/13 08:01	1.0	1	
003	hhe03	TUN	BFB			08/14/13 09:53	1.0	2	t
004	hhe04	TUN	BFB			08/14/13 10:11	1.0	2	
005	hhe05	CCV				08/14/13 10:38	1.0	3 4 5 6 1	
006	hhe06	BS	QC701760	Water	201675	08/14/13 11:15	1.0	7 8 9 10 1	
007	hhe07	BSD	QC701761	Water	201675	08/14/13 11:53	1.0	7 8 9 10 1	
008	hhe08	ICAL				08/14/13 12:31	1.0	11 1	
009	hhe09	BLANK	QC701762	Water	201675	08/14/13 13:09	1.0	1	
010	hhe10	SAMPLE	247738-001	Water	201675	08/14/13 13:46	1.0	1	
011	hhe11	SAMPLE	247902-003	Water	201675	08/14/13 14:24	1.0	1	
012	hhe12	SAMPLE	247902-004	Water	201675	08/14/13 15:02	1.0	1	
013	hhe13	SAMPLE	247902-005	Water	201675	08/14/13 15:40	1.0	1	
014	hhe14	SAMPLE	247933-001	Water	201675	08/14/13 16:17	1.0	1	headspace <= 1 mL, pH > 2
015	hhe15	SAMPLE	247902-007	Water	201675	08/14/13 16:54	1.0	1	
016	hhe16	SAMPLE	247902-008	Water	201675	08/14/13 17:32	1.0	1	
017	hhe17	SAMPLE	247902-009	Water	201675	08/14/13 18:09	1.0	1	
018	hhe18	SAMPLE	247902-010	Water	201675	08/14/13 18:46	1.0	1	
019	hhe19	SAMPLE	247902-011	Water	201675	08/14/13 19:24	1.0	1	
020	hhe20	SAMPLE	247902-012	Water	201675	08/14/13 20:01	1.0	1	
021	hhe21	SAMPLE	247902-013	Water	201675	08/14/13 20:39	1.0	1	
022	hhe22	SAMPLE	247902-014	Water	201675	08/14/13 21:16	1.0	1	
023	hhe23	SAMPLE	247902-015	Water	201675	08/14/13 21:53	1.0	1	
024	hhe24	X	HIGH GAS		201675	08/14/13 22:31	1.0	1	
025	hhe25	X	IB			08/14/13 23:08	201700	1	
026	hhe26	X	IB			08/14/13 23:46	201700	1	

MJB 08/15/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 26.

MJB 08/15/13 : Matrix spikes were not performed for this analysis in batch 201675 due to insufficient sample amount.

Analyst: MJB Date: 08/15/13 Reviewer: BO Date: 08/15/13

Standards used: 1=S22913 2=S22624 3=S21953 4=S23013 5=S22920 6=S21857 7=S22975 8=S22927 9=S23020 10=S22435 11=S22949

Flags used: t=tune failure

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 943295688

Instrument : MSVOA13 Begun : 07/24/13 08:08
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	mgo01	TUN	BFB			07/24/13 08:08	1.0	1	
002	mgo02	IB	IB			07/24/13 08:47	1.0	2	
003	mgo03	X	LOW PT			07/24/13 09:28	1.0	2	
004	mgo04	X	LOW PT			07/24/13 09:55	1.0	2	
005	mgo05	X	LOW PT			07/24/13 10:23	1.0	2	
006	mgo06	TUN	BFB			07/24/13 10:56	1.0	1	
007	mgo07	X	IB			07/24/13 11:20	1.0	2	
008	mgo08	X	IB			07/24/13 11:48	1.0	2	
009	mgo09	IB	CALIB IB			07/24/13 12:16	1.0	2	
010	mgo10	ICAL	.25/.5PPB			07/24/13 12:44	1.0	3 4 5 6 2	
011	mgo11	ICAL	0.5/1PPB			07/24/13 13:12	1.0	3 4 5 6 2	
012	mgo12	ICAL	2PPB			07/24/13 13:40	1.0	3 4 5 6 2	
013	mgo13	ICAL	5PPB			07/24/13 14:08	1.0	3 4 5 6 2	
014	mgo14	ICAL	10PPB			07/24/13 14:36	1.0	3 4 5 6 2	
015	mgo15	ICAL	20PPB			07/24/13 15:04	1.0	3 4 5 6 2	
016	mgo16	ICAL	50PPB			07/24/13 15:33	1.0	3 4 5 6 2	
017	mgo17	ICAL	75PPB			07/24/13 16:01	1.0	3 4 5 6 2	
018	mgo18	ICAL	100PPB			07/24/13 16:29	1.0	3 4 5 6 2	
019	mgo19	ICV	25PPB			07/24/13 16:57	1.0	7 2	
020	mgo20	ICV	40PPB			07/24/13 17:25	1.0	8 2	
021	mgo21	ICV	25PPB			07/24/13 17:53	1.0	9 10 11 2	
022	mgo22	IB	IB			07/24/13 18:22	1.0	2	
023	mgo23	IB	IB			07/24/13 18:50	1.0	2	
024	mgo24	IB	IB			07/24/13 19:18	1.0	2	

BO 07/25/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 24.

Analyst: BO Date: 07/25/13 Reviewer: LW Date: 07/25/13

Standards used: 1=S22624 2=S22908 3=S21953 4=S22575 5=S22920 6=S22141 7=S22793 8=S17234 9=S22606 10=S22596 11=S22609

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 943297216

Instrument : MSVOA13 Begun : 07/25/13 09:36
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	mgp01	IB	IB			07/25/13 09:36	1.0	1	?t
002	mgp02	TUN	BFB			07/25/13 10:01	1.0	2	
003	mgp03	ICV	25PPB			07/25/13 10:30	1.0	3 4 5 6 1	

BO 07/25/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 3.

Analyst: BO Date: 07/25/13 Reviewer: LW Date: 07/25/13

Standards used: 1=S22908 2=S22624 3=S22666 4=S22596 5=S22793 6=S22609

Flags used: ?t=missing tune

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 943325988

Instrument : MSVOA13 Begun : 08/14/13 09:08
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	mhe01	IB	IB			08/14/13 09:08	1.0	1	?t
002	mhe02	TUN	BFB			08/14/13 10:32	1.0	2	
003	mhe03	CCV	20PPB			08/14/13 10:54	1.0	3 4 5 6 1	cc-
004	mhe04	TUN	BFB			08/14/13 11:35	1.0	2	
005	mhe05	CCV/BS	QC701790	Water	201683	08/14/13 11:57	1.0	7 8 9 10 1	
006	mhe06	TUN	BFB			08/14/13 12:32	1.0	2	
007	mhe07	CCV	20PPB			08/14/13 12:53	1.0	3 4 5 6 1	cc-
008	mhe08	TUN	BFB			08/14/13 14:44	1.0	2	
009	mhe09	CCV	12.5PPB			08/14/13 15:06	1.0	7 8 9 10 1	
010	mhe10	BS	QC701790	Water	201683	08/14/13 15:50	1.0	7 8 9 10 1	spk
011	mhe11	BSD	QC701791	Water	201683	08/14/13 16:20	1.0	7 8 9 10 1	spk
012	mhe12	IB	IB			08/14/13 16:48	1.0	1	
013	mhe13	BLANK	QC701792	Water	201683	08/14/13 17:16	1.0	1	
014	mhe14	SAMPLE	247818-024	Water	201683	08/14/13 17:44	1.0	1	spk
015	mhe15	SAMPLE	247944-001	Water	201683	08/14/13 18:13	1.0	1	
016	mhe16	SAMPLE	247944-003	Water	201683	08/14/13 18:41	1.0	1	
017	mhe17	SAMPLE	247944-004	Water	201683	08/14/13 19:09	1.0	1	
018	mhe18	SAMPLE	247944-005	Water	201683	08/14/13 19:37	1.0	1	
019	mhe19	SAMPLE	247944-006	Water	201683	08/14/13 20:05	1.0	1	
020	mhe20	SAMPLE	247944-007	Water	201683	08/14/13 20:33	1.0	1	
021	mhe21	SAMPLE	247902-006	Water	201683	08/14/13 21:01	1.0	1	spk
022	mhe22	SAMPLE	247818-013	Water	201683	08/14/13 21:29	1.0	1	spk
023	mhe23	SAMPLE	247818-014	Water	201683	08/14/13 21:57	1.0	1	spk
024	mhe24	SAMPLE	247818-015	Water	201683	08/14/13 22:25	1.0	1	spk
025	mhe25	SAMPLE	247818-016	Water	201683	08/14/13 22:53	1.0	1	spk
026	mhe26	SAMPLE	247818-017	Water	201683	08/14/13 23:21	1.0	1	spk
027	mhe27	SAMPLE	247818-019	Water	201683	08/14/13 23:48	1.0	1	spk
028	mhe28	SAMPLE	247818-020	Water	201683	08/15/13 00:16	1.0	1	spk
029	mhe29	SAMPLE	247818-021	Water	201683	08/15/13 00:44	1.0	1	spk
030	mhe30	SAMPLE	247818-022	Water	201683	08/15/13 01:12	1.0	1	spk
031	mhe31	SAMPLE	247818-023	Water	201683	08/15/13 01:39	1.0	1	spk
032	mhe32	SAMPLE	247818-018	Water	201683	08/15/13 02:07	2.0	1	spk
033	mhe33	SAMPLE	247944-002	Water	201683	08/15/13 02:35	5.0	1	
034	mhe34	IB	IB			08/15/13 03:03	1.0	1	<<t
035	mhe35	IB	IB			08/15/13 03:30	1.0	1	<<t
036	mhe36	IB	IB			08/15/13 03:58	1.0	1	<<t
037	mhe37	X	HIGH GAS			08/15/13 04:25	1.0	1	

BO 08/15/13 : mhe04, mhe06, mhe08, adjusted tune

BO 08/15/13 : Matrix spikes were not performed for this analysis in batch 201683 due to insufficient sample amount.

BO 08/15/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 37.

Analyst: BO Date: 08/15/13 Reviewer: SJD Date: 08/15/13

Standards used: 1=S22908 2=S22624 3=S21953 4=S23013 5=S22920 6=S22141 7=S22435 8=S22927 9=S23020 10=S22975

Flags used: -=low bias <<t=out of clock ?t=missing tune cc=CCV CCC failure spk=5% spike rule

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 953314372

Instrument : MSVOA14 Begun : 08/06/13 07:32
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	nh601	TUN	BFB			08/06/13 07:32	1.0	1	
002	nh602	TUN	BFB			08/06/13 07:41	1.0	1	t
003	nh603	TUN	BFB			08/06/13 07:53	1.0	1	
004	nh604	X	IB			08/06/13 08:14	1.0	2	
005	nh605	X	IB			08/06/13 08:42	1.0	2	
006	nh606	IB	CALIBRATION			08/06/13 09:11	1.0	2	
007	nh607	ICAL				08/06/13 09:39	1.0	3 4 5 6 2	
008	nh608	ICAL				08/06/13 10:08	1.0	3 4 5 6 2	
009	nh609	ICAL				08/06/13 10:36	1.0	3 4 5 6 2	
010	nh610	ICAL				08/06/13 11:05	1.0	3 4 5 6 2	
011	nh611	ICAL				08/06/13 11:33	1.0	3 4 5 6 2	
012	nh612	ICAL				08/06/13 12:02	1.0	3 4 5 6 2	
013	nh613	ICAL				08/06/13 12:31	1.0	3 4 5 6 2	
014	nh614	ICAL				08/06/13 12:59	1.0	3 4 5 6 2	
015	nh615	ICAL				08/06/13 13:28	1.0	3 4 5 6 2	
016	nh616	ICV				08/06/13 13:57	1.0	7 2	
017	nh617	ICV				08/06/13 14:26	1.0	8 9 10 2	
018	nh618	X	IB			08/06/13 14:55	1.0	2	
019	nh619	X	IB			08/06/13 15:24	1.0	2	
020	nh620	X	IB			08/06/13 15:52	1.0	2	

MCT 08/08/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 20.

Analyst: MCT Date: 08/08/13 Reviewer: SJD Date: 08/08/13

Standards used: 1=S22624 2=S22908 3=S22575 4=S22920 5=S21953 6=S22141 7=S22793 8=S22975 9=S22927 10=S22609

Flags used: t=tune failure

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 953325804

Instrument : MSVOA14 Begun : 08/14/13 06:04
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	nhe01	X	IB			08/14/13 06:04	1.0	1	
002	nhe02	TUN	BFB			08/14/13 07:16	1.0	2	
003	nhe03	CCV				08/14/13 07:38	1.0	3 4 5 1	
004	nhe04	BS	QC701750	Water	201672	08/14/13 08:21	1.0	6 7 8 9 1	
005	nhe05	BSD	QC701751	Water	201672	08/14/13 08:49	1.0	6 7 8 9 1	
006	nhe06	X	IB			08/14/13 09:17	1.0	1	
007	nhe07	BLANK	QC701752	Water	201672	08/14/13 09:46	1.0	1	
008	nhe08	SAMPLE	247818-003	Water	201672	08/14/13 10:14	1.0	1	
009	nhe09	SAMPLE	247818-004	Water	201672	08/14/13 10:43	1.0	1	
010	nhe10	SAMPLE	247818-005	Water	201672	08/14/13 11:11	1.0	1	
011	nhe11	SAMPLE	247818-006	Water	201672	08/14/13 11:40	1.0	1	
012	nhe12	SAMPLE	247818-007	Water	201672	08/14/13 12:09	1.0	1	
013	nhe13	SAMPLE	247818-008	Water	201672	08/14/13 12:38	1.0	1	1:TCE=370
014	nhe14	SAMPLE	247818-011	Water	201672	08/14/13 13:07	1.0	1	
015	nhe15	SAMPLE	247818-012	Water	201672	08/14/13 13:37	1.0	1	1:TCE=100
016	nhe16	SAMPLE	247818-002	Water	201672	08/14/13 14:06	1.0	1	
017	nhe17	SAMPLE	247842-003	Water	201672	08/14/13 14:35	1.0	1	2:ISOPROH=17000
018	nhe18	SAMPLE	247902-001	Water	201672	08/14/13 15:05	1.0	1	
019	nhe19	SAMPLE	247902-002	Water	201672	08/14/13 15:34	1.0	1	
020	nhe20	SAMPLE	247876-001	Water	201672	08/14/13 16:04	1.0	1	
021	nhe21	SAMPLE	247876-003	Water	201672	08/14/13 16:33	1.0	1	
022	nhe22	SAMPLE	247876-005	Water	201672	08/14/13 17:03	1.0	1	
023	nhe23	SAMPLE	247889-001	Water	201672	08/14/13 17:32	1.0	1	combined (sediment)
024	nhe24	SAMPLE	247889-002	Water	201672	08/14/13 18:02	1.0	1	
025	nhe25	SAMPLE	247889-003	Water	201672	08/14/13 18:31	1.0	1	
026	nhe26	SAMPLE	247876-004	Water	201672	08/14/13 19:00	12.50	1	
027	nhe27	X	IB			08/14/13 19:29	1.0	1	
028	nhe28	X	IB			08/14/13 19:58	1.0	1	
029	nhe29	X	IB			08/14/13 20:27	1.0	1	

MCT 08/15/13 : Matrix spikes were not performed for this analysis in batch 201672 due to insufficient sample amount.

MCT 08/15/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 29.

Analyst: MCT Date: 08/15/13 Reviewer: BO Date: 08/15/13

Standards used: 1=S22908 2=S22624 3=S23013 4=S22920 5=S22141 6=S22975 7=S22927 8=S23020 9=S22793

Page 1 of 1

MSVOA WATER Prepsheet Curtis & Tompkins, Ltd.

Date: 8/14/13 **Batch #:** 201672

	Sample ID	Vial	pH <2	pH (if >2)	HS?	Dil'n flask	MS#	RR	DF	Comments	20 % ccv	hold	due	init date
1	247818-3	B	✓				14		1x					
2	-4		✓											
16 3	-5		✓											
4	-6		✓											
5	-7		✓											
6	-8		✓											
7	-2	C	✓					1	1x	BROMOFORM CONTA.				
8	-11	B	✓						1x					
9	-12		✓											
16 10	247842-3	C	✓					1	1x	BROMOFORM CONT.				
11	247889-1	C+D	✓						1x	C+D = HIGH SEDIMENT.				
12	-2	C	✓											
17 13	-3		✓											
14	247876-1	C	✓						1x					
15	-3	C	✓											
16 16	-4	D	✓			1			12.5x					8/14
17	-5	B	✓						1x					
18	247902-1	A	✓						1x					
17 19	-2		✓											
20														
21														
22														

MSVOA WATER Prepsheet

Curtis & Tompkins, Ltd.

Date: 8/14/13

Batch #: 2016786 MB 8/17/13

	Sample ID	Vial	pH <2	pH (if >2)	HS?	Dil'n flask	MS#	RR	DF	Comments	20% ccv ?	hold	due	init date
16 1	247738-001	B	✓				8	1	1x	Sincere CO ✓		8/21	8/14	MB
17 2	247902-003	A	✓						1x					
3	-004		✓							SO_2				
4	-005		✓							↓				
5	-006		—							put off ; w/ VOA fridge & on a list				
6	-007		✓											
7	-008		✓											
8	-009		✓											
9	-010		✓											
10	-011		✓											
11	-012		✓											
12	-013		✓											
13	-014		✓											
14	-015		✓											
15	247933.1	B		7	1/5 mL				1	needs MA				
16														
17														
18														
19														
20														
21														
22														

MSVOA WATER Prepsheet

Curtis & Tompkins, Ltd.

Date: 8/14/13

Batch #: 201683

	Sample ID	Vial	pH <2	pH (if >2)	HS?	Dil'n flask	MS#	RR	DF	Comments	20 % ccv	hold	due	init date
17 1	247902-6	A	✓				13		1					
16 2	247818-13	B	✓						1					
3	-14		✓						1					
4	-15		✓						1					
5	-16		✓						1					
6	-17		✓						1					
7	-18	B	✗			8			2					
8	-19		✓						1					
9	-20		✓						1					
10	-21		✓						1					
11	-22		✓						1					
12	-23		✓						1					
13	-24	B	✓						1	TTS				
18 14	247944-1	A	✓						1					
15	-2		✗			10			5					
16	-3		✓						1					
17	-4		✓						1					
18	-5		✓						1					
19	-6		✓						1					
20	-7		✓						1					
21														
22														

MSVOA WATER Prepsheet Curtis & Tompkins, Ltd.

Date: 8/14/13 **Batch #:** 201700

	Sample ID	Vial	pH <2	pH (if >2)	HS?	Dil'n flask	MS# (6)	RR	DF	Comments	20 % ccv	hold	due	init date
1	244812-10									LOD 0.1 ppb				DR
2										0.2				
3										0.4				
4										1 ppb				
175	247945-2	F							1x					
6	-3													
7	-4									pulled off				
8	-5													
9	-6													
10	247902-16	A	✓											
11	-17		✓											
12	-18		✓											
13	-19		✓											
14	-20		✓											
15	-21		✓											
16	-22		✓							TB				
17	247970-1	D		4		7			2x					
18	247943-1	A	✓			5			5x					
19	-2		✓			7			7.14x					
20	-3		✓						1x					
21	-4		✓											
22	-5		✓											

Laboratory Job Number 247902

ANALYTICAL REPORT

Metals

Matrix: Water

Curtis & Tompkins, Ltd.

Chromium

Lab #:	247902	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Batch#:	201838
Matrix:	Water	Sampled:	08/12/13
Units:	ug/L	Received:	08/13/13
Diln Fac:	1.000	Prepared:	08/18/13

Field ID	Type	Lab ID	Result	RL	MDL	Analyzed
GMW-25LC	SAMPLE	247902-001	18	5.0	0.69	08/21/13
GMW-26LC	SAMPLE	247902-002	4.9 J	5.0	0.69	08/21/13
	BLANK	QC702468	ND	5.0	0.63	08/19/13

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

34.0

Curtis & Tompkins, Ltd.

Batch QC Report

Chromium

Lab #:	247902	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Batch#:	201838
Field ID:	ZZZZZZZZZZ	Sampled:	08/13/13
Matrix:	Water	Received:	08/13/13
Units:	ug/L	Prepared:	08/18/13
Diln Fac:	1.000	Analyzed:	08/19/13

Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS		QC702469		200.0	195.1	98	80-120		
BSD		QC702470		200.0	195.2	98	80-120	0	20
MS	247926-001	QC702471	3.461	200.0	202.1	99	80-120		
MSD	247926-001	QC702472		200.0	201.8	99	80-120	0	20
MS	247926-004	QC702475	<0.6258	200.0	195.4	98	80-120		
MSD	247926-004	QC702476		200.0	183.5	92	80-120	6	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Chromium

Lab #:	247902	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	ZZZZZZZZZZ	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	201838
MSS Lab ID:	247926-001	Sampled:	08/13/13
Lab ID:	QC702473	Received:	08/13/13
Matrix:	Water	Analyzed:	08/19/13

MSS Result	MSS RL	Result	RL	% Diff	Lim
3.461	5.000	4.264 J	25.00	NC	10

J= Estimated value
NC= Not Calculated
RL= Reporting Limit

36.0

Curtis & Tompkins, Ltd.

Batch QC Report

Chromium

Lab #:	247902	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
Type:	Post Digest Spike	Batch#:	201838
MSS Lab ID:	247926-001	Sampled:	08/13/13
Lab ID:	QC702474	Received:	08/13/13
Matrix:	Water	Analyzed:	08/19/13

MSS Result	Spiked	Result	%REC	Limits
3.461	200.0	209.4	103	75-125

REPORTING SUMMARY FOR 247902 METALS Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CR
247902-001	MET08	08/21/13 13:26	1.0	+
247902-002	MET08	08/21/13 13:30	1.0	+
QC702468	MET09	08/19/13 08:37	1.0	+
QC702468	MET09	08/19/13 12:42	1.0	
QC702469	MET09	08/19/13 08:42	1.0	+
QC702469	MET09	08/19/13 12:47	1.0	
QC702470	MET09	08/19/13 08:46	1.0	+
QC702470	MET09	08/19/13 12:52	1.0	
QC702471	MET09	08/19/13 08:58	1.0	+
QC702471	MET09	08/19/13 13:01	100.0	
QC702472	MET09	08/19/13 09:05	1.0	+
QC702472	MET09	08/19/13 13:06	100.0	
QC702473	MET09	08/19/13 09:12	5.0	+
QC702474	MET09	08/19/13 09:17	1.0	+
QC702475	MET09	08/19/13 09:44	1.0	+
QC702475	MET09	08/19/13 13:19	1.0	
QC702476	MET09	08/19/13 09:51	1.0	+
QC702476	MET09	08/19/13 13:23	1.0	

ICP Data

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 93333091

Instrument : MET09 Begun : 08/19/13 07:31
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	met09_sn	ICALBLK				08/19/13 07:31	1.0		
002	met09_sn	ICAL	CRI5.1			08/19/13 07:36	1.0	1	
003	met09_sn	ICAL	CS100			08/19/13 07:41	1.0	2	
004	met09_sn	ICAL	CS1K			08/19/13 07:45	1.0	3	
005	met09_sn	ICAL	CS10K			08/19/13 07:48	1.0	4	
006	met09_sn	ICAL	CS100K			08/19/13 07:54	1.0	5	
007	met09_sn	ICV				08/19/13 08:00	1.0	6	
008	met09_sn	ICB				08/19/13 08:07	1.0		
009	met09_sn	ICSA				08/19/13 08:12	1.0	7	10:MG=490000
010	met09_sn	ICSAB				08/19/13 08:21	1.0	8	5:AL=500000
011	met09_sn	XCRI				08/19/13 08:27	1.0	9	
012	met09_sn	CRI				08/19/13 08:32	1.0	9	
013	met09_sn	BLANK	QC702468	Water	201838	08/19/13 08:37	1.0		
014	met09_sn	BS	QC702469	Water	201838	08/19/13 08:42	1.0		
015	met09_sn	BSD	QC702470	Water	201838	08/19/13 08:46	1.0		
016	met09_sn	MSS	247926-001	Water	201838	08/19/13 08:50	1.0		1:NA=180000
017	met09_sn	MS	QC702471	Water	201838	08/19/13 08:58	1.0		
018	met09_sn	MSD	QC702472	Water	201838	08/19/13 09:05	1.0		
019	met09_sn	SER	QC702473	Water	201838	08/19/13 09:12	5.0		
020	met09_sn	PDS	QC702474	Water	201838	08/19/13 09:17	1.0	10 11	
021	met09_sn	CCV				08/19/13 09:24	1.0	12	
022	met09_sn	CCB				08/19/13 09:30	1.0		
023	met09_sn	MSS	247926-004	Water	201838	08/19/13 09:35	1.0		1:NA=300000
024	met09_sn	MS	QC702475	Water	201838	08/19/13 09:44	1.0		1:NA=330000
025	met09_sn	MSD	QC702476	Water	201838	08/19/13 09:51	1.0		1:NA=310000
026	met09_sn	SAMPLE	247976-001	Water	201838	08/19/13 09:58	1.0		
027	met09_sn	BLANK	QC702334	Miscell.	201806	08/19/13 10:03	1.0		
028	met09_sn	BS	QC702335	Miscell.	201806	08/19/13 10:08	1.0		
029	met09_sn	BSD	QC702336	Miscell.	201806	08/19/13 10:11	1.0		
030	met09_sn	MSS	247886-001	Soil	201806	08/19/13 10:15	1.0		1:FE=180000
031	met09_sn	MS	QC702337	Soil	201806	08/19/13 10:19	1.0		
032	met09_sn	MSD	QC702338	Soil	201806	08/19/13 10:22	1.0		1:FE=190000
033	met09_sn	ICSAB				08/19/13 10:25	1.0	8	5:MG=470000
034	met09_sn	CCV				08/19/13 10:31	1.0	12	
035	met09_sn	CCB				08/19/13 10:36	1.0		
036	met09_sn	SER	QC702339	Soil	201806	08/19/13 10:41	5.0		
037	met09_sn	PDS	QC702340	Soil	201806	08/19/13 10:45	1.0	13 14	
038	met09_sn	SAMPLE	248005-004	Soil	201806	08/19/13 10:48	1.0		3:FE=340000
039	met09_sn	SAMPLE	248006-004	Soil	201806	08/19/13 10:53	1.0		3:FE=480000
040	met09_sn	CCV				08/19/13 10:57	1.0	12	
041	met09_sn	CCB				08/19/13 11:03	1.0		
042	met09_sn	ICSAB				08/19/13 11:08	1.0	8	5:MG=470000

NT 08/19/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 42.

Standards used: 1=S22714 2=S22716 3=S22715 4=S22717 5=S22718 6=S22721 7=S22719 8=S22720 9=S22723 10=S21652 11=S21653 12=S22722 13=S22594 14=S22595

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 93333091

Date : 08/19/13 Reference : met09_sn
Sequence : MET09 08/19/13 Analyzed : 08/19/13 07:36

#	Type	Sample ID	Y A
		ICAL STD	2855492
		LOWER LIMIT	856648
		UPPER LIMIT	5710984
008	ICB		2931171
009	ICSA		2352507
010	ICSAB		2365350
013	BLANK	QC702468	2927949
014	BS	QC702469	2829477
015	BSD	QC702470	2818523
016	MSS	247926-001	2684334
017	MS	QC702471	2644167
018	MSD	QC702472	2664414
019	SER	QC702473	2863213
020	PDS	QC702474	2667152
021	CCV		2845787
022	CCB		2975725
023	MSS	247926-004	2690452
024	MS	QC702475	2572859
025	MSD	QC702476	2728751
026	SAMPLE	247976-001	2982543
027	BLANK	QC702334	3140531
028	BS	QC702335	2900330
029	BSD	QC702336	2891626
030	MSS	247886-001	2974369
031	MS	QC702337	2884413
032	MSD	QC702338	2869239
033	ICSAB		2471924
034	CCV		2974255
035	CCB		3073061
036	SER	QC702339	2958775
037	PDS	QC702340	2906375
038	SAMPLE	248005-004	2996497
039	SAMPLE	248006-004	3088827
040	CCV		2928118
041	CCB		3188527
042	ICSAB		2531786

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 247902 METALS Water: EPA 6010B

Inst : MET09 Reviewer : ---
Calnum : 93333091001 Date : 19-AUG-2013 07:31
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	met09_sn	93333091002	CRI5.1	19-AUG-2013 07:36	S22714
L2	met09_sn	93333091003	CS100	19-AUG-2013 07:41	S22716
L3	met09_sn	93333091004	CS1K	19-AUG-2013 07:45	S22715
L4	met09_sn	93333091005	CS10K	19-AUG-2013 07:48	S22717
L5	met09_sn	93333091006	CS100K	19-AUG-2013 07:54	S22718

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Chromium	A	263.26	244.81	241.50	239.47		LOR0	0.00000	0.00418		247.26	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Chromium	A	5.0000	10	100.00	2	1000.0	1	10000	0		

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 247902 METALS Water
EPA 6010B

Inst : MET09
Calnum : 93333091001 Cal Date : 19-AUG-2013

ICV 93333091007 (19-AUG-2013) stds: S22721

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Chromium	A	5000	4912	ug/L	-2	10	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 247902 METALS Water
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93333091008 File : met09_sn Time : 19-AUG-2013 08:07
Cal : 93333091001 Caldate : 19-AUG-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.252	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2855492	2931171	2.65

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR 247902 METALS Water
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93333091009 File : met09_sn Time : 19-AUG-2013 08:12
Cal : 93333091001 Caldate : 19-AUG-2013
Standards: S22719

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	18690	ug/L	93
Copper	A	20000	20110	ug/L	101
Manganese	A	20000	18050	ug/L	90
Nickel	A	20000	17280	ug/L	86
Vanadium	A	20000	19340	ug/L	97
Aluminum	R	500000	485200	ug/L	97
Calcium	R	500000	466600	ug/L	93
Iron	R	200000	183100	ug/L	92
Magnesium	R	500000	487500	ug/L	98
Titanium	R	20000	21140	ug/L	106

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2855492	2352507	-17.61

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 247902 METALS Water
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93333091010 File : met09_sn Time : 19-AUG-2013 08:21
Cal : 93333091001 Caldate : 19-AUG-2013
Standards: S22720

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	495.8	ug/L	-1	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2855492	2365350	-17.16

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247902 METALS Water
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93333091021 File : met09_sn Time : 19-AUG-2013 09:24
Cal : 93333091001 Caldate : 19-AUG-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	247.26	227.97	5000	4759	ug/L	-5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2855492	2845787	-0.34

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 247902 METALS Water
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93333091022 File : met09_sn Time : 19-AUG-2013 09:30
Cal : 93333091001 Caldate : 19-AUG-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.252	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2855492	2975725	4.21

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 247902 METALS Water
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93333091033 File : met09_sn Time : 19-AUG-2013 10:25
Cal : 93333091001 Caldate : 19-AUG-2013
Standards: S22720

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	478.0	ug/L	-4	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2855492	2471924	-13.43

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247902 METALS Water
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93333091034 File : met09_sn Time : 19-AUG-2013 10:31
Cal : 93333091001 Caldate : 19-AUG-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	247.26	217.70	5000	4545	ug/L	-9	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2855492	2974255	4.16

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 247902 METALS Water
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93333091035 File : met09_sn Time : 19-AUG-2013 10:36
Cal : 93333091001 Caldate : 19-AUG-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.252	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2855492	3073061	7.62

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83335936

Instrument : MET08 Begun : 08/21/13 06:56
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	met08_sn_6010	ICALBLK				08/21/13 06:56	1.0		
002	met08_sn_6010	ICAL	CRI5.1			08/21/13 07:01	1.0	1	
003	met08_sn_6010	ICAL	CS100			08/21/13 07:06	1.0	2	
004	met08_sn_6010	ICAL	CS1K			08/21/13 07:10	1.0	3	
005	met08_sn_6010	ICAL	CS10K			08/21/13 07:15	1.0	4	
006	met08_sn_6010	ICAL	CS100K			08/21/13 07:20	1.0	5	
007	met08_sn_6010	ICV				08/21/13 07:25	1.0	6	
008	met08_sn_6010	ICB				08/21/13 07:31	1.0		
009	met08_sn_6010	ICSA				08/21/13 07:36	1.0	7	10:AL=510000
010	met08_sn_6010	ICSAB				08/21/13 07:48	1.0	8	5:AL=500000
011	met08_sn_6010	XCRI				08/21/13 07:53	1.0	9	
012	met08_sn_6010	CRI				08/21/13 07:57	1.0	9	
013	met08_sn_6010	BLANK	QC702684	Miscell.	201889	08/21/13 08:04	1.0		
014	met08_sn_6010	SAMPLE	248123-001	Soil	201889	08/21/13 08:09	1.0		5:FE=380000
015	met08_sn_6010	SAMPLE	248124-001	Soil	201889	08/21/13 08:13	1.0		4:CA=1400000
016	met08_sn_6010	SAMPLE	248124-001	Soil	201889	08/21/13 08:16	1.0		4:CA=1400000
017	met08_sn_6010	SAMPLE	247844-019	Soil	201759	08/21/13 08:19	100.0		
018	met08_sn_6010	SAMPLE	247844-020	Soil	201759	08/21/13 08:23	1.0		4:CA=680000
019	met08_sn_6010	CCV				08/21/13 08:27	1.0	10	
020	met08_sn_6010	CCB				08/21/13 08:32	1.0		
021	met08_sn_6010	ICSAB				08/21/13 08:37	1.0	8	5:AL=500000
022	met08_sn_6010	BLANK	QC702461	Filtrate	201837	08/21/13 08:49	1.0		
023	met08_sn_6010	BS	QC702462	Filtrate	201837	08/21/13 08:54	1.0		
024	met08_sn_6010	BSD	QC702463	Filtrate	201837	08/21/13 08:58	1.0		
025	met08_sn_6010	MSS	247818-001	Filtrate	201837	08/21/13 09:02	1.0		3:CA=200000
026	met08_sn_6010	MS	QC702464	Filtrate	201837	08/21/13 09:07	1.0		
027	met08_sn_6010	MSD	QC702465	Filtrate	201837	08/21/13 09:11	1.0		
028	met08_sn_6010	SER	QC702466	Filtrate	201837	08/21/13 09:16	5.0		
029	met08_sn_6010	PDS	QC702467	Filtrate	201837	08/21/13 09:21	1.0	11 12	
030	met08_sn_6010	SAMPLE	247818-002	Filtrate	201837	08/21/13 09:25	1.0		3:CA=280000
031	met08_sn_6010	SAMPLE	247818-003	Filtrate	201837	08/21/13 09:30	1.0		2:CA=240000
032	met08_sn_6010	CCV				08/21/13 09:35	1.0	10	
033	met08_sn_6010	CCB				08/21/13 09:41	1.0		
034	met08_sn_6010	SAMPLE	247818-005	Filtrate	201837	08/21/13 09:46	1.0		3:NA=320000
035	met08_sn_6010	SAMPLE	247818-006	Filtrate	201837	08/21/13 09:51	1.0		2:NA=190000
036	met08_sn_6010	SAMPLE	247818-007	Filtrate	201837	08/21/13 09:56	1.0		2:NA=430000
037	met08_sn_6010	SAMPLE	247818-008	Filtrate	201837	08/21/13 10:02	1.0		2:CA=210000
038	met08_sn_6010	SAMPLE	247818-009	Filtrate	201837	08/21/13 10:07	1.0		2:NA=270000
039	met08_sn_6010	SAMPLE	247818-010	Filtrate	201837	08/21/13 10:12	1.0		2:NA=400000
040	met08_sn_6010	SAMPLE	247818-011	Filtrate	201837	08/21/13 10:17	1.0		3:NA=450000
041	met08_sn_6010	SAMPLE	247818-012	Filtrate	201837	08/21/13 10:22	1.0		2:CA=280000
042	met08_sn_6010	SAMPLE	247818-013	Filtrate	201837	08/21/13 10:30	1.0		3:CA=430000
043	met08_sn_6010	SAMPLE	247818-021	Filtrate	201837	08/21/13 10:35	1.0		2:NA=200000
044	met08_sn_6010	ICSAB				08/21/13 10:40	1.0	8	5:AL=510000
045	met08_sn_6010	CCV				08/21/13 10:45	1.0	10	
046	met08_sn_6010	CCB				08/21/13 10:51	1.0		
047	met08_sn_6010	SAMPLE	247818-022	Filtrate	201837	08/21/13 10:56	1.0		3:CA=430000
048	met08_sn_6010	SAMPLE	247889-001	Filtrate	201837	08/21/13 11:01	1.0		
049	met08_sn_6010	SAMPLE	247889-002	Filtrate	201837	08/21/13 11:05	1.0		
050	met08_sn_6010	SAMPLE	247889-003	Filtrate	201837	08/21/13 11:10	1.0		
051	met08_sn_6010	BLANK	QC702197	Soil	201779	08/21/13 11:14	1.0		
052	met08_sn_6010	BS	QC702198	Soil	201779	08/21/13 11:19	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83335936

Instrument : MET08 Begun : 08/21/13 06:56
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
053	met08_sn_6010	BSD	QC702199	Soil	201779	08/21/13 11:23	1.0		
054	met08_sn_6010	MSS	247890-002	Soil	201779	08/21/13 11:27	1.0		4:FE=550000
055	met08_sn_6010	MS	QC702200	Soil	201779	08/21/13 11:31	1.0		
056	met08_sn_6010	MSD	QC702201	Soil	201779	08/21/13 11:34	1.0		
057	met08_sn_6010	CCV				08/21/13 11:37	1.0	10	
058	met08_sn_6010	CCB				08/21/13 11:43	1.0		
059	met08_sn_6010	SAMPLE	247882-005	Soil	201779	08/21/13 11:48	1.0		3:CA=710000
060	met08_sn_6010	SAMPLE	247890-001	Soil	201779	08/21/13 11:51	1.0		3:FE=530000
061	met08_sn_6010	SAMPLE	247890-003	Soil	201779	08/21/13 11:55	1.0		3:FE=390000
062	met08_sn_6010	SAMPLE	247890-005	Soil	201779	08/21/13 11:58	1.0		4:FE=550000
063	met08_sn_6010	SAMPLE	247890-006	Soil	201779	08/21/13 12:01	1.0		3:FE=520000
064	met08_sn_6010	SAMPLE	247890-007	Soil	201779	08/21/13 12:07	1.0		4:FE=520000
065	met08_sn_6010	SAMPLE	247890-005	Soil	201779	08/21/13 12:10	1.0		4:FE=550000
066	met08_sn_6010	SAMPLE	247890-009	Soil	201779	08/21/13 12:14	1.0		6:FE=430000
067	met08_sn_6010	SAMPLE	247890-010	Soil	201779	08/21/13 12:17	1.0		3:FE=430000
068	met08_sn_6010	SAMPLE	247890-011	Soil	201779	08/21/13 12:20	1.0		4:FE=610000
069	met08_sn_6010	ICSAB				08/21/13 12:24	1.0	8	5:AL=500000
070	met08_sn_6010	CCV				08/21/13 12:29	1.0	10	
071	met08_sn_6010	CCB				08/21/13 12:34	1.0		
072	met08_sn_6010	SAMPLE	247890-013	Soil	201779	08/21/13 12:40	1.0		3:FE=510000
073	met08_sn_6010	SAMPLE	247890-014	Soil	201779	08/21/13 12:43	1.0		3:FE=460000
074	met08_sn_6010	SAMPLE	247890-015	Soil	201779	08/21/13 12:46	1.0		3:FE=420000
075	met08_sn_6010	SAMPLE	247890-017	Soil	201779	08/21/13 12:49	1.0		4:FE=500000
076	met08_sn_6010	SAMPLE	247890-018	Soil	201779	08/21/13 12:53	1.0		3:FE=540000
077	met08_sn_6010	SAMPLE	247890-019	Soil	201779	08/21/13 12:56	1.0		3:FE=470000
078	met08_sn_6010	SAMPLE	247890-020	Soil	201779	08/21/13 12:59	1.0		5:FE=460000
079	met08_sn_6010	SAMPLE	247890-021	Soil	201779	08/21/13 13:05	1.0		4:FE=530000
080	met08_sn_6010	SAMPLE	247890-022	Soil	201779	08/21/13 13:08	1.0		4:FE=520000
081	met08_sn_6010	MSS	247926-004	Water	201838	08/21/13 13:12	100.0		
082	met08_sn_6010	CCV				08/21/13 13:16	1.0	10	
083	met08_sn_6010	CCB				08/21/13 13:21	1.0		
084	met08_sn_6010	SAMPLE	247902-001	Water	201838	08/21/13 13:26	1.0		1:NA=130000
085	met08_sn_6010	SAMPLE	247902-002	Water	201838	08/21/13 13:30	1.0		3:CA=370000
086	met08_sn_6010	SAMPLE	247904-002	Water	201838	08/21/13 13:35	10.0		
087	met08_sn_6010	SAMPLE	247907-001	Water	201838	08/21/13 13:40	1.0		
088	met08_sn_6010	SAMPLE	247907-001	Water	201838	08/21/13 13:45	10.0		
089	met08_sn_6010	SAMPLE	247918-001	Water	201838	08/21/13 13:50	10.0		
090	met08_sn_6010	SAMPLE	247926-002	Water	201838	08/21/13 13:55	1.0		1:NA=190000
091	met08_sn_6010	SAMPLE	247926-003	Water	201838	08/21/13 13:59	1.0		
092	met08_sn_6010	SAMPLE	247926-005	Water	201838	08/21/13 14:04	1.0		1:NA=180000
093	met08_sn_6010	SAMPLE	247926-007	Water	201838	08/21/13 14:10	1.0		
094	met08_sn_6010	ICSAB				08/21/13 14:15	1.0	8	5:AL=500000
095	met08_sn_6010	CCV				08/21/13 14:20	1.0	10	
096	met08_sn_6010	CCB				08/21/13 14:26	1.0		
097	met08_sn_6010	SAMPLE	247932-001	Water	201838	08/21/13 14:31	1.0		1:NA=130000
098	met08_sn_6010	SAMPLE	247986-001	Water	201838	08/21/13 14:35	1.0		1:NA=140000
099	met08_sn_6010	SAMPLE	247988-001	Water	201838	08/21/13 14:39	1.0		
100	met08_sn_6010	BLANK	QC702522	Soil	201848	08/21/13 14:43	1.0		
101	met08_sn_6010	BS	QC702523	Soil	201848	08/21/13 14:48	1.0		
102	met08_sn_6010	BSD	QC702524	Soil	201848	08/21/13 14:53	1.0		
103	met08_sn_6010	MSS	247927-001	Soil	201848	08/21/13 14:57	1.0		3:FE=250000
104	met08_sn_6010	MS	QC702525	Soil	201848	08/21/13 15:00	1.0		1:FE=280000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83335936

Instrument : MET08 Begun : 08/21/13 06:56
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
105	met08_sn_6010	MSD	QC702526	Soil	201848	08/21/13 15:03	1.0		
106	met08_sn_6010	SER	QC702527	Soil	201848	08/21/13 15:06	5.0		
107	met08_sn_6010	CCV				08/21/13 15:11	1.0	10	
108	met08_sn_6010	CCB				08/21/13 15:16	1.0		
109	met08_sn_6010	PDS	QC702528	Soil	201848	08/21/13 15:21	1.0	13 14	1:FE=270000
110	met08_sn_6010	SAMPLE	247919-001	Soil	201848	08/21/13 15:24	1.0		3:FE=480000
111	met08_sn_6010	SAMPLE	247919-002	Soil	201848	08/21/13 15:27	1.0		3:FE=540000
112	met08_sn_6010	SAMPLE	247919-003	Soil	201848	08/21/13 15:31	1.0		3:FE=530000
113	met08_sn_6010	SAMPLE	247919-005	Soil	201848	08/21/13 15:34	1.0		3:FE=510000
114	met08_sn_6010	SAMPLE	247919-006	Soil	201848	08/21/13 15:37	1.0		3:FE=470000
115	met08_sn_6010	SAMPLE	247919-007	Soil	201848	08/21/13 15:41	1.0		3:FE=430000
116	met08_sn_6010	SAMPLE	247919-009	Soil	201848	08/21/13 15:44	1.0		4:FE=580000
117	met08_sn_6010	SAMPLE	247919-010	Soil	201848	08/21/13 15:47	1.0		3:FE=520000
118	met08_sn_6010	SAMPLE	247919-011	Soil	201848	08/21/13 15:51	1.0		3:FE=570000
119	met08_sn_6010	ICSAB				08/21/13 15:54	1.0	8	5:AL=510000
120	met08_sn_6010	CCV				08/21/13 15:59	1.0	10	
121	met08_sn_6010	CCB				08/21/13 16:05	1.0		
122	met08_sn_6010	SAMPLE	247919-013	Soil	201848	08/21/13 16:10	1.0		4:FE=580000
123	met08_sn_6010	SAMPLE	247919-014	Soil	201848	08/21/13 16:13	1.0		3:FE=490000
124	met08_sn_6010	SAMPLE	247919-015	Soil	201848	08/21/13 16:17	1.0		3:FE=530000
125	met08_sn_6010	SAMPLE	247927-002	Soil	201848	08/21/13 16:20	1.0		2:FE=320000
126	met08_sn_6010	SAMPLE	247927-003	Soil	201848	08/21/13 16:23	1.0		2:FE=170000
127	met08_sn_6010	SAMPLE	247927-004	Soil	201848	08/21/13 16:26	1.0		1:FE=180000
128	met08_sn_6010	SAMPLE	247930-001	Soil	201848	08/21/13 16:30	1.0		1:FE=140000
129	met08_sn_6010	SAMPLE	247940-001	Soil	201848	08/21/13 16:34	1.0		5:CA=460000
130	met08_sn_6010	SAMPLE	247940-002	Soil	201848	08/21/13 16:37	1.0		3:FE=460000
131	met08_sn_6010	BLANK	QC702919	Soil	201945	08/21/13 16:40	1.0		
132	met08_sn_6010	CCV				08/21/13 16:45	1.0	10	
133	met08_sn_6010	CCB				08/21/13 16:50	1.0		
134	met08_sn_6010	BS	QC702920	Soil	201945	08/21/13 16:55	1.0		
135	met08_sn_6010	BSD	QC702921	Soil	201945	08/21/13 16:59	1.0		
136	met08_sn_6010	MSS	248085-001	Miscell.	201945	08/21/13 17:04	1.0		8:FE=650000
137	met08_sn_6010	MS	QC702922	Miscell.	201945	08/21/13 17:09	1.0		8:FE=750000
138	met08_sn_6010	MSD	QC702923	Miscell.	201945	08/21/13 17:14	1.0		9:FE=2100000
139	met08_sn_6010	SER	QC702924	Miscell.	201945	08/21/13 17:20	5.0		
140	met08_sn_6010	PDS	QC702925	Miscell.	201945	08/21/13 17:24	1.0	13 14	
141	met08_sn_6010	SAMPLE	248143-001	Soil	201945	08/21/13 17:30	1.0		2:FE=240000
142	met08_sn_6010	SAMPLE	248164-001	Soil	201945	08/21/13 17:33	1.0		3:FE=1200000
143	met08_sn_6010	SAMPLE	248164-002	Soil	201945	08/21/13 17:38	1.0		5:FE=3600000
144	met08_sn_6010	ICSAB				08/21/13 17:44	1.0	8	5:MG=520000
145	met08_sn_6010	CCV				08/21/13 17:49	1.0	10	
146	met08_sn_6010	CCB				08/21/13 17:55	1.0		
147	met08_sn_6010	SAMPLE	248050-013	Soil	201945	08/21/13 18:00	1.0		5:FE=350000
148	met08_sn_6010	SAMPLE	248050-014	Soil	201945	08/21/13 18:03	1.0		3:CA=470000
149	met08_sn_6010	SAMPLE	248050-015	Soil	201945	08/21/13 18:07	1.0		5:CA=330000
150	met08_sn_6010	SAMPLE	248084-002	Soil	201945	08/21/13 18:12	1.0		4:FE=280000
151	met08_sn_6010	SAMPLE	248084-003	Soil	201945	08/21/13 18:15	1.0		4:FE=260000
152	met08_sn_6010	SAMPLE	248085-002	Miscell.	201945	08/21/13 18:18	1.0		6:CA=530000
153	met08_sn_6010	SAMPLE	248085-003	Miscell.	201945	08/21/13 18:24	1.0		7:MG=1900000
154	met08_sn_6010	SAMPLE	248097-001	Soil	201945	08/21/13 18:27	1.0		1:FE=180000
155	met08_sn_6010	SAMPLE	248097-002	Soil	201945	08/21/13 18:30	1.0		1:FE=190000
156	met08_sn_6010	SAMPLE	248097-003	Soil	201945	08/21/13 18:34	1.0		2:FE=200000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83335936

Instrument : MET08 Begun : 08/21/13 06:56
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
157	met08_sn_6010	CCV				08/21/13 18:37	1.0	10	
158	met08_sn_6010	CCB				08/21/13 18:42	1.0		
159	met08_sn_6010	SAMPLE	248097-004	Soil	201945	08/21/13 18:47	1.0		1:FE=170000
160	met08_sn_6010	SAMPLE	248097-005	Soil	201945	08/21/13 18:51	1.0		1:FE=200000
161	met08_sn_6010	SAMPLE	248097-006	Soil	201945	08/21/13 18:54	1.0		1:FE=170000
162	met08_sn_6010	SAMPLE	248097-007	Soil	201945	08/21/13 18:57	1.0		2:FE=300000
163	met08_sn_6010	SAMPLE	248097-008	Soil	201945	08/21/13 19:00	1.0		4:FE=370000
164	met08_sn_6010	SAMPLE	248149-005	Soil	201945	08/21/13 19:04	1.0		4:FE=410000
165	met08_sn_6010	SAMPLE	247890-007	Soil	201779	08/21/13 19:07	1.0		4:FE=530000
166	met08_sn_6010	SAMPLE	247890-009	Soil	201779	08/21/13 19:10	1.0		6:FE=450000
167	met08_sn_6010	SAMPLE	247890-011	Soil	201779	08/21/13 19:14	1.0		4:FE=630000
168	met08_sn_6010	CCV				08/21/13 19:17	1.0	10	
169	met08_sn_6010	CCB				08/21/13 19:22	1.0		
170	met08_sn_6010	ICSAB				08/21/13 19:28	1.0	8	5:MG=520000

NT 08/22/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 170.

Standards used: 1=S22714 2=S22716 3=S22715 4=S22717 5=S22718 6=S22721 7=S22719 8=S22720 9=S22723 10=S22722 11=S21652 12=S21653 13=S22594 14=S22595

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83335936

Date : 08/21/13 Reference : met08_sn_6010
Sequence : MET08 08/21/13 Analyzed : 08/21/13 07:01

#	Type	Sample ID	Y A
		ICAL STD	3273602
		LOWER LIMIT	982080
		UPPER LIMIT	6547203
008	ICB		3353157
009	ICSA		2762975
010	ICSAB		2748355
013	BLANK	QC702684	3380966
014	SAMPLE	248123-001	3130082
015	SAMPLE	248124-001	2808002
016	SAMPLE	248124-001	2804702
017	SAMPLE	247844-019	3386048
018	SAMPLE	247844-020	3023055
019	CCV		3182097
020	CCB		3310870
021	ICSAB		2750239
022	BLANK	QC702461	3440427
023	BS	QC702462	3284831
024	BSD	QC702463	3259852
025	MSS	247818-001	3010051
026	MS	QC702464	2976244
027	MSD	QC702465	3015613
028	SER	QC702466	3182233
029	PDS	QC702467	3006167
030	SAMPLE	247818-002	3066940
031	SAMPLE	247818-003	3028964
032	CCV		3144962
033	CCB		3306370
034	SAMPLE	247818-005	2999791
035	SAMPLE	247818-006	3129523
036	SAMPLE	247818-007	2936727
037	SAMPLE	247818-008	3009283
038	SAMPLE	247818-009	2996069
039	SAMPLE	247818-010	2967534
040	SAMPLE	247818-011	2931504
041	SAMPLE	247818-012	2901179
042	SAMPLE	247818-013	2994601
043	SAMPLE	247818-021	3069426
044	ICSAB		2727568
045	CCV		3201555
046	CCB		3324100
047	SAMPLE	247818-022	3029883
048	SAMPLE	247889-001	3158735
049	SAMPLE	247889-002	3141308
050	SAMPLE	247889-003	3149930
051	BLANK	QC702197	3351177
052	BS	QC702198	3159472
053	BSD	QC702199	3171836
054	MSS	247890-002	3122791
055	MS	QC702200	3157614
056	MSD	QC702201	3165656
057	CCV		3166978

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83335936

Date : 08/21/13 Reference : met08_sn_6010
Sequence : MET08 08/21/13 Analyzed : 08/21/13 07:01

#	Type	Sample ID	Y A
058	CCB		3345940
059	SAMPLE	247882-005	3000286
060	SAMPLE	247890-001	3251631
061	SAMPLE	247890-003	3198074
062	SAMPLE	247890-005	3195509
063	SAMPLE	247890-006	3259273
064	SAMPLE	247890-007	3083723
065	SAMPLE	247890-005	3216303
066	SAMPLE	247890-009	3225404
067	SAMPLE	247890-010	3163364
068	SAMPLE	247890-011	3205499
069	ICSAB		2728612
070	CCV		3170549
071	CCB		3274023
072	SAMPLE	247890-013	3244835
073	SAMPLE	247890-014	3169921
074	SAMPLE	247890-015	3158986
075	SAMPLE	247890-017	3219749
076	SAMPLE	247890-018	3190425
077	SAMPLE	247890-019	3145044
078	SAMPLE	247890-020	3209135
079	SAMPLE	247890-021	3101407
080	SAMPLE	247890-022	3093505
081	MSS	247926-004	3232561
082	CCV		3114206
083	CCB		3255497
084	SAMPLE	247902-001	3074121
085	SAMPLE	247902-002	2905001
087	SAMPLE	247907-001	3111350
088	SAMPLE	247907-001	3222685
090	SAMPLE	247926-002	3002808
091	SAMPLE	247926-003	3194323
092	SAMPLE	247926-005	3084389
093	SAMPLE	247926-007	3257583
094	ICSAB		2728415
095	CCV		3145389
096	CCB		3301620
097	SAMPLE	247932-001	3154551
098	SAMPLE	247986-001	3099518
099	SAMPLE	247988-001	3116622
100	BLANK	QC702522	3365384
101	BS	QC702523	3190531
102	BSD	QC702524	3219975
103	MSS	247927-001	3125644
104	MS	QC702525	3107885
105	MSD	QC702526	3101924
106	SER	QC702527	3218321
107	CCV		3106755
108	CCB		3262592
109	PDS	QC702528	3057406
110	SAMPLE	247919-001	3186706
111	SAMPLE	247919-002	3218363

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83335936

Date : 08/21/13 Reference : met08_sn_6010
Sequence : MET08 08/21/13 Analyzed : 08/21/13 07:01

#	Type	Sample ID	Y A
112	SAMPLE	247919-003	3240211
113	SAMPLE	247919-005	3156134
114	SAMPLE	247919-006	3199291
115	SAMPLE	247919-007	3151786
116	SAMPLE	247919-009	3126896
117	SAMPLE	247919-010	3214926
118	SAMPLE	247919-011	3197117
119	ICSAB		2683220
120	CCV		3100029
121	CCB		3286567
122	SAMPLE	247919-013	3068779
123	SAMPLE	247919-014	3132658
124	SAMPLE	247919-015	3207802
125	SAMPLE	247927-002	3121674
126	SAMPLE	247927-003	3123694
127	SAMPLE	247927-004	3166365
128	SAMPLE	247930-001	3155883
129	SAMPLE	247940-001	3068661
130	SAMPLE	247940-002	3074648
131	BLANK	QC702919	3336412
132	CCV		3131407
133	CCB		3237681
134	BS	QC702920	3152608
135	BSD	QC702921	3091881
136	MSS	248085-001	2887653
137	MS	QC702922	2874073
138	MSD	QC702923	2733351
139	SER	QC702924	3097759
140	PDS	QC702925	2882736
141	SAMPLE	248143-001	3088360
142	SAMPLE	248164-001	3009907
143	SAMPLE	248164-002	2443888
144	ICSAB		2633719
145	CCV		3046259
146	CCB		3220678
147	SAMPLE	248050-013	2968228
148	SAMPLE	248050-014	2962487
149	SAMPLE	248050-015	3027845
150	SAMPLE	248084-002	2963759
151	SAMPLE	248084-003	2973756
152	SAMPLE	248085-002	2833126
153	SAMPLE	248085-003	2647086
154	SAMPLE	248097-001	3113757
155	SAMPLE	248097-002	3089437
156	SAMPLE	248097-003	3070996
157	CCV		3040947
158	CCB		3224240
159	SAMPLE	248097-004	3063132
160	SAMPLE	248097-005	3085698
161	SAMPLE	248097-006	3061056
162	SAMPLE	248097-007	3044558
163	SAMPLE	248097-008	3006951

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83335936

Date : 08/21/13 Reference : met08_sn_6010
Sequence : MET08 08/21/13 Analyzed : 08/21/13 07:01

#	Type	Sample ID	Y A
164	SAMPLE	248149-005	3042805
165	SAMPLE	247890-007	3058887
166	SAMPLE	247890-009	3113244
167	SAMPLE	247890-011	3098831
168	CCV		3033653
169	CCB		3202772
170	ICSAB		2619964

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 247902 METALS Water: EPA 6010B

Inst : MET08 Reviewer : ---
Calnum : 83335936001 Date : 21-AUG-2013 06:56
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	met08_sn_6010	83335936002	CRI5.1	21-AUG-2013 07:01	S22714
L2	met08_sn_6010	83335936003	CS100	21-AUG-2013 07:06	S22716
L3	met08_sn_6010	83335936004	CS1K	21-AUG-2013 07:10	S22715
L4	met08_sn_6010	83335936005	CS10K	21-AUG-2013 07:15	S22717
L5	met08_sn_6010	83335936006	CS100K	21-AUG-2013 07:20	S22718

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Chromium	A	91.680	106.58	106.56	105.96		LOR0	0.00000	0.00944		102.69	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Chromium	A	5.0000	-13	100.00	1	1000.0	1	10000	0		

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 247902 METALS Water
EPA 6010B

Inst : MET08
Calnum : 83335936001 Cal Date : 21-AUG-2013

ICV 83335936007 (21-AUG-2013) stds: S22721

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Chromium	A	5000	5002	ug/L	0	10	

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR 247902 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83335936009 File : met08_sn_6010 Time : 21-AUG-2013 07:36
Cal : 83335936001 Caldate : 21-AUG-2013
Standards: S22719

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19310	ug/L	97
Copper	A	20000	20220	ug/L	101
Manganese	A	20000	18560	ug/L	93
Nickel	A	20000	17880	ug/L	89
Vanadium	A	20000	19660	ug/L	98
Aluminum	R	500000	508600	ug/L	102
Calcium	R	500000	490400	ug/L	98
Iron	R	200000	193200	ug/L	97
Magnesium	R	500000	502100	ug/L	100
Titanium	R	20000	20980	ug/L	105

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3273602	2762975	-15.60

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 247902 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83335936069 File : met08_sn_6010 Time : 21-AUG-2013 12:24
Cal : 83335936001 Caldate : 21-AUG-2013
Standards: S22720

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	500.7	ug/L	0	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3273602	2728612	-16.65

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247902 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83335936082 File : met08_sn_6010 Time : 21-AUG-2013 13:16
Cal : 83335936001 Caldate : 21-AUG-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	102.69	108.72	5000	5130	ug/L	3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3273602	3114206	-4.87

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 247902 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83335936083 File : met08_sn_6010 Time : 21-AUG-2013 13:21
Cal : 83335936001 Caldate : 21-AUG-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3273602	3255497	-0.55

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 247902 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83335936094 File : met08_sn_6010 Time : 21-AUG-2013 14:15
Cal : 83335936001 Caldate : 21-AUG-2013
Standards: S22720

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	506.2	ug/L	1	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3273602	2728415	-16.65

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247902 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83335936095 File : met08_sn_6010 Time : 21-AUG-2013 14:20
Cal : 83335936001 Caldate : 21-AUG-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	102.69	107.69	5000	5081	ug/L	2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3273602	3145389	-3.92

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 247902 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83335936096 File : met08_sn_6010 Time : 21-AUG-2013 14:26
Cal : 83335936001 Caldate : 21-AUG-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3273602	3301620	0.86

SAMPLE PREPARATION SUMMARY

Batch # : 201838
Started By : VV
Method : 3010A
Spike #1 ID : S21652

Prep Date : 18-AUG-2013 00:01
SOP Version : 3010A_icp_rv15
Spike #2 ID : S21653

Analysis : ICAP
Finished By : VV
Units : mL

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
247902-001		Water	50	50	1	1.0						CR	
247902-002		Water	50	50	1	1.0						CR	
247904-002		Water	50	50	1	1.0						HARDNESS	
247907-001		Water	50	50	1	1.0						CA, CU, FE, HARDNESS, K, MG, MN, NA	
247918-001		Water	50	50	1	1.0						HARDNESS	
247926-001		Water	50	50	1	1.0						PB	
247926-002		Water	50	50	1	1.0						PB	
247926-003		Water	50	50	1	1.0						PB	
247926-004		Water	50	50	1	1.0						PB	
247926-005		Water	50	50	1	1.0						PB	
247926-007		Water	50	50	1	1.0						PB	
247932-001		Water	50	50	1	1.0						PB	
247976-001		Water	50	50	1	1.0						T22/ICP	
247986-001		Water	50	50	1	1.0						PB	
247988-001		Water	50	50	1	1.0						PB	
QC702468	BLANK	Water	50	50	1	1.0							
QC702469	BS	Water	50	50	1	1.0		.5	.5				
QC702470	BSD	Water	50	50	1	1.0		.5	.5				
QC702471	MS	Water	50	50	1	1.0		.5	.5				
QC702472	MSD	Water	50	50	1	1.0		.5	.5				
QC702473	SER	Water	50	50	1	1.0							
QC702474	PDS	Water	50	50	1	1.0							
QC702475	MS	Water	50	50	1	1.0		.5	.5				
QC702476	MSD	Water	50	50	1	1.0		.5	.5				

Analyst: NT Date: 08/19/13 Reviewer: PRW Date: 08/19/13

Water Digestion for ICP

Curtis & Tompkins, Ltd.

LIMS Batch #: 201838
Digested by: VV
Date Digested: 8-16-13

Digestion Method
☒ EPA 3010a for ICP
☐ EPA 200.7
☐ _____

BK3443
Page 99

Lvl.	Sample #	Container ID	Volume Sample(mL)	Final Volume (mL)	Filtered? (y/n)	ID Π	Comments
	BIK 702468		☒ 50 ☐	☒ 50 ☐	NO	✓	
	* BS 69		☒ 50 ☐	☒ 50 ☐		✓	
	* BSD 70		☒ 50 ☐	☒ 50 ☐		✓	
	* 247926-001 MS		☒ 50 ☐	☒ 50 ☐		✓	
5	* - 001 MSD		☒ 50 ☐	☒ 50 ☐		✓	
	* - 004 MS		☒ 50 ☐	☒ 50 ☐		✓	
	* - 004 MSD		☒ 50 ☐	☒ 50 ☐		✓	
III	247902-001	D	☒ 50 ☐	☒ 50 ☐		✓	
	- 002		☒ 50 ☐	☒ 50 ☐		✓	
II 10	247904-002	G	☒ 50 ☐	☒ 50 ☐		✓	
II	247907-001	A	☒ 50 ☐	☒ 50 ☐		✓	
II	247918-001	A	☒ 50 ☐	☒ 50 ☐		✓	
III	247926-001	M	☒ 50 ☐	☒ 50 ☐		✓	
	- 002	E	☒ 50 ☐	☒ 50 ☐		✓	
15	- 003		☒ 50 ☐	☒ 50 ☐		✓	
	- 004	M	☒ 50 ☐	☒ 50 ☐		✓	
	- 005	E	☒ 50 ☐	☒ 50 ☐		✓	
	- 007		☒ 50 ☐	☒ 50 ☐		✓	
III	247932-001	E	☒ 50 ☐	☒ 50 ☐		✓	
II 20	247976-001	G	☒ 50 ☐	☒ 50 ☐		✓	
III	247986-001	E	☒ 50 ☐	☒ 50 ☐		✓	
III	247988-001	E	☒ 50 ☐	☒ 50 ☐		✓	
			☐ 50 ☐	☐ 50 ☐			
		VV	☐ 50 ☐ 8-17-13	☐ 50 ☐			
			☐ 50 ☐	☐ 50 ☐			

	Reagent ID or LIMS #	Initials / Date
Digestion tubes, lot #	162909	8-16-13
0.5 mL of spike solution (Std1) was added to all spikes	S21652	
0.5 mL of spike solution (Std2) was added to all spikes	S21653 *	
Digestion Temperature (°C), Block and Probe Location	95°C A16	
digestion begun at (time)	11pm	
1:1 HCl	40272-081713	8-17-13 VV
concentrated HNO3	3390-JTB	8-16-13 VV
digestion ended at (time)	~~8pm~~ WS 8PM	8-17-13 VV
☐ filtered thru' Whatman # 541	—	
Relinquished to ICP group	ICAP	

8-17-13
Prep Chemist / Date

Continued from page ___
Continued on page ___

Reviewed by / Date

Laboratory Job Number 247902

ANALYTICAL REPORT

Metals

Matrix: Filtrate

Curtis & Tompkins, Ltd.

Dissolved Chromium

Lab #:	247902	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 200.8
Project#:	39049-103	Analysis:	EPA 6020
Analyte:	Chromium	Sampled:	08/12/13
Matrix:	Filtrate	Received:	08/13/13
Units:	ug/L	Prepared:	08/19/13
Diln Fac:	5.000	Analyzed:	08/20/13
Batch#:	201898		

Field ID	Type	Lab ID	Result	RL	MDL
GMW-25LC	SAMPLE	247902-001	18	1.0	0.15
GMW-26LC	SAMPLE	247902-002	4.5	1.0	0.15
	BLANK	QC702727	ND	1.0	0.15

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

38.0

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Chromium

Lab #:	247902	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 200.8
Project#:	39049-103	Analysis:	EPA 6020
Analyte:	Chromium	Batch#:	201898
Field ID:	GMW-25LC	Sampled:	08/12/13
MSS Lab ID:	247902-001	Received:	08/13/13
Matrix:	Filtrate	Prepared:	08/19/13
Units:	ug/L	Analyzed:	08/20/13
Diln Fac:	5.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC702728		100.0	105.4	105	75-120		
BSD	QC702729		100.0	103.7	104	75-120	2	21
MS	QC702730	17.94	100.0	109.7	92	68-120		
MSD	QC702731		100.0	114.3	96	68-120	4	25

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Chromium

Lab #:	247902	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 200.8
Project#:	39049-103	Analysis:	EPA 6020
Analyte:	Chromium	Units:	ug/L
Field ID:	GMW-25LC	Diln Fac:	25.00
Type:	Serial Dilution	Batch#:	201898
MSS Lab ID:	247902-001	Sampled:	08/12/13
Lab ID:	QC702732	Received:	08/13/13
Matrix:	Filtrate	Analyzed:	08/20/13

MSS Result	MSS RL	Result	RL	% Diff	Lim
17.94	1.000	20.04	2.500	12 *	10

*= Value outside of QC limits; see narrative
RL= Reporting Limit

40.0

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Chromium

Lab #:	247902	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 200.8
Project#:	39049-103	Analysis:	EPA 6020
Analyte:	Chromium	Units:	ug/L
Field ID:	GMW-25LC	Diln Fac:	5.000
Type:	Post Digest Spike	Batch#:	201898
MSS Lab ID:	247902-001	Sampled:	08/12/13
Lab ID:	QC702733	Received:	08/13/13
Matrix:	Filtrate	Analyzed:	08/20/13

MSS Result	Spiked	Result	%REC	Limits
17.94	250.0	249.4	93	75-125

REPORTING SUMMARY FOR 247902 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CR
247902-001	MET26	08/20/13 16:41	5.0	+
247902-001	MET26	08/21/13 15:07	5.0	
247902-002	MET26	08/20/13 17:19	5.0	+
247902-002	MET26	08/21/13 16:37	5.0	
QC702727	MET26	08/20/13 16:27	5.0	+
QC702727	MET26	08/21/13 14:53	5.0	
QC702728	MET26	08/20/13 16:32	5.0	+
QC702728	MET26	08/21/13 14:58	5.0	
QC702729	MET26	08/20/13 16:36	5.0	+
QC702729	MET26	08/21/13 15:03	5.0	
QC702730	MET26	08/20/13 16:46	5.0	+
QC702730	MET26	08/21/13 15:12	5.0	
QC702731	MET26	08/20/13 17:05	5.0	+
QC702731	MET26	08/21/13 15:31	5.0	
QC702732	MET26	08/20/13 17:10	25.0	+
QC702732	MET26	08/21/13 15:36	25.0	
QC702733	MET26	08/20/13 17:14	5.0	+
QC702733	MET26	08/21/13 15:41	5.0	

ICPMS Data

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 1013334754

Instrument : MET26 Begun : 08/20/13 11:14
Method : EPA 6020 SOP Version : icpms_rv5

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	13h20l00001	X	RINSE			08/20/13 11:14	1.0	1	
002	13h20l00002	TUN				08/20/13 11:19	1.0	2	
003	13h20l00003	ICALBLK	CALBLANK			08/20/13 11:24	1.0	1	
004	13h20l00004	ICAL				08/20/13 11:28	1.0	3 1	
005	13h20l00005	ICAL				08/20/13 11:33	1.0	4 1	
006	13h20l00006	ICAL				08/20/13 11:38	1.0	5 1	
007	13h20l00007	ICAL				08/20/13 11:43	1.0	6 1	
008	13h20l00008	ICAL				08/20/13 11:47	1.0	7 1	
009	13h20l00009	ICAL				08/20/13 11:52	1.0	8 1	
010	13h20l00010	X				08/20/13 11:56	1.0	9 1	
011	13h20l00011	ICV				08/20/13 12:01	1.0	9 1	
012	13h20l00012	X				08/20/13 12:06	1.0	10 1	
013	13h20l00013	CRI				08/20/13 12:10	1.0	10 1	
014	13h20l00014	X				08/20/13 12:15	1.0	1	
015	13h20l00015	ICB				08/20/13 12:20	1.0	1	
016	13h20l00016	ICSA				08/20/13 12:25	1.0	11 1	7:CA=270000
017	13h20l00017	ICSAB				08/20/13 12:29	1.0	12 1	7:CA=280000
018	13h20l00018	X	RINSE			08/20/13 12:34	1.0	1	
019	13h20l00019	X	RINSE			08/20/13 12:39	1.0	1	
020	13h20l00020	BS	QC702422	Filtrate	201826	08/20/13 12:44	1.0	1	
021	13h20l00021	BSD	QC702423	Filtrate	201826	08/20/13 12:48	1.0	1	
022	13h20l00022	X	RINSE			08/20/13 12:53	1.0	1	
023	13h20l00023	BLANK	QC702505	Water	201845	08/20/13 12:58	5.0	1	
024	13h20l00024	BS	QC702506	Water	201845	08/20/13 13:03	5.0	1	1:BA=380
025	13h20l00025	BSD	QC702507	Water	201845	08/20/13 13:07	5.0	1	1:BA=370
026	13h20l00026	MSS	247993-008	Water	201845	08/20/13 13:12	5.0	1	
027	13h20l00027	MS	QC702508	Water	201845	08/20/13 13:17	5.0	1	1:BA=390
028	13h20l00028	MSD	QC702509	Water	201845	08/20/13 13:21	5.0	1	1:BA=320
029	13h20l00029	SAMPLE	248106-001	Water	201845	08/20/13 13:26	5.0	1	3:NA=86000
030	13h20l00030	SAMPLE	248107-002	Water	201845	08/20/13 13:31	5.0	1	1:CA=97000
031	13h20l00031	CCV				08/20/13 13:35	1.0	13 1	
032	13h20l00032	X				08/20/13 13:40	1.0	1	
033	13h20l00033	CCB				08/20/13 13:45	1.0	1	
034	13h20l00034	ICSA				08/20/13 13:50	1.0	11 1	7:CA=270000
035	13h20l00035	ICSAB				08/20/13 13:54	1.0	12 1	7:CA=280000
036	13h20l00036	X	RINSE			08/20/13 13:59	1.0	1	
037	13h20l00037	X	RINSE			08/20/13 14:04	1.0	1	
038	13h20l00038	X	RINSE			08/20/13 14:09	1.0	1	
039	13h20l00039	BLANK	QC702510	Water	201846	08/20/13 14:14	5.0	1	
040	13h20l00040	BS	QC702511	Water	201846	08/20/13 14:18	5.0	1	
041	13h20l00041	BSD	QC702512	Water	201846	08/20/13 14:23	5.0	1	
042	13h20l00042	MSS	248107-001	Water	201846	08/20/13 14:28	5.0	1	1:NA=180000
043	13h20l00043	MS	QC702513	Water	201846	08/20/13 14:32	5.0	1	
044	13h20l00044	MSD	QC702514	Water	201846	08/20/13 14:37	5.0	1	
045	13h20l00045	SAMPLE	247993-004	Water	201846	08/20/13 14:42	5.0	1	1:NA=30000
046	13h20l00046	SAMPLE	248107-003	Water	201846	08/20/13 14:46	5.0	1	5:NA=29000
047	13h20l00047	ICSA				08/20/13 14:51	1.0	11 1	7:CA=260000
048	13h20l00048	ICSAB				08/20/13 14:56	1.0	12 1	7:CA=270000
049	13h20l00049	ICSAB				08/20/13 15:00	1.0	12 1	7:CA=250000
050	13h20l00050	X	RINSE			08/20/13 15:05	1.0	1	
051	13h20l00051	X	RINSE			08/20/13 15:10	1.0	1	
052	13h20l00052	BLANK	QC702365	Water	201814	08/20/13 15:15	5.0	1	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 1013334754

Instrument : MET26 Begun : 08/20/13 11:14
Method : EPA 6020 SOP Version : icpms_rv5

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
053	13h20l00053	BS	QC702366	Water	201814	08/20/13 15:19	5.0	1	
054	13h20l00054	CCV				08/20/13 15:24	1.0	13 1	
055	13h20l00055	X				08/20/13 15:29	1.0	1	
056	13h20l00056	CCB				08/20/13 15:34	1.0	1	
057	13h20l00057	BSD	QC702367	Water	201814	08/20/13 15:39	5.0	1	
058	13h20l00058	MSS	247842-007	Water	201814	08/20/13 15:44	5.0	1	
059	13h20l00059	MS	QC702368	Water	201814	08/20/13 15:49	5.0	1	
060	13h20l00060	MSD	QC702369	Water	201814	08/20/13 15:54	5.0	1	
061	13h20l00061	SAMPLE	247842-001	Water	201814	08/20/13 15:58	5.0	1	1:NA=28000
062	13h20l00062	ICSA				08/20/13 16:03	1.0	11 1	7:CA=280000
063	13h20l00063	ICSAB				08/20/13 16:08	1.0	12 1	7:CA=300000
064	13h20l00064	X	RINSE			08/20/13 16:13	1.0	1	
065	13h20l00065	X	RINSE			08/20/13 16:17	1.0	1	
066	13h20l00066	X	RINSE			08/20/13 16:22	1.0	1	
067	13h20l00067	BLANK	QC702727	Filtrate	201898	08/20/13 16:27	5.0	1	
068	13h20l00068	BS	QC702728	Filtrate	201898	08/20/13 16:32	5.0	1	
069	13h20l00069	BSD	QC702729	Filtrate	201898	08/20/13 16:36	5.0	1	
070	13h20l00070	MSS	247902-001	Filtrate	201898	08/20/13 16:41	5.0	1	1:NA=23000
071	13h20l00071	MS	QC702730	Filtrate	201898	08/20/13 16:46	5.0	1	
072	13h20l00072	CCV				08/20/13 16:51	1.0	13 1	
073	13h20l00073	X				08/20/13 16:55	1.0	1	
074	13h20l00074	CCB				08/20/13 17:00	1.0	1	
075	13h20l00075	MSD	QC702731	Filtrate	201898	08/20/13 17:05	5.0	1	
076	13h20l00076	SER	QC702732	Filtrate	201898	08/20/13 17:10	25.0	1	
077	13h20l00077	PDS	QC702733	Filtrate	201898	08/20/13 17:14	5.0	14 15 1	
078	13h20l00078	SAMPLE	247902-002	Filtrate	201898	08/20/13 17:19	5.0	1	3:CA=70000
079	13h20l00079	SAMPLE	247920-001	Filtrate	201898	08/20/13 17:24	5.0	1	
080	13h20l00080	SAMPLE	247920-002	Filtrate	201898	08/20/13 17:28	5.0	1	
081	13h20l00081	SAMPLE	247920-003	Filtrate	201898	08/20/13 17:33	5.0	1	
082	13h20l00082	SAMPLE	247973-001	Filtrate	201898	08/20/13 17:38	5.0	1	
083	13h20l00083	SAMPLE	248019-001	Filtrate	201898	08/20/13 17:42	5.0	1	3:CA=53000
084	13h20l00084	SAMPLE	248031-001	Filtrate	201898	08/20/13 17:47	5.0	1	4:NA=240000
085	13h20l00085	CCV				08/20/13 17:52	1.0	13 1	
086	13h20l00086	X				08/20/13 17:57	1.0	1	
087	13h20l00087	CCB				08/20/13 18:01	1.0	1	
088	13h20l00088	SAMPLE	248031-002	Filtrate	201898	08/20/13 18:06	5.0	1	2:NA=940000
089	13h20l00089	SAMPLE	248031-003	Filtrate	201898	08/20/13 18:11	5.0	1	5:NA=210000
090	13h20l00090	SAMPLE	248031-005	Filtrate	201898	08/20/13 18:16	5.0	1	2:NA=490000
091	13h20l00091	SAMPLE	247888-002	Filtrate	201898	08/20/13 18:20	5.0	1	5:NA=740000
092	13h20l00092	SAMPLE	247888-003	Filtrate	201898	08/20/13 18:25	5.0	1	3:NA=910000
093	13h20l00093	SAMPLE	247888-004	Filtrate	201898	08/20/13 18:30	5.0	1	4:NA=780000
094	13h20l00094	SAMPLE	248075-001	Filtrate	201898	08/20/13 18:34	5.0	1	4:NA=1000000
095	13h20l00095	CCV				08/20/13 18:39	1.0	13 1	
096	13h20l00096	X				08/20/13 18:44	1.0	1	
097	13h20l00097	CCB				08/20/13 18:49	1.0	1	
098	13h20l00098	ICSA				08/20/13 18:54	1.0	11 1	7:CA=290000
099	13h20l00099	ICSAB				08/20/13 18:58	1.0	12 1	7:CA=290000
100	13h20l00100	X	RINSE			08/20/13 19:03	1.0	1	
101	13h20l00101	X	RINSE			08/20/13 19:08	1.0	1	
102	13h20l00102	X	RINSE			08/20/13 19:13	1.0	1	
103	13h20l00103	X	RINSE			08/20/13 19:18	1.0	1	
104	13h20l00104	X	RINSE			08/20/13 19:23	1.0	1	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 1013334754

Instrument : MET26 Begun : 08/20/13 11:14
Method : EPA 6020 SOP Version : icpms_rv5

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
105	13h20l00105	X	RINSE			08/20/13 19:27	1.0	1	
106	13h20l00106	X	RINSE			08/20/13 19:32	1.0	1	

AH 08/20/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 35.

PRW 08/22/13 : Runs 36-99 were not verified

Standards used: 1=S23014 2=S22962 3=S22515 4=S22516 5=S22517 6=S22518 7=S22513 8=S22514 9=S22958 10=S22963 11=S22960 12=S22961 13=S22959 14=S20711 15=S20712

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 1013334754

Date : 08/20/13 Reference : 13h20l00003
Sequence : MET26 13h20l00 Analyzed : 08/20/13 11:24

#	Type	Sample ID	LI A	SC A	SC E	SC H	GE H	GE E	IN A	BI A	Y A	TB A
		IB+ICALBLK STD	336937	770908	22322	495831	89567	11376	428554	264480	615495	477890
		LOWER LIMIT	101081	231272	6697	148749	26870	3413	128566	79344	184649	143367
		UPPER LIMIT	404324	925090	26786	594997	107480	13651	514265	317376	738594	573468
015	ICB		329114	844705	25408	574642	106113	13521	483293	296062	786759 *	539617
016	ICSA		306736	783058	22063	564973	98346	11471	410326	256392	600086	498579
017	ICSAB		317081	757571	22057	534249	95336	11478	388854	244406	577055	474860
020	BS	QC702422	357791	805701	24605	575565	102972	12584	422433	261197	624684	484467
021	BSD	QC702423	365400	816495	24376	584419	103609	12570	426339	263315	690406	487171
023	BLANK	QC702505	370373	825493	25134	572477	103351	12927	451859	277904	654618	502880
024	BS	QC702506	363217	811271	25069	588779	105658	12964	443485	269819	641778	492169
025	BSD	QC702507	367791	817255	25056	580519	104456	12911	441911	269377	707926	491949
027	MS	QC702508	367788	824082	24748	582844	105498	12997	445278	272043	922048 *	497464
028	MSD	QC702509	439195 *	990079 *	25143	584892	106245	13060	555098 *	320937 *	1056309 *	629988 *
031	CCV		379443	815662	24614	584369	103901	12439	420722	258599	623152	481566
033	CCB		336215	838031	26309	575806	106602	13572	482165	294998	754267 *	536459
034	ICSA		307329	765895	22416	552337	95843	11723	397030	248116	589257	481383
035	ICSAB		310629	736941	22049	554498	98238	11357	387605	241896	574191	469381
039	BLANK	QC702510	355563	801173	24870	558949	100598	12816	440309	268849	643014	481093
040	BS	QC702511	359295	808892	24824	571547	101841	12748	437590	269138	641265	483810
041	BSD	QC702512	358205	806851	24875	542795	94994	12620	437817	269724	638254	484681
043	MS	QC702513	300338	781069	24270	557119	99360	12342	429527	262469	624576	492125
044	MSD	QC702514	300057	780928	24550	551028	98875	12477	425323	262137	624565	490297
047	ICSA		306147	767660	22589	594401	101794	11874	397591	247983	624705	507416
048	ICSAB		307899	758321	22676	537984	95614	11845	395858	246805	649299	524972
049	ICSAB		312092	772111	22539	528858	94449	11646	394490	245756	689447	551501
052	BLANK	QC702365	323422	783305	24414	525109	93366	12545	434922	267520	634912	476582
053	BS	QC702366	330851	788142	24774	536732	94880	12580	428627	263026	665477	470170
054	CCV		339700	783126	24243	563544	100933	12232	409229	252213	611099	464585
056	CCB		307606	808333	25568	550399	103045	13197	460459	284460	662525	506057
057	BSD	QC702367	334252	798872	25256	561525	101040	12808	433609	268581	638245	481607
059	MS	QC702368	350114	810203	25613	574223	103293	13028	434856	267171	643741	480900
060	MSD	QC702369	349995	798258	25271	575702	102875	12795	433509	265411	637872	476774
062	ICSA		286024	734361	22543	535999	93743	11636	382826	240462	574263	463889
063	ICSAB		290523	667095	21773	533214	94718	11335	375424	236479	572892	454614
067	BLANK	QC702727	333551	784144	24322	545694	97976	12349	432333	262162	630368	464382
068	BS	QC702728	341150	793093	24729	559342	100486	12557	430611	264243	634446	471756
069	BSD	QC702729	344767	798221	24802	546217	97469	12578	430470	265160	637546	470742
070	MSS	247902-001	321233	790263	24655	515914	91503	12778	431251	262758	626308	472494
071	MS	QC702730	333837	800678	24907	559616	100882	12677	430507	263375	629967	474330
072	CCV		351879	792903	24973	573386	102252	12591	410320	249872	614147	461840
074	CCB		317092	819062	25558	550873	101772	13179	459268	280682	721610	500940
075	MSD	QC702731	326517	797513	25023	565087	100925	12804	428336	263276	624937	473182
076	SER	QC702732	347068	808589	25454	561296	102897	13185	447648	272816	647783	480370
077	PDS	QC702733	331852	802953	24812	571549	102314	12578	424213	260897	623598	469170
078	SAMPLE	247902-002	333516	809351	25539	567125	102762	12976	428439	260966	636807	487971
079	SAMPLE	247920-001	341240	795829	24764	564175	102203	12561	431718	260914	631350	468991
080	SAMPLE	247920-002	346495	788278	24393	546984	100097	12470	428183	257438	627039	462882
081	SAMPLE	247920-003	344784	771183	24135	543121	98807	12348	420566	251495	610116	452235
082	SAMPLE	247973-001	352444	761591	23865	538880	97980	12312	416968	248115	612590	446545
084	SAMPLE	248031-001	282463	670305	22520	522747	91454	11320	384810	216377	581500	436449
085	CCV		334770	756868	23647	544482	96347	11967	398405	240843	598453	444185

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 1013334754

Date : 08/20/13
Sequence : MET26 13h20l00

Reference : 13h20l00003
Analyzed : 08/20/13 11:24

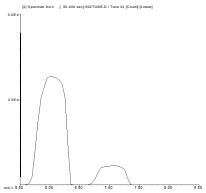
#	Type	Sample ID	LI A	SC A	SC E	SC H	GE H	GE E	IN A	BI A	Y A	TB A
087	CCB		306425	792182	25143	538779	100372	12796	446365	272927	649901	484683
088	SAMPLE	248031-002	257788	704209	22329	508250	87263	11222	401291	251590	586076	479764
089	SAMPLE	248031-003	277242	712235	22618	503956	87110	11264	392534	236203	649421	445131
090	SAMPLE	248031-005	259105	696009	23044	564634	94084	11509	406146	253901	633322	504752
091	SAMPLE	247888-002	251195	777461	23425	505221	85490	11614	427520	259306	652582	536135
092	SAMPLE	247888-003	234203	772817	23340	503054	84160	11406	434555	264531	616520	528896
093	SAMPLE	247888-004	219691	772496	23294	531246	92170	11580	432956	267068	622315	523649
094	SAMPLE	248075-001	215228	739863	22854	517116	89381	11429	426690	258544	608363	512214
095	CCV		261566	755878	23038	548596	98039	11674	412786	255936	616203	467214
097	CCB		246266	782237	25502	523017	99527	12950	461689	291271	728637	503969
098	ICSA		257705	688683	21630	521460	91209	11188	382404	238009	583169	454746
099	ICSAB		257599	676640	21067	503579	90535	11044	373808	236492	565765	449939

MET26 QC Tune Report

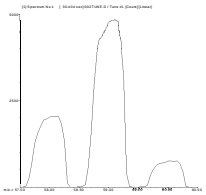
Data File: C:\ICPCHEM\1\DATA\13H20l00.B\002TUNE.D
Date Acquired: Aug 20 2013 11:19 am
Acq. Method: TN6020F.M
Operator:
Sample Name: tun,s22962
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020F.M

RSD (%)

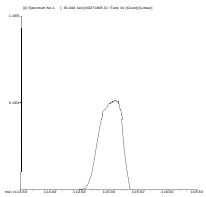
Element	Rep1	Rep2	Rep3	Rep4	Actual	Required	Flag
7 Li	27916	27587	27360	27286	1.53	5.00	
59 Co	24910	24704	24679	24743	1.20	5.00	
115 In	240296	234849	233231	233437	0.99	5.00	
205 Tl	9883	9820	9820	9726	2.20	5.00	



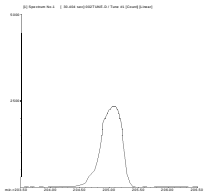
7 Li
Mass Calib.
Actual: 7.05
Required: 6.90 - 7.10
Flag:
Peak Width @ 5%
Actual: 0.60
Required: 0.75
Flag:



59 Co
Mass Calib.
Actual: 59.05
Required: 58.90 - 59.10
Flag:
Peak Width @ 5%
Actual: 0.65
Required: 0.75
Flag:



115 In
Mass Calib.
Actual: 115.05
Required: 114.90 - 115.10
Flag:
Peak Width @ 5%
Actual: 0.65
Required: 0.75
Flag:



205 Tl
Mass Calib.
Actual: 205.05
Required: 204.90 - 205.10
Flag:
Peak Width @ 5%
Actual: 0.65
Required: 0.75
Flag:

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 247902 METALS Filtrate: EPA 6020

Inst : MET26 Reviewer : ---
Calnum : 1013334754001 Date : 20-AUG-2013 11:24
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	13h20l00004	1013334754004		20-AUG-2013 11:28	S22515, S23014
L2	13h20l00005	1013334754005		20-AUG-2013 11:33	S22516, S23014
L3	13h20l00006	1013334754006		20-AUG-2013 11:38	S22517, S23014
L4	13h20l00007	1013334754007		20-AUG-2013 11:43	S22518, S23014
L5	13h20l00008	1013334754008		20-AUG-2013 11:47	S22513, S23014
L6	13h20l00009	1013334754009		20-AUG-2013 11:52	S22514, S23014

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Chromium	E	0.0702	0.0356	0.0327	0.0286	0.0281	0.0275	BLNK	-0.0956	36.2302		0.0371	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Chromium	E	0.1000	**59**	0.5000	10	1.0000	9	10.000	3	100.00	2	200.00	0

Instrument amount = a0 + response * a1 + response^2 * a2; BLNK=Y=aX+[blank]

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 247902 METALS Filtrate
EPA 6020

Inst : MET26
Calnum : 1013334754001 Cal Date : 20-AUG-2013

ICV 1013334754011 (13h20l00011 20-AUG-2013) stds: S22958, S23014

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Chromium	E	100.0	107.2	ug/L	7	10	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247902 METALS Filtrate
EPA 6020

Inst : MET26 IDF : 1.0
Seqnum : 1013334754054 File : 13h20l00054 Time : 20-AUG-2013 15:24
Cal : 1013334754001 Caldate : 20-AUG-2013
Standards: S22959, S23014

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	E	0.0371	0.0282	100.0	102.0	ug/L	2	10	

ISTD (ICALBLK 13h20l00003)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	336937	339700	0.82
Scandium	A	770908	783126	1.58
Scandium	E	22322	24243	8.61
Scandium	H	495831	563544	13.66
Germanium	H	89567	100933	12.69
Germanium	E	11376	12232	7.52
Indium	A	428554	409229	-4.51
Bismuth	A	264480	252213	-4.64
Yttrium	A	615495	611099	-0.71
Terbium	A	477890	464585	-2.78

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 247902 METALS Filtrate
EPA 6020

Inst : MET26 IDF : 1.0
Seqnum : 1013334754056 File : 13h20l00056 Time : 20-AUG-2013 15:34
Cal : 1013334754001 Caldate : 20-AUG-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	E	ND	0.1000	0.05925	ug/L	

ISTD (ICALBLK 13h20l00003)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	336937	307606	-8.71
Scandium	A	770908	808333	4.85
Scandium	E	22322	25568	14.54
Scandium	H	495831	550399	11.01
Germanium	H	89567	103045	15.05
Germanium	E	11376	13197	16.01
Indium	A	428554	460459	7.44
Bismuth	A	264480	284460	7.55
Yttrium	A	615495	662525	7.64
Terbium	A	477890	506057	5.89

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR 247902 METALS Filtrate
EPA 6020

Inst : MET26 IDF : 1.0
Seqnum : 1013334754062 File : 13h20l00062 Time : 20-AUG-2013 16:03
Cal : 1013334754001 Caldate : 20-AUG-2013
Standards: S22960, S23014

Analyte	Ch	Quant	IQL	Units	Flags
Chromium	E	1.507	0.1000	ug/L	!a+

Interferent	Ch	Spiked	Quant	Units	%Rec
Aluminum	A	100000	92730	ug/L	93
Calcium	A	300000	276600	ug/L	92
Magnesium	A	100000	91380	ug/L	91
Molybdenum	A	2000	2174	ug/L	109
Potassium	A	100000	94610	ug/L	95
Sodium	E	250000	229200	ug/L	92
Iron	H	250000	231900	ug/L	93

ISTD (ICALBLK 13h20l00003)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	336937	286024	-15.11
Scandium	A	770908	734361	-4.74
Scandium	E	22322	22543	0.99
Scandium	H	495831	535999	8.10
Germanium	H	89567	93743	4.66
Germanium	E	11376	11636	2.29
Indium	A	428554	382826	-10.67
Bismuth	A	264480	240462	-9.08
Yttrium	A	615495	574263	-6.70
Terbium	A	477890	463889	-2.93

!=warning +=high bias a=ICSA

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 247902 METALS Filtrate
EPA 6020

Inst : MET26 IDF : 1.0
Seqnum : 1013334754063 File : 13h20l00063 Time : 20-AUG-2013 16:08
Cal : 1013334754001 Caldate : 20-AUG-2013
Standards: S22961, S23014

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	E	200.0	190.1	ug/L	-5	20	

ISTD (ICALBLK 13h20l00003)	Ch	ICALBLK Abund	Abund	%Drift
Scandium	H	495831	533214	7.54
Scandium	A	770908	667095	-13.47
Scandium	E	22322	21773	-2.46
Germanium	H	89567	94718	5.75
Germanium	E	11376	11335	-0.36
Indium	A	428554	375424	-12.40
Yttrium	A	615495	572892	-6.92

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247902 METALS Filtrate
EPA 6020

Inst : MET26 IDF : 1.0
Seqnum : 1013334754072 File : 13h20l00072 Time : 20-AUG-2013 16:51
Cal : 1013334754001 Caldate : 20-AUG-2013
Standards: S22959, S23014

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	E	0.0371	0.0277	100.0	100.2	ug/L	0	10	

ISTD (ICALBLK 13h20l00003)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	336937	351879	4.43
Scandium	A	770908	792903	2.85
Scandium	E	22322	24973	11.88
Scandium	H	495831	573386	15.64
Germanium	H	89567	102252	14.16
Germanium	E	11376	12591	10.68
Indium	A	428554	410320	-4.25
Bismuth	A	264480	249872	-5.52
Yttrium	A	615495	614147	-0.22
Terbium	A	477890	461840	-3.36

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 247902 METALS Filtrate
EPA 6020

Inst : MET26 IDF : 1.0
Seqnum : 1013334754074 File : 13h20l00074 Time : 20-AUG-2013 17:00
Cal : 1013334754001 Caldate : 20-AUG-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	E	ND	0.1000	0.05925	ug/L	

ISTD (ICALBLK 13h20l00003)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	336937	317092	-5.89
Scandium	A	770908	819062	6.25
Scandium	E	22322	25558	14.50
Scandium	H	495831	550873	11.10
Germanium	H	89567	101772	13.63
Germanium	E	11376	13179	15.85
Indium	A	428554	459268	7.17
Bismuth	A	264480	280682	6.13
Yttrium	A	615495	721610	17.24
Terbium	A	477890	500940	4.82

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 247902 METALS Filtrate
EPA 6020

Inst : MET26 IDF : 1.0
Seqnum : 1013334754085 File : 13h20l00085 Time : 20-AUG-2013 17:52
Cal : 1013334754001 Caldate : 20-AUG-2013
Standards: S22959, S23014

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	E	0.0371	0.0276	100.0	100.0	ug/L	0	10	

ISTD (ICALBLK 13h20l00003)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	336937	334770	-0.64
Scandium	A	770908	756868	-1.82
Scandium	E	22322	23647	5.94
Scandium	H	495831	544482	9.81
Germanium	H	89567	96347	7.57
Germanium	E	11376	11967	5.20
Indium	A	428554	398405	-7.04
Bismuth	A	264480	240843	-8.94
Yttrium	A	615495	598453	-2.77
Terbium	A	477890	444185	-7.05

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 247902 METALS Filtrate
EPA 6020

Inst : MET26 IDF : 1.0
Seqnum : 1013334754087 File : 13h20l00087 Time : 20-AUG-2013 18:01
Cal : 1013334754001 Caldate : 20-AUG-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	E	ND	0.1000	0.05925	ug/L	

ISTD (ICALBLK 13h20l00003)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	336937	306425	-9.06
Scandium	A	770908	792182	2.76
Scandium	E	22322	25143	12.64
Scandium	H	495831	538779	8.66
Germanium	H	89567	100372	12.06
Germanium	E	11376	12796	12.48
Indium	A	428554	446365	4.16
Bismuth	A	264480	272927	3.19
Yttrium	A	615495	649901	5.59
Terbium	A	477890	484683	1.42

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR 247902 METALS Filtrate
EPA 6020

Inst : MET26 IDF : 1.0
Seqnum : 1013334754098 File : 13h20l00098 Time : 20-AUG-2013 18:54
Cal : 1013334754001 Caldate : 20-AUG-2013
Standards: S22960, S23014

Analyte	Ch	Quant	IQL	Units	Flags
Chromium	E	1.347	0.1000	ug/L	!a+

Interferent	Ch	Spiked	Quant	Units	%Rec
Aluminum	A	100000	94530	ug/L	95
Calcium	A	300000	285400	ug/L	95
Magnesium	A	100000	91820	ug/L	92
Molybdenum	A	2000	2112	ug/L	106
Potassium	A	100000	98170	ug/L	98
Sodium	E	250000	228800	ug/L	92
Iron	H	250000	226000	ug/L	90

ISTD (ICALBLK 13h20l00003)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	336937	257705	-23.52
Scandium	A	770908	688683	-10.67
Scandium	E	22322	21630	-3.10
Scandium	H	495831	521460	5.17
Germanium	H	89567	91209	1.83
Germanium	E	11376	11188	-1.65
Indium	A	428554	382404	-10.77
Bismuth	A	264480	238009	-10.01
Yttrium	A	615495	583169	-5.25
Terbium	A	477890	454746	-4.84

!=warning +=high bias a=ICSA

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 247902 METALS Filtrate
EPA 6020

Inst : MET26 IDF : 1.0
Seqnum : 1013334754099 File : 13h20l00099 Time : 20-AUG-2013 18:58
Cal : 1013334754001 Caldate : 20-AUG-2013
Standards: S22961, S23014

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	E	200.0	185.2	ug/L	-7	20	

ISTD (ICALBLK 13h20l00003)	Ch	ICALBLK Abund	Abund	%Drift
Scandium	H	495831	503579	1.56
Scandium	A	770908	676640	-12.23
Scandium	E	22322	21067	-5.62
Germanium	H	89567	90535	1.08
Germanium	E	11376	11044	-2.92
Indium	A	428554	373808	-12.77
Yttrium	A	615495	565765	-8.08

SAMPLE PREPARATION SUMMARY

Batch # : 201898
Started By : MRN
Method : 200.8
Spike #1 ID : S20711

Prep Date : 19-AUG-2013 21:00
Spike #2 ID : S20712

Analysis : ICAP-200
Finished By : MRN
Units : mL

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
247888-002		Filtrate	50	50	1	1.0						TAL/ICP	
247888-003		Filtrate	50	50	1	1.0						TAL/ICP	
247888-004		Filtrate	50	50	1	1.0						TAL/ICP	
247902-001		Filtrate	50	50	1	1.0						CR	
247902-002		Filtrate	50	50	1	1.0						CR	
247920-001		Filtrate	50	50	1	1.0						T22/ICP	
247920-002		Filtrate	50	50	1	1.0						T22/ICP	
247920-003		Filtrate	50	50	1	1.0						T22/ICP	
247973-001		Filtrate	50	50	1	1.0						T22/ICP	
248019-001		Filtrate	50	50	1	1.0						AS-200, BA, NI, PB-200, SE-200	
248031-001		Filtrate	50	50	1	1.0						AS, CU, NI, PB, ZN	
248031-002		Filtrate	50	50	1	1.0						AS, CU, NI, PB, ZN	
248031-003		Filtrate	50	50	1	1.0						AS, CU, NI, PB, ZN	
248031-005		Filtrate	50	50	1	1.0						AS, CU, NI, PB, ZN	
248075-001		Filtrate	50	50	1	1.0						AS	
QC702727	BLANK	Filtrate	50	50	1	1.0							
QC702728	BS	Filtrate	50	50	1	1.0		.5	.5				
QC702729	BSD	Filtrate	50	50	1	1.0		.5	.5				
QC702730	MS	Filtrate	50	50	1	1.0		.5	.5				
QC702731	MSD	Filtrate	50	50	1	1.0		.5	.5				
QC702732	SER	Filtrate	50	50	1	1.0							
QC702733	PDS	Filtrate	50	50	1	1.0							

Analyst: AH Date: 08/22/13 Reviewer: PRW Date: 08/22/13

Water Digestion for ICP-MS Curtis & Tompkins, Ltd.

LIMS Batch #: 201898
Digested by: MN
Date Digested: 8/19/13

Digestion Method
☒ EPA 200.8 for ICP-M
☐ EPA 3005A for ICP-MS
☒ Filtrate Prep

BK3438
Page 79

Lvl.	Sample #	Container ID	Volume Sample(mL)	Final Volume (mL)	Filtered? (y/n)	ID ✓	Comments
	BLK		☒ 50 ☐	☒ 50 ☐	N	✓	
	BS		☒ 50 ☐	☒ 50 ☐		✓	
	BSD		☒ 50 ☐	☒ 50 ☐		✓	
II	247902-001	E	☒ 50 ☐	☒ 50 ☐		✓	
5	-001 MS		☒ 50 ☐	☒ 50 ☐		✓	
	-001 MSD		☒ 50 ☐	☒ 50 ☐		✓	
	-002		☒ 50 ☐	☒ 50 ☐		✓	
II	247920-001	G	☒ 50 ☐	☒ 50 ☐		✓	
	-002		☒ 50 ☐	☒ 50 ☐		✓	
10	-003		☒ 50 ☐	☒ 50 ☐		✓	
II	247973-001	G	☒ 50 ☐	☒ 50 ☐		✓	
II	248019-001	F	☒ 50 ☐	☒ 50 ☐		✓	6010+200.8
II	248031-001	A	☒ 50 ☐	☒ 50 ☐		✓	
	-002		☒ 50 ☐	☒ 50 ☐		✓	
15	-003		☒ 50 ☐	☒ 50 ☐		✓	
	-005		☒ 50 ☐	☒ 50 ☐		✓	
II	247888-002	G	☒ 50 ☐	☒ 50 ☐		✓	
	-003		☒ 50 ☐	☒ 50 ☐		✓	
	-004		☒ 50 ☐	☒ 50 ☐		✓	
II 20	248075-001	A	☒ 50 ☐	☒ 50 ☐		✓	
			☐ 50 ☐	☐ 50 ☐			
			☐ 50 ☐	☐ 50 ☐			
			☐ 50 ☐	☐ 50 ☐			
			☐ 50 ☐	☐ 50 ☐			
			☐ 50 ☐	☐ 50 ☐			

	Reagent ID or LIMS #	Initials / Date
Digestion tubes, lot #	162904-261	MN 8/19/13
0.5 mL of spike solution (Std1) was added to all spikes	S20711	
0.5 mL of spike solution (Std2) was added to all spikes	S20712	
Digestion Temperature (°C), Block and Probe Location	— —	
digestion begun at (time)	—	
concentrated HCl	40272 JTB	
concentrated HNO3	3390	
digestion ended at (time)	—	
☐ filtered thru' Whatman # 541	—	
Relinquished to ICP group	DCONS	

8/19/13
Prep Chemist / Date

Continued from page 1
Continued on page 1

Reviewed by / Date

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 248701
ANALYTICAL REPORT

Haley & Aldrich	Project : 39049-103
400 East Van Buren Street	Location : PGA South
Phoenix, CA 85004	Level : III

Sample ID	Lab ID
AST-INF	248701-001
AST-EFF	248701-002
GAC-02 INF	248701-003
GAC-02 EFF	248701-004
E-07R	248701-005
COG-20	248701-006
COG-11	248701-007
E-12	248701-008
E-17	248701-009
E-117	248701-010
TRIP BLANK	248701-011

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Isabelle Choy Date: 09/19/2013

Isabelle Choy
Project Manager
(510) 486-0900

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**248701**
Client:	**Haley & Aldrich**
Project:	**39049-103**
Location:	**PGA South**
Request Date:	**09/05/13**
Samples Received:	**09/05/13**

This data package contains sample and QC results for eleven water samples, requested for the above referenced project on 09/05/13. See attached cooler receipt form for any sample receipt problems or discrepancies.

Volatile Organics by GC/MS (EPA 8260B):
High response was observed for vinyl acetate in the CCV analyzed 09/10/13 10:28; this analyte was not detected at or above the RL in the associated samples.

Hexachlorobutadiene was detected between the MDL and the RL in the method blank for batch 202696; this analyte was not detected in the sample at or above the RL.

No other analytical problems were encountered.

Metals (EPA 6010B) Water:
No analytical problems were encountered.

Metals (EPA 6010B) Filtrate:
No analytical problems were encountered.

Chain of Custody

CHAIN OF CUSTODY

Curtis & Tompkins Laboratories
ENVIRONMENTAL ANALYTICAL TESTING LABORATORY
In Business Since 1878

2323 Fifth Street
Berkeley, CA 94710

Phone (510) 486-0900
Fax (510) 486-0532

Chain of Custody # _____

C&T LOGIN # 248701

Project No: 39049-103
Project Name: PGAS
Project P. O. No: 39049-103
EDD Format: Report Level ☐ II ☐ III ☐ IV
Turnaround Time: ☐ RUSH _____ ☒ Standard

Sampler: Mark Argall
Report To: Paula Chang
Company: H + A
Telephone: 602-760-2418
Email: pchang@haleyaldrich.com

Lab No.	Sample ID.	SAMPLING Date Collected	SAMPLING Time Collected	MATRIX Water	MATRIX Solid	# of Containers	CHEMICAL PRESERVATIVE HCl	H2SO4	HNO3	NaOH	None	ANALYTICAL REQUEST 8260B Full list	8260B Halogenated only	6010B Total Chrome	6010B Dissolved Chrome (Filtered + preserved)
1	AST-Inf	9-4-13	0535	X		5	X		X			X		X	X
2	AST-Eff		0545	X		5	X		X			X		X	X
3	GAC-02 Inf		0550	X		5	X		X				X	X	X
4	GAC-02 Eff		0600	X		5	X		X				X	X	X
5	E-07R		0710	X		5	X		X				X	X	X
6	C06-20		0730	X		3	X						X		
7	C06-11		0745	X		3	X						X		
8	E-12		0655	X		5	X		X				X	X	X
9	E-17		0625	X		5	X		X				X	X	X
10	E-117		0625	X		5	X		X				X	X	X
11	Trip Blank			X		3	X					X			
	Temp Blank			X		1									

Notes: Lab filter + preserve 6010B dissolved chrome upon Receipt

SAMPLE RECEIPT
☐ Intact
☐ Cold
☐ On Ice
☐ Ambient

RELINQUISHED BY:
[signature] 9-4-13 DATE: TIME:
DATE: TIME:
DATE: TIME:

RECEIVED BY:
Tina Raikar DATE: 9/5/13 TIME: 930
DATE: TIME:
DATE: TIME:

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 248701 Date Received 9/5/13 Number of coolers 1
Client H&A Project PGAS (39049-103)

Date Opened 9/5/13 By (print) TR (sign) Tina Raikar
Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc) Fed Ex (YES) NO
   Shipping info 8009 7835 1963

2A. Were custody seals present? .... ☒ YES (circle) (on cooler) on samples ☐ NO
   How many 2 Name SIGNATURE Date 9/4/13
2B. Were custody seals intact upon arrival? (YES) NO N/A
3. Were custody papers dry and intact when received? (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) (YES) NO
6. Indicate the packing in cooler: (if other, describe)

☐ Bubble Wrap ☒ Foam blocks ☒ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) 1.5

☐ Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES (NO)
   If YES, what time were they transferred to freezer?
9. Did all bottles arrive unbroken/unopened? (YES) NO
10. Are there any missing / extra samples? YES (NO)
11. Are samples in the appropriate containers for indicated tests? (YES) NO
12. Are sample labels present, in good condition and complete? (YES) NO
13. Do the sample labels agree with custody papers? (YES) NO
14. Was sufficient amount of sample sent for tests requested? (YES) NO
15. Are the samples appropriately preserved? (YES) NO N/A
16. Did you check preservatives for all bottles for each sample? (YES) NO N/A
17. Did you document your preservative check? (YES) NO N/A
18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO (N/A)
19. Did you change the hold time in LIMS for preserved terracores? YES NO (N/A)
20. Are bubbles > 6mm absent in VOA samples? (YES) NO N/A
21. Was the client contacted concerning this sample delivery? YES (NO)
   If YES, Who was called? By Date:

COMMENTS

Rev 10, 11/11

Curtis & Tompkins Sample Preservation for 248701

Sample	pH: <2	>9	>12	Other
-001a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____
-002a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____
-003a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____
-004a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____

Sample	pH: <2	>9	>12	Other
-005a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____
-008a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____
-009a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____
-010a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____

Analyst: TR
Date: 9/5/13

Laboratory Job Number 248701

ANALYTICAL REPORT

Volatile Organics by GC/MS

Matrix: Water

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	248701	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	AST-INF	Batch#:	202693
Lab ID:	248701-001	Sampled:	09/04/13
Matrix:	Water	Received:	09/05/13
Units:	ug/L	Analyzed:	09/10/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.2
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.1
Acetone	ND	10	0.4
Freon 113	8.8	2.0	0.2
1,1-Dichloroethene	2.2	0.5	0.1
Methylene Chloride	ND	10	0.1
Carbon Disulfide	ND	0.5	0.1
MTBE	0.2 J	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
Vinyl Acetate	ND	10	0.2
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.4
cis-1,2-Dichloroethene	0.2 J	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	0.6	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	0.6	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	33	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	1.9	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	248701	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	AST-INF	Batch#:	202693
Lab ID:	248701-001	Sampled:	09/04/13
Matrix:	Water	Received:	09/05/13
Units:	ug/L	Analyzed:	09/10/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.1
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.3
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.2
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-123
1,2-Dichloroethane-d4	123	76-138
Toluene-d8	96	80-120
Bromofluorobenzene	91	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	248701	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	AST-EFF	Batch#:	202693
Lab ID:	248701-002	Sampled:	09/04/13
Matrix:	Water	Received:	09/05/13
Units:	ug/L	Analyzed:	09/10/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.2
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.1
Acetone	1.0 J	10	0.4
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.1
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
Vinyl Acetate	ND	10	0.2
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.4
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	0.2 J	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	248701	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	AST-EFF	Batch#:	202693
Lab ID:	248701-002	Sampled:	09/04/13
Matrix:	Water	Received:	09/05/13
Units:	ug/L	Analyzed:	09/10/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.1
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.3
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.2
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-123
1,2-Dichloroethane-d4	121	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	87	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	248701	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GAC-02 INF	Batch#:	202734
Lab ID:	248701-003	Sampled:	09/04/13
Matrix:	Water	Received:	09/05/13
Units:	ug/L	Analyzed:	09/11/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	0.2 J	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.2 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	0.2 J	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	3.5	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	85	76-138
Toluene-d8	93	80-120
Bromofluorobenzene	88	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	248701	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GAC-02 EFF	Batch#:	202693
Lab ID:	248701-004	Sampled:	09/04/13
Matrix:	Water	Received:	09/05/13
Units:	ug/L	Analyzed:	09/10/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.2
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.2 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	129	76-138
Toluene-d8	104	80-120
Bromofluorobenzene	90	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	248701	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	E-07R	Batch#:	202693
Lab ID:	248701-005	Sampled:	09/04/13
Matrix:	Water	Received:	09/05/13
Units:	ug/L	Analyzed:	09/10/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.2
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	13	2.0	0.2
1,1-Dichloroethene	5.0	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	0.2 J	0.5	0.1
cis-1,2-Dichloroethene	0.3 J	0.5	0.1
Chloroform	0.4 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	0.4 J	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	64	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	1.5	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	127	76-138
Toluene-d8	95	80-120
Bromofluorobenzene	91	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	248701	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	COG-20	Batch#:	202696
Lab ID:	248701-006	Sampled:	09/04/13
Matrix:	Water	Received:	09/05/13
Units:	ug/L	Analyzed:	09/10/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	1.2	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	2.4	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	0.2 J	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	92	76-138
Toluene-d8	89	80-120
Bromofluorobenzene	94	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	248701	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	COG-11	Batch#:	202696
Lab ID:	248701-007	Sampled:	09/04/13
Matrix:	Water	Received:	09/05/13
Units:	ug/L	Analyzed:	09/10/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	0.6	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	93	76-138
Toluene-d8	91	80-120
Bromofluorobenzene	94	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	248701	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	E-12	Batch#:	202696
Lab ID:	248701-008	Sampled:	09/04/13
Matrix:	Water	Received:	09/05/13
Units:	ug/L	Analyzed:	09/10/13
Diln Fac:	2.000		

Analyte	Result	RL	MDL
Chloromethane	ND	2.0	0.4
Vinyl Chloride	ND	1.0	0.2
Bromomethane	ND	2.0	0.3
Chloroethane	ND	2.0	0.3
Trichlorofluoromethane	ND	2.0	0.4
Freon 113	7.7	4.0	0.3
1,1-Dichloroethene	0.8 J	1.0	0.2
Methylene Chloride	ND	40	0.3
trans-1,2-Dichloroethene	ND	1.0	0.2
1,1-Dichloroethane	ND	1.0	0.2
cis-1,2-Dichloroethene	1.4	1.0	0.2
Chloroform	1.1 J	2.0	0.2
1,1,1-Trichloroethane	ND	1.0	0.2
Carbon Tetrachloride	0.2 J	1.0	0.2
1,2-Dichloroethane	ND	1.0	0.2
Trichloroethene	90	1.0	0.2
1,2-Dichloropropane	ND	1.0	0.3
Bromodichloromethane	ND	1.0	0.2
cis-1,3-Dichloropropene	ND	1.0	0.2
trans-1,3-Dichloropropene	ND	1.0	0.2
1,1,2-Trichloroethane	ND	1.0	0.3
Tetrachloroethene	2.1	1.0	0.2
Dibromochloromethane	ND	1.0	0.2
Chlorobenzene	ND	1.0	0.2
Bromoform	ND	1.0	0.2
1,1,2,2-Tetrachloroethane	ND	1.0	0.2
1,3-Dichlorobenzene	ND	1.0	0.2
1,4-Dichlorobenzene	ND	1.0	0.2
1,2-Dichlorobenzene	ND	1.0	0.2

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	95	76-138
Toluene-d8	93	80-120
Bromofluorobenzene	90	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	248701	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	E-17	Batch#:	202696
Lab ID:	248701-009	Sampled:	09/04/13
Matrix:	Water	Received:	09/05/13
Units:	ug/L	Analyzed:	09/10/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	6.5	2.0	0.2
1,1-Dichloroethene	1.5	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	1.0 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	0.5 J	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	29	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	3.4	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	95	76-138
Toluene-d8	89	80-120
Bromofluorobenzene	94	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	248701	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	E-117	Batch#:	202696
Lab ID:	248701-010	Sampled:	09/04/13
Matrix:	Water	Received:	09/05/13
Units:	ug/L	Analyzed:	09/10/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	6.3	2.0	0.2
1,1-Dichloroethene	1.5	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	1.0 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	0.4 J	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	29	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	3.2	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	97	76-138
Toluene-d8	90	80-120
Bromofluorobenzene	92	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	248701	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	TRIP BLANK	Batch#:	202696
Lab ID:	248701-011	Sampled:	09/04/13
Matrix:	Water	Received:	09/05/13
Units:	ug/L	Analyzed:	09/10/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	0.5
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.1
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
Vinyl Acetate	ND	10	0.5
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.3
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.2
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.2
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.2
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1
2-Chlorotoluene	ND	0.5	0.1

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	248701	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	TRIP BLANK	Batch#:	202696
Lab ID:	248701-011	Sampled:	09/04/13
Matrix:	Water	Received:	09/05/13
Units:	ug/L	Analyzed:	09/10/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
4-Chlorotoluene	ND	0.5	0.2
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.2
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.1
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-123
1,2-Dichloroethane-d4	90	76-138
Toluene-d8	89	80-120
Bromofluorobenzene	92	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	248701	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	202693
Units:	ug/L	Analyzed:	09/10/13
Diln Fac:	1.000		

Type: BS Lab ID: QC706154

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	14.41	115	77-132
Trichloroethene	12.50	13.46	108	80-120
Chlorobenzene	12.50	12.38	99	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	106	76-138
Toluene-d8	93	80-120
Bromofluorobenzene	89	80-125

Type: BSD Lab ID: QC706155

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	15.28	122	77-132	6	20
Trichloroethene	12.50	13.95	112	80-120	4	20
Chlorobenzene	12.50	13.72	110	80-120	10	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	111	76-138
Toluene-d8	94	80-120
Bromofluorobenzene	89	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	248701	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	202693
Units:	ug/L	Analyzed:	09/10/13
Diln Fac:	1.000		

Type: BS Lab ID: QC706154

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	14.41	115	77-132
Benzene	12.50	11.73	94	80-122
Trichloroethene	12.50	13.46	108	80-120
Toluene	12.50	11.61	93	80-121
Chlorobenzene	12.50	12.38	99	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-123
1,2-Dichloroethane-d4	106	76-138
Toluene-d8	93	80-120
Bromofluorobenzene	89	80-125

Type: BSD Lab ID: QC706155

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	15.28	122	77-132	6	20
Benzene	12.50	13.24	106	80-122	12	20
Trichloroethene	12.50	13.95	112	80-120	4	20
Toluene	12.50	13.57	109	80-121	16	20
Chlorobenzene	12.50	13.72	110	80-120	10	20

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-123
1,2-Dichloroethane-d4	111	76-138
Toluene-d8	94	80-120
Bromofluorobenzene	89	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	248701	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC706158	Batch#:	202693
Matrix:	Water	Analyzed:	09/10/13
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.2
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	114	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	93	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	248701	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC706158	Batch#:	202693
Matrix:	Water	Analyzed:	09/10/13
Units:	ug/L		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.2
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.1
Acetone	ND	10	0.4
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.1
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
Vinyl Acetate	ND	10	0.2
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.4
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1
2-Chlorotoluene	ND	0.5	0.1

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	248701	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC706158	Batch#:	202693
Matrix:	Water	Analyzed:	09/10/13
Units:	ug/L		

Analyte	Result	RL	MDL
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.3
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.2
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-123
1,2-Dichloroethane-d4	114	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	93	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	248701	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	202696
Units:	ug/L	Analyzed:	09/10/13
Diln Fac:	1.000		

Type: BS Lab ID: QC706165

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	26.23	105	77-132
Trichloroethene	25.00	28.55	114	80-120
Chlorobenzene	25.00	27.99	112	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	85	76-138
Toluene-d8	96	80-120
Bromofluorobenzene	90	80-125

Type: BSD Lab ID: QC706166

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	26.92	108	77-132	3	20
Trichloroethene	25.00	27.90	112	80-120	2	20
Chlorobenzene	25.00	27.35	109	80-120	2	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	84	76-138
Toluene-d8	89	80-120
Bromofluorobenzene	89	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	248701	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	202696
Units:	ug/L	Analyzed:	09/10/13
Diln Fac:	1.000		

Type: BS Lab ID: QC706165

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	26.23	105	77-132
Benzene	25.00	25.95	104	80-122
Trichloroethene	25.00	28.55	114	80-120
Toluene	25.00	25.83	103	80-121
Chlorobenzene	25.00	27.99	112	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-123
1,2-Dichloroethane-d4	85	76-138
Toluene-d8	96	80-120
Bromofluorobenzene	90	80-125

Type: BSD Lab ID: QC706166

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	26.92	108	77-132	3	20
Benzene	25.00	26.06	104	80-122	0	20
Trichloroethene	25.00	27.90	112	80-120	2	20
Toluene	25.00	24.71	99	80-121	4	20
Chlorobenzene	25.00	27.35	109	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-123
1,2-Dichloroethane-d4	84	76-138
Toluene-d8	89	80-120
Bromofluorobenzene	89	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	248701	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC706167	Batch#:	202696
Matrix:	Water	Analyzed:	09/10/13
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	89	76-138
Toluene-d8	88	80-120
Bromofluorobenzene	93	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	248701	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC706167	Batch#:	202696
Matrix:	Water	Analyzed:	09/10/13
Units:	ug/L		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	0.5
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.1
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
Vinyl Acetate	ND	10	0.5
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.3
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.2
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.2
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.2
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	248701	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC706167	Batch#:	202696
Matrix:	Water	Analyzed:	09/10/13
Units:	ug/L		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.1
4-Chlorotoluene	ND	0.5	0.2
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.2
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	0.2 J	2.0	0.1
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-123
1,2-Dichloroethane-d4	89	76-138
Toluene-d8	88	80-120
Bromofluorobenzene	93	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	248701	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	202696
MSS Lab ID:	248569-010	Sampled:	08/29/13
Matrix:	Water	Received:	08/30/13
Units:	ug/L	Analyzed:	09/10/13
Diln Fac:	166.7		

Type: MS Lab ID: QC706222

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<16.67	4,167	4,395	105	80-135
Trichloroethene	94.27	4,167	4,592	108	75-128
Chlorobenzene	<18.94	4,167	4,368	105	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	97	76-138
Toluene-d8	89	80-120
Bromofluorobenzene	92	80-125

Type: MSD Lab ID: QC706223

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	4,167	4,131	99	80-135	6	20
Trichloroethene	4,167	4,596	108	75-128	0	20
Chlorobenzene	4,167	4,290	103	80-120	2	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	94	76-138
Toluene-d8	91	80-120
Bromofluorobenzene	93	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	248701	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	202696
MSS Lab ID:	248569-010	Sampled:	08/29/13
Matrix:	Water	Received:	08/30/13
Units:	ug/L	Analyzed:	09/10/13
Diln Fac:	166.7		

Type: MS Lab ID: QC706222

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<16.67	4,167	4,395	105	80-135
Benzene	<16.67	4,167	4,208	101	80-120
Trichloroethene	94.27	4,167	4,592	108	75-128
Toluene	68.42	4,167	3,950	93	80-120
Chlorobenzene	<18.94	4,167	4,368	105	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-123
1,2-Dichloroethane-d4	97	76-138
Toluene-d8	89	80-120
Bromofluorobenzene	92	80-125

Type: MSD Lab ID: QC706223

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	4,167	4,131	99	80-135	6	20
Benzene	4,167	4,341	104	80-120	3	20
Trichloroethene	4,167	4,596	108	75-128	0	20
Toluene	4,167	3,950	93	80-120	0	20
Chlorobenzene	4,167	4,290	103	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-123
1,2-Dichloroethane-d4	94	76-138
Toluene-d8	91	80-120
Bromofluorobenzene	93	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	248701	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	202734
Units:	ug/L	Analyzed:	09/11/13
Diln Fac:	1.000		

Type: BS Lab ID: QC706354

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	25.16	101	77-132
Trichloroethene	25.00	27.49	110	80-120
Chlorobenzene	25.00	26.11	104	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	82	76-138
Toluene-d8	88	80-120
Bromofluorobenzene	86	80-125

Type: BSD Lab ID: QC706355

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	22.30	89	77-132	12	20
Trichloroethene	25.00	24.48	98	80-120	12	20
Chlorobenzene	25.00	24.69	99	80-120	6	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	82	76-138
Toluene-d8	88	80-120
Bromofluorobenzene	88	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	248701	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC706356	Batch#:	202734
Matrix:	Water	Analyzed:	09/11/13
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	87	76-138
Toluene-d8	91	80-120
Bromofluorobenzene	90	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	248701	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	202734
MSS Lab ID:	248758-004	Sampled:	09/04/13
Matrix:	Water	Received:	09/06/13
Units:	ug/L	Analyzed:	09/11/13
Diln Fac:	1.000		

Type: MS Lab ID: QC706442

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.1000	25.00	26.12	104	80-135
Trichloroethene	<0.1000	25.00	26.86	107	75-128
Chlorobenzene	<0.1136	25.00	26.96	108	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	90	76-138
Toluene-d8	87	80-120
Bromofluorobenzene	90	80-125

Type: MSD Lab ID: QC706443

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	25.76	103	80-135	1	20
Trichloroethene	25.00	26.71	107	75-128	1	20
Chlorobenzene	25.00	26.74	107	80-120	1	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	88	76-138
Toluene-d8	89	80-120
Bromofluorobenzene	91	80-125

RPD= Relative Percent Difference

Initial & Continuing Calibration Data

CURTIS & TOMPKINS BFB TUNE FOR 248701 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : BFB IDF : 1.0
Seqnum : 483147320011 File : idc11 Time : 12-APR-2013 14:37

Standards: S21369

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	82690	20.27	
75	30% - 60% of mass 95	177445	43.49	
95		408000	100.00	
96	5% - 9% of mass 95	27293	6.69	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	324138	79.45	
175	5% - 9% of mass 174	24104	7.44	
176	> 95% and < 101% of mass 174	310613	95.83	
177	5% - 9% of mass 176	20056	6.46	

Analyst: MJB Date: 04/15/13 Reviewer: TW Date: 04/17/13

CURTIS & TOMPKINS BFB TUNE FOR 248701 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : BFB IDF : 1.0
Seqnum : 483364778004 File : iia04 Time : 10-SEP-2013 09:42

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	63429	17.48	
75	30% - 60% of mass 95	152400	41.99	
95		362965	100.00	
96	5% - 9% of mass 95	24797	6.83	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	298368	82.20	
175	5% - 9% of mass 174	22861	7.66	
176	> 95% and < 101% of mass 174	291328	97.64	
177	5% - 9% of mass 176	18617	6.39	

Analyst: MJB Date: 09/10/13 Reviewer: LW Date: 09/11/13

CURTIS & TOMPKINS BFB TUNE FOR 248701 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : BFB IDF : 1.0
Seqnum : 483366213007 File : iib07 Time : 11-SEP-2013 11:03

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	61466	17.21	
75	30% - 60% of mass 95	146602	41.04	
95		357184	100.00	
96	5% - 9% of mass 95	23622	6.61	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	324522	90.86	
175	5% - 9% of mass 174	24706	7.61	
176	> 95% and < 101% of mass 174	317184	97.74	
177	5% - 9% of mass 176	21551	6.79	

Analyst: MJB Date: 09/11/13 Reviewer: LW Date: 09/12/13

CURTIS & TOMPKINS BFB TUNE FOR 248701 MSVOA Water
EPA 8260B

Inst : MSVOA10 Run Name : BFB IDF : 1.0
Seqnum : 493324690004 File : jhd04 Time : 13-AUG-2013 14:07

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	73576	21.94	
75	30% - 60% of mass 95	150528	44.89	
95		335360	100.00	
96	5% - 9% of mass 95	23904	7.13	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	260672	77.73	
175	5% - 9% of mass 174	20664	7.93	
176	> 95% and < 101% of mass 174	259840	99.68	
177	5% - 9% of mass 176	17600	6.77	

Analyst: BO Date: 08/14/13 Reviewer: SJD Date: 08/14/13

CURTIS & TOMPKINS BFB TUNE FOR 248701 MSVOA Water
EPA 8260B

Inst : MSVOA10 Run Name : BFB IDF : 1.0
Seqnum : 493364743007 File : jia07 Time : 10-SEP-2013 10:03

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	81328	20.75	
75	30% - 60% of mass 95	166613	42.51	
95		391936	100.00	
96	5% - 9% of mass 95	26786	6.83	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	341589	87.15	
175	5% - 9% of mass 174	26026	7.62	
176	> 95% and < 101% of mass 174	336170	98.41	
177	5% - 9% of mass 176	21869	6.51	

Analyst: MCT Date: 09/10/13 Reviewer: LW Date: 09/11/13

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 248701 MSVOA Water: EPA 8260B

Inst : MSVOA09 Name : 826GOX9W
Calnum : 483147320002 Date : 12-APR-2013 16:14 Type : WATER
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	idc14	483147320014		12-APR-2013 16:14	S21889 (2000000X), S21761 (1000000X), S21635 (2000000X), S21908 (2000000X), S22165 (5000X)
L2	idc15	483147320015		12-APR-2013 16:49	S21889 (1000000X), S21761 (500000X), S21635 (1000000X), S21908 (1000000X), S22165 (5000X)
L3	idc16	483147320016		12-APR-2013 17:23	S21889 (250000X), S21761 (250000X), S21635 (500000X), S21908 (250000X), S22165 (5000X)
L4	idc17	483147320017		12-APR-2013 17:58	S21889 (100000X), S21761 (100000X), S21635 (200000X), S21908 (100000X), S22165 (5000X)
L5	idc18	483147320018		12-APR-2013 18:32	S21889 (50000X), S21761 (50000X), S21635 (100000X), S21908 (50000X), S22165 (5000X)
L6	idc19	483147320019		12-APR-2013 19:06	S21889 (25000X), S21761 (25000X), S21635 (50000X), S21908 (25000X), S22165 (5000X)
L7	idc20	483147320020		12-APR-2013 19:41	S21889 (10000X), S21761 (10000X), S21635 (20000X), S21908 (10000X), S22165 (5000X)
L8	idc21	483147320021		12-APR-2013 20:15	S21889 (6667X), S21761 (6667X), S21635 (13330X), S21908 (6667X), S22165 (5000X)
L9	idc22	483147320022		12-APR-2013 20:50	S21889 (5000X), S21761 (5000X), S21635 (10000X), S21908 (5000X), S22165 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.3692	0.3732	0.3606	0.3706	0.3868	0.3679	0.3632	0.3332	AVRG		2.73525		0.3656	4	15	0.05	0.99	
Chloromethane	0.6814	0.6494	0.6139	0.5558	0.5799	0.6241	0.5400	0.5369	0.5279	AVRG		1.69513		0.5899	9	15	0.10	0.99	
Vinyl Chloride	0.3855	0.4200	0.3887	0.3695	0.3820	0.4169	0.3727	0.3276	0.3327	AVRG		2.65044		0.3773	8	15	0.05	0.99	
Bromomethane		0.1642m	0.1655	0.1593	0.1706	0.2125	0.2143	0.1889	0.2101	AVRG		5.38545		0.1857	13	15	0.05	0.99	
Chloroethane		0.2946m	0.2784	0.2570	0.2538	0.2779	0.2452	0.2137	0.2217	AVRG		3.91703		0.2553	11	15	0.05	0.99	
Trichlorofluoromethane		0.4651	0.4719	0.4475	0.4536	0.4826	0.4441	0.4438	0.4259	AVRG		2.20107		0.4543	4	15	0.05	0.99	
Acetone				0.1071	0.0915	0.0924	0.0940	0.1071	0.0945	AVRG		10.2278		0.0978	7	15	0.05	0.99	
Freon 113		0.1862	0.2660	0.2461	0.2318	0.2487	0.2484	0.2599	0.2472	AVRG		4.13554		0.2418	10	15	0.05	0.99	
1,1-Dichloroethene		0.2949	0.2791	0.2696	0.2662	0.2847	0.2651	0.2735	0.2650	AVRG		3.63951		0.2748	4	15	0.05	0.99	
Methylene Chloride		0.3676	0.3880	0.3662	0.3658	0.3832	0.3550	0.3524	0.3485	AVRG		2.73350		0.3658	4	15	0.05	0.99	
Carbon Disulfide		1.2370	1.1221	1.0731	1.0719	1.1645	1.0900	1.0947	1.0484	AVRG		0.89873		1.1127	6	15	0.05	0.99	
MTBE		0.7382	0.7768	0.7291	0.7090	0.7868	0.7247	0.7648	0.7399	AVRG		1.34016		0.7462	4	15	0.05	0.99	
trans-1,2-Dichloroethene		0.3484	0.3170	0.3139	0.3128	0.3296	0.3141	0.3250	0.3082	AVRG		3.11415		0.3211	4	15	0.05	0.99	
Vinyl Acetate			0.7604	0.7079	0.6267	0.7619	0.5474	0.6832		AVRG		1.46788		0.6813	12	15	0.05	0.99	
1,1-Dichloroethane		0.7302	0.6930	0.6590	0.6930	0.7100	0.6572	0.6603	0.6285	AVRG		1.47296		0.6789	5	15	0.10	0.99	
2-Butanone			0.1416	0.1494	0.1398	0.1454	0.1410	0.1488	0.1396	AVRG		6.95990		0.1437	3	15	0.05	0.99	
2,2-Dichloropropane		0.4445	0.4409	0.4140	0.3989	0.4229	0.4003	0.3974	0.3821	AVRG		2.42352		0.4126	5	15	0.05	0.99	
cis-1,2-Dichloroethene		0.3834	0.3921	0.3581	0.3614	0.3787	0.3595	0.3621	0.3545	AVRG		2.71194		0.3687	4	15	0.05	0.99	
Chloroform		0.6132	0.6115	0.5692	0.6017	0.6153	0.5736	0.5814	0.5517	AVRG		1.69581		0.5897	4	15	0.05	0.99	
Bromochloromethane		0.1568	0.1681	0.1655	0.1683	0.1786	0.1632	0.1554	0.1479	AVRG		6.13561		0.1630	6	15	0.05	0.99	
1,1,1-Trichloroethane		0.4418	0.4519	0.4104	0.4142	0.4274	0.4084	0.4136	0.4007	AVRG		2.37493		0.4211	4	15	0.05	0.99	
1,1-Dichloropropene		0.2812	0.2815	0.2655	0.2712	0.2804	0.2716	0.2777	0.2639	AVRG		3.64805		0.2741	3	15	0.05	0.99	
Carbon Tetrachloride		0.2464	0.2455	0.2319	0.2346	0.2470	0.2412	0.2501	0.2449	AVRG		4.12026		0.2427	3	15	0.05	0.99	
1,2-Dichloroethane		0.2796	0.2983	0.2627	0.2789	0.2870	0.2671	0.2774	0.2629	AVRG		3.61359		0.2767	4	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		0.9100	0.8825	0.8033	0.8276	0.8507	0.7875	0.7923	0.7472	AVRG		1.21192		0.8251	7	15	0.05	0.99	
Trichloroethene		0.2300	0.2297	0.2097	0.2309	0.2310	0.2258	0.2279	0.2152	AVRG		4.44407		0.2250	4	15	0.05	0.99	
1,2-Dichloropropane		0.2917	0.2909	0.2705	0.2831	0.2920	0.2676	0.2703	0.2583	AVRG		3.59643		0.2781	5	15	0.05	0.99	
Bromodichloromethane		0.3031	0.2955	0.2794	0.2950	0.3098	0.2911	0.2973	0.2913	AVRG		3.38608		0.2953	3	15	0.05	0.99	
Dibromomethane		0.1374	0.1465	0.1384	0.1424	0.1509	0.1394	0.1494	0.1422	AVRG		6.97736		0.1433	4	15	0.05	0.99	
4-Methyl-2-Pentanone			0.2232	0.2192	0.2149m	0.2350m	0.2234	0.2376	0.2249	AVRG		4.43549		0.2255	4	15	0.05	0.99	
cis-1,3-Dichloropropene		0.3400	0.3513	0.3238	0.3447	0.3593	0.3325	0.3378	0.3195	AVRG		2.95316		0.3386	4	15	0.05	0.99	
Toluene		0.6792	0.6726	0.6366	0.6561	0.6677	0.6352	0.6227	0.6113	AVRG		1.54400		0.6477	4	15	0.05	0.99	
trans-1,3-Dichloropropene		0.3464	0.4017	0.3801	0.4071	0.4232	0.4010	0.4025	0.3975	AVRG		2.53191		0.3950	6	15	0.05	0.99	
1,1,2-Trichloroethane		0.1229	0.1381	0.1341	0.1389	0.1422	0.1348	0.1400	0.1378	AVRG		7.34592		0.1361	4	15	0.05	0.99	
2-Hexanone			0.1924	0.1975	0.2028	0.2200	0.2092	0.2265	0.2115	AVRG		4.79482		0.2086	6	15	0.05	0.99	
1,3-Dichloropropane		0.3884	0.4097	0.3988	0.4222	0.4251	0.3914	0.4109	0.3893	AVRG		2.47233		0.4045	4	15	0.05	0.99	
Tetrachloroethene		0.2574	0.2560	0.2447	0.2511	0.2625	0.2628	0.2708	0.2614	AVRG		3.87089		0.2583	3	15	0.05	0.99	
Dibromochloromethane		0.2610	0.2700	0.2703	0.2853	0.3091	0.2899	0.3118	0.3106	AVRG		3.46628		0.2885	7	15	0.05	0.99	
1,2-Dibromoethane		0.2079	0.2364	0.2394	0.2484	0.2530	0.2465	0.2620	0.2573	AVRG		4.10054		0.2439	7	15	0.05	0.99	
Chlorobenzene		0.7289	0.7712	0.7297	0.7391	0.7635	0.7239	0.7273	0.7034	AVRG		1.35891		0.7359	3	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.2231	0.2637	0.2454	0.2570	0.2688	0.2617	0.2657	0.2597	AVRG		3.91189		0.2556	6	15	0.05	0.99	
Ethylbenzene		1.2175	1.2503	1.1906	1.2136	1.2116	1.1765	1.1562	1.0743	AVRG		0.84294		1.1863	5	15	0.05	0.99	
m,p-Xylenes	0.4397	0.4266	0.4622	0.4365	0.4306	0.4536	0.4176	0.3979	0.3629	AVRG		2.35134		0.4253	7	15	0.05	0.99	
o-Xylene		0.4122	0.4605	0.4425	0.4496	0.4622	0.4451	0.4305	0.4076	AVRG		2.27906		0.4388	5	15	0.05	0.99	
Styrene		0.7444	0.7868	0.7843	0.7853	0.8160	0.7601	0.7597	0.7121	AVRG		1.30111		0.7686	4	15	0.05	0.99	
Bromoform		0.1254	0.1609	0.1577	0.1699	0.1795	0.1824	0.1944	0.1990	AVRG		5.84287		0.1711	14	15	0.10	0.99	
Isopropylbenzene		2.0626	2.3314	2.2267	2.2073	2.3066	2.2321	2.1759	2.1825	AVRG		0.45134		2.2156	4	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		0.5668	0.6096	0.5952	0.5871	0.6072	0.5649	0.6160	0.6253	AVRG		1.67647		0.5965	4	15	0.30	0.99	
1,2,3-Trichloropropane		0.1298	0.1378	0.1363	0.1286	0.1347	0.1353	0.1410	0.1433	AVRG		7.36167		0.1358	4	15	0.05	0.99	
Propylbenzene		2.5101	2.8849	2.6427	2.7005	2.7710	2.5869	2.3749		AVRG		0.37897		2.6387	6	15	0.05	0.99	
Bromobenzene		0.5958	0.6236	0.6174	0.6286	0.6452	0.6307	0.6037	0.6178	AVRG		1.61200		0.6203	3	15	0.05	0.99	
1,3,5-Trimethylbenzene		1.6398	1.8158	1.7589	1.7652	1.7714	1.7299	1.6302	1.5309	AVRG		0.58641		1.7053	6	15	0.05	0.99	
2-Chlorotoluene		1.7281	1.9560	1.8482	1.8189	1.8071	1.7558	1.6264	1.5357	AVRG		0.56834		1.7595	7	15	0.05	0.99	
4-Chlorotoluene		1.7203	1.7799	1.6623	1.7176	1.7249	1.6827	1.6775	1.6015	AVRG		0.58968		1.6958	3	15	0.05	0.99	
tert-Butylbenzene		1.4048	1.5248	1.4780	1.4473	1.5315	1.4890	1.4975	1.4968	AVRG		0.67399		1.4837	3	15	0.05	0.99	
1,2,4-Trimethylbenzene		1.6261	1.7673	1.7129	1.7829	1.8226	1.7851	1.7928	1.7125	AVRG		0.57134		1.7503	4	15	0.05	0.99	
sec-Butylbenzene		2.1100	2.4328	2.2905	2.1916	2.2983	2.2303	2.2937		AVRG		0.44172		2.2639	4	15	0.05	0.99	
para-Isopropyl Toluene		1.5140	1.7367	1.7129	1.6452	1.7775	1.7429	1.7507	1.7158	AVRG		0.58842		1.6995	5	15	0.05	0.99	
1,3-Dichlorobenzene		0.9508	1.0994	1.0608	1.0408	1.1101	1.0904	1.0959	1.0953	AVRG		0.93638		1.0679	5	15	0.05	0.99	
1,4-Dichlorobenzene		1.0187	1.0892	1.0456	1.0709	1.0859	1.0743	1.0917	1.0938	AVRG		0.93347		1.0713	2	15	0.05	0.99	
n-Butylbenzene		1.4041	1.6256	1.5558	1.5201	1.6421	1.6404	1.6350		AVRG		0.63503		1.5747	6	15	0.05	0.99	
1,2-Dichlorobenzene		0.8927	1.0783	1.0048	1.0073	1.0683	1.0544	1.0697	1.0611	AVRG		0.97127		1.0296	6	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane			0.0861	0.0848	0.0808	0.0848	0.0884	0.0964	0.0972	AVRG		11.3174		0.0884	7	15	0.05	0.99	
1,2,4-Trichlorobenzene		0.3961	0.5282	0.5378	0.5272	0.5870	0.5983	0.6450	0.6647	AVRG		1.78401		0.5605	15	15	0.05	0.99	
Hexachlorobutadiene		0.2137	0.2911	0.2712	0.2685	0.2893	0.2964	0.3116		AVRG		3.60489		0.2774	11	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene			0.8498	0.8552	0.9112	0.9966	1.0653	1.1598	1.1741	AVRG		0.99830		1.0017	14	15	0.05	0.99	
1,2,3-Trichlorobenzene		0.4020	0.5106	0.4748	0.4879	0.5412	0.5576	0.6098	0.6163	AVRG		1.90463		0.5250	14	15	0.05	0.99	
Dibromofluoromethane	0.5487	0.5528	0.5408	0.5409	0.5356	0.5407	0.5283	0.5246	0.5090	AVRG		1.86669		0.5357	2	15	0.05	0.99	
1,2-Dichloroethane-d4	0.3101	0.3096	0.3146	0.3177	0.3128	0.3105	0.2957	0.2978	0.2777	AVRG		3.27684		0.3052	4	15	0.05	0.99	
Toluene-d8	1.2928	1.3445	1.3757	1.3977	1.4204	1.4087	1.4242	1.4355	1.3842	AVRG		0.72094		1.3871	3	15	0.05	0.99	
Bromofluorobenzene	1.0104	1.0400	1.0558	1.0411	1.0470	1.0375	1.0504	0.9933	1.0202	AVRG		0.96818		1.0329	2	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Freon 12			1.0000	1	2.0000	2	5.0000	-1	10.000	1	20.000	6	50.000	1	75.000	-1	100.00	-9
Chloromethane	0.5000	16	1.0000	10	2.0000	4	5.0000	-6	10.000	-2	20.000	6	50.000	-8	75.000	-9	100.00	-11
Vinyl Chloride	0.5000	2	1.0000	11	2.0000	3	5.0000	-2	10.000	1	20.000	10	50.000	-1	75.000	-13	100.00	-12
Bromomethane			1.0000	-12	2.0000	-11	5.0000	-14	10.000	-8	20.000	14	50.000	15	75.000	2	100.00	13
Chloroethane			1.0000	15	2.0000	9	5.0000	1	10.000	-1	20.000	9	50.000	-4	75.000	-16	100.00	-13
Trichlorofluoromethane			1.0000	2	2.0000	4	5.0000	-2	10.000	0	20.000	6	50.000	-2	75.000	-2	100.00	-6
Acetone							5.0000	10	10.000	-6	20.000	-6	50.000	-4	75.000	10	100.00	-3
Freon 113			0.5000	**-23**	2.0000	10	5.0000	2	10.000	-4	20.000	3	50.000	3	75.000	8	100.00	2
1,1-Dichloroethene			0.5000	7	2.0000	2	5.0000	-2	10.000	-3	20.000	4	50.000	-4	75.000	0	100.00	-4
Methylene Chloride			0.5000	0	2.0000	6	5.0000	0	10.000	0	20.000	5	50.000	-3	75.000	-4	100.00	-5
Carbon Disulfide			0.5000	11	2.0000	1	5.0000	-4	10.000	-4	20.000	5	50.000	-2	75.000	-2	100.00	-6
MTBE			0.5000	-1	2.0000	4	5.0000	-2	10.000	-5	20.000	5	50.000	-3	75.000	3	100.00	-1
trans-1,2-Dichloroethene			0.5000	8	2.0000	-1	5.0000	-2	10.000	-3	20.000	3	50.000	-2	75.000	1	100.00	-4
Vinyl Acetate					2.0000	12	5.0000	4	10.000	-8	20.000	12	50.000	-20	75.000	0		
1,1-Dichloroethane			0.5000	8	2.0000	2	5.0000	-3	10.000	2	20.000	5	50.000	-3	75.000	-3	100.00	-7
2-Butanone					2.0000	-1	5.0000	4	10.000	-3	20.000	1	50.000	-2	75.000	4	100.00	-3
2,2-Dichloropropane			0.5000	8	2.0000	7	5.0000	0	10.000	-3	20.000	2	50.000	-3	75.000	-4	100.00	-7
cis-1,2-Dichloroethene			0.5000	4	2.0000	6	5.0000	-3	10.000	-2	20.000	3	50.000	-2	75.000	-2	100.00	-4
Chloroform			0.5000	4	2.0000	4	5.0000	-3	10.000	2	20.000	4	50.000	-3	75.000	-1	100.00	-6
Bromochloromethane			0.5000	-4	2.0000	3	5.0000	2	10.000	3	20.000	10	50.000	0	75.000	-5	100.00	-9
1,1,1-Trichloroethane			0.5000	5	2.0000	7	5.0000	-3	10.000	-2	20.000	2	50.000	-3	75.000	-2	100.00	-5
1,1-Dichloropropene			0.5000	3	2.0000	3	5.0000	-3	10.000	-1	20.000	2	50.000	-1	75.000	1	100.00	-4
Carbon Tetrachloride			0.5000	2	2.0000	1	5.0000	-4	10.000	-3	20.000	2	50.000	-1	75.000	3	100.00	1
1,2-Dichloroethane			0.5000	1	2.0000	8	5.0000	-5	10.000	1	20.000	4	50.000	-3	75.000	0	100.00	-5
Benzene			0.5000	10	2.0000	7	5.0000	-3	10.000	0	20.000	3	50.000	-5	75.000	-4	100.00	-9
Trichloroethene			0.5000	2	2.0000	2	5.0000	-7	10.000	3	20.000	3	50.000	0	75.000	1	100.00	-4
1,2-Dichloropropane			0.5000	5	2.0000	5	5.0000	-3	10.000	2	20.000	5	50.000	-4	75.000	-3	100.00	-7
Bromodichloromethane			0.5000	3	2.0000	0	5.0000	-5	10.000	0	20.000	5	50.000	-1	75.000	1	100.00	-1
Dibromomethane			0.5000	-4	2.0000	2	5.0000	-3	10.000	-1	20.000	5	50.000	-3	75.000	4	100.00	-1
4-Methyl-2-Pentanone					2.0000	-1	5.0000	-3	10.000	-5	20.000	4	50.000	-1	75.000	5	100.00	0
cis-1,3-Dichloropropene			0.5000	0	2.0000	4	5.0000	-4	10.000	2	20.000	6	50.000	-2	75.000	0	100.00	-6
Toluene			0.5000	5	2.0000	4	5.0000	-2	10.000	1	20.000	3	50.000	-2	75.000	-4	100.00	-6
trans-1,3-Dichloropropene			0.5000	-12	2.0000	2	5.0000	-4	10.000	3	20.000	7	50.000	2	75.000	2	100.00	1
1,1,2-Trichloroethane			0.5000	-10	2.0000	1	5.0000	-1	10.000	2	20.000	4	50.000	-1	75.000	3	100.00	1
2-Hexanone					2.0000	-8	5.0000	-5	10.000	-3	20.000	5	50.000	0	75.000	9	100.00	1
1,3-Dichloropropane			0.5000	-4	2.0000	1	5.0000	-1	10.000	4	20.000	5	50.000	-3	75.000	2	100.00	-4
Tetrachloroethene			0.5000	0	2.0000	-1	5.0000	-5	10.000	-3	20.000	2	50.000	2	75.000	5	100.00	1
Dibromochloromethane			0.5000	-10	2.0000	-6	5.0000	-6	10.000	-1	20.000	7	50.000	0	75.000	8	100.00	8
1,2-Dibromoethane			0.5000	-15	2.0000	-3	5.0000	-2	10.000	2	20.000	4	50.000	1	75.000	7	100.00	6
Chlorobenzene			0.5000	-1	2.0000	5	5.0000	-1	10.000	0	20.000	4	50.000	-2	75.000	-1	100.00	-4
1,1,1,2-Tetrachloroethane			0.5000	-13	2.0000	3	5.0000	-4	10.000	1	20.000	5	50.000	2	75.000	4	100.00	2
Ethylbenzene			0.5000	3	2.0000	5	5.0000	0	10.000	2	20.000	2	50.000	-1	75.000	-3	100.00	-9

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
m,p-Xylenes	0.5000	3	1.0000	0	4.0000	9	10.000	3	20.000	1	40.000	7	100.00	-2	150.00	-6	200.00	-15
o-Xylene			0.5000	-6	2.0000	5	5.0000	1	10.000	2	20.000	5	50.000	1	75.000	-2	100.00	-7
Styrene			0.5000	-3	2.0000	2	5.0000	2	10.000	2	20.000	6	50.000	-1	75.000	-1	100.00	-7
Bromoform			0.5000	**-27**	2.0000	-6	5.0000	-8	10.000	-1	20.000	5	50.000	7	75.000	14	100.00	16
Isopropylbenzene			0.5000	-7	2.0000	5	5.0000	0	10.000	0	20.000	4	50.000	1	75.000	-2	100.00	-1
1,1,2,2-Tetrachloroethane			0.5000	-5	2.0000	2	5.0000	0	10.000	-2	20.000	2	50.000	-5	75.000	3	100.00	5
1,2,3-Trichloropropane			0.5000	-4	2.0000	1	5.0000	0	10.000	-5	20.000	-1	50.000	0	75.000	4	100.00	5
Propylbenzene			0.5000	-5	2.0000	9	5.0000	0	10.000	2	20.000	5	50.000	-2	75.000	-10		
Bromobenzene			0.5000	-4	2.0000	1	5.0000	0	10.000	1	20.000	4	50.000	2	75.000	-3	100.00	0
1,3,5-Trimethylbenzene			0.5000	-4	2.0000	6	5.0000	3	10.000	4	20.000	4	50.000	1	75.000	-4	100.00	-10
2-Chlorotoluene			0.5000	-2	2.0000	11	5.0000	5	10.000	3	20.000	3	50.000	0	75.000	-8	100.00	-13
4-Chlorotoluene			0.5000	1	2.0000	5	5.0000	-2	10.000	1	20.000	2	50.000	-1	75.000	-1	100.00	-6
tert-Butylbenzene			0.5000	-5	2.0000	3	5.0000	0	10.000	-2	20.000	3	50.000	0	75.000	1	100.00	1
1,2,4-Trimethylbenzene			0.5000	-7	2.0000	1	5.0000	-2	10.000	2	20.000	4	50.000	2	75.000	2	100.00	-2
sec-Butylbenzene			0.5000	-7	2.0000	7	5.0000	1	10.000	-3	20.000	2	50.000	-1	75.000	1		
para-Isopropyl Toluene			0.5000	-11	2.0000	2	5.0000	1	10.000	-3	20.000	5	50.000	3	75.000	3	100.00	1
1,3-Dichlorobenzene			0.5000	-11	2.0000	3	5.0000	-1	10.000	-3	20.000	4	50.000	2	75.000	3	100.00	3
1,4-Dichlorobenzene			0.5000	-5	2.0000	2	5.0000	-2	10.000	0	20.000	1	50.000	0	75.000	2	100.00	2
n-Butylbenzene			0.5000	-11	2.0000	3	5.0000	-1	10.000	-3	20.000	4	50.000	4	75.000	4		
1,2-Dichlorobenzene			0.5000	-13	2.0000	5	5.0000	-2	10.000	-2	20.000	4	50.000	2	75.000	4	100.00	3
1,2-Dibromo-3-Chloropropane					2.0000	-3	5.0000	-4	10.000	-9	20.000	-4	50.000	0	75.000	9	100.00	10
1,2,4-Trichlorobenzene			0.5000	**-29**	2.0000	-6	5.0000	-4	10.000	-6	20.000	5	50.000	7	75.000	15	100.00	19
Hexachlorobutadiene			0.5000	**-23**	2.0000	5	5.0000	-2	10.000	-3	20.000	4	50.000	7	75.000	12		
Naphthalene					2.0000	-15	5.0000	-15	10.000	-9	20.000	-1	50.000	6	75.000	16	100.00	17
1,2,3-Trichlorobenzene			0.5000	**-23**	2.0000	-3	5.0000	-10	10.000	-7	20.000	3	50.000	6	75.000	16	100.00	17
Dibromofluoromethane	50.000	2	50.000	3	50.000	1	50.000	1	50.000	0	50.000	1	50.000	-1	50.000	-2	50.000	-5
1,2-Dichloroethane-d4	50.000	2	50.000	1	50.000	3	50.000	4	50.000	2	50.000	2	50.000	-3	50.000	-2	50.000	-9
Toluene-d8	50.000	-7	50.000	-3	50.000	-1	50.000	1	50.000	2	50.000	2	50.000	3	50.000	3	50.000	0
Bromofluorobenzene	50.000	-2	50.000	1	50.000	2	50.000	1	50.000	1	50.000	0	50.000	2	50.000	-4	50.000	-1

MJB 04/17/13 [Bromomethane]: Combined split peak in (idc15).

MJB 04/17/13 [Chloroethane]: Combined split peak in (idc15).

MJB 04/17/13 [Ethanol]: Combined split peak in (idc15).

MJB 04/17/13 [4-Methyl-2-Pentanone]: Picked or reassigned peak in (idc15).

MJB 04/17/13 [Naphthalene]: Combined split peak in (idc15).

MJB 04/17/13 : All integrations for file 15 done by TW

MJB 04/17/13 [4-Methyl-2-Pentanone]: Picked or reassigned peak in (idc18).

MJB 04/17/13 [4-Methyl-2-Pentanone]: Picked or reassigned peak in (idc19).

MJB 04/17/13 [Acetone]: Fails min RF; no 8260C samples.

MJB 04/17/13 [Iodomethane]: ICV at -63; do not run samples for this analyte.

TW 04/17/13 [Acetone]: Fails 8260C min RF; Acetone cannot be reported for 8260C jobs from this calibration. Meets Avg RF criteria for 8260B.

Analyst: MJB Date: 04/17/13 Reviewer: TW Date: 04/17/13

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 248701 MSVOA Water
EPA 8260B

Inst : MSVOA09 Name : 826GOX9W
Calnum : 483147320002 Cal Date : 12-APR-2013 Type : WATER

ICV 483147320023 (idc23 12-APR-2013) stds: S21932 (10000X), S22165 (5000X)
ICV 483147320024 (idc24 12-APR-2013) stds: S21957 (10000X), S22045 (10000X), S22146 (10000X), S22165 (5000X)

Analyte	ICV Seqnum	Spiked	Quant	Units	%D	Max	Flags
Freon 12	483147320023	20.00	23.85	ug/L	19	30	
Chloromethane	483147320023	20.00	19.18	ug/L	-4	30	
Vinyl Chloride	483147320023	20.00	21.44	ug/L	7	20	
Bromomethane	483147320023	20.00	14.73	ug/L	**-26**	30	!v- m
Chloroethane	483147320023	20.00	18.42	ug/L	-8	30	
Trichlorofluoromethane	483147320023	20.00	19.86	ug/L	-1	30	
Acetone	483147320024	25.00	30.20	ug/L	**21**	40	!v+
Freon 113	483147320024	25.00	27.29	ug/L	9	30	
1,1-Dichloroethene	483147320024	25.00	25.97	ug/L	4	20	
Methylene Chloride	483147320024	25.00	26.16	ug/L	5	30	
Carbon Disulfide	483147320024	25.00	27.06	ug/L	8	30	
MTBE	483147320024	25.00	25.57	ug/L	2	30	
trans-1,2-Dichloroethene	483147320024	25.00	27.41	ug/L	10	30	
Vinyl Acetate	483147320024	25.00	29.00	ug/L	16	40	
1,1-Dichloroethane	483147320024	25.00	25.36	ug/L	1	30	
2-Butanone	483147320024	25.00	27.65	ug/L	11	40	
2,2-Dichloropropane	483147320024	25.00	24.58	ug/L	-2	30	
cis-1,2-Dichloroethene	483147320024	25.00	26.70	ug/L	7	30	
Chloroform	483147320024	25.00	26.04	ug/L	4	20	
Bromochloromethane	483147320024	25.00	27.53	ug/L	10	30	
1,1,1-Trichloroethane	483147320024	25.00	25.61	ug/L	2	30	
1,1-Dichloropropene	483147320024	25.00	27.74	ug/L	11	30	
Carbon Tetrachloride	483147320024	25.00	27.14	ug/L	9	30	
1,2-Dichloroethane	483147320024	25.00	25.77	ug/L	3	30	
Benzene	483147320024	25.00	26.78	ug/L	7	30	
Trichloroethene	483147320024	25.00	26.74	ug/L	7	30	
1,2-Dichloropropane	483147320024	25.00	25.30	ug/L	1	20	
Bromodichloromethane	483147320024	25.00	26.42	ug/L	6	30	
Dibromomethane	483147320024	25.00	26.29	ug/L	5	30	
4-Methyl-2-Pentanone	483147320024	25.00	26.53	ug/L	6	40	
cis-1,3-Dichloropropene	483147320024	25.00	29.58	ug/L	18	30	
Toluene	483147320024	25.00	27.48	ug/L	10	20	
trans-1,3-Dichloropropene	483147320024	25.00	25.99	ug/L	4	30	
1,1,2-Trichloroethane	483147320024	25.00	27.32	ug/L	9	30	
2-Hexanone	483147320024	25.00	27.69	ug/L	11	40	
1,3-Dichloropropane	483147320024	25.00	27.10	ug/L	8	30	
Tetrachloroethene	483147320024	25.00	26.94	ug/L	8	30	
Dibromochloromethane	483147320024	25.00	27.10	ug/L	8	30	
1,2-Dibromoethane	483147320024	25.00	27.78	ug/L	11	30	
Chlorobenzene	483147320024	25.00	24.83	ug/L	-1	30	
1,1,1,2-Tetrachloroethane	483147320024	25.00	27.89	ug/L	12	30	
Ethylbenzene	483147320024	25.00	27.41	ug/L	10	20	
m,p-Xylenes	483147320024	50.00	53.53	ug/L	7	30	
o-Xylene	483147320024	25.00	25.05	ug/L	0	30	
Styrene	483147320024	25.00	27.37	ug/L	9	30	
Bromoform	483147320024	25.00	29.82	ug/L	19	30	
Isopropylbenzene	483147320024	25.00	25.72	ug/L	3	30	

Analyte	ICV Seqnum	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	483147320024	25.00	28.35	ug/L	13	30	
1,2,3-Trichloropropane	483147320024	25.00	26.60	ug/L	6	30	
Propylbenzene	483147320024	25.00	24.42	ug/L	-2	30	
Bromobenzene	483147320024	25.00	27.62	ug/L	10	30	
1,3,5-Trimethylbenzene	483147320024	25.00	29.51	ug/L	18	30	
2-Chlorotoluene	483147320024	25.00	26.96	ug/L	8	30	
4-Chlorotoluene	483147320024	25.00	24.99	ug/L	0	30	
tert-Butylbenzene	483147320024	25.00	26.38	ug/L	6	30	
1,2,4-Trimethylbenzene	483147320024	25.00	28.68	ug/L	15	30	
sec-Butylbenzene	483147320024	25.00	26.23	ug/L	5	30	
para-Isopropyl Toluene	483147320024	25.00	25.95	ug/L	4	30	
1,3-Dichlorobenzene	483147320024	25.00	25.42	ug/L	2	30	
1,4-Dichlorobenzene	483147320024	25.00	27.83	ug/L	11	30	
n-Butylbenzene	483147320024	25.00	27.55	ug/L	10	30	
1,2-Dichlorobenzene	483147320024	25.00	26.05	ug/L	4	30	
1,2-Dibromo-3-Chloropropane	483147320024	25.00	26.06	ug/L	4	30	
1,2,4-Trichlorobenzene	483147320024	25.00	28.81	ug/L	15	30	
Hexachlorobutadiene	483147320024	25.00	29.20	ug/L	17	30	
Naphthalene	483147320024	25.00	29.34	ug/L	17	30	
1,2,3-Trichlorobenzene	483147320024	25.00	29.79	ug/L	19	30	

483147320023: Analyst: MJB Date: 04/17/13 Reviewer: TW Date: 04/17/13
483147320024: Analyst: MJB Date: 04/17/13 Reviewer: TW Date: 04/17/13

!=warning +=high bias -=low bias m=manual integration v=ICV

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 248701 MSVOA Water: EPA 8260B

Inst : MSVOA10 Name : 826GOX10
Calnum : 493324690001 Date : 13-AUG-2013 17:47 Type : WATER
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	jhd10	493324690010	.25/.5PPB	13-AUG-2013 17:47	S21953 (2000000X), S23013 (2000000X), S22755 (2000000X), S21857 (1000000X), S22921 (2500X)
L2	jhd11	493324690011	0.5/1PPB	13-AUG-2013 18:24	S21953 (1000000X), S23013 (1000000X), S22755 (1000000X), S21857 (500000X), S22921 (2500X)
L3	jhd12	493324690012	2PPB	13-AUG-2013 19:01	S21953 (500000X), S23013 (250000X), S22755 (250000X), S21857 (250000X), S22921 (2500X)
L4	jhd13	493324690013	5PPB	13-AUG-2013 19:37	S21953 (200000X), S23013 (100000X), S22755 (100000X), S21857 (100000X), S22921 (2500X)
L5	jhd14	493324690014	10PPB	13-AUG-2013 20:14	S21953 (100000X), S23013 (50000X), S22755 (50000X), S21857 (50000X), S22921 (2500X)
L6	jhd15	493324690015	20PPB	13-AUG-2013 20:51	S21953 (50000X), S23013 (25000X), S22755 (25000X), S21857 (25000X), S22921 (2500X)
L7	jhd16	493324690016	50PPB	13-AUG-2013 21:28	S21953 (20000X), S23013 (10000X), S22755 (10000X), S21857 (10000X), S22921 (2500X)
L8	jhd17	493324690017	75PPB	13-AUG-2013 22:05	S21953 (13330X), S23013 (6667X), S22755 (6667X), S21857 (6667X), S22921 (2500X)
L9	jhd18	493324690018	100PPB	13-AUG-2013 22:41	S21953 (10000X), S23013 (5000X), S22755 (5000X), S21857 (5000X), S22921 (2500X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.8969m	0.8934	0.9168	1.0064	0.8405	1.0345	0.8376	0.8875	AVRG		1.09385		0.9142	8	15	0.05	0.99	
Chloromethane	0.9413m	0.8738	0.9326	0.9450	0.9487	0.8424	0.8775	0.8274	0.8282	AVRG		1.12261		0.8908	6	15	0.10	0.99	
Vinyl Chloride	0.5993	0.6839	0.6571	0.7106	0.7106	0.6416	0.7285	0.6332	0.6717	AVRG		1.49092		0.6707	6	15	0.05	0.99	
Bromomethane		0.3381	0.3468	0.3690	0.3535	0.3384	0.3767	0.3582	0.3901	AVRG		2.78657		0.3589	5	15	0.05	0.99	
Chloroethane		0.3574m	0.3929	0.3613	0.3812	0.3391	0.3564	0.3203	0.3422	AVRG		2.80626		0.3563	7	15	0.05	0.99	
Trichlorofluoromethane		0.6792	0.7235	0.7424	0.8246	0.6660	0.7607	0.6557	0.7115	AVRG		1.38803		0.7204	8	15	0.05	0.99	
Acetone				0.1693	0.1716	0.1623	0.1597	0.1556	0.1487	AVRG		6.20379		0.1612	5	15	0.05	0.99	
Freon 113			0.1203	0.2339	0.2301	0.2835	0.3150			LINR	1.97407	3.06932		0.2365	0.999	15	0.05	0.99	
1,1-Dichloroethene		0.2157	0.2432	0.2771	0.2505	0.2853	0.3029	0.2834	0.3043	AVRG		3.69981		0.2703	12	15	0.05	0.99	
Methylene Chloride		0.4103	0.4116	0.4852	0.4362	0.4416	0.4448	0.4018	0.3913	AVRG		2.33726		0.4279	7	15	0.05	0.99	
Carbon Disulfide		0.7548	0.8943	0.9631	0.9365	0.9831	1.0110	0.9554	1.0739	AVRG		1.05648		0.9465	10	15	0.05	0.99	
MTBE		1.1253	1.1169	1.1849	1.2260	1.1315	1.1517	1.1151	1.0618	AVRG		0.87787		1.1391	4	15	0.05	0.99	
trans-1,2-Dichloroethene		0.4776	0.4934	0.4990	0.5130	0.4964	0.5117	0.4566	0.4912	AVRG		2.03103		0.4924	4	15	0.05	0.99	
Vinyl Acetate				0.8044	0.8652	0.9204	1.0019	0.7532		AVRG		1.15073		0.8690	11	15	0.05	0.99	
1,1-Dichloroethane		1.0223	1.1758	1.2170	1.2097	1.1476	1.1948	1.0798	1.1028	AVRG		0.87433		1.1437	6	15	0.10	0.99	
2-Butanone				0.3199	0.3437	0.3112	0.3292	0.2939	0.2767	AVRG		3.20073		0.3124	8	15	0.05	0.99	
2,2-Dichloropropane		0.4886	0.5704	0.5854	0.6064	0.5941	0.6234	0.5703	0.6018	AVRG		1.72395		0.5801	7	15	0.05	0.99	
cis-1,2-Dichloroethene		0.5471	0.6479	0.6779	0.6632	0.6305	0.6571	0.5963	0.6039	AVRG		1.59237		0.6280	7	15	0.05	0.99	
Chloroform		1.0579	1.1109	1.1370	1.0879	1.0509	1.0868	0.9862	0.9516	AVRG		0.94461		1.0586	6	15	0.05	0.99	
Bromochloromethane		0.2950	0.3294	0.3588	0.3561	0.3442	0.3410	0.3077	0.3001	AVRG		3.03920		0.3290	8	15	0.05	0.99	
1,1,1-Trichloroethane		0.4596	0.6348	0.6409	0.6773	0.6804	0.7337	0.6509	0.7352	AVRG		1.53468		0.6516	13	15	0.05	0.99	
1,1-Dichloropropene		0.2969	0.3672	0.3875	0.3816	0.3996	0.4427	0.3898	0.4553	AVRG		2.56352		0.3901	12	15	0.05	0.99	
Carbon Tetrachloride		0.2145	0.2564	0.3253	0.3090	0.3442	0.3829			QUAD	0.33056	3.05215	-0.02397	0.3054	1.000	15	0.05	0.99	
1,2-Dichloroethane		0.5475	0.5549	0.5811	0.5812	0.5251	0.5565	0.5274	0.5059	AVRG		1.82668		0.5474	5	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		1.3855	1.4956	1.4771	1.4305	1.3137	1.3806	1.2119	1.2485	AVRG		0.73104		1.3679	8	15	0.05	0.99	
Trichloroethene		0.2701	0.3597	0.3852	0.3829	0.3471	0.3808	0.3518	0.3777	AVRG		2.80185		0.3569	11	15	0.05	0.99	
1,2-Dichloropropane		0.4142	0.4500	0.4835	0.4633	0.3896	0.4442	0.3911	0.3860	AVRG		2.33789		0.4277	9	15	0.05	0.99	
Bromodichloromethane		0.4088	0.5330	0.5378	0.5437	0.4896	0.5456	0.4967	0.5080	AVRG		1.96887		0.5079	9	15	0.05	0.99	
Dibromomethane		0.2396	0.2897	0.2948	0.3148	0.2649	0.2898	0.2666	0.2665	AVRG		3.59267		0.2783	8	15	0.05	0.99	
4-Methyl-2-Pentanone				0.4218	0.4715	0.4232	0.4590	0.4194	0.3977	AVRG		2.31417		0.4321	6	15	0.05	0.99	
cis-1,3-Dichloropropene		0.5068	0.6217	0.6858	0.6460	0.5774	0.6095	0.5695	0.5737	AVRG		1.67007		0.5988	9	15	0.05	0.99	
Toluene		0.8381	1.0518	0.9510	1.0208	0.9355	0.9561	0.8600	0.8792	AVRG		1.06774		0.9366	8	15	0.05	0.99	
trans-1,3-Dichloropropene		0.5771	0.6438	0.7228	0.7024	0.6796	0.7336	0.6525	0.6454	AVRG		1.49328		0.6697	8	15	0.05	0.99	
1,1,2-Trichloroethane		0.1940	0.2557	0.2685	0.2693	0.2450	0.2499	0.2292	0.2234	AVRG		4.13435		0.2419	11	15	0.05	0.99	
2-Hexanone				0.3837	0.4200	0.3879	0.4030	0.3687	0.3545	AVRG		2.58868		0.3863	6	15	0.05	0.99	
1,3-Dichloropropane		0.6629	0.7763	0.7750	0.7637	0.7302	0.7194	0.6384	0.6555	AVRG		1.39827		0.7152	8	15	0.05	0.99	
Tetrachloroethene		0.2452	0.2787	0.3584	0.3526	0.3445	0.3804	0.3168	0.3811	AVRG		3.01029		0.3322	15	15	0.05	0.99	
Dibromochloromethane		0.3795	0.4639	0.4912	0.5189	0.4884	0.5270	0.4717	0.4690	AVRG		2.09995		0.4762	10	15	0.05	0.99	
1,2-Dibromoethane		0.3890	0.4782	0.4810	0.5156	0.4690	0.4802	0.4303	0.4348	AVRG		2.17508		0.4598	9	15	0.05	0.99	
Chlorobenzene		1.0582	1.1876	1.2174	1.2404	1.1083	1.1681	1.0059	1.0202	AVRG		0.88830		1.1257	8	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.3556	0.3818	0.4110	0.4345	0.3897	0.4208	0.3663	0.3877	AVRG		2.54168		0.3934	7	15	0.05	0.99	
Ethylbenzene		1.4368	1.7293	1.9256	1.8735	1.8399	1.8175	1.5155	1.6994	AVRG		0.57814		1.7297	10	15	0.05	0.99	
m,p-Xylenes	0.5901	0.5258	0.6983	0.6732	0.7161	0.6270	0.6504	0.5479	0.5686	AVRG		1.60786		0.6219	11	15	0.05	0.99	
o-Xylene		0.5445	0.7075	0.7211	0.7565	0.6547	0.6772	0.5840	0.6307	AVRG		1.51624		0.6595	11	15	0.05	0.99	
Styrene		0.9542	1.2019	1.3210	1.3184	1.1719	1.1099	1.0336	1.0751	AVRG		0.87089		1.1482	11	15	0.05	0.99	
Bromoform		0.2359	0.2617	0.2736	0.3170	0.2998	0.3232	0.3054	0.2943	AVRG		3.46192		0.2889	10	15	0.10	0.99	
Isopropylbenzene		2.6352	3.0247	3.4141	3.2501	3.3462	3.6199	2.9857	3.5460	AVRG		0.30981		3.2277	10	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		0.9944	1.0494	1.0768	1.1829	1.0956	1.1172	1.0439	0.9694	AVRG		0.93791		1.0662	6	15	0.30	0.99	
1,2,3-Trichloropropane		0.9735	1.0846	1.0328	1.0628	0.9959	1.0275	0.8807	0.9013	AVRG		1.00513		0.9949	7	15	0.05	0.99	
Propylbenzene		3.0543	3.7004	4.1355	3.9689	4.1724	4.1974	3.4261	3.7592	AVRG		0.26304		3.8018	11	15	0.05	0.99	
Bromobenzene		0.9455	1.1686	1.1453	1.1519	1.1234	1.0986	0.9602	0.9598	AVRG		0.93533		1.0691	9	15	0.05	0.99	
1,3,5-Trimethylbenzene		2.0161	2.5787	2.6927	2.7808	2.8326	2.7459	2.3375	2.5328	AVRG		0.38992		2.5646	11	15	0.05	0.99	
2-Chlorotoluene		2.4131	2.9571	3.1076	3.0076	2.9838	2.8616	2.4898	2.5860	AVRG		0.35704		2.8008	9	15	0.05	0.99	
4-Chlorotoluene		2.5780	2.8820	2.9209	2.9701	2.8331	2.8667	2.4775	2.6394	AVRG		0.36089		2.7709	7	15	0.05	0.99	
tert-Butylbenzene		1.6225	1.9873	2.2642	2.2747	2.2934	2.2718	2.0129	2.2887	AVRG		0.47016		2.1269	11	15	0.05	0.99	
1,2,4-Trimethylbenzene		2.4002	2.7975	2.8243	3.0320	2.9198	2.8144	2.5402	2.6194	AVRG		0.36450		2.7435	8	15	0.05	0.99	
sec-Butylbenzene		1.9703	2.5992	3.1062	3.0831	3.3186	3.3439			QUAD	0.38694	0.30031	-2.22E-5	2.9036	1.000	15	0.05	0.99	
para-Isopropyl Toluene		1.7467	2.2094	2.5235	2.5315	2.6109	2.7463	2.3610	2.7103	AVRG		0.41153		2.4300	13	15	0.05	0.99	
1,3-Dichlorobenzene		1.6110	1.8573	1.7792	1.8526	1.7359	1.7869	1.5625	1.6591	AVRG		0.57785		1.7306	6	15	0.05	0.99	
1,4-Dichlorobenzene		1.6826	1.8930	1.8929	1.9221	1.7949	1.7945	1.6269	1.6601	AVRG		0.56074		1.7834	6	15	0.05	0.99	
n-Butylbenzene		1.5787	1.8203	2.1958	2.2063	2.3582	2.3647	2.0414	2.3762	AVRG		0.47221		2.1177	14	15	0.05	0.99	
1,2-Dichlorobenzene		1.4539	1.8069	1.8191	1.8983	1.7463	1.7773	1.6041	1.6806	AVRG		0.58027		1.7233	8	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane			0.1616	0.1699	0.1983	0.1842	0.1955	0.1828	0.1722	AVRG		5.53549		0.1807	7	15	0.05	0.99	
1,2,4-Trichlorobenzene		0.8765	0.8624	0.8743	0.8996	0.8743	0.9224	0.8434	0.8774	AVRG		1.13794		0.8788	3	15	0.05	0.99	
Hexachlorobutadiene			0.2094	0.2784	0.2846	0.3063	0.3289	0.2774	0.3342	AVRG		3.46665		0.2885	15	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene		1.6986	2.1178	2.1541	2.4786	2.4560	2.6103	2.2430	2.3052	AVRG		0.44288		2.2579	13	15	0.05	0.99	
1,2,3-Trichlorobenzene		0.7394	0.7844	0.7911	0.8661	0.8059	0.8451	0.7604	0.7948	AVRG		1.25249		0.7984	5	15	0.05	0.99	
Dibromofluoromethane	0.5677	0.5675	0.5619	0.5561	0.5557	0.5691	0.5643	0.5522	0.5522	AVRG		1.78335		0.5607	1	15	0.05	0.99	
1,2-Dichloroethane-d4	0.3818	0.3823	0.3817	0.3807	0.3708	0.3630	0.3688	0.3617	0.3584	AVRG		2.68719		0.3721	3	15	0.05	0.99	
Toluene-d8	1.1997	1.2731	1.2988	1.3298	1.3078	1.2643	1.2956	1.2195	1.2831	AVRG		0.78453		1.2746	3	15	0.05	0.99	
Bromofluorobenzene	1.1079	1.1243	1.0715	1.0525	1.0636	1.1136	1.1128	1.1079	1.1077	AVRG		0.91262		1.0957	2	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Freon 12			1.0000	-2	2.0000	-2	5.0000	0	10.000	10	20.000	-8	50.000	13	75.000	-8	100.00	-3
Chloromethane	0.5000	6	1.0000	-2	2.0000	5	5.0000	6	10.000	7	20.000	-5	50.000	-1	75.000	-7	100.00	-7
Vinyl Chloride	0.5000	-11	1.0000	2	2.0000	-2	5.0000	6	10.000	6	20.000	-4	50.000	9	75.000	-6	100.00	0
Bromomethane			1.0000	-6	2.0000	-3	5.0000	3	10.000	-1	20.000	-6	50.000	5	75.000	0	100.00	9
Chloroethane			1.0000	0	2.0000	10	5.0000	1	10.000	7	20.000	-5	50.000	0	75.000	-10	100.00	-4
Trichlorofluoromethane			1.0000	-6	2.0000	0	5.0000	3	10.000	14	20.000	-8	50.000	6	75.000	-9	100.00	-1
Acetone							5.0000	5	10.000	6	20.000	1	50.000	-1	75.000	-3	100.00	-8
Freon 113					2.0000	**36**	5.0000	11	10.000	-10	20.000	-3	50.000	1				
1,1-Dichloroethene			0.5000	-20	2.0000	-10	5.0000	3	10.000	-7	20.000	6	50.000	12	75.000	5	100.00	13
Methylene Chloride			0.5000	-4	2.0000	-4	5.0000	13	10.000	2	20.000	3	50.000	4	75.000	-6	100.00	-9
Carbon Disulfide			0.5000	-20	2.0000	-6	5.0000	2	10.000	-1	20.000	4	50.000	7	75.000	1	100.00	13
MTBE			0.5000	-1	2.0000	-2	5.0000	4	10.000	8	20.000	-1	50.000	1	75.000	-2	100.00	-7
trans-1,2-Dichloroethene			0.5000	-3	2.0000	0	5.0000	1	10.000	4	20.000	1	50.000	4	75.000	-7	100.00	0
Vinyl Acetate							5.0000	-7	10.000	0	20.000	6	50.000	15	75.000	-13		
1,1-Dichloroethane			0.5000	-11	2.0000	3	5.0000	6	10.000	6	20.000	0	50.000	4	75.000	-6	100.00	-4
2-Butanone							5.0000	2	10.000	10	20.000	0	50.000	5	75.000	-6	100.00	-11
2,2-Dichloropropane			0.5000	-16	2.0000	-2	5.0000	1	10.000	5	20.000	2	50.000	7	75.000	-2	100.00	4
cis-1,2-Dichloroethene			0.5000	-13	2.0000	3	5.0000	8	10.000	6	20.000	0	50.000	5	75.000	-5	100.00	-4
Chloroform			0.5000	0	2.0000	5	5.0000	7	10.000	3	20.000	-1	50.000	3	75.000	-7	100.00	-10
Bromochloromethane			0.5000	-10	2.0000	0	5.0000	9	10.000	8	20.000	5	50.000	4	75.000	-6	100.00	-9
1,1,1-Trichloroethane			0.5000	**-29**	2.0000	-3	5.0000	-2	10.000	4	20.000	4	50.000	13	75.000	0	100.00	13
1,1-Dichloropropene			0.5000	**-24**	2.0000	-6	5.0000	-1	10.000	-2	20.000	2	50.000	13	75.000	0	100.00	17
Carbon Tetrachloride			0.5000	**32**	2.0000	-6	5.0000	5	10.000	-5	20.000	1	50.000	0				
1,2-Dichloroethane			0.5000	0	2.0000	1	5.0000	6	10.000	6	20.000	-4	50.000	2	75.000	-4	100.00	-8
Benzene			0.5000	1	2.0000	9	5.0000	8	10.000	5	20.000	-4	50.000	1	75.000	-11	100.00	-9
Trichloroethene			0.5000	**-24**	2.0000	1	5.0000	8	10.000	7	20.000	-3	50.000	7	75.000	-1	100.00	6
1,2-Dichloropropane			0.5000	-3	2.0000	5	5.0000	13	10.000	8	20.000	-9	50.000	4	75.000	-9	100.00	-10
Bromodichloromethane			0.5000	-20	2.0000	5	5.0000	6	10.000	7	20.000	-4	50.000	7	75.000	-2	100.00	0
Dibromomethane			0.5000	-14	2.0000	4	5.0000	6	10.000	13	20.000	-5	50.000	4	75.000	-4	100.00	-4
4-Methyl-2-Pentanone							5.0000	-2	10.000	9	20.000	-2	50.000	6	75.000	-3	100.00	-8
cis-1,3-Dichloropropene			0.5000	-15	2.0000	4	5.0000	15	10.000	8	20.000	-4	50.000	2	75.000	-5	100.00	-4
Toluene			0.5000	-11	2.0000	12	5.0000	2	10.000	9	20.000	0	50.000	2	75.000	-8	100.00	-6
trans-1,3-Dichloropropene			0.5000	-14	2.0000	-4	5.0000	8	10.000	5	20.000	1	50.000	10	75.000	-3	100.00	-4
1,1,2-Trichloroethane			0.5000	-20	2.0000	6	5.0000	11	10.000	11	20.000	1	50.000	3	75.000	-5	100.00	-8
2-Hexanone							5.0000	-1	10.000	9	20.000	0	50.000	4	75.000	-5	100.00	-8
1,3-Dichloropropane			0.5000	-7	2.0000	9	5.0000	8	10.000	7	20.000	2	50.000	1	75.000	-11	100.00	-8
Tetrachloroethene			0.5000	**-26**	2.0000	-16	5.0000	8	10.000	6	20.000	4	50.000	15	75.000	-5	100.00	15
Dibromochloromethane			0.5000	-20	2.0000	-3	5.0000	3	10.000	9	20.000	3	50.000	11	75.000	-1	100.00	-2
1,2-Dibromoethane			0.5000	-15	2.0000	4	5.0000	5	10.000	12	20.000	2	50.000	4	75.000	-6	100.00	-5
Chlorobenzene			0.5000	-6	2.0000	5	5.0000	8	10.000	10	20.000	-2	50.000	4	75.000	-11	100.00	-9
1,1,1,2-Tetrachloroethane			0.5000	-10	2.0000	-3	5.0000	4	10.000	10	20.000	-1	50.000	7	75.000	-7	100.00	-1
Ethylbenzene			0.5000	-17	2.0000	0	5.0000	11	10.000	8	20.000	6	50.000	5	75.000	-12	100.00	-2

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
m,p-Xylenes	0.5000	-5	1.0000	-15	4.0000	12	10.000	8	20.000	15	40.000	1	100.00	5	150.00	-12	200.00	-9
o-Xylene			0.5000	-17	2.0000	7	5.0000	9	10.000	15	20.000	-1	50.000	3	75.000	-11	100.00	-4
Styrene			0.5000	-17	2.0000	5	5.0000	15	10.000	15	20.000	2	50.000	-3	75.000	-10	100.00	-6
Bromoform			0.5000	-18	2.0000	-9	5.0000	-5	10.000	10	20.000	4	50.000	12	75.000	6	100.00	2
Isopropylbenzene			0.5000	-18	2.0000	-6	5.0000	6	10.000	1	20.000	4	50.000	12	75.000	-7	100.00	10
1,1,2,2-Tetrachloroethane			0.5000	-7	2.0000	-2	5.0000	1	10.000	11	20.000	3	50.000	5	75.000	-2	100.00	-9
1,2,3-Trichloropropane			0.5000	-2	2.0000	9	5.0000	4	10.000	7	20.000	0	50.000	3	75.000	-11	100.00	-9
Propylbenzene			0.5000	-20	2.0000	-3	5.0000	9	10.000	4	20.000	10	50.000	10	75.000	-10	100.00	-1
Bromobenzene			0.5000	-12	2.0000	9	5.0000	7	10.000	8	20.000	5	50.000	3	75.000	-10	100.00	-10
1,3,5-Trimethylbenzene			0.5000	**-21**	2.0000	1	5.0000	5	10.000	8	20.000	10	50.000	7	75.000	-9	100.00	-1
2-Chlorotoluene			0.5000	-14	2.0000	6	5.0000	11	10.000	7	20.000	7	50.000	2	75.000	-11	100.00	-8
4-Chlorotoluene			0.5000	-7	2.0000	4	5.0000	5	10.000	7	20.000	2	50.000	3	75.000	-11	100.00	-5
tert-Butylbenzene			0.5000	**-24**	2.0000	-7	5.0000	6	10.000	7	20.000	8	50.000	7	75.000	-5	100.00	8
1,2,4-Trimethylbenzene			0.5000	-13	2.0000	2	5.0000	3	10.000	11	20.000	6	50.000	3	75.000	-7	100.00	-5
sec-Butylbenzene			0.5000	**37**	2.0000	-3	5.0000	1	10.000	-4	20.000	1	50.000	0				
para-Isopropyl Toluene			0.5000	**-28**	2.0000	-9	5.0000	4	10.000	4	20.000	7	50.000	13	75.000	-3	100.00	12
1,3-Dichlorobenzene			0.5000	-7	2.0000	7	5.0000	3	10.000	7	20.000	0	50.000	3	75.000	-10	100.00	-4
1,4-Dichlorobenzene			0.5000	-6	2.0000	6	5.0000	6	10.000	8	20.000	1	50.000	1	75.000	-9	100.00	-7
n-Butylbenzene			0.5000	**-25**	2.0000	-14	5.0000	4	10.000	4	20.000	11	50.000	12	75.000	-4	100.00	12
1,2-Dichlorobenzene			0.5000	-16	2.0000	5	5.0000	6	10.000	10	20.000	1	50.000	3	75.000	-7	100.00	-2
1,2-Dibromo-3-Chloropropane					2.0000	-11	5.0000	-6	10.000	10	20.000	2	50.000	8	75.000	1	100.00	-5
1,2,4-Trichlorobenzene			0.5000	0	2.0000	-2	5.0000	-1	10.000	2	20.000	-1	50.000	5	75.000	-4	100.00	0
Hexachlorobutadiene					2.0000	**-27**	5.0000	-3	10.000	-1	20.000	6	50.000	14	75.000	-4	100.00	16
Naphthalene			0.5000	**-25**	2.0000	-6	5.0000	-5	10.000	10	20.000	9	50.000	16	75.000	-1	100.00	2
1,2,3-Trichlorobenzene			0.5000	-7	2.0000	-2	5.0000	-1	10.000	8	20.000	1	50.000	6	75.000	-5	100.00	0
Dibromofluoromethane	50.000	1	50.000	1	50.000	0	50.000	-1	50.000	-1	50.000	1	50.000	1	50.000	-2	50.000	-2
1,2-Dichloroethane-d4	50.000	3	50.000	3	50.000	3	50.000	2	50.000	0	50.000	-2	50.000	-1	50.000	-3	50.000	-4
Toluene-d8	50.000	-6	50.000	0	50.000	2	50.000	4	50.000	3	50.000	-1	50.000	2	50.000	-4	50.000	1
Bromofluorobenzene	50.000	1	50.000	3	50.000	-2	50.000	-4	50.000	-3	50.000	2	50.000	2	50.000	1	50.000	1

BO 08/14/13 [Freon 12]: Corrected fronting or tailing peak integration1PPB (jhd11).

BO 08/14/13 [Chloromethane]: Corrected fronting or tailing peak integration.5PPB (jhd10).

BO 08/14/13 [Chloroethane]: Corrected fronting or tailing peak integration1PPB (jhd11).

Analyst: BO Date: 08/14/13 Reviewer: SJD Date: 08/14/13

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; LINR=Linear regression; QUAD=Quadratic regression

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 248701 MSVOA Water
EPA 8260B

Inst : MSVOA10 Name : 826GOX10
Calnum : 493324690001 Cal Date : 13-AUG-2013 Type : WATER

ICV 493324690019 (jhd19 13-AUG-2013) stds: S22435 (8000X), S22921 (2500X)
ICV 493324690021 (jhd21 14-AUG-2013) stds: S22975 (10000X), S22927 (10000X), S23020 (10000X), S22921 (2500X)

Analyte	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max	Flags
Freon 12	493324690019	13-AUG-2013	25.00	26.29	ug/L	5	30	
Chloromethane	493324690019	13-AUG-2013	25.00	25.03	ug/L	0	30	
Vinyl Chloride	493324690019	13-AUG-2013	25.00	26.02	ug/L	4	20	
Bromomethane	493324690019	13-AUG-2013	25.00	24.82	ug/L	-1	30	
Chloroethane	493324690019	13-AUG-2013	25.00	24.16	ug/L	-3	30	
Trichlorofluoromethane	493324690019	13-AUG-2013	25.00	23.76	ug/L	-5	30	
Acetone	493324690021	14-AUG-2013	25.00	22.15	ug/L	-11	40	
Freon 113	493324690021	14-AUG-2013	25.00	27.59	ug/L	10	30	
1,1-Dichloroethene	493324690021	14-AUG-2013	25.00	28.65	ug/L	15	20	
Methylene Chloride	493324690021	14-AUG-2013	25.00	23.80	ug/L	-5	30	
Carbon Disulfide	493324690021	14-AUG-2013	25.00	31.27	ug/L	**25**	30	!v+
MTBE	493324690021	14-AUG-2013	25.00	21.26	ug/L	-15	30	
trans-1,2-Dichloroethene	493324690021	14-AUG-2013	25.00	26.29	ug/L	5	30	
Vinyl Acetate	493324690021	14-AUG-2013	25.00	25.35	ug/L	1	40	m
1,1-Dichloroethane	493324690021	14-AUG-2013	25.00	21.47	ug/L	-14	30	
2-Butanone	493324690021	14-AUG-2013	25.00	22.76	ug/L	-9	40	
2,2-Dichloropropane	493324690021	14-AUG-2013	25.00	22.53	ug/L	-10	30	
cis-1,2-Dichloroethene	493324690021	14-AUG-2013	25.00	23.71	ug/L	-5	30	
Chloroform	493324690021	14-AUG-2013	25.00	20.84	ug/L	-17	20	
Bromochloromethane	493324690021	14-AUG-2013	25.00	20.47	ug/L	-18	30	
1,1,1-Trichloroethane	493324690021	14-AUG-2013	25.00	25.35	ug/L	1	30	
1,1-Dichloropropene	493324690021	14-AUG-2013	25.00	28.64	ug/L	15	30	
Carbon Tetrachloride	493324690021	14-AUG-2013	25.00	25.10	ug/L	0	30	
1,2-Dichloroethane	493324690021	14-AUG-2013	25.00	22.98	ug/L	-8	30	
Benzene	493324690021	14-AUG-2013	25.00	23.33	ug/L	-7	30	
Trichloroethene	493324690021	14-AUG-2013	25.00	24.99	ug/L	0	30	
1,2-Dichloropropane	493324690021	14-AUG-2013	25.00	21.78	ug/L	-13	20	
Bromodichloromethane	493324690021	14-AUG-2013	25.00	22.77	ug/L	-9	30	
Dibromomethane	493324690021	14-AUG-2013	25.00	20.95	ug/L	-16	30	
4-Methyl-2-Pentanone	493324690021	14-AUG-2013	25.00	21.36	ug/L	-15	40	
cis-1,3-Dichloropropene	493324690021	14-AUG-2013	25.00	23.42	ug/L	-6	30	
Toluene	493324690021	14-AUG-2013	25.00	24.61	ug/L	-2	20	
trans-1,3-Dichloropropene	493324690021	14-AUG-2013	25.00	22.94	ug/L	-8	30	
1,1,2-Trichloroethane	493324690021	14-AUG-2013	25.00	23.19	ug/L	-7	30	
2-Hexanone	493324690021	14-AUG-2013	25.00	21.94	ug/L	-12	40	
1,3-Dichloropropane	493324690021	14-AUG-2013	25.00	22.84	ug/L	-9	30	
Tetrachloroethene	493324690021	14-AUG-2013	25.00	25.91	ug/L	4	30	
Dibromochloromethane	493324690021	14-AUG-2013	25.00	23.20	ug/L	-7	30	
1,2-Dibromoethane	493324690021	14-AUG-2013	25.00	22.78	ug/L	-9	30	
Chlorobenzene	493324690021	14-AUG-2013	25.00	24.38	ug/L	-2	30	
1,1,1,2-Tetrachloroethane	493324690021	14-AUG-2013	25.00	24.17	ug/L	-3	30	
Ethylbenzene	493324690021	14-AUG-2013	25.00	24.50	ug/L	-2	20	
m,p-Xylenes	493324690021	14-AUG-2013	50.00	51.20	ug/L	2	30	
o-Xylene	493324690021	14-AUG-2013	25.00	24.24	ug/L	-3	30	
Styrene	493324690021	14-AUG-2013	25.00	23.60	ug/L	-6	30	
Bromoform	493324690021	14-AUG-2013	25.00	22.79	ug/L	-9	30	
Isopropylbenzene	493324690021	14-AUG-2013	25.00	25.11	ug/L	0	30	

Analyte	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	493324690021	14-AUG-2013	25.00	23.21	ug/L	-7	30	
1,2,3-Trichloropropane	493324690021	14-AUG-2013	25.00	22.01	ug/L	-12	30	
Propylbenzene	493324690021	14-AUG-2013	25.00	25.19	ug/L	1	30	
Bromobenzene	493324690021	14-AUG-2013	25.00	21.24	ug/L	-15	30	
1,3,5-Trimethylbenzene	493324690021	14-AUG-2013	25.00	24.26	ug/L	-3	30	
2-Chlorotoluene	493324690021	14-AUG-2013	25.00	23.33	ug/L	-7	30	
4-Chlorotoluene	493324690021	14-AUG-2013	25.00	22.76	ug/L	-9	30	
tert-Butylbenzene	493324690021	14-AUG-2013	25.00	27.16	ug/L	9	30	
1,2,4-Trimethylbenzene	493324690021	14-AUG-2013	25.00	23.40	ug/L	-6	30	
sec-Butylbenzene	493324690021	14-AUG-2013	25.00	24.73	ug/L	-1	30	
para-Isopropyl Toluene	493324690021	14-AUG-2013	25.00	24.45	ug/L	-2	30	
1,3-Dichlorobenzene	493324690021	14-AUG-2013	25.00	23.92	ug/L	-4	30	
1,4-Dichlorobenzene	493324690021	14-AUG-2013	25.00	22.97	ug/L	-8	30	
n-Butylbenzene	493324690021	14-AUG-2013	25.00	25.90	ug/L	4	30	
1,2-Dichlorobenzene	493324690021	14-AUG-2013	25.00	23.43	ug/L	-6	30	
1,2-Dibromo-3-Chloropropane	493324690021	14-AUG-2013	25.00	21.26	ug/L	-15	30	
1,2,4-Trichlorobenzene	493324690021	14-AUG-2013	25.00	23.02	ug/L	-8	30	
Hexachlorobutadiene	493324690021	14-AUG-2013	25.00	25.60	ug/L	2	30	
Naphthalene	493324690021	14-AUG-2013	25.00	23.45	ug/L	-6	30	
1,2,3-Trichlorobenzene	493324690021	14-AUG-2013	25.00	23.61	ug/L	-6	30	

493324690019: Analyst: BO Date: 08/14/13 Reviewer: SJD Date: 08/14/13
493324690021: Analyst: BO Date: 08/14/13 Reviewer: SJD Date: 08/14/13

!=warning +=high bias m=manual integration v=ICV

CURTIS & TOMPKINS SPIKE USER REPORT FOR 248701 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : QC706165 IDF : 1.0
Seqnum : 483364778006.1 File : iia06 Time : 10-SEP-2013 10:46
Cal : 483147320002 Caldate : 12-APR-2013 Caltype : WATER
Standards: S23157 (10000X), S22435 (10000X), S22927 (10000X), S22975 (10000X), S22913 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.3656	0.3830	20.00	20.95	ug/L	5	30	0.0500	u
Chloromethane	0.5899	0.4646	20.00	15.75	ug/L	-21	30	0.1000	u
Vinyl Chloride	0.3773	0.3836	20.00	20.33	ug/L	2	20	0.0500	u
Bromomethane	0.1857	0.2334	20.00	25.14	ug/L	26	30	0.0500	!v- u
Chloroethane	0.2553	0.2343	20.00	18.36	ug/L	-8	30	0.0500	u
Trichlorofluoromethane	0.4543	0.4866	20.00	21.42	ug/L	7	30	0.0500	u
Acetone	0.0978	0.1003	25.00	25.66	ug/L	3	40	0.0500	!v+ u
Freon 113	0.2418	0.2917	25.00	30.16	ug/L	21	30	0.0500	u
1,1-Dichloroethene	0.2748	0.2883	25.00	26.23	ug/L	5	20	0.0500	u
Methylene Chloride	0.3658	0.3745	25.00	25.59	ug/L	2	30	0.0500	u
Carbon Disulfide	1.1127	1.0817	25.00	24.30	ug/L	-3	30	0.0500	u
MTBE	0.7462	0.7001	25.00	23.46	ug/L	-6	30	0.0500	u
trans-1,2-Dichloroethene	0.3211	0.3456	25.00	26.90	ug/L	8	30	0.0500	u
Vinyl Acetate	0.6813	0.5264	25.00	19.32	ug/L	-23	40	0.0500	u
1,1-Dichloroethane	0.6789	0.5643	25.00	20.78	ug/L	-17	30	0.1000	u
2-Butanone	0.1437	0.1084	25.00	18.85	ug/L	-25	40	0.0500	u
cis-1,2-Dichloroethene	0.3687	0.3925	25.00	26.61	ug/L	6	30	0.0500	u
2,2-Dichloropropane	0.4126	0.4469	25.00	27.07	ug/L	8	30	0.0500	u
Chloroform	0.5897	0.5824	25.00	24.69	ug/L	-1	20	0.0500	u
Bromochloromethane	0.1630	0.1788	25.00	27.42	ug/L	10	30	0.0500	u
1,1,1-Trichloroethane	0.4211	0.4569	25.00	27.12	ug/L	8	30	0.0500	u
1,1-Dichloropropene	0.2741	0.3126	25.00	28.51	ug/L	14	30	0.0500	u
Carbon Tetrachloride	0.2427	0.2878	25.00	29.65	ug/L	19	30	0.0500	u
1,2-Dichloroethane	0.2767	0.2840	25.00	25.66	ug/L	3	30	0.0500	u
Benzene	0.8251	0.8566	25.00	25.95	ug/L	4	30	0.0500	u
Trichloroethene	0.2250	0.2570	25.00	28.55	ug/L	14	30	0.0500	u
1,2-Dichloropropane	0.2781	0.2437	25.00	21.91	ug/L	-12	20	0.0500	u
Bromodichloromethane	0.2953	0.3113	25.00	26.35	ug/L	5	30	0.0500	u
Dibromomethane	0.1433	0.1342	25.00	23.41	ug/L	-6	30	0.0500	u
4-Methyl-2-Pentanone	0.2255	0.1588	25.00	17.61	ug/L	-30	40	0.0500	u
cis-1,3-Dichloropropene	0.3386	0.3792	25.00	27.99	ug/L	12	30	0.0500	u
Toluene	0.6477	0.6691	25.00	25.83	ug/L	3	20	0.0500	u
trans-1,3-Dichloropropene	0.3950	0.3752	25.00	23.75	ug/L	-5	30	0.0500	u
1,1,2-Trichloroethane	0.1361	0.1282	25.00	23.55	ug/L	-6	30	0.0500	u
2-Hexanone	0.2086	0.1503	25.00	18.01	ug/L	-28	40	0.0500	u
1,3-Dichloropropane	0.4045	0.3854	25.00	23.82	ug/L	-5	30	0.0500	u
Tetrachloroethene	0.2583	0.2892	25.00	27.99	ug/L	12	30	0.0500	u
Dibromochloromethane	0.2885	0.3196	25.00	27.70	ug/L	11	30	0.0500	u
1,2-Dibromoethane	0.2439	0.2473	25.00	25.36	ug/L	1	30	0.0500	u
Chlorobenzene	0.7359	0.8238	25.00	27.99	ug/L	12	30	0.3000	u
1,1,1,2-Tetrachloroethane	0.2556	0.3076	25.00	30.09	ug/L	20	30	0.0500	u
Ethylbenzene	1.1863	1.2508	25.00	26.36	ug/L	5	20	0.0500	u
m,p-Xylenes	0.4253	0.4665	50.00	54.85	ug/L	10	30	0.0500	u
o-Xylene	0.4388	0.5145	25.00	29.32	ug/L	17	30	0.0500	u
Styrene	0.7686	0.8330	25.00	27.09	ug/L	8	30	0.0500	u
Bromoform	0.1711	0.1865	25.00	27.24	ug/L	9	30	0.1000	u
Isopropylbenzene	2.2156	2.2331	25.00	25.20	ug/L	1	30	0.0500	u

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	0.5965	0.4619	25.00	19.36	ug/L	-23	30	0.3000	u
1,2,3-Trichloropropane	0.1358	0.1147	25.00	21.11	ug/L	-16	30	0.0500	u
Propylbenzene	2.6387	2.3698	25.00	22.45	ug/L	-10	30	0.0500	u
Bromobenzene	0.6203	0.6199	25.00	24.98	ug/L	0	30	0.0500	u
1,3,5-Trimethylbenzene	1.7053	1.7394	25.00	25.50	ug/L	2	30	0.0500	u
2-Chlorotoluene	1.7595	1.7305	25.00	24.59	ug/L	-2	30	0.0500	u
4-Chlorotoluene	1.6958	1.5937	25.00	23.49	ug/L	-6	30	0.0500	u
tert-Butylbenzene	1.4837	1.6216	25.00	27.32	ug/L	9	30	0.0500	u
1,2,4-Trimethylbenzene	1.7503	1.7545	25.00	25.06	ug/L	0	30	0.0500	u
sec-Butylbenzene	2.2639	2.2743	25.00	25.12	ug/L	0	30	0.0500	u
para-Isopropyl Toluene	1.6995	1.6315	25.00	24.00	ug/L	-4	30	0.0500	u
1,3-Dichlorobenzene	1.0679	1.1389	25.00	26.66	ug/L	7	30	0.0500	u
1,4-Dichlorobenzene	1.0713	1.0391	25.00	24.25	ug/L	-3	30	0.0500	u
n-Butylbenzene	1.5747	1.4001	25.00	22.23	ug/L	-11	30	0.0500	u
1,2-Dichlorobenzene	1.0296	1.0717	25.00	26.02	ug/L	4	30	0.0500	u
1,2-Dibromo-3-Chloropropane	0.0884	0.0671	25.00	18.98	ug/L	-24	30	0.0500	u
1,2,4-Trichlorobenzene	0.5605	0.5594	25.00	24.95	ug/L	0	30	0.0500	u
Hexachlorobutadiene	0.2774	0.3336	25.00	30.06	ug/L	20	30	0.0500	u
Naphthalene	1.0017	0.9312	25.00	23.24	ug/L	-7	30	0.0500	u
1,2,3-Trichlorobenzene	0.5250	0.5110	25.00	24.33	ug/L	-3	30	0.0500	u
Dibromofluoromethane	0.5357	0.5159	50.00	48.16	ug/L	-4	30	0.0500	u
1,2-Dichloroethane-d4	0.3052	0.2595	50.00	42.51	ug/L	-15	30	0.0500	u
Toluene-d8	1.3871	1.3262	50.00	47.81	ug/L	-4	30	0.0500	u
Bromofluorobenzene	1.0329	0.9299	50.00	45.02	ug/L	-10	30	0.0500	u

ISTD (ICAL idc20)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1676048	1711565	2.12	11.44	11.41	-0.03
1,4-Difluorobenzene	2499222	2488892	-0.41	12.70	12.68	-0.02
Chlorobenzene-d5	1839785	1994455	8.41	16.96	16.94	-0.02
1,4-Dichlorobenzene-d4	910468	1142774	25.52	19.40	19.39	-0.01

Analyst: MJB Date: 09/12/13 Reviewer: LW Date: 09/13/13

!=warning +=high bias -=low bias u=use v=ICV

CURTIS & TOMPKINS SPIKE USER REPORT FOR 248701 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : QC706354 IDF : 1.0
Seqnum : 483366213009.3 File : iib09 Time : 11-SEP-2013 12:09
Cal : 483147320002 Caldate : 12-APR-2013 Caltype : WATER
Standards: S23157 (10000X), S22435 (10000X), S22927 (10000X), S22975 (10000X), S22913 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.3656	0.4963	20.00	27.15	ug/L	**36**	30	0.0500	c+ u ***
Chloromethane	0.5899	0.5243	20.00	17.77	ug/L	-11	30	0.1000	u
Vinyl Chloride	0.3773	0.4011	20.00	21.26	ug/L	6	20	0.0500	u
Bromomethane	0.1857	0.1316	20.00	14.17	ug/L	-29	30	0.0500	!v- u
Chloroethane	0.2553	0.2260	20.00	17.70	ug/L	-11	30	0.0500	u
Trichlorofluoromethane	0.4543	0.4844	20.00	21.32	ug/L	7	30	0.0500	u
Acetone	0.0978	0.0902	25.00	23.07	ug/L	-8	40	0.0500	!v+ u
Freon 113	0.2418	0.2655	25.00	27.45	ug/L	10	30	0.0500	u
1,1-Dichloroethene	0.2748	0.2765	25.00	25.16	ug/L	1	20	0.0500	u
Methylene Chloride	0.3658	0.3566	25.00	24.37	ug/L	-3	30	0.0500	u
Carbon Disulfide	1.1127	1.0364	25.00	23.29	ug/L	-7	30	0.0500	u
MTBE	0.7462	0.6557	25.00	21.97	ug/L	-12	30	0.0500	u
trans-1,2-Dichloroethene	0.3211	0.3280	25.00	25.53	ug/L	2	30	0.0500	u
Vinyl Acetate	0.6813	0.4415	25.00	16.20	ug/L	-35	40	0.0500	u
1,1-Dichloroethane	0.6789	0.5223	25.00	19.23	ug/L	-23	30	0.1000	u
2-Butanone	0.1437	0.1054	25.00	18.34	ug/L	-27	40	0.0500	u
cis-1,2-Dichloroethene	0.3687	0.3606	25.00	24.45	ug/L	-2	30	0.0500	u
2,2-Dichloropropane	0.4126	0.4048	25.00	24.52	ug/L	-2	30	0.0500	u
Chloroform	0.5897	0.5534	25.00	23.46	ug/L	-6	20	0.0500	u
Bromochloromethane	0.1630	0.1716	25.00	26.32	ug/L	5	30	0.0500	u
1,1,1-Trichloroethane	0.4211	0.4219	25.00	25.05	ug/L	0	30	0.0500	u
1,1-Dichloropropene	0.2741	0.2947	25.00	26.87	ug/L	7	30	0.0500	u
Carbon Tetrachloride	0.2427	0.2656	25.00	27.36	ug/L	9	30	0.0500	u
1,2-Dichloroethane	0.2767	0.2667	25.00	24.09	ug/L	-4	30	0.0500	u
Benzene	0.8251	0.8279	25.00	25.08	ug/L	0	30	0.0500	u
Trichloroethene	0.2250	0.2474	25.00	27.49	ug/L	10	30	0.0500	u
1,2-Dichloropropane	0.2781	0.2326	25.00	20.92	ug/L	-16	20	0.0500	u
Bromodichloromethane	0.2953	0.3018	25.00	25.54	ug/L	2	30	0.0500	u
Dibromomethane	0.1433	0.1274	25.00	22.22	ug/L	-11	30	0.0500	u
4-Methyl-2-Pentanone	0.2255	0.1456	25.00	16.15	ug/L	-35	40	0.0500	u
cis-1,3-Dichloropropene	0.3386	0.3648	25.00	26.93	ug/L	8	30	0.0500	u
Toluene	0.6477	0.6091	25.00	23.51	ug/L	-6	20	0.0500	u
trans-1,3-Dichloropropene	0.3950	0.3275	25.00	20.73	ug/L	-17	30	0.0500	u
1,1,2-Trichloroethane	0.1361	0.1141	25.00	20.96	ug/L	-16	30	0.0500	u
2-Hexanone	0.2086	0.1333	25.00	15.98	ug/L	-36	40	0.0500	u
1,3-Dichloropropane	0.4045	0.3477	25.00	21.49	ug/L	-14	30	0.0500	u
Tetrachloroethene	0.2583	0.2642	25.00	25.57	ug/L	2	30	0.0500	u
Dibromochloromethane	0.2885	0.2822	25.00	24.46	ug/L	-2	30	0.0500	u
1,2-Dibromoethane	0.2439	0.2231	25.00	22.87	ug/L	-9	30	0.0500	u
Chlorobenzene	0.7359	0.7685	25.00	26.11	ug/L	4	30	0.3000	u
1,1,1,2-Tetrachloroethane	0.2556	0.2800	25.00	27.38	ug/L	10	30	0.0500	u
Ethylbenzene	1.1863	1.1196	25.00	23.59	ug/L	-6	20	0.0500	u
m,p-Xylenes	0.4253	0.4197	50.00	49.35	ug/L	-1	30	0.0500	u
o-Xylene	0.4388	0.4716	25.00	26.87	ug/L	7	30	0.0500	u
Styrene	0.7686	0.7548	25.00	24.55	ug/L	-2	30	0.0500	u
Bromoform	0.1711	0.1723	25.00	25.17	ug/L	1	30	0.1000	u
Isopropylbenzene	2.2156	2.0836	25.00	23.51	ug/L	-6	30	0.0500	u

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	0.5965	0.4205	25.00	17.63	ug/L	-29	30	0.3000	u
1,2,3-Trichloropropane	0.1358	0.1106	25.00	20.35	ug/L	-19	30	0.0500	u
Propylbenzene	2.6387	2.2481	25.00	21.30	ug/L	-15	30	0.0500	u
Bromobenzene	0.6203	0.6040	25.00	24.34	ug/L	-3	30	0.0500	u
1,3,5-Trimethylbenzene	1.7053	1.6518	25.00	24.22	ug/L	-3	30	0.0500	u
2-Chlorotoluene	1.7595	1.6325	25.00	23.20	ug/L	-7	30	0.0500	u
4-Chlorotoluene	1.6958	1.4772	25.00	21.78	ug/L	-13	30	0.0500	u
tert-Butylbenzene	1.4837	1.5130	25.00	25.49	ug/L	2	30	0.0500	u
1,2,4-Trimethylbenzene	1.7503	1.6329	25.00	23.32	ug/L	-7	30	0.0500	u
sec-Butylbenzene	2.2639	2.1077	25.00	23.28	ug/L	-7	30	0.0500	u
para-Isopropyl Toluene	1.6995	1.5457	25.00	22.74	ug/L	-9	30	0.0500	u
1,3-Dichlorobenzene	1.0679	1.0837	25.00	25.37	ug/L	1	30	0.0500	u
1,4-Dichlorobenzene	1.0713	1.0413	25.00	24.30	ug/L	-3	30	0.0500	u
n-Butylbenzene	1.5747	1.2717	25.00	20.19	ug/L	-19	30	0.0500	u
1,2-Dichlorobenzene	1.0296	1.0372	25.00	25.19	ug/L	1	30	0.0500	u
1,2-Dibromo-3-Chloropropane	0.0884	0.0633	25.00	17.92	ug/L	-28	30	0.0500	u
1,2,4-Trichlorobenzene	0.5605	0.5047	25.00	22.51	ug/L	-10	30	0.0500	u
Hexachlorobutadiene	0.2774	0.3019	25.00	27.21	ug/L	9	30	0.0500	u
Naphthalene	1.0017	0.8571	25.00	21.39	ug/L	-14	30	0.0500	u
1,2,3-Trichlorobenzene	0.5250	0.4616	25.00	21.98	ug/L	-12	30	0.0500	u
Dibromofluoromethane	0.5357	0.4982	50.00	46.50	ug/L	-7	30	0.0500	u
1,2-Dichloroethane-d4	0.3052	0.2511	50.00	41.15	ug/L	-18	30	0.0500	u
Toluene-d8	1.3871	1.2186	50.00	43.93	ug/L	-12	30	0.0500	u
Bromofluorobenzene	1.0329	0.8870	50.00	42.94	ug/L	-14	30	0.0500	u

ISTD (ICAL idc20)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1676048	1595325	-4.82	11.44	11.39	-0.05
1,4-Difluorobenzene	2499222	2300788	-7.94	12.70	12.66	-0.04
Chlorobenzene-d5	1839785	1964004	6.75	16.96	16.93	-0.03
1,4-Dichlorobenzene-d4	910468	1077087	18.30	19.40	19.39	-0.01

Analyst: MJB Date: 09/12/13 Reviewer: LW Date: 09/13/13

!=warning +=high bias -=low bias c=CCV u=use v=ICV

CURTIS & TOMPKINS SPIKE USER REPORT FOR 248701 MSVOA Water
EPA 8260B

Inst : MSVOA10 Run Name : QC706154 IDF : 1.0
Seqnum : 493364743008.4 File : jia08 Time : 10-SEP-2013 10:28
Cal : 493324690001 Caldate : 13-AUG-2013 Caltype : WATER
Standards: S23157 (20000X), S22975 (20000X), S22435 (20000X), S22927 (20000X), S22921 (2500X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.9142	0.7149	10.00	7.820	ug/L	-22	30	0.0500	u
Chloromethane	0.8908	0.6820	10.00	7.657	ug/L	-23	30	0.1000	u
Vinyl Chloride	0.6707	0.5645	10.00	8.416	ug/L	-16	20	0.0500	u
Bromomethane	0.3589	0.3524	10.00	9.819	ug/L	-2	30	0.0500	u
Chloroethane	0.3563	0.2933	10.00	8.230	ug/L	-18	30	0.0500	u
Trichlorofluoromethane	0.7204	0.6390	10.00	8.870	ug/L	-11	30	0.0500	u
Acetone	0.1612	0.1913	12.50	14.83	ug/L	19	40	0.0500	u
Freon 113	0.2365	0.3583	12.50	15.72	ug/L	26	30	0.0500	u
1,1-Dichloroethene	0.2703	0.3117	12.50	14.41	ug/L	15	20	0.0500	u
Methylene Chloride	0.4279	0.4075	12.50	11.90	ug/L	-5	30	0.0500	u
Carbon Disulfide	0.9465	1.1233	12.50	14.83	ug/L	19	30	0.0500	!v+ u
MTBE	1.1391	0.9903	12.50	10.87	ug/L	-13	30	0.0500	u
trans-1,2-Dichloroethene	0.4924	0.4955	12.50	12.58	ug/L	1	30	0.0500	u
Vinyl Acetate	0.8690	1.4011	12.50	20.15	ug/L	**61**	40	0.0500	c+ u ***
1,1-Dichloroethane	1.1437	0.9646	12.50	10.54	ug/L	-16	30	0.1000	u
2-Butanone	0.3124	0.3052	12.50	12.21	ug/L	-2	40	0.0500	u
cis-1,2-Dichloroethene	0.6280	0.5698	12.50	11.34	ug/L	-9	30	0.0500	u
2,2-Dichloropropane	0.5801	0.6749	12.50	14.54	ug/L	16	30	0.0500	u
Chloroform	1.0586	0.9205	12.50	10.87	ug/L	-13	20	0.0500	u
Bromochloromethane	0.3290	0.2844	12.50	10.80	ug/L	-14	30	0.0500	u
1,1,1-Trichloroethane	0.6516	0.6763	12.50	12.97	ug/L	4	30	0.0500	u
1,1-Dichloropropene	0.3901	0.4890	12.50	15.67	ug/L	25	30	0.0500	u
Carbon Tetrachloride	0.3054	0.4084	12.50	15.29	ug/L	22	30	0.0500	u
1,2-Dichloroethane	0.5474	0.5771	12.50	13.18	ug/L	5	30	0.0500	u
Benzene	1.3679	1.2841	12.50	11.73	ug/L	-6	30	0.0500	u
Trichloroethene	0.3569	0.3842	12.50	13.46	ug/L	8	30	0.0500	u
1,2-Dichloropropane	0.4277	0.4049	12.50	11.83	ug/L	-5	20	0.0500	u
Bromodichloromethane	0.5079	0.4901	12.50	12.06	ug/L	-4	30	0.0500	u
Dibromomethane	0.2783	0.2443	12.50	10.97	ug/L	-12	30	0.0500	u
4-Methyl-2-Pentanone	0.4321	0.3859	12.50	11.16	ug/L	-11	40	0.0500	u
cis-1,3-Dichloropropene	0.5988	0.6229	12.50	13.00	ug/L	4	30	0.0500	u
Toluene	0.9366	0.8701	12.50	11.61	ug/L	-7	20	0.0500	u
trans-1,3-Dichloropropene	0.6697	0.6162	12.50	11.50	ug/L	-8	30	0.0500	u
1,1,2-Trichloroethane	0.2419	0.2211	12.50	11.42	ug/L	-9	30	0.0500	u
2-Hexanone	0.3863	0.3276	12.50	10.60	ug/L	-15	40	0.0500	u
1,3-Dichloropropane	0.7152	0.6157	12.50	10.76	ug/L	-14	30	0.0500	u
Tetrachloroethene	0.3322	0.3629	12.50	13.65	ug/L	9	30	0.0500	u
Dibromochloromethane	0.4762	0.4234	12.50	11.11	ug/L	-11	30	0.0500	u
1,2-Dibromoethane	0.4598	0.4339	12.50	11.80	ug/L	-6	30	0.0500	u
Chlorobenzene	1.1257	1.1145	12.50	12.38	ug/L	-1	30	0.3000	u
1,1,1,2-Tetrachloroethane	0.3934	0.3807	12.50	12.10	ug/L	-3	30	0.0500	u
Ethylbenzene	1.7297	1.7470	12.50	12.62	ug/L	1	20	0.0500	u
m,p-Xylenes	0.6219	0.6668	25.00	26.80	ug/L	7	30	0.0500	u
o-Xylene	0.6595	0.6380	12.50	12.09	ug/L	-3	30	0.0500	u
Styrene	1.1482	1.0611	12.50	11.55	ug/L	-8	30	0.0500	u
Bromoform	0.2889	0.2897	12.50	12.54	ug/L	0	30	0.1000	u
Isopropylbenzene	3.2277	3.3035	12.50	12.79	ug/L	2	30	0.0500	u

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	1.0662	0.9903	12.50	11.61	ug/L	-7	30	0.3000	u
1,2,3-Trichloropropane	0.9949	0.8778	12.50	11.03	ug/L	-12	30	0.0500	u
Propylbenzene	3.8018	3.8973	12.50	12.81	ug/L	3	30	0.0500	u
Bromobenzene	1.0691	0.9673	12.50	11.31	ug/L	-10	30	0.0500	u
1,3,5-Trimethylbenzene	2.5646	2.6086	12.50	12.71	ug/L	2	30	0.0500	u
2-Chlorotoluene	2.8008	2.7034	12.50	12.07	ug/L	-3	30	0.0500	u
4-Chlorotoluene	2.7709	2.5411	12.50	11.46	ug/L	-8	30	0.0500	u
tert-Butylbenzene	2.1269	2.2357	12.50	13.14	ug/L	5	30	0.0500	u
1,2,4-Trimethylbenzene	2.7435	2.7818	12.50	12.67	ug/L	1	30	0.0500	u
sec-Butylbenzene	2.9036	3.2643	12.50	12.60	ug/L	1	30	0.0500	u
para-Isopropyl Toluene	2.4300	2.4648	12.50	12.68	ug/L	1	30	0.0500	u
1,3-Dichlorobenzene	1.7306	1.6936	12.50	12.23	ug/L	-2	30	0.0500	u
1,4-Dichlorobenzene	1.7834	1.6711	12.50	11.71	ug/L	-6	30	0.0500	u
n-Butylbenzene	2.1177	2.3851	12.50	14.08	ug/L	13	30	0.0500	u
1,2-Dichlorobenzene	1.7233	1.7365	12.50	12.60	ug/L	1	30	0.0500	u
1,2-Dibromo-3-Chloropropane	0.1807	0.1557	12.50	10.77	ug/L	-14	30	0.0500	u
1,2,4-Trichlorobenzene	0.8788	0.8356	12.50	11.89	ug/L	-5	30	0.0500	u
Hexachlorobutadiene	0.2885	0.3655	12.50	15.84	ug/L	27	30	0.0500	u
Naphthalene	2.2579	2.2192	12.50	12.29	ug/L	-2	30	0.0500	u
1,2,3-Trichlorobenzene	0.7984	0.8564	12.50	13.41	ug/L	7	30	0.0500	u
Dibromofluoromethane	0.5607	0.5322	50.00	47.46	ug/L	-5	30	0.0500	u
1,2-Dichloroethane-d4	0.3721	0.3948	50.00	53.05	ug/L	6	30	0.0500	u
Toluene-d8	1.2746	1.1885	50.00	46.62	ug/L	-7	30	0.0500	u
Bromofluorobenzene	1.0957	0.9719	50.00	44.35	ug/L	-11	30	0.0500	u

ISTD (ICAL jhd16)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	532069	679355	27.68	10.57	10.58	0.01
1,4-Difluorobenzene	820290	965404	17.69	11.75	11.74	-0.01
Chlorobenzene-d5	660504	841125	27.35	15.75	15.76	0.01
1,4-Dichlorobenzene-d4	306396	439182	43.34	18.47	18.47	0.00

Analyst: MJB Date: 09/12/13 Reviewer: LW Date: 09/13/13

!=warning +=high bias c=CCV u=use v=ICV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 248701 MSVOA Water
EPA 8260B

Inst : MSVOA10 Run Name : A/A IDF : 1.0
Seqnum : 493364743012 File : jia12 Time : 10-SEP-2013 13:00
Cal : 493324690001 Caldate : 13-AUG-2013 Caltype : WATER
Standards: S22949 (50000X), S22921 (2500X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Dibromofluoromethane	0.5607	0.5340	50.00	47.61	ug/L	-5	30	0.0500	
1,2-Dichloroethane-d4	0.3721	0.4201	50.00	56.44	ug/L	13	30	0.0500	
Toluene-d8	1.2746	1.2539	50.00	49.19	ug/L	-2	30	0.0500	
Bromofluorobenzene	1.0957	1.0104	50.00	46.11	ug/L	-8	30	0.0500	

ISTD (ICAL jhd16)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	532069	601258	13.00	10.57	10.59	0.02
1,4-Difluorobenzene	820290	847991	3.38	11.75	11.75	0.01
Chlorobenzene-d5	660504	726228	9.95	15.75	15.75	0.00
1,4-Dichlorobenzene-d4	306396	381475	24.50	18.47	18.47	0.00

LW 09/11/13 : A/A CCV - not used for this sequence and not worked up

Analyst: KKM Date: 09/11/13 Reviewer: LW Date: 09/11/13

Logbooks & Sequences

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 483364778

Date : 09/10/13 Reference : idc20
Sequence : MSVOA09 iia Analyzed : 04/12/13 19:41

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	1676048	11.44	2499222	12.70	1839785	16.96	910468	19.40
		LOWER LIMIT	838024	10.94	1249611	12.20	919893	16.46	455234	18.90
		UPPER LIMIT	3352096	11.94	4998444	13.20	3679570	17.46	1820936	19.90
005	CCV		1605770	11.40	2428455	12.67	2075866	16.93	1154709	19.39
006	CCV/BS	QC706165	1711565	11.41	2488892	12.68	1994455	16.94	1142774	19.39
007	BSD	QC706166	1695032	11.41	2557583	12.69	2129746	16.94	1174751	19.40
009	BLANK	QC706167	1741033	11.42	2509697	12.69	2074372	16.94	1111815	19.40
010	SAMPLE	248751-001	1715202	11.42	2543881	12.69	2099472	16.94	1096138	19.40
011	SAMPLE	248701-011	1666848	11.42	2496204	12.70	2019578	16.95	1076310	19.40
012	SAMPLE	248701-006	1638087	11.42	2500420	12.69	2061926	16.95	1075382	19.40
013	SAMPLE	248701-007	1508471	11.42	2275151	12.69	1835964	16.95	992109	19.40
014	SAMPLE	248701-009	1586894	11.42	2315299	12.69	2006229	16.95	1066259	19.40
015	SAMPLE	248701-010	1592371	11.42	2319932	12.69	1964877	16.95	1047655	19.40
016	SAMPLE	248688-014	1444372	11.42	2179496	12.69	1790954	16.95	946257	19.40
017	SAMPLE	248701-008	1536676	11.42	2287403	12.69	1868388	16.95	1052449	19.40
018	SAMPLE	248569-001	1537288	11.42	2248850	12.69	1912775	16.95	1003054	19.40
019	SAMPLE	248751-002	1518199	11.42	2257149	12.69	1862877	16.95	1019876	19.40
020	SAMPLE	248751-004	1495527	11.42	2257660	12.69	1842972	16.95	993790	19.40
021	MSS	248569-010	1348811	11.42	2038880	12.69	1688354	16.94	907377	19.40
022	SAMPLE	248751-003	1470051	11.42	2230161	12.69	1871220	16.95	982188	19.40
023	MS	QC706222	1469420	11.42	2228619	12.68	1897532	16.95	1074999	19.40
024	MSD	QC706223	1519993	11.42	2222927	12.68	1891498	16.95	1065729	19.40
026	IB		1538535	11.41	2301853	12.68	1849550	16.95	1021175	19.40
027	IB		1516954	11.41	2183083	12.68	1848050	16.94	1001136	19.40

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 483366213

Date : 09/11/13 Reference : idc20
Sequence : MSVOA09 iib Analyzed : 04/12/13 19:41

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	1676048	11.44	2499222	12.70	1839785	16.96	910468	19.40
		LOWER LIMIT	838024	10.94	1249611	12.20	919893	16.46	455234	18.90
		UPPER LIMIT	3352096	11.94	4998444	13.20	3679570	17.46	1820936	19.90
004	CCV		1506508	11.39	2235822	12.66	1897333	16.93	1080254	19.38
005	CCV/BS	QC706354	1613976	11.40	2451909	12.66	2003968	16.93	1135534	19.38
008	CCV		1653859	11.39	2387881	12.66	1929139	16.93	1040199	19.39
009	CCV/BS	QC706354	1595325	11.39	2300788	12.66	1964004	16.93	1077087	19.39
010	BSD	QC706355	1620269	11.40	2381820	12.67	1959656	16.94	1074168	19.39
012	BLANK	QC706356	1588596	11.40	2257003	12.67	1853703	16.94	1023147	19.39
013	SAMPLE	248857-001	1556969	11.40	2307481	12.67	1881544	16.94	1011676	19.40
014	SAMPLE	248701-003	1468999	11.41	2114509	12.68	1713365	16.94	961994	19.39
015	SAMPLE	248758-001	1486601	11.41	2165690	12.68	1789759	16.94	937078	19.39
016	SAMPLE	248758-002	1570014	11.41	2276754	12.67	1888593	16.94	1051312	19.39
017	SAMPLE	248758-003	1427708	11.42	2064483	12.68	1714048	16.94	941453	19.40
018	MSS	248758-004	1514715	11.41	2178133	12.68	1868903	16.94	990123	19.39
019	SAMPLE	248554-016	1500831	11.41	2121265	12.68	1822078	16.94	977206	19.40
020	SAMPLE	248758-006	1360454	11.41	1948902	12.68	1652143	16.94	884048	19.40
021	SAMPLE	248758-007	1463234	11.41	2145200	12.68	1810777	16.94	959567	19.39
022	SAMPLE	248751-006	1466139	11.41	2106707	12.68	1815788	16.94	945400	19.39
023	SAMPLE	248751-007	1445229	11.41	2114660	12.68	1822307	16.94	979814	19.39
024	SAMPLE	248751-003	1304796	11.41	1908601	12.67	1603145	16.94	836427	19.39
025	SAMPLE	248751-004	1352487	11.41	2012746	12.67	1712166	16.94	945398	19.39
026	MS	QC706442	1365024	11.41	2055221	12.67	1726792	16.94	987025	19.39
027	MSD	QC706443	1416314	11.40	2142668	12.68	1779807	16.94	1004058	19.39
029	IB		1430094	11.40	2085531	12.68	1775759	16.94	961699	19.40
030	IB		1399020	11.41	2069377	12.68	1724888	16.94	966321	19.39

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 493364743

Date : 09/10/13 Reference : jhd16
Sequence : MSVOA10 jia Analyzed : 08/13/13 21:28

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	532069	10.57	820290	11.75	660504	15.75	306396	18.47
		LOWER LIMIT	266035	10.07	410145	11.25	330252	15.25	153198	17.97
		UPPER LIMIT	1064138	11.07	1640580	12.25	1321008	16.25	612792	18.97
003	CCV/BS	QC706154	675766	10.59	953718	11.75	812871	15.75	425050	18.47
005	CCV/BS	QC706154	698017	10.58	1002830	11.74	810131	15.76	443237	18.46
006	CCV/BS	QC706154	639822	10.59	922050	11.75	795630	15.76	419709	18.47
008	CCV/BS	QC706154	679355	10.58	965404	11.74	841125	15.76	439182	18.47
009	BSD	QC706155	630606	10.59	897966	11.75	746773	15.76	420187	18.47
010	CCV/BS	QC706156	642191	10.58	939515	11.74	774670	15.76	396539	18.46
011	BSD	QC706157	653869	10.58	915529	11.75	811477	15.76	431989	18.47
012	CCV	A/A	601258	10.59	847991	11.75	726228	15.75	381475	18.47
014	BLANK	QC706158	567408	10.58	806628	11.75	687690	15.76	352634	18.47
015	SAMPLE	248763-001	534911	10.57	771637	11.74	678123	15.76	346267	18.46
016	SAMPLE	248791-001	596082	10.58	847160	11.74	720289	15.76	381120	18.46
017	SAMPLE	248720-003	524172	10.58	725553	11.75	629079	15.76	328302	18.46
018	SAMPLE	248799-001	532248	10.58	769365	11.74	651620	15.76	369594	18.46
019	SAMPLE	248799-002	575325	10.59	796935	11.75	681196	15.75	371065	18.47
020	SAMPLE	248743-001	602357	10.58	858161	11.75	702248	15.76	388267	18.47
021	SAMPLE	248743-002	579176	10.59	841005	11.75	672254	15.76	360222	18.47
022	SAMPLE	248701-001	536738	10.58	793218	11.75	690802	15.76	345519	18.47
023	SAMPLE	248701-002	560249	10.58	812463	11.74	650984	15.76	364770	18.46
024	SAMPLE	248701-003	552256	10.58	744931	11.74	640063	15.76	350311	18.46
025	SAMPLE	248701-004	479821	10.58	672817	11.74	554946	15.75	305964	18.47
026	SAMPLE	248701-005	514573	10.58	751502	11.74	637496	15.75	327187	18.47
027	SAMPLE	248674-001	482976	10.57	693916	11.74	563794	15.76	342403	18.46

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 483147320

Instrument : MSVOA09 Begun : 04/12/13 07:20
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	idc01	X	IB			04/12/13 07:20	1.0	1	
002	idc02	TUN	BFB			04/12/13 08:59	1.0	2	
003	idc03	CCV				04/12/13 09:25	1.0	3 4 5 6 7	cc+ , 80:ETHANOL=73000
004	idc04	BS	QC684032	Water	197328	04/12/13 09:58	1.0	8 9 10 11 7	spk cc+ , 79:ETHANOL=80000
005	idc05	BSD	QC684033	Water	197328	04/12/13 10:31	1.0	8 9 10 11 7	spk cc+ , 79:ETHANOL=190000
008	idc08	IB				04/12/13 11:03	197100	7	
009	idc09	BLANK	QC684034	Water	197328	04/12/13 11:36	1.0	7	cc+
010	idc10	CCV				04/12/13 13:05	1.0	3 4 5 6 7	cc+
011	idc11	TUN	BFB			04/12/13 14:37	1.0	2	
012	idc12	IB				04/12/13 15:05	197200	7	
013	idc13	IB	CALIB			04/12/13 15:40	197200	7	
014	idc14	ICAL				04/12/13 16:14	1.0	5 6 3 4 7	
015	idc15	ICAL				04/12/13 16:49	1.0	5 6 3 4 7	
016	idc16	ICAL				04/12/13 17:23	1.0	5 6 3 4 7	
017	idc17	ICAL				04/12/13 17:58	1.0	5 6 3 4 7	
018	idc18	ICAL				04/12/13 18:32	1.0	5 6 3 4 7	
019	idc19	ICAL				04/12/13 19:06	1.0	5 6 3 4 7	
020	idc20	ICAL				04/12/13 19:41	1.0	5 6 3 4 7	
021	idc21	ICAL				04/12/13 20:15	1.0	5 6 3 4 7	
022	idc22	ICAL				04/12/13 20:50	1.0	5 6 3 4 7	
023	idc23	ICV				04/12/13 21:24	1.0	11 7	
024	idc24	ICV				04/12/13 21:59	1.0	8 9 10 7	
025	idc25	X	IB			04/12/13 22:34	1.0	7	
026	idc26	X	IB			04/12/13 23:08	1.0	7	

MJB 04/17/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 26.

Analyst: MJB Date: 04/17/13 Reviewer: TW Date: 04/17/13

Standards used: 1=S21822 2=S21369 3=S21635 4=S21908 5=S21889 6=S21761 7=S22165 8=S21957 9=S22045 10=S22146 11=S21932

Flags used: +=high bias cc=CCV CCC failure spk=5% spike rule

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 483364778

Instrument : MSVOA09 Begun : 09/10/13 07:38
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	iia01	X	HIGH GASES			09/10/13 07:38	1.0	1	
002	iia02	X	IB			09/10/13 08:12	1.0	1	
003	iia03	TUN	BFB			09/10/13 09:07	1.0	2	
004	iia04	TUN	BFB			09/10/13 09:42	1.0	2	
005	iia05	CCV				09/10/13 10:12	1.0	3 4 5 1 6	
006	iia06	CCV/BS	QC706165	Water	202696	09/10/13 10:46	1.0	7 8 9 10 1	
007	iia07	BSD	QC706166	Water	202696	09/10/13 11:20	1.0	7 8 9 10 1	
008	iia08	X	A/A			09/10/13 11:54	1.0	11 1	
009	iia09	BLANK	QC706167	Water	202696	09/10/13 12:29	1.0	1	
010	iia10	SAMPLE	248751-001	Water	202696	09/10/13 13:03	1.0	1	headspace <= 1 mL
011	iia11	SAMPLE	248701-011	Water	202696	09/10/13 13:37	1.0	1	
012	iia12	SAMPLE	248701-006	Water	202696	09/10/13 14:11	1.0	1	
013	iia13	SAMPLE	248701-007	Water	202696	09/10/13 14:46	1.0	1	
014	iia14	SAMPLE	248701-009	Water	202696	09/10/13 15:20	1.0	1	
015	iia15	SAMPLE	248701-010	Water	202696	09/10/13 15:54	1.0	1	
016	iia16	SAMPLE	248688-014	Water	202696	09/10/13 16:28	1.0	1	
017	iia17	SAMPLE	248701-008	Water	202696	09/10/13 17:02	2.0	1	
018	iia18	SAMPLE	248569-001	Water	202696	09/10/13 17:36	5.0	1	
019	iia19	SAMPLE	248751-002	Water	202696	09/10/13 18:11	4.0	1	
020	iia20	SAMPLE	248751-004	Water	202696	09/10/13 18:45	62.50	1	1:TCE=450
021	iia21	MSS	248569-010	Water	202696	09/10/13 19:19	166.7	1	
022	iia22	SAMPLE	248751-003	Water	202696	09/10/13 19:53	333.3	1	1:TCE=100
023	iia23	MS	QC706222	Water	202696	09/10/13 20:28	166.7	7 8 9 10 1	1:VC=110
024	iia24	MSD	QC706223	Water	202696	09/10/13 21:02	166.7	7 8 9 10 1	1:VC=120
025	iia25	X	HIGH GAS		202696	09/10/13 21:37	1.0	1	
026	iia26	IB				09/10/13 22:11	202700	1	<<t
027	iia27	IB				09/10/13 22:46	202700	1	<<t

MJB 09/11/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 27.

Analyst: MJB Date: 09/11/13 Reviewer: LW Date: 09/11/13

Standards used: 1=S22913 2=S22624 3=S23013 4=S23102 5=S21950 6=S21953 7=S23157 8=S22435 9=S22927 10=S22975 11=S22949

Flags used: <<t=out of clock

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 483366213

Instrument : MSVOA09 Begun : 09/11/13 07:33
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	iib01	X	HIGH GASES			09/11/13 07:33	1.0	1	
002	iib02	X	IB			09/11/13 08:07	1.0	1	
003	iib03	TUN	BFB			09/11/13 08:59	1.0	2	
004	iib04	CCV				09/11/13 09:28	1.0	3 4 5 6 1	cc+
005	iib05	CCV/BS	QC706354	Water	202734	09/11/13 10:02	1.0	7 8 9 10 1	cc+
006	iib06	TUN	BFB			09/11/13 10:43	1.0	2	t
007	iib07	TUN	BFB			09/11/13 11:03	1.0	2	
008	iib08	CCV				09/11/13 11:35	1.0	3 4 5 6 1	cc-
009	iib09	CCV/BS	QC706354	Water	202734	09/11/13 12:09	1.0	7 8 9 10 1	
010	iib10	BSD	QC706355	Water	202734	09/11/13 12:43	1.0	7 8 9 10 1	
011	iib11	X	A/A			09/11/13 13:17	1.0	11 1	
012	iib12	BLANK	QC706356	Water	202734	09/11/13 13:51	1.0	1	
013	iib13	SAMPLE	248857-001	Water	202734	09/11/13 14:25	1.0	1	
014	iib14	SAMPLE	248701-003	Water	202734	09/11/13 15:00	1.0	1	headspace <= 1 mL
015	iib15	SAMPLE	248758-001	Water	202734	09/11/13 15:34	1.0	1	
016	iib16	SAMPLE	248758-002	Water	202734	09/11/13 16:08	1.0	1	
017	iib17	SAMPLE	248758-003	Water	202734	09/11/13 16:42	1.0	1	
018	iib18	MSS	248758-004	Water	202734	09/11/13 17:16	1.0	1	
019	iib19	SAMPLE	248554-016	Water	202734	09/11/13 17:50	1.0	1	
020	iib20	SAMPLE	248758-006	Water	202734	09/11/13 18:24	1.0	1	
021	iib21	SAMPLE	248758-007	Water	202734	09/11/13 18:58	1.0	1	
022	iib22	SAMPLE	248751-006	Water	202734	09/11/13 19:33	3.333	1	
023	iib23	SAMPLE	248751-007	Water	202734	09/11/13 20:07	6.25	1	1:TCE=1600
024	iib24	SAMPLE	248751-003	Water	202734	09/11/13 20:41	1000	1	
025	iib25	SAMPLE	248751-004	Water	202734	09/11/13 21:16	2000	1	
026	iib26	MS	QC706442	Water	202734	09/11/13 21:50	1.0	7 8 9 10 1	
027	iib27	MSD	QC706443	Water	202734	09/11/13 22:25	1.0	7 8 9 10 1	
028	iib28	X	HIGH GAS		202734	09/11/13 22:59	1.0	1	
029	iib29	IB				09/11/13 23:33	202700	1	<<t
030	iib30	IB				09/12/13 00:08	202700	1	<<t

MJB 09/11/13 : changed tune after file 5.

MJB 09/12/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 30.

Analyst: MJB Date: 09/12/13 Reviewer: LW Date: 09/12/13

Standards used: 1=S22913 2=S22624 3=S23013 4=S21953 5=S23102 6=S21950 7=S23157 8=S22435 9=S22927 10=S22975 11=S22949

Flags used: +=high bias -=low bias <<t=out of clock cc=CCV CCC failure t=tune failure

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 493324690

Instrument : MSVOA10 Begun : 08/13/13 11:30
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	jhd01	X	IB			08/13/13 11:30	1.0	1	
002	jhd02	X	IB			08/13/13 12:07	1.0	1	
003	jhd03	X	IB			08/13/13 12:44	1.0	1	
004	jhd04	TUN	BFB			08/13/13 14:07	1.0	2	
005	jhd05	X	IB			08/13/13 14:40	1.0	1	
006	jhd06	X	IB			08/13/13 15:20	1.0	1	
007	jhd07	X	IB			08/13/13 15:56	1.0	1	
008	jhd08	X	IB			08/13/13 16:33	1.0	1	
009	jhd09	IB	CALIB IB			08/13/13 17:10	1.0	1	
010	jhd10	ICAL	.25/.5PPB			08/13/13 17:47	1.0	3 4 5 6 1	
011	jhd11	ICAL	0.5/1PPB			08/13/13 18:24	1.0	3 4 5 6 1	
012	jhd12	ICAL	2PPB			08/13/13 19:01	1.0	3 4 5 6 1	
013	jhd13	ICAL	5PPB			08/13/13 19:37	1.0	3 4 5 6 1	
014	jhd14	ICAL	10PPB			08/13/13 20:14	1.0	3 4 5 6 1	
015	jhd15	ICAL	20PPB			08/13/13 20:51	1.0	3 4 5 6 1	
016	jhd16	ICAL	50PPB			08/13/13 21:28	1.0	3 4 5 6 1	
017	jhd17	ICAL	75PPB			08/13/13 22:05	1.0	3 4 5 6 1	
018	jhd18	ICAL	100PPB			08/13/13 22:41	1.0	3 4 5 6 1	
019	jhd19	ICV	25PPB			08/13/13 23:18	1.0	7 1	
020	jhd20	ICV	40PPB			08/13/13 23:55	1.0	8 1	
021	jhd21	ICV	25PPB			08/14/13 00:32	1.0	9 10 11 1	
022	jhd22	X	IB			08/14/13 01:08	1.0	1	
023	jhd23	X	IB			08/14/13 01:45	1.0	1	
024	jhd24	X	IB			08/14/13 02:22	1.0	1	

BO 08/14/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 24.

Analyst: BO Date: 08/14/13 Reviewer: SJD Date: 08/14/13

Standards used: 1=S22921 2=S22624 3=S21953 4=S23013 5=S22755 6=S21857 7=S22435 8=S17234 9=S22975 10=S22927 11=S23020

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 493364743

Instrument : MSVOA10 Begun : 09/10/13 07:03
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	jia01	X	IB			09/10/13 07:03	1.0	1	
002	jia02	TUN	BFB			09/10/13 07:30	1.0	2	
003	jia03	CCV/BS	QC706154	Water	202693	09/10/13 07:55	1.0	3 4 5 6 1	cc+
004	jia04	TUN	BFB			09/10/13 08:23	1.0	2	
005	jia05	CCV/BS	QC706154	Water	202693	09/10/13 08:48	1.0	3 4 5 6 1	cc+
006	jia06	CCV/BS	QC706154	Water	202693	09/10/13 09:34	1.0	3 4 5 6 1	cc+
007	jia07	TUN	BFB			09/10/13 10:03	1.0	2	
008	jia08	CCV/BS	QC706154	Water	202693	09/10/13 10:28	1.0	3 4 5 6 1	
009	jia09	BSD	QC706155	Water	202693	09/10/13 11:09	1.0	3 4 5 6 1	
010	jia10	CCV/BS	QC706156	Water	202693	09/10/13 11:46	1.0	7 1	
011	jia11	BSD	QC706157	Water	202693	09/10/13 12:23	1.0	7 1	
012	jia12	CCV	A/A			09/10/13 13:00	1.0	8 1	
013	jia13	X	IB			09/10/13 13:37	1.0	1	
014	jia14	BLANK	QC706158	Water	202693	09/10/13 14:14	1.0	1	
015	jia15	SAMPLE	248763-001	Water	202693	09/10/13 14:51	1.0	1	headspace <= 1 mL
016	jia16	SAMPLE	248791-001	Water	202693	09/10/13 15:28	1.0	1	
017	jia17	SAMPLE	248720-003	Water	202693	09/10/13 16:05	1.0	1	
018	jia18	SAMPLE	248799-001	Water	202693	09/10/13 16:41	1.0	1	
019	jia19	SAMPLE	248799-002	Water	202693	09/10/13 17:18	1.0	1	
020	jia20	SAMPLE	248743-001	Water	202693	09/10/13 17:55	1.0	1	
021	jia21	SAMPLE	248743-002	Water	202693	09/10/13 18:32	1.0	1	
022	jia22	SAMPLE	248701-001	Water	202693	09/10/13 19:09	1.0	1	
023	jia23	SAMPLE	248701-002	Water	202693	09/10/13 19:46	1.0	1	
024	jia24	SAMPLE	248701-003	Water	202693	09/10/13 20:24	1.0	1	
025	jia25	SAMPLE	248701-004	Water	202693	09/10/13 21:01	1.0	1	
026	jia26	SAMPLE	248701-005	Water	202693	09/10/13 21:39	1.0	1	
027	jia27	SAMPLE	248674-001	Water	202693	09/10/13 22:16	10.0	1	<<t
028	jia28	X	IB			09/10/13 22:53	1.0	1	
029	jia29	X	IB			09/10/13 23:30	1.0	1	

MCT 09/10/13 : Adjusted tune : file jia04.

MCT 09/10/13 : Adjusted tune : file jia07.

BO 09/11/13 : Matrix spikes were not performed for this analysis in batch 202693 due to insufficient sample amount.

BO 09/11/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 29.

Analyst: BO Date: 09/11/13 Reviewer: LW Date: 09/11/13

Standards used: 1=S22921 2=S22624 3=S23157 4=S22975 5=S22435 6=S22927 7=S22314 8=S22949

Flags used: +=high bias <<t=out of clock cc=CCV CCC failure

Page 1 of 1

MSVOA WATER Prepsheet Curtis & Tompkins, Ltd.

Date: 9/10/13 **Batch #:** 202 693

	Sample ID	Vial	pH <2	pH (if >2)	HS?	Dil'n flask	MS#	RR	DF	Comments	20 % ccv	hold	due	init date
1	208674_1	C	✓			1	10	2	10X	1 & 2 RUN = NOT MATCHED_		9/17	9/10	LE 9/10
2	8720_3	B	✓					1	1X	GASOLINE C.O		9/19	9/11	
3	8763_1	↓	✓		Bubbles			1	1X	TBA & BROMOMETHANE CCV (−) $			9/11	
4	8791_1	C	✓					1	1X	↓ ↓			↓	
5	8799_1	A	✓						1X					
6	-2	↓	✓						↓					
7	8743_1	B	✓						1X	$				
8	-2	A	✓						↓	↓				
9	8701_1		✓						1X	III				
10	-2		✓											
11	-3		✓											
12	-4		✓											
13	-5	↓	✓						↓	↓				
14														
15														
16														
17														
18														
19														
20														
21														
22														

MSVOA WATER Prepsheet Curtis & Tompkins, Ltd.

Date: 9/10/13 **Batch #:** 232696

Sample ID	Vial	pH <2	pH (if >2)	HS?	Dil'n flask	MS#	RR	DF	Comments	20 % ccv	hold	due	init date
248569-001	C	✓			6	9	2	5x	TCE >LR; Tol CC		9/12	9/6	NB
↓ -010	F	✓			4		2	167x	Runs Not Matching; Seem to have lost early elutes; MSS		↓	↓	
248688-014	A	✓						1x	Shipped and not punctured; In Fridge		9/17	9/10	
248701-006	A	✓						1x					
-007		✓						↓					
-008		✓			9			2x					
-009		✓						1x					
-010		✓											
-011	↓	✓						↓	TB				
248569-010 MS	F	✓						167x					
↓ MSD	↓	✓						↓					
248751-001	A	✓		<1ml				1x	TB				
-002		✓			10			4x					
-003		✓			8			333x					
↓ -004	↓	✓			2			62.5x					

MSVOA WATER Prepsheet Curtis & Tompkins, Ltd.

Date: 9/11/13 **Batch #:** 202734

Sample ID	Vial	pH <2	pH (if >2)	HS?	Dil'n flask	MS#	RR	DF	Comments	20 % ccv	hold	due	init date
248857-001	B	✓				9		1x					HB
248701-003	B	✓		4ml			1	1x	F113 Curve ⊕				
248751-004	C	✓			6		1	2000x	TCE > LR II				
↓ -003	C	✓			4		1	1000x	↓				
248751-006	B	✓			9			3.3x					
↓ -007	B	✓			5			6.25x					
248758-001	A	✓						1x					
-002		✓											
-003		✓											
-004		✓											
-MS	BCD												
-MSD													
-005	A	—							put BF3 on alist				
-006		✓											
-007		✓											
248554.16	E	✓					1	1	Rx for Chloromt; BrMt; Acetone; Hex Bart 9/11				
↓ 18	D	—		LV				1	TB				

Laboratory Job Number 248701

ANALYTICAL REPORT

Metals

Matrix: Water

Curtis & Tompkins, Ltd.

Chromium

Lab #:	248701	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Sampled:	09/04/13
Matrix:	Water	Received:	09/05/13
Units:	ug/L	Prepared:	09/08/13
Diln Fac:	1.000	Analyzed:	09/13/13
Batch#:	202629		

Field ID	Type	Lab ID	Result	RL	MDL
AST-INF	SAMPLE	248701-001	67	5.0	0.63
AST-EFF	SAMPLE	248701-002	69	5.0	0.63
GAC-02 INF	SAMPLE	248701-003	8.8	5.0	0.63
GAC-02 EFF	SAMPLE	248701-004	9.9	5.0	0.63
E-07R	SAMPLE	248701-005	35	5.0	0.63
E-12	SAMPLE	248701-008	32	5.0	0.63
E-17	SAMPLE	248701-009	140	5.0	0.63
E-117	SAMPLE	248701-010	150	5.0	0.63
	BLANK	QC705877	ND	5.0	0.63

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Chromium

Lab #:	248701	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Batch#:	202629
Field ID:	ZZZZZZZZZZ	Sampled:	08/27/13
MSS Lab ID:	248508-021	Received:	08/29/13
Matrix:	Water	Prepared:	09/08/13
Units:	ug/L	Analyzed:	09/13/13
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC705878		200.0	217.3	109	80-120		
BSD	QC705879		200.0	218.2	109	80-120	0	20
MS	QC705880	<0.6258	200.0	224.6	112	80-120		
MSD	QC705881		200.0	217.2	109	80-120	3	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Chromium

Lab #:	248701	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	ZZZZZZZZZZ	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	202629
MSS Lab ID:	248508-021	Sampled:	08/27/13
Lab ID:	QC705882	Received:	08/29/13
Matrix:	Water	Analyzed:	09/13/13

MSS Result	MSS RL	Result	RL	% Diff	Lim
ND	5.000	ND	25.00	NC	10

NC= Not Calculated
ND= Not Detected at or above MDL
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Chromium

Lab #:	248701	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
Type:	Post Digest Spike	Batch#:	202629
MSS Lab ID:	248508-021	Sampled:	08/27/13
Lab ID:	QC705883	Received:	08/29/13
Matrix:	Water	Analyzed:	09/13/13

MSS Result	Spiked	Result	%REC	Limits
<0.6258	200.0	214.3	107	75-125

REPORTING SUMMARY FOR 248701 METALS Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CR
248701-001	MET09	09/13/13 22:25	1.0	+
248701-002	MET09	09/13/13 22:33	1.0	+
248701-003	MET09	09/13/13 22:41	1.0	+
248701-004	MET09	09/13/13 22:49	1.0	+
248701-005	MET09	09/13/13 22:55	1.0	+
248701-008	MET09	09/13/13 23:03	1.0	+
248701-009	MET09	09/13/13 23:26	1.0	+
248701-010	MET09	09/13/13 23:34	1.0	+
QC705877	MET09	09/13/13 08:22	1.0	+
QC705877	MET08	09/13/13 09:18	1.0	
QC705878	MET09	09/13/13 08:28	1.0	+
QC705878	MET08	09/13/13 09:23	1.0	
QC705879	MET09	09/13/13 08:32	1.0	+
QC705879	MET08	09/13/13 09:27	1.0	
QC705880	MET09	09/13/13 08:41	1.0	+
QC705880	MET08	09/13/13 09:36	1.0	
QC705881	MET09	09/13/13 08:45	1.0	+
QC705881	MET08	09/13/13 09:41	1.0	
QC705882	MET08	09/13/13 11:08	5.0	+
QC705883	MET08	09/13/13 11:12	1.0	+

ICP Data

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 93369033

Instrument : MET09 Begun : 09/13/13 06:33
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	met09_sn	ICALBLK				09/13/13 06:33	1.0		
002	met09_sn	ICAL	CRI5.1			09/13/13 06:38	1.0	1	
003	met09_sn	ICAL	CS100			09/13/13 06:43	1.0	2	
004	met09_sn	ICAL	CS1K			09/13/13 06:48	1.0	3	
005	met09_sn	ICAL	CS10K			09/13/13 06:52	1.0	4	
006	met09_sn	ICAL	CS100K			09/13/13 06:58	1.0	5	
007	met09_sn	XICV				09/13/13 07:04	1.0	6	
008	met09_sn	ICV				09/13/13 07:10	1.0	6	
009	met09_sn	ICB				09/13/13 07:16	1.0		
010	met09_sn	ICSA				09/13/13 07:21	1.0	7	10:MG=520000
011	met09_sn	ICSAB				09/13/13 07:53	1.0	8	5:AL=520000
012	met09_sn	XCRI				09/13/13 08:01	1.0	9	
013	met09_sn	CRI				09/13/13 08:05	1.0	9	
014	met09_sn	CRI				09/13/13 08:12	1.0	10	
015	met09_sn	BLANK	QC705877	Water	202629	09/13/13 08:22	1.0		
016	met09_sn	BS	QC705878	Water	202629	09/13/13 08:28	1.0		
017	met09_sn	BSD	QC705879	Water	202629	09/13/13 08:32	1.0		
018	met09_sn	MSS	248508-021	Water	202629	09/13/13 08:36	1.0		
019	met09_sn	MS	QC705880	Water	202629	09/13/13 08:41	1.0		
020	met09_sn	MSD	QC705881	Water	202629	09/13/13 08:45	1.0		
021	met09_sn	SAMPLE	248743-001	Water	202629	09/13/13 08:50	1.0		3:MG=690000
022	met09_sn	CCV				09/13/13 08:58	1.0	11	
023	met09_sn	XCCB				09/13/13 09:04	1.0		
024	met09_sn	CCB				09/13/13 09:08	1.0		
025	met09_sn	ICSAB				09/13/13 09:13	1.0	8	5:MG=540000

NT 09/13/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 25.

Standards used: 1=S22714 2=S22716 3=S22715 4=S22717 5=S22718 6=S22721 7=S22719 8=S22720 9=S23205 10=S22723 11=S22722

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 93369033

Date : 09/13/13 Reference : met09_sn
Sequence : MET09 09/13/13 Analyzed : 09/13/13 06:38

#	Type	Sample ID	Y A
		ICAL STD	7317548
		LOWER LIMIT	2195264
		UPPER LIMIT	14635096
009	ICB		7186572
010	ICSA		5989280
011	ICSAB		6045282
015	BLANK	QC705877	7267980
016	BS	QC705878	6751047
017	BSD	QC705879	6734623
019	MS	QC705880	6777972
020	MSD	QC705881	6688578
021	SAMPLE	248743-001	4806802
022	CCV		6835995
024	CCB		7471684
025	ICSAB		6077732

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 248701 METALS Water: EPA 6010B

Inst : MET09 Reviewer : ---
Calnum : 93369033001 Date : 13-SEP-2013 06:33
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	met09_sn	93369033002	CRI5.1	13-SEP-2013 06:38	S22714
L2	met09_sn	93369033003	CS100	13-SEP-2013 06:43	S22716
L3	met09_sn	93369033004	CS1K	13-SEP-2013 06:48	S22715
L4	met09_sn	93369033005	CS10K	13-SEP-2013 06:52	S22717
L5	met09_sn	93369033006	CS100K	13-SEP-2013 06:58	S22718

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Chromium	A	203.08	210.09	208.86	204.16		LOR0	0.00000	0.00490		206.55	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Chromium	A	5.0000	-1	100.00	3	1000.0	2	10000	0		

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 248701 METALS Water
EPA 6010B

Inst : MET09
Calnum : 93369033001 Cal Date : 13-SEP-2013

ICV 93369033008 (13-SEP-2013) stds: S22721

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Chromium	A	5000	5020	ug/L	0	10	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 248701 METALS Water
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93369033009 File : met09_sn Time : 13-SEP-2013 07:16
Cal : 93369033001 Caldate : 13-SEP-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.252	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	7317548	7186572	-1.79

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR 248701 METALS Water
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93369033010 File : met09_sn Time : 13-SEP-2013 07:21
Cal : 93369033001 Caldate : 13-SEP-2013
Standards: S22719

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19350	ug/L	97
Copper	A	20000	20900	ug/L	105
Manganese	A	20000	18480	ug/L	92
Nickel	A	20000	17930	ug/L	90
Vanadium	A	20000	19950	ug/L	100
Aluminum	R	500000	524400	ug/L	105
Calcium	R	500000	498300	ug/L	100
Iron	R	200000	196400	ug/L	98
Magnesium	R	500000	524900	ug/L	105
Titanium	R	20000	21310	ug/L	107

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	7317548	5989280	-18.15

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 248701 METALS Water
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93369033011 File : met09_sn Time : 13-SEP-2013 07:53
Cal : 93369033001 Caldate : 13-SEP-2013
Standards: S22720

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	501.9	ug/L	0	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	7317548	6045282	-17.39

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 248701 METALS Water
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93369033022 File : met09_sn Time : 13-SEP-2013 08:58
Cal : 93369033001 Caldate : 13-SEP-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	206.55	220.01	5000	5387	ug/L	8	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	7317548	6835995	-6.58

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 248701 METALS Water
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93369033024 File : met09_sn Time : 13-SEP-2013 09:08
Cal : 93369033001 Caldate : 13-SEP-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.252	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	7317548	7471684	2.11

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 248701 METALS Water
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93369033025 File : met09_sn Time : 13-SEP-2013 09:13
Cal : 93369033001 Caldate : 13-SEP-2013
Standards: S22720

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	532.1	ug/L	6	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	7317548	6077732	-16.94

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83369039

Instrument : MET08 Begun : 09/13/13 06:39
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	met08_sn_6010	ICALBLK				09/13/13 06:39	1.0		
002	met08_sn_6010	ICAL	CRI5.1			09/13/13 06:44	1.0	1	
003	met08_sn_6010	ICAL	CS100			09/13/13 06:49	1.0	2	
004	met08_sn_6010	ICAL	CS1K			09/13/13 06:53	1.0	3	
005	met08_sn_6010	ICAL	CS10K			09/13/13 06:57	1.0	4	
006	met08_sn_6010	ICAL	CS100K			09/13/13 07:02	1.0	5	
007	met08_sn_6010	ICV				09/13/13 07:08	1.0	6	
008	met08_sn_6010	ICB				09/13/13 07:13	1.0		
009	met08_sn_6010	ICSA				09/13/13 07:18	1.0	7	10:AL=500000
010	met08_sn_6010	ICSAB				09/13/13 07:48	1.0	8	5:AL=500000
011	met08_sn_6010	XCRI				09/13/13 07:55	1.0	9	
012	met08_sn_6010	CRI				09/13/13 08:01	1.0	9	
013	met08_sn_6010	CRI				09/13/13 08:05	1.0	10	
014	met08_sn_6010	BLANK	QC706795	Water	202831	09/13/13 08:12	1.0		
015	met08_sn_6010	BS	QC706796	Water	202831	09/13/13 08:17	1.0		
016	met08_sn_6010	BSD	QC706797	Water	202831	09/13/13 08:21	1.0		
017	met08_sn_6010	MSS	248832-009	Water	202831	09/13/13 08:25	1.0		
018	met08_sn_6010	MS	QC706798	Water	202831	09/13/13 08:29	1.0		1:NA=120000
019	met08_sn_6010	MSD	QC706799	Water	202831	09/13/13 08:34	1.0		1:NA=120000
020	met08_sn_6010	SAMPLE	248857-001	Water	202831	09/13/13 08:38	1.0		2:K=160000
021	met08_sn_6010	SAMPLE	248951-001	Water	202831	09/13/13 08:44	1.0		1:NA=240000
022	met08_sn_6010	SAMPLE	248951-002	Water	202831	09/13/13 08:48	1.0		1:MG=150000
023	met08_sn_6010	CCV				09/13/13 08:55	1.0	11	
024	met08_sn_6010	CCB				09/13/13 09:00	1.0		
025	met08_sn_6010	ICSAB				09/13/13 09:05	1.0	8	5:AL=500000
026	met08_sn_6010	BLANK	QC705877	Water	202629	09/13/13 09:18	1.0		
027	met08_sn_6010	BS	QC705878	Water	202629	09/13/13 09:23	1.0		
028	met08_sn_6010	BSD	QC705879	Water	202629	09/13/13 09:27	1.0		
029	met08_sn_6010	MSS	248508-021	Water	202629	09/13/13 09:31	1.0		
030	met08_sn_6010	MS	QC705880	Water	202629	09/13/13 09:36	1.0		
031	met08_sn_6010	MSD	QC705881	Water	202629	09/13/13 09:41	1.0		
032	met08_sn_6010	SAMPLE	248743-001	Water	202629	09/13/13 09:45	1.0		3:MG=650000
033	met08_sn_6010	CCV				09/13/13 09:52	1.0	11	
034	met08_sn_6010	XCCB				09/13/13 09:58	1.0		
035	met08_sn_6010	CCB				09/13/13 10:01	1.0		
036	met08_sn_6010	ICSAB				09/13/13 10:06	1.0	8	5:AL=490000
037	met08_sn_6010	BLANK	QC706691	Filtrate	202809	09/13/13 10:12	1.0		
038	met08_sn_6010	MSS	248577-003	Filtrate	202809	09/13/13 10:17	1.0		1:MG=230000
039	met08_sn_6010	MS	QC706694	Filtrate	202809	09/13/13 10:23	1.0		
040	met08_sn_6010	MSD	QC706695	Filtrate	202809	09/13/13 10:29	1.0		
041	met08_sn_6010	SAMPLE	248577-019	Filtrate	202809	09/13/13 10:36	1.0		3:NA=460000
042	met08_sn_6010	SAMPLE	248577-020	Filtrate	202809	09/13/13 10:40	100.0		
043	met08_sn_6010	CCV				09/13/13 10:44	1.0	11	
044	met08_sn_6010	CCB				09/13/13 10:50	1.0		
045	met08_sn_6010	ICSAB				09/13/13 10:55	1.0	8	5:AL=490000
046	met08_sn_6010	SAMPLE	248849-001	Soil	202729	09/13/13 11:02	1.0		2:FE=380000
047	met08_sn_6010	SAMPLE	248849-001	Soil	202729	09/13/13 11:05	1.0		2:FE=370000
048	met08_sn_6010	SER	QC705882	Water	202629	09/13/13 11:08	5.0		
049	met08_sn_6010	PDS	QC705883	Water	202629	09/13/13 11:12	1.0	12 13	
050	met08_sn_6010	ICSAB				09/13/13 11:17	1.0	8	5:AL=500000
051	met08_sn_6010	CCV				09/13/13 11:22	1.0	11	
052	met08_sn_6010	CCB				09/13/13 11:27	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83369039

Instrument : MET08 Begun : 09/13/13 06:39
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
053	met08_sn_6010	SAMPLE	248594-020	Soil	202729	09/13/13 11:33	1.0		4:CA=3400000
054	met08_sn_6010	SAMPLE	248594-021	Soil	202729	09/13/13 11:38	1.0		6:CA=3900000
055	met08_sn_6010	SAMPLE	248676-001	Soil	202729	09/13/13 11:44	1.0		1:FE=170000
056	met08_sn_6010	SAMPLE	248676-002	Soil	202729	09/13/13 11:47	1.0		
057	met08_sn_6010	SAMPLE	248676-003	Soil	202729	09/13/13 11:51	1.0		2:FE=280000
058	met08_sn_6010	SAMPLE	248676-004	Soil	202729	09/13/13 11:54	1.0		4:FE=390000
059	met08_sn_6010	SAMPLE	248676-005	Soil	202729	09/13/13 11:57	1.0		3:FE=330000
060	met08_sn_6010	SAMPLE	248676-006	Soil	202729	09/13/13 12:01	1.0		4:FE=430000
061	met08_sn_6010	SAMPLE	248676-007	Soil	202729	09/13/13 12:04	1.0		3:FE=350000
062	met08_sn_6010	SAMPLE	248676-008	Soil	202729	09/13/13 12:07	1.0		3:FE=390000
063	met08_sn_6010	CCV				09/13/13 12:11	1.0	11	
064	met08_sn_6010	CCB				09/13/13 12:16	1.0		
065	met08_sn_6010	SAMPLE	248676-009	Soil	202729	09/13/13 12:21	1.0		3:FE=370000
066	met08_sn_6010	SAMPLE	248676-010	Soil	202729	09/13/13 12:25	1.0		4:FE=410000
067	met08_sn_6010	SAMPLE	248594-020	Soil	202729	09/13/13 12:28	1.0		4:CA=3500000
068	met08_sn_6010	SAMPLE	248594-021	Soil	202729	09/13/13 12:33	1.0		6:CA=4000000
069	met08_sn_6010	CCV				09/13/13 12:39	1.0	11	
070	met08_sn_6010	CCB				09/13/13 12:44	1.0		
071	met08_sn_6010	ICSAB				09/13/13 12:50	1.0	8	5:AL=510000
072	met08_sn_6010	SAMPLE	248594-021	Soil	202729	09/13/13 13:33	100.0		
073	met08_sn_6010	SAMPLE	248676-003	Soil	202729	09/13/13 13:38	100.0		
074	met08_sn_6010	SAMPLE	248676-004	Soil	202729	09/13/13 13:42	100.0		
075	met08_sn_6010	SAMPLE	248676-005	Soil	202729	09/13/13 13:46	100.0		
076	met08_sn_6010	SAMPLE	248676-006	Soil	202729	09/13/13 13:50	100.0		
077	met08_sn_6010	SAMPLE	248676-007	Soil	202729	09/13/13 13:54	100.0		
078	met08_sn_6010	SAMPLE	248676-008	Soil	202729	09/13/13 13:58	100.0		
079	met08_sn_6010	SAMPLE	248676-009	Soil	202729	09/13/13 14:03	100.0		
080	met08_sn_6010	SAMPLE	248676-010	Soil	202729	09/13/13 14:07	100.0		
081	met08_sn_6010	CCV				09/13/13 14:11	1.0	11	
082	met08_sn_6010	CCB				09/13/13 14:16	1.0		
083	met08_sn_6010	ICSAB				09/13/13 14:22	1.0	8	5:AL=510000
084	met08_sn_6010	BLANK	QC706942	WET Leachate	202867	09/13/13 14:56	10.0		1:NA=190000
085	met08_sn_6010	BS	QC706943	WET Leachate	202867	09/13/13 15:01	1.0		
086	met08_sn_6010	BSD	QC706944	WET Leachate	202867	09/13/13 15:05	1.0		
087	met08_sn_6010	MSS	248885-001	WET Leachate	202867	09/13/13 15:09	10.0		1:NA=170000
088	met08_sn_6010	MS	QC706945	WET Leachate	202867	09/13/13 15:13	10.0		
089	met08_sn_6010	MSD	QC706946	WET Leachate	202867	09/13/13 15:18	10.0		
090	met08_sn_6010	SAMPLE	248676-009	Soil	202729	09/13/13 15:22	100.0		
091	met08_sn_6010	SAMPLE	248676-010	Soil	202729	09/13/13 15:26	100.0		
092	met08_sn_6010	CCV				09/13/13 15:30	1.0	11	
093	met08_sn_6010	CCB				09/13/13 15:35	1.0		
094	met08_sn_6010	ICSAB				09/13/13 15:41	1.0	8	5:AL=500000
095	met08_sn_6010	BLANK	QC705568	Soil	202559	09/13/13 16:38	1.0		
096	met08_sn_6010	BS	QC705569	Soil	202559	09/13/13 16:43	1.0		
097	met08_sn_6010	BSD	QC705570	Soil	202559	09/13/13 16:48	1.0		
098	met08_sn_6010	MSS	248460-008	Soil	202559	09/13/13 16:52	1.0		3:FE=870000
099	met08_sn_6010	MS	QC705571	Soil	202559	09/13/13 16:57	1.0		
100	met08_sn_6010	MSD	QC705572	Soil	202559	09/13/13 17:02	1.0		
101	met08_sn_6010	SER	QC705573	Soil	202559	09/13/13 17:08	5.0		
102	met08_sn_6010	PDS	QC705574	Soil	202559	09/13/13 17:11	1.0	14 15	1:FE=870000
103	met08_sn_6010	CCV				09/13/13 17:16	1.0	11	
104	met08_sn_6010	CCB				09/13/13 17:22	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83369039

Instrument : MET08 Begun : 09/13/13 06:39
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
105	met08_sn_6010	X	248670-001			09/13/13 17:27	1.0		
106	met08_sn_6010	X	248681-001			09/13/13 17:32	1.0		
107	met08_sn_6010	BLANK	QC704732	Soil	202375	09/13/13 17:38	1.0		
108	met08_sn_6010	MSS	248378-002	Soil	202375	09/13/13 17:42	1.0		3:FE=140000
109	met08_sn_6010	MS	QC704735	Soil	202375	09/13/13 17:48	1.0		3:FE=180000
110	met08_sn_6010	MSD	QC704736	Soil	202375	09/13/13 17:54	1.0		3:FE=180000
111	met08_sn_6010	SER	QC704737	Soil	202375	09/13/13 18:00	5.0		
112	met08_sn_6010	PDS	QC704738	Soil	202375	09/13/13 18:04	1.0	14 15	
113	met08_sn_6010	MSS	248378-002	Soil	202375	09/13/13 18:11	100.0		
114	met08_sn_6010	SER	QC704737	Soil	202375	09/13/13 18:15	500.0		
115	met08_sn_6010	ICSAB				09/13/13 18:19	1.0	8	5:AL=550000
116	met08_sn_6010	CCV				09/13/13 18:24	1.0	11	
117	met08_sn_6010	CCB				09/13/13 18:30	1.0		
118	met08_sn_6010	PDS	QC704738	Soil	202375	09/13/13 18:35	100.0	14 15	
119	met08_sn_6010	SAMPLE	248378-004	Soil	202375	09/13/13 18:39	1.0		2:FE=230000
120	met08_sn_6010	SAMPLE	248378-006	Soil	202375	09/13/13 18:44	1.0		6:MG=3500000
121	met08_sn_6010	SAMPLE	248378-008	Soil	202375	09/13/13 18:48	1.0		6:FE=840000
122	met08_sn_6010	SAMPLE	248378-008	Soil	202375	09/13/13 18:53	100.0		
123	met08_sn_6010	CCV				09/13/13 18:57	1.0	11	
124	met08_sn_6010	CCB				09/13/13 19:03	1.0		
125	met08_sn_6010	ICSAB				09/13/13 19:08	1.0	8	5:AL=560000

NT 09/13/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 45.

CRT 09/13/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 46 through 94.

Standards used: 1=S22714 2=S22716 3=S22715 4=S22717 5=S22718 6=S22721 7=S22719 8=S22720 9=S23205 10=S22723 11=S22722 12=S21652 13=S21653 14=S22594 15=S22595

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83369039

Date : 09/13/13 Reference : met08_sn_6010
Sequence : MET08 09/13/13 Analyzed : 09/13/13 06:44

#	Type	Sample ID	Y A
		ICAL STD	2723598
		LOWER LIMIT	817079
		UPPER LIMIT	5447196
008	ICB		2821871
009	ICSA		2374107
010	ICSAB		2351079
014	BLANK	QC706795	2874902
015	BS	QC706796	2734415
016	BSD	QC706797	2745606
017	MSS	248832-009	2578799
018	MS	QC706798	2636867
019	MSD	QC706799	2628633
020	SAMPLE	248857-001	2407661
021	SAMPLE	248951-001	2578557
022	SAMPLE	248951-002	2326615
023	CCV		2608439
024	CCB		2736501
025	ICSAB		2302540
026	BLANK	QC705877	2779871
027	BS	QC705878	2717457
028	BSD	QC705879	2685592
030	MS	QC705880	2671320
031	MSD	QC705881	2678528
032	SAMPLE	248743-001	1961969
033	CCV		2698372
035	CCB		2789065
036	ICSAB		2335219
037	BLANK	QC706691	2862695
038	MSS	248577-003	2382869
039	MS	QC706694	2508200
040	MSD	QC706695	2371765
041	SAMPLE	248577-019	2450017
042	SAMPLE	248577-020	2734110
043	CCV		2613774
044	CCB		2722677
045	ICSAB		2266068
046	SAMPLE	248849-001	2778893
047	SAMPLE	248849-001	2703949
048	SER	QC705882	2832640
049	PDS	QC705883	2693037
050	ICSAB		2269485
051	CCV		2620061
052	CCB		2782630
053	SAMPLE	248594-020	2118029
054	SAMPLE	248594-021	2123012
063	CCV		2639566
064	CCB		2708388
067	SAMPLE	248594-020	2075902
068	SAMPLE	248594-021	2087350
069	CCV		2579127
070	CCB		2704686

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83369039

Date : 09/13/13 Reference : met08_sn_6010
Sequence : MET08 09/13/13 Analyzed : 09/13/13 06:44

#	Type	Sample ID	Y A
071	ICSAB		2308513
072	SAMPLE	248594-021	2657444
081	CCV		2655797
082	CCB		2725158
083	ICSAB		2237041
084	BLANK	QC706942	2583677
085	BS	QC706943	2748383
086	BSD	QC706944	2733776
087	MSS	248885-001	2560736
088	MS	QC706945	2586582
089	MSD	QC706946	2570469
092	CCV		2618854
093	CCB		2745440
094	ICSAB		2256842
095	BLANK	QC705568	2730582
096	BS	QC705569	2638260
097	BSD	QC705570	2624785
099	MS	QC705571	2813358
100	MSD	QC705572	2810776
101	SER	QC705573	2635061
102	PDS	QC705574	2877689
103	CCV		2577865
104	CCB		2663025
107	BLANK	QC704732	2653105
109	MS	QC704735	2559162
110	MSD	QC704736	2535579
111	SER	QC704737	2654436
112	PDS	QC704738	2569612
114	SER	QC704737	2624441
115	ICSAB		2153320
116	CCV		2512033
117	CCB		2619482
118	PDS	QC704738	2502721
123	CCV		2489752
124	CCB		2586692
125	ICSAB		2178401

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 248701 METALS Water: EPA 6010B

Inst : MET08 Reviewer : ---
Calnum : 83369039001 Date : 13-SEP-2013 06:39
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	met08_sn_6010	83369039002	CRI5.1	13-SEP-2013 06:44	S22714
L2	met08_sn_6010	83369039003	CS100	13-SEP-2013 06:49	S22716
L3	met08_sn_6010	83369039004	CS1K	13-SEP-2013 06:53	S22715
L4	met08_sn_6010	83369039005	CS10K	13-SEP-2013 06:57	S22717
L5	met08_sn_6010	83369039006	CS100K	13-SEP-2013 07:02	S22718

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Chromium	A	101.24	96.715	97.267	95.789		LOR0	0.00000	0.01044		97.753	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Chromium	A	5.0000	6	100.00	1	1000.0	2	10000	0		

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 248701 METALS Water
EPA 6010B

Inst : MET08
Calnum : 83369039001 Cal Date : 13-SEP-2013

ICV 83369039007 (13-SEP-2013) stds: S22721

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Chromium	A	5000	5085	ug/L	2	10	

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR 248701 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83369039009 File : met08_sn_6010 Time : 13-SEP-2013 07:18
Cal : 83369039001 Caldate : 13-SEP-2013
Standards: S22719

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19370	ug/L	97
Copper	A	20000	20150	ug/L	101
Manganese	A	20000	18520	ug/L	93
Nickel	A	20000	18170	ug/L	91
Vanadium	A	20000	19810	ug/L	99
Aluminum	R	500000	504000	ug/L	101
Calcium	R	500000	487600	ug/L	98
Iron	R	200000	191500	ug/L	96
Magnesium	R	500000	499400	ug/L	100
Titanium	R	20000	21260	ug/L	106

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2723598	2374107	-12.83

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 248701 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83369039043 File : met08_sn_6010 Time : 13-SEP-2013 10:44
Cal : 83369039001 Caldate : 13-SEP-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	97.753	99.408	5000	5188	ug/L	4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2723598	2613774	-4.03

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 248701 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83369039044 File : met08_sn_6010 Time : 13-SEP-2013 10:50
Cal : 83369039001 Caldate : 13-SEP-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2723598	2722677	-0.03

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 248701 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83369039045 File : met08_sn_6010 Time : 13-SEP-2013 10:55
Cal : 83369039001 Caldate : 13-SEP-2013
Standards: S22720

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	523.7	ug/L	5	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2723598	2266068	-16.80

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 248701 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83369039050 File : met08_sn_6010 Time : 13-SEP-2013 11:17
Cal : 83369039001 Caldate : 13-SEP-2013
Standards: S22720

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	525.4	ug/L	5	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2723598	2269485	-16.67

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 248701 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83369039051 File : met08_sn_6010 Time : 13-SEP-2013 11:22
Cal : 83369039001 Caldate : 13-SEP-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	97.753	99.626	5000	5200	ug/L	4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2723598	2620061	-3.80

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 248701 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83369039052 File : met08_sn_6010 Time : 13-SEP-2013 11:27
Cal : 83369039001 Caldate : 13-SEP-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2723598	2782630	2.17

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 93369279

Instrument : MET09 Begun : 09/13/13 10:39
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	met09_sn	ICALBLK				09/13/13 10:39	1.0		
002	met09_sn	ICAL	CRI5.1			09/13/13 10:44	1.0	1	
003	met09_sn	ICAL	CS100			09/13/13 10:49	1.0	2	
004	met09_sn	ICAL	CS1K			09/13/13 10:54	1.0	3	
005	met09_sn	ICAL	CS10K			09/13/13 10:58	1.0	4	
006	met09_sn	ICAL	CS100K			09/13/13 11:04	1.0	5	
007	met09_sn	ICV				09/13/13 11:10	1.0	6	
008	met09_sn	ICB				09/13/13 11:16	1.0		
009	met09_sn	ICSA				09/13/13 11:21	1.0	7	10:MG=500000
010	met09_sn	ICSAB				09/13/13 11:48	1.0	8	5:AL=510000
011	met09_sn	XCRI				09/13/13 11:55	1.0	9	
012	met09_sn	CRI				09/13/13 12:01	1.0	9	
013	met09_sn	CRI				09/13/13 12:07	1.0	10	
014	met09_sn	BLANK	QC705568	Soil	202559	09/13/13 12:12	1.0		
015	met09_sn	BS	QC705569	Soil	202559	09/13/13 12:17	1.0		
016	met09_sn	BSD	QC705570	Soil	202559	09/13/13 12:22	1.0		
017	met09_sn	MSS	248460-008	Soil	202559	09/13/13 12:26	1.0		4:FE=950000
018	met09_sn	MS	QC705571	Soil	202559	09/13/13 12:32	1.0		
019	met09_sn	MSD	QC705572	Soil	202559	09/13/13 12:38	1.0		
020	met09_sn	SER	QC705573	Soil	202559	09/13/13 12:44	5.0		
021	met09_sn	PDS	QC705574	Soil	202559	09/13/13 12:49	1.0	11 12	2:FE=950000
022	met09_sn	SAMPLE	248681-001	Soil	202559	09/13/13 12:55	1.0		3:FE=310000
023	met09_sn	CCV				09/13/13 13:02	1.0	13	
024	met09_sn	X				09/13/13 13:08	1.0		
025	met09_sn	CCB				09/13/13 13:12	1.0		
026	met09_sn	ICSAB				09/13/13 13:17	1.0	8	5:MG=520000
027	met09_sn	X	RINSE			09/13/13 13:47	1.0		
028	met09_sn	X	RINSE			09/13/13 13:52	1.0		
029	met09_sn	X	RINSE			09/13/13 13:57	1.0		
030	met09_sn	X	RINSE			09/13/13 14:02	1.0		
031	met09_sn	CCV				09/13/13 14:07	1.0	13	
032	met09_sn	CCB				09/13/13 14:13	1.0		
033	met09_sn	ICSAB				09/13/13 14:19	1.0	8	5:AL=500000
034	met09_sn	BLANK	QC706612	Soil	202791	09/13/13 15:35	1.0		
035	met09_sn	BS	QC706613	Soil	202791	09/13/13 15:40	1.0		
036	met09_sn	BSD	QC706614	Soil	202791	09/13/13 15:44	1.0		
037	met09_sn	MSS	248734-007	Soil	202791	09/13/13 15:49	1.0		3:FE=340000
038	met09_sn	MS	QC706615	Soil	202791	09/13/13 15:53	1.0		3:FE=380000
039	met09_sn	MSD	QC706616	Soil	202791	09/13/13 15:57	1.0		3:FE=370000
040	met09_sn	SAMPLE	248861-001	Soil	202791	09/13/13 16:01	1.0		4:FE=400000
041	met09_sn	SAMPLE	248575-007	Soil	202791	09/13/13 16:05	1.0		3:FE=480000
042	met09_sn	CCV				09/13/13 16:09	1.0	13	
043	met09_sn	CCB				09/13/13 16:16	1.0		
044	met09_sn	ICSAB				09/13/13 16:21	1.0	8	5:AL=500000
045	met09_sn	SAMPLE	248575-007	Soil	202791	09/13/13 17:04	1.0		3:FE=470000
046	met09_sn	SAMPLE	248575-011	Soil	202791	09/13/13 17:08	1.0		5:FE=720000
047	met09_sn	X	248575-011	Soil	202791	09/13/13 17:12	1.0		
048	met09_sn	CCV				09/13/13 17:17	1.0	13	
049	met09_sn	CCB				09/13/13 17:23	1.0		
050	met09_sn	X				09/13/13 17:29	1.0	8	5:AL=500000
051	met09_sn	ICSAB				09/13/13 21:51	1.0	8	5:AL=510000
052	met09_sn	SAMPLE	248444-001	Wipe	202406	09/13/13 22:04	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 93369279

Instrument : MET09 Begun : 09/13/13 10:39
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
053	met09_sn	SAMPLE	248447-001	Wipe	202406	09/13/13 22:09	1.0		
054	met09_sn	SAMPLE	248448-001	Wipe	202406	09/13/13 22:15	1.0		
055	met09_sn	SAMPLE	248450-001	Wipe	202406	09/13/13 22:20	1.0		
056	met09_sn	SAMPLE	248701-001	Water	202629	09/13/13 22:25	1.0		3:NA=420000
057	met09_sn	SAMPLE	248701-002	Water	202629	09/13/13 22:33	1.0		3:NA=420000
058	met09_sn	SAMPLE	248701-003	Water	202629	09/13/13 22:41	1.0		2:CA=220000
059	met09_sn	SAMPLE	248701-004	Water	202629	09/13/13 22:49	1.0		1:CA=200000
060	met09_sn	SAMPLE	248701-005	Water	202629	09/13/13 22:55	1.0		2:NA=360000
061	met09_sn	SAMPLE	248701-008	Water	202629	09/13/13 23:03	1.0		3:NA=320000
062	met09_sn	CCV				09/13/13 23:11	1.0	13	
063	met09_sn	CCB				09/13/13 23:17	1.0		
064	met09_sn	CCB				09/13/13 23:21	1.0		
065	met09_sn	SAMPLE	248701-009	Water	202629	09/13/13 23:26	1.0		3:NA=430000
066	met09_sn	SAMPLE	248701-010	Water	202629	09/13/13 23:34	1.0		3:NA=450000
067	met09_sn	SAMPLE	248744-001	Water	202629	09/13/13 23:42	1.0		2:ZN=13000
068	met09_sn	SAMPLE	248770-011	Water	202629	09/13/13 23:49	1.0		
069	met09_sn	SAMPLE	248832-001	Water	202831	09/13/13 23:54	1.0		1:CA=170000
070	met09_sn	SAMPLE	248832-003	Water	202831	09/14/13 00:00	1.0		1:CA=290000
071	met09_sn	SAMPLE	248832-005	Water	202831	09/14/13 00:04	1.0		1:CA=180000
072	met09_sn	SAMPLE	248832-007	Water	202831	09/14/13 00:09	1.0		2:CA=750000
073	met09_sn	SAMPLE	248862-001	Water	202831	09/14/13 00:16	1.0		
074	met09_sn	SAMPLE	248862-002	Water	202831	09/14/13 00:21	1.0		
075	met09_sn	ICSAB				09/14/13 00:27	1.0	8	5:MG=550000
076	met09_sn	CCV				09/14/13 00:33	1.0	13	
077	met09_sn	CCB				09/14/13 00:39	1.0		
078	met09_sn	CCB				09/14/13 00:43	1.0		
079	met09_sn	SAMPLE	248862-003	Water	202831	09/14/13 00:48	1.0		
080	met09_sn	SAMPLE	248862-004	Water	202831	09/14/13 00:53	1.0		
081	met09_sn	SAMPLE	248862-005	Water	202831	09/14/13 00:58	1.0		
082	met09_sn	SAMPLE	248862-006	Water	202831	09/14/13 01:03	1.0		
083	met09_sn	SAMPLE	248862-007	Water	202831	09/14/13 01:09	1.0		
084	met09_sn	SAMPLE	248862-008	Water	202831	09/14/13 01:14	1.0		
085	met09_sn	SAMPLE	248862-009	Water	202831	09/14/13 01:19	1.0		
086	met09_sn	SAMPLE	248862-010	Water	202831	09/14/13 01:24	1.0		
087	met09_sn	CCV				09/14/13 01:29	1.0	13	
088	met09_sn	CCB				09/14/13 01:36	1.0		
089	met09_sn	ICSAB				09/14/13 01:41	1.0	8	

NT 09/16/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 89.

Standards used: 1=S22714 2=S22716 3=S22715 4=S22717 5=S22718 6=S22721 7=S22719 8=S22720 9=S23205 10=S22723 11=S22594 12=S22595 13=S22722

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 93369279

Date : 09/13/13 Reference : met09_sn
Sequence : MET09 09/13/13 Analyzed : 09/13/13 10:44

#	Type	Sample ID	Y A
		ICAL STD	4660164
		LOWER LIMIT	1398049
		UPPER LIMIT	9320327
008	ICB		4722893
009	ICSA		3899625
010	ICSAB		3922532
014	BLANK	QC705568	4717733
015	BS	QC705569	4582661
016	BSD	QC705570	4644636
018	MS	QC705571	4635484
019	MSD	QC705572	4684259
020	SER	QC705573	4619171
021	PDS	QC705574	4700313
022	SAMPLE	248681-001	4530095
023	CCV		4354629
025	CCB		4548366
026	ICSAB		3860031
031	CCV		4427550
032	CCB		4610952
033	ICSAB		3935412
034	BLANK	QC706612	4606610
035	BS	QC706613	4388955
036	BSD	QC706614	4344864
038	MS	QC706615	4464371
039	MSD	QC706616	4487566
040	SAMPLE	248861-001	4531983
041	SAMPLE	248575-007	4499984
042	CCV		4458930
043	CCB		4762625
044	ICSAB		3934245
045	SAMPLE	248575-007	4402785
046	SAMPLE	248575-011	4428162
048	CCV		4462952
049	CCB		4539254
051	ICSAB		3875774
052	SAMPLE	248444-001	4602951
053	SAMPLE	248447-001	4521831
054	SAMPLE	248448-001	4490226
055	SAMPLE	248450-001	4553939
056	SAMPLE	248701-001	4037902
057	SAMPLE	248701-002	4029125
058	SAMPLE	248701-003	4173577
059	SAMPLE	248701-004	4268741
060	SAMPLE	248701-005	4175495
061	SAMPLE	248701-008	3949979
062	CCV		4294199
063	CCB		4482309
064	CCB		4540536
065	SAMPLE	248701-009	3942550
066	SAMPLE	248701-010	3958574
067	SAMPLE	248744-001	4324440

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 93369279

Date : 09/13/13 Reference : met09_sn
Sequence : MET09 09/13/13 Analyzed : 09/13/13 10:44

#	Type	Sample ID	Y A
068	SAMPLE	248770-011	4642876
069	SAMPLE	248832-001	4510891
070	SAMPLE	248832-003	4430735
071	SAMPLE	248832-005	4425765
072	SAMPLE	248832-007	4040123
073	SAMPLE	248862-001	4537037
074	SAMPLE	248862-002	4581485
075	ICSAB		3807652
076	CCV		4280715
077	CCB		4530390
078	CCB		4452588
079	SAMPLE	248862-003	4612121
080	SAMPLE	248862-004	4655786
081	SAMPLE	248862-005	4615116
082	SAMPLE	248862-006	4654394
083	SAMPLE	248862-007	4789702
084	SAMPLE	248862-008	4600389
085	SAMPLE	248862-009	4831616
086	SAMPLE	248862-010	4665739
087	CCV		4310955
088	CCB		4378499
089	ICSAB		8217415

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 248701 METALS Water: EPA 6010B

Inst : MET09 Reviewer : ---
Calnum : 93369279001 Date : 13-SEP-2013 10:39
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	met09_sn	93369279002	CRI5.1	13-SEP-2013 10:44	S22714
L2	met09_sn	93369279003	CS100	13-SEP-2013 10:49	S22716
L3	met09_sn	93369279004	CS1K	13-SEP-2013 10:54	S22715
L4	met09_sn	93369279005	CS10K	13-SEP-2013 10:58	S22717
L5	met09_sn	93369279006	CS100K	13-SEP-2013 11:04	S22718

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Chromium	A	114.80	138.52	147.06	146.21		LOR0	0.00000	0.00684		136.65	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Chromium	A	5.0000	**-21**	100.00	-5	1000.0	1	10000	0		

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 248701 METALS Water
EPA 6010B

Inst : MET09
Calnum : 93369279001 Cal Date : 13-SEP-2013

ICV 93369279007 (13-SEP-2013) stds: S22721

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Chromium	A	5000	4971	ug/L	-1	10	

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR 248701 METALS Water
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93369279009 File : met09_sn Time : 13-SEP-2013 11:21
Cal : 93369279001 Caldate : 13-SEP-2013
Standards: S22719

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19160	ug/L	96
Copper	A	20000	21050	ug/L	105
Manganese	A	20000	18950	ug/L	95
Nickel	A	20000	17680	ug/L	88
Vanadium	A	20000	19770	ug/L	99
Aluminum	R	500000	499400	ug/L	100
Calcium	R	500000	482800	ug/L	97
Iron	R	200000	190400	ug/L	95
Magnesium	R	500000	501600	ug/L	100
Titanium	R	20000	21480	ug/L	107

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4660164	3899625	-16.32

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 248701 METALS Water
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93369279048 File : met09_sn Time : 13-SEP-2013 17:17
Cal : 93369279001 Caldate : 13-SEP-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	136.65	146.51	5000	5010	ug/L	0	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4660164	4462952	-4.23

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 248701 METALS Water
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93369279049 File : met09_sn Time : 13-SEP-2013 17:23
Cal : 93369279001 Caldate : 13-SEP-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.252	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4660164	4539254	-2.59

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 248701 METALS Water
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93369279051 File : met09_sn Time : 13-SEP-2013 21:51
Cal : 93369279001 Caldate : 13-SEP-2013
Standards: S22720

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	496.0	ug/L	-1	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4660164	3875774	-16.83

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 248701 METALS Water
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93369279062 File : met09_sn Time : 13-SEP-2013 23:11
Cal : 93369279001 Caldate : 13-SEP-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	136.65	153.24	5000	5240	ug/L	5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4660164	4294199	-7.85

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 248701 METALS Water
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93369279063 File : met09_sn Time : 13-SEP-2013 23:17
Cal : 93369279001 Caldate : 13-SEP-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.252	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4660164	4482309	-3.82

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 248701 METALS Water
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93369279064 File : met09_sn Time : 13-SEP-2013 23:21
Cal : 93369279001 Caldate : 13-SEP-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.252	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4660164	4540536	-2.57

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 248701 METALS Water
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93369279075 File : met09_sn Time : 14-SEP-2013 00:27
Cal : 93369279001 Caldate : 13-SEP-2013
Standards: S22720

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	520.4	ug/L	4	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4660164	3807652	-18.29

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 248701 METALS Water
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93369279076 File : met09_sn Time : 14-SEP-2013 00:33
Cal : 93369279001 Caldate : 13-SEP-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	136.65	156.73	5000	5360	ug/L	7	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4660164	4280715	-8.14

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 248701 METALS Water
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93369279077 File : met09_sn Time : 14-SEP-2013 00:39
Cal : 93369279001 Caldate : 13-SEP-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.252	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4660164	4530390	-2.78

SAMPLE PREPARATION SUMMARY

Batch # : 202629
Started By : VV
Method : 3010A
Spike #1 ID : S21652

Prep Date : 08-SEP-2013 00:01
SOP Version : 3010A_icp_rv15
Spike #2 ID : S21653

Analysis : ICAP
Finished By : VV
Units : mL

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
248508-021		Water	50	50	1	1.0						TAL/ICP	
248554-016		Water	50	50	1	1.0						TAL/ICP	
248693-013		Water	50	50	1	1.0						AL, CO, FE, TAL/ICP	
248701-001		Water	50	50	1	1.0						CR	
248701-002		Water	50	50	1	1.0						CR	
248701-003		Water	50	50	1	1.0						CR	
248701-004		Water	50	50	1	1.0						CR	
248701-005		Water	50	50	1	1.0						CR	
248701-008		Water	50	50	1	1.0						CR	
248701-009		Water	50	50	1	1.0						CR	
248701-010		Water	50	50	1	1.0						CR	
248735-018		Water	50	50	1	1.0						AL, CO, FE, TAL/ICP	
248743-001		Water	50	50	1	1.0						RCRA/ICP	
248744-001		Water	50	50	1	1.0						T22/ICP	
248770-011		Water	50	50	1	1.0						FE, T22/ICP	
QC705877	BLANK	Water	50	50	1	1.0							
QC705878	BS	Water	50	50	1	1.0		.5	.5				
QC705879	BSD	Water	50	50	1	1.0		.5	.5				
QC705880	MS	Water	50	50	1	1.0		.5	.5				
QC705881	MSD	Water	50	50	1	1.0		.5	.5				
QC705882	SER	Water	50	50	1	1.0							
QC705883	PDS	Water	50	50	1	1.0							

Analyst: JDB Date: 09/13/13 Reviewer: PRW Date: 09/16/13

Water Digestion for ICP

Curtis & Tompkins, Ltd.

LIMS Batch #: 202629
Digested by: VV
Date Digested: 9-7-13

Digestion Method
☒ EPA 3010a for ICP
☐ EPA 200.7
☐ _____

BK3476
Page 30

Lvl.	Sample #	Container ID	Volume Sample(mL)	Final Volume (mL)	Filtered? (y/n)	ID Π	Comments
	DIK 705877		☒ 50 ☐	☒ 50 ☐	NO	✓	
	* BS 8		☒ 50 ☐	☒ 50 ☐		✓	
	* BSD 9		☒ 50 ☐	☒ 50 ☐		✓	
	* 248508-021 MS		☒ 50 ☐	☒ 50 ☐		✓	
5	* - 021 MSD		☒ 50 ☐	☒ 50 ☐		✓	
IV	- 021	G	☒ 50 ☐	☒ 50 ☐		✓	
IV	248554-016	G	☒ 50 ☐	☒ 50 ☐		✓	
IV	248693-013	D	☒ 50 ☐	☒ 50 ☐		✓	
III	248701-001	D	☒ 50 ☐	☒ 50 ☐		✓	
10	- 002		☒ 50 ☐	☒ 50 ☐		✓	
	- 003		☒ 50 ☐	☒ 50 ☐		✓	
	- 004		☒ 50 ☐	☒ 50 ☐		✓	
	- 005		☒ 50 ☐	☒ 50 ☐		✓	
	- 008		☒ 50 ☐	☒ 50 ☐		✓	
15	- 009		☒ 50 ☐	☒ 50 ☐		✓	
*	- 010		☒ 50 ☐	☒ 50 ☐		✓	
IV	248735-018	D	☒ 50 ☐	☒ 50 ☐		✓	
III	248743-001	F	☒ 50 ☐	☒ 50 ☐		✓	
II	248744-001	E	☒ 50 ☐	☒ 50 ☐		✓	
II 20	248770-011	G	☒ 50 ☐	☒ 50 ☐		✓	
			☐ 50 ☐	☐ 50 ☐			
			☐ 50 ☐	☐ 50 ☐			
	VV 9-8-13		☐ 50 ☐	☐ 50 ☐			
			☐ 50 ☐	☐ 50 ☐			
			☐ 50 ☐	☐ 50 ☐			

	Reagent ID or LIMS #	Initials / Date
Digestion tubes, lot #	165644	VV 9-7-13
0.5 mL of spike solution (Std1) was added to all spikes	S21652 *	
0.5 mL of spike solution (Std2) was added to all spikes	S21653	
Digestion Temperature (°C), Block and Probe Location	95°C A37	
digestion begun at (time)	10:20pm	
Concentrated HNO3	3390-JTB	
1:1 HCl	35187-090913	VV 9-8-13
digestion ended at (time)	3Am	
☐ filtered thru' Whatman # 541		
Relinquished to ICP group	ICAP	

Prep Chemist / Date: 9-7-13

Continued from page 8
Continued on page 8

Reviewed Online / See LIMS

Laboratory Job Number 248701

ANALYTICAL REPORT

Metals

Matrix: Filtrate

Curtis & Tompkins, Ltd.

Dissolved Chromium

Lab #:	248701	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Sampled:	09/04/13
Matrix:	Filtrate	Received:	09/05/13
Units:	ug/L	Prepared:	09/06/13
Diln Fac:	1.000	Analyzed:	09/18/13
Batch#:	202605		

Field ID	Type	Lab ID	Result	RL	MDL
AST-INF	SAMPLE	248701-001	66	5.0	0.69
AST-EFF	SAMPLE	248701-002	60	5.0	0.69
GAC-02 INF	SAMPLE	248701-003	10	5.0	0.69
GAC-02 EFF	SAMPLE	248701-004	0.99 J	5.0	0.69
E-07R	SAMPLE	248701-005	39	5.0	0.69
E-12	SAMPLE	248701-008	22	5.0	0.69
E-17	SAMPLE	248701-009	130	5.0	0.69
E-117	SAMPLE	248701-010	140	5.0	0.69
	BLANK	QC705753	ND	5.0	0.69

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Chromium

Lab #:	248701	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Batch#:	202605
Field ID:	AST-INF	Sampled:	09/04/13
MSS Lab ID:	248701-001	Received:	09/05/13
Matrix:	Filtrate	Prepared:	09/06/13
Units:	ug/L	Analyzed:	09/18/13
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC705754		200.0	192.4	96	80-120		
BSD	QC705755		200.0	192.3	96	80-120	0	20
MS	QC705756	65.94	200.0	256.4	95	74-120		
MSD	QC705757		200.0	258.9	96	74-120	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Chromium

Lab #:	248701	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	AST-INF	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	202605
MSS Lab ID:	248701-001	Sampled:	09/04/13
Lab ID:	QC705758	Received:	09/05/13
Matrix:	Filtrate	Analyzed:	09/18/13

MSS Result	MSS RL	Result	RL	% Diff	Lim
65.94	5.000	66.92	25.00	1	10

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Chromium

Lab #:	248701	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	AST-INF	Diln Fac:	1.000
Type:	Post Digest Spike	Batch#:	202605
MSS Lab ID:	248701-001	Sampled:	09/04/13
Lab ID:	QC705759	Received:	09/05/13
Matrix:	Filtrate	Analyzed:	09/18/13

MSS Result	Spiked	Result	%REC	Limits
65.94	200.0	272.0	103	75-125

REPORTING SUMMARY FOR 248701 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CR	
248701-001	MET08	09/18/13 14:16	1.0	+	
248701-002	MET08	09/18/13 15:46	1.0	+	
248701-003	MET08	09/18/13 15:51	1.0	+	
248701-004	MET08	09/18/13 16:12	1.0	+	
248701-005	MET08	09/18/13 16:17	1.0	+	
248701-008	MET08	09/18/13 16:28	1.0	+	
248701-009	MET08	09/18/13 16:34	1.0	+	
248701-010	MET08	09/18/13 16:39	1.0	+	
QC705753	MET08	09/18/13 14:02	1.0	+	
QC705754	MET08	09/18/13 14:07	1.0	+	
QC705755	MET08	09/18/13 14:11	1.0	+	
QC705756	MET08	09/18/13 14:21	1.0	+	
QC705757	MET08	09/18/13 14:25	1.0	+	
QC705758	MET08	09/18/13 14:30	5.0	+	
QC705759	MET08	09/18/13 14:35	1.0	+	

ICP Data

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83376249

Instrument : MET08 Begun : 09/18/13 06:49
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	met08_sn_6010	ICALBLK				09/18/13 06:49	1.0		
002	met08_sn_6010	ICAL	CRI5.1			09/18/13 06:55	1.0	1	
003	met08_sn_6010	ICAL	CS100			09/18/13 07:00	1.0	2	
004	met08_sn_6010	ICAL	CS1K			09/18/13 07:04	1.0	3	
005	met08_sn_6010	ICAL	CS10K			09/18/13 07:09	1.0	4	
006	met08_sn_6010	ICAL	CS100K			09/18/13 07:15	1.0	5	
007	met08_sn_6010	ICV				09/18/13 07:20	1.0	6	
008	met08_sn_6010	XCRI				09/18/13 07:28	1.0	7	
009	met08_sn_6010	CRI				09/18/13 07:33	1.0	7	
010	met08_sn_6010	ICB				09/18/13 07:40	1.0		
011	met08_sn_6010	ICSA				09/18/13 07:46	1.0	8	10:AL=500000
012	met08_sn_6010	ICSAB				09/18/13 07:51	1.0	9	5:AL=500000
013	met08_sn_6010	BS	QC704414	Soil	202302	09/18/13 07:57	1.0		
014	met08_sn_6010	BSD	QC704415	Soil	202302	09/18/13 08:02	1.0		
015	met08_sn_6010	MSS	248201-007	Soil	202302	09/18/13 08:06	1.0		5:CA=880000
016	met08_sn_6010	MS	QC704416	Soil	202302	09/18/13 08:09	1.0		5:CA=780000
017	met08_sn_6010	MSD	QC704417	Soil	202302	09/18/13 08:15	1.0		5:CA=1000000
018	met08_sn_6010	PDS	QC704419	Soil	202302	09/18/13 08:19	1.0	10 11	1:CA=890000
019	met08_sn_6010	SAMPLE	248201-012	Soil	202302	09/18/13 08:22	1.0		1:FE=120000
020	met08_sn_6010	SAMPLE	248201-013	Soil	202302	09/18/13 08:26	1.0		5:CA=1100000
021	met08_sn_6010	SAMPLE	248201-014	Soil	202302	09/18/13 08:29	1.0		5:CA=2400000
022	met08_sn_6010	SAMPLE	248201-020	Soil	202302	09/18/13 08:33	1.0		1:FE=100000
023	met08_sn_6010	CCV				09/18/13 08:36	1.0	12	
024	met08_sn_6010	CCB				09/18/13 08:42	1.0		
025	met08_sn_6010	BLANK	QC704413	Soil	202302	09/18/13 08:49	1.0		
026	met08_sn_6010	CCV				09/18/13 08:54	1.0	12	
027	met08_sn_6010	CCB				09/18/13 09:01	1.0		
028	met08_sn_6010	ICSAB				09/18/13 09:07	1.0	9	5:AL=500000
029	met08_sn_6010	BLANK	QC704556	Soil	202332	09/18/13 09:23	1.0		
030	met08_sn_6010	BS	QC704557	Soil	202332	09/18/13 09:29	1.0		
031	met08_sn_6010	BSD	QC704558	Soil	202332	09/18/13 09:33	1.0		
032	met08_sn_6010	MSS	248289-005	Soil	202332	09/18/13 09:37	1.0		5:CA=4500000
033	met08_sn_6010	MS	QC704559	Soil	202332	09/18/13 09:41	1.0		
034	met08_sn_6010	MSD	QC704560	Soil	202332	09/18/13 09:44	1.0		
035	met08_sn_6010	SER	QC704561	Soil	202332	09/18/13 09:48	5.0		
036	met08_sn_6010	PDS	QC704562	Soil	202332	09/18/13 09:52	1.0	10 11	1:CA=4500000
037	met08_sn_6010	CCV				09/18/13 09:55	1.0	12	
038	met08_sn_6010	CCB				09/18/13 10:01	1.0		
039	met08_sn_6010	MSS	248289-006	Soil	202332	09/18/13 10:07	1.0		3:FE=1100000
040	met08_sn_6010	MS	QC704563	Soil	202332	09/18/13 10:13	1.0		
041	met08_sn_6010	MSD	QC704564	Soil	202332	09/18/13 10:19	1.0		
042	met08_sn_6010	SAMPLE	248289-001	Soil	202332	09/18/13 10:25	1.0		2:FE=130000
043	met08_sn_6010	SAMPLE	248289-002	Soil	202332	09/18/13 10:28	1.0		3:FE=1100000
044	met08_sn_6010	SAMPLE	248289-003	Soil	202332	09/18/13 10:34	1.0		3:CA=5300000
045	met08_sn_6010	SAMPLE	248289-004	Soil	202332	09/18/13 10:37	1.0		3:FE=880000
046	met08_sn_6010	SAMPLE	248289-007	Soil	202332	09/18/13 10:43	1.0		3:FE=230000
047	met08_sn_6010	SAMPLE	248289-008	Soil	202332	09/18/13 10:47	1.0		4:FE=1000000
048	met08_sn_6010	SAMPLE	248289-009	Soil	202332	09/18/13 10:53	1.0		3:FE=170000
049	met08_sn_6010	CCV				09/18/13 10:56	1.0	12	
050	met08_sn_6010	CCB				09/18/13 11:02	1.0		
051	met08_sn_6010	ICSAB				09/18/13 11:07	1.0	9	5:AL=490000
052	met08_sn_6010	SAMPLE	248289-010	Soil	202332	09/18/13 11:14	1.0		4:FE=1100000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83376249

Instrument : MET08 Begun : 09/18/13 06:49
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
053	met08_sn_6010	SAMPLE	248289-011	Soil	202332	09/18/13 11:19	1.0		4:CA=4900000
054	met08_sn_6010	SAMPLE	248289-012	Soil	202332	09/18/13 11:23	1.0		4:FE=1000000
055	met08_sn_6010	SAMPLE	248289-013	Soil	202332	09/18/13 11:29	1.0		4:CA=5000000
056	met08_sn_6010	SAMPLE	248289-014	Soil	202332	09/18/13 11:32	1.0		3:FE=1100000
057	met08_sn_6010	SAMPLE	248289-015	Soil	202332	09/18/13 11:38	1.0		5:CA=3700000
058	met08_sn_6010	SAMPLE	248289-016	Soil	202332	09/18/13 11:42	1.0		3:FE=1000000
059	met08_sn_6010	SAMPLE	248289-017	Soil	202332	09/18/13 11:48	1.0		4:CA=4600000
060	met08_sn_6010	SAMPLE	248289-018	Soil	202332	09/18/13 11:52	1.0		4:FE=990000
061	met08_sn_6010	CCV				09/18/13 11:57	1.0	12	
062	met08_sn_6010	CCB				09/18/13 12:03	1.0		
063	met08_sn_6010	MSS	248289-005	Soil	202332	09/18/13 12:09	1.0		5:CA=4600000
064	met08_sn_6010	MSS	248289-006	Soil	202332	09/18/13 12:12	1.0		3:FE=1100000
065	met08_sn_6010	SAMPLE	248289-001	Soil	202332	09/18/13 12:18	1.0		2:FE=130000
066	met08_sn_6010	SAMPLE	248289-002	Soil	202332	09/18/13 12:22	1.0		3:FE=1100000
067	met08_sn_6010	SAMPLE	248289-003	Soil	202332	09/18/13 12:28	1.0		2:FE=140000
068	met08_sn_6010	SAMPLE	248289-004	Soil	202332	09/18/13 12:31	1.0		3:FE=890000
069	met08_sn_6010	SAMPLE	248289-008	Soil	202332	09/18/13 12:37	1.0		4:FE=1100000
070	met08_sn_6010	SAMPLE	248289-010	Soil	202332	09/18/13 12:43	1.0		4:FE=1100000
071	met08_sn_6010	SAMPLE	248289-012	Soil	202332	09/18/13 12:49	1.0		4:FE=1100000
072	met08_sn_6010	SAMPLE	248289-014	Soil	202332	09/18/13 12:55	1.0		3:FE=1100000
073	met08_sn_6010	CCV				09/18/13 13:01	1.0	12	
074	met08_sn_6010	CCB				09/18/13 13:07	1.0		
075	met08_sn_6010	ICSAB				09/18/13 13:13	1.0	9	5:MG=500000
076	met08_sn_6010	SAMPLE	248289-015	Soil	202332	09/18/13 13:19	1.0		5:CA=3700000
077	met08_sn_6010	SAMPLE	248289-016	Soil	202332	09/18/13 13:22	1.0		3:FE=1000000
078	met08_sn_6010	SAMPLE	248289-018	Soil	202332	09/18/13 13:28	1.0		4:FE=1000000
079	met08_sn_6010	CCV				09/18/13 13:34	1.0	12	
080	met08_sn_6010	CCB				09/18/13 13:40	1.0		
081	met08_sn_6010	ICSAB				09/18/13 13:45	1.0	9	5:AL=490000
082	met08_sn_6010	SAMPLE	248855-001	Soil	202791	09/18/13 13:52	1.0		2:FE=220000
083	met08_sn_6010	BLANK	QC705753	Filtrate	202605	09/18/13 14:02	1.0		
084	met08_sn_6010	BS	QC705754	Filtrate	202605	09/18/13 14:07	1.0		
085	met08_sn_6010	BSD	QC705755	Filtrate	202605	09/18/13 14:11	1.0		
086	met08_sn_6010	MSS	248701-001	Filtrate	202605	09/18/13 14:16	1.0		3:NA=360000
087	met08_sn_6010	MS	QC705756	Filtrate	202605	09/18/13 14:21	1.0		
088	met08_sn_6010	MSD	QC705757	Filtrate	202605	09/18/13 14:25	1.0		
089	met08_sn_6010	SER	QC705758	Filtrate	202605	09/18/13 14:30	5.0		
090	met08_sn_6010	PDS	QC705759	Filtrate	202605	09/18/13 14:35	1.0	13 14	3:NA=390000
091	met08_sn_6010	CCV				09/18/13 14:39	1.0	12	
092	met08_sn_6010	CCB				09/18/13 14:45	1.0		
093	met08_sn_6010	SAMPLE	248685-001	Filtrate	202605	09/18/13 14:51	1.0		3:MG=880000
094	met08_sn_6010	SAMPLE	248685-002	Filtrate	202605	09/18/13 14:57	1.0		4:MG=1000000
095	met08_sn_6010	SAMPLE	248685-003	Filtrate	202605	09/18/13 15:03	1.0		3:MG=870000
096	met08_sn_6010	SAMPLE	248685-004	Filtrate	202605	09/18/13 15:10	1.0		3:MG=760000
097	met08_sn_6010	SAMPLE	248685-005	Filtrate	202605	09/18/13 15:17	1.0		3:MG=420000
098	met08_sn_6010	SAMPLE	248685-006	Filtrate	202605	09/18/13 15:24	1.0		2:MG=500000
099	met08_sn_6010	SAMPLE	248685-007	Filtrate	202605	09/18/13 15:32	1.0		3:MG=640000
100	met08_sn_6010	SAMPLE	248685-008	Filtrate	202605	09/18/13 15:40	1.0		3:MG=890000
101	met08_sn_6010	SAMPLE	248701-002	Filtrate	202605	09/18/13 15:46	1.0		3:NA=360000
102	met08_sn_6010	SAMPLE	248701-003	Filtrate	202605	09/18/13 15:51	1.0		1:CA=190000
103	met08_sn_6010	CCV				09/18/13 15:56	1.0	12	
104	met08_sn_6010	XCCB				09/18/13 16:02	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83376249

Instrument : MET08 Begun : 09/18/13 06:49
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
105	met08_sn_6010	CCB				09/18/13 16:06	1.0		
106	met08_sn_6010	SAMPLE	248701-004	Filtrate	202605	09/18/13 16:12	1.0		1:CA=190000
107	met08_sn_6010	SAMPLE	248701-005	Filtrate	202605	09/18/13 16:17	1.0		2:NA=320000
108	met08_sn_6010	ICSAB				09/18/13 16:22	1.0	9	5:AL=510000
109	met08_sn_6010	SAMPLE	248701-008	Filtrate	202605	09/18/13 16:28	1.0		3:CA=290000
110	met08_sn_6010	SAMPLE	248701-009	Filtrate	202605	09/18/13 16:34	1.0		3:CA=380000
111	met08_sn_6010	SAMPLE	248701-010	Filtrate	202605	09/18/13 16:39	1.0		3:CA=380000
112	met08_sn_6010	MSS	248289-005	Soil	202332	09/18/13 16:44	100.0		
113	met08_sn_6010	MSS	248289-006	Soil	202332	09/18/13 16:49	100.0		
114	met08_sn_6010	SAMPLE	248685-001	Filtrate	202605	09/18/13 16:53	1.0		3:MG=900000
115	met08_sn_6010	SAMPLE	248685-002	Filtrate	202605	09/18/13 17:00	1.0		4:MG=1000000
116	met08_sn_6010	CCV				09/18/13 17:06	1.0	12	
117	met08_sn_6010	XCCB				09/18/13 17:12	1.0		
118	met08_sn_6010	CCB				09/18/13 17:16	1.0		
119	met08_sn_6010	SAMPLE	248685-003	Filtrate	202605	09/18/13 17:21	1.0		3:MG=900000
120	met08_sn_6010	SAMPLE	248685-004	Filtrate	202605	09/18/13 17:29	1.0		3:MG=790000
121	met08_sn_6010	SAMPLE	248685-005	Filtrate	202605	09/18/13 17:36	1.0		3:MG=430000
122	met08_sn_6010	XSAMPLE	248701-008	Filtrate	202605	09/18/13 17:44	1.0		2:CA=210000
123	met08_sn_6010	CCV				09/18/13 17:49	1.0	12	
124	met08_sn_6010	XCCB				09/18/13 17:55	1.0		
125	met08_sn_6010	CCB				09/18/13 17:59	1.0		
126	met08_sn_6010	ICSAB				09/18/13 18:04	1.0	9	5:AL=510000
127	met08_sn_6010	BLANK	QC704337	Soil	202285	09/18/13 18:22	1.0		
128	met08_sn_6010	BS	QC704338	Soil	202285	09/18/13 18:27	1.0		
129	met08_sn_6010	BSD	QC704339	Soil	202285	09/18/13 18:31	1.0		
130	met08_sn_6010	MSS	248201-002	Soil	202285	09/18/13 18:36	1.0		5:FE=620000
131	met08_sn_6010	MS	QC704340	Soil	202285	09/18/13 18:39	1.0		5:FE=600000
132	met08_sn_6010	MSD	QC704341	Soil	202285	09/18/13 18:43	1.0		6:FE=610000
133	met08_sn_6010	MSS	248201-001	Soil	202285	09/18/13 18:46	1.0		5:CA=760000
134	met08_sn_6010	SER	QC704342	Soil	202285	09/18/13 18:52	5.0		
135	met08_sn_6010	CCV				09/18/13 18:56	1.0	12	
136	met08_sn_6010	XCCB				09/18/13 19:02	1.0		
137	met08_sn_6010	CCB				09/18/13 19:06	1.0		
138	met08_sn_6010	PDS	QC704343	Soil	202285	09/18/13 19:11	1.0	10 11	
139	met08_sn_6010	SAMPLE	248201-003	Soil	202285	09/18/13 19:17	1.0		5:CA=700000
140	met08_sn_6010	SAMPLE	248201-004	Soil	202285	09/18/13 19:23	1.0		4:FE=590000
141	met08_sn_6010	MSS	248201-002	Soil	202285	09/18/13 19:26	100.0		
142	met08_sn_6010	CCV				09/18/13 19:31	1.0	12	
143	met08_sn_6010	XCCB				09/18/13 19:37	1.0		
144	met08_sn_6010	CCB				09/18/13 19:41	1.0		
145	met08_sn_6010	ICSAB				09/18/13 19:46	1.0	9	5:AL=540000

NT 09/19/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 145.

CRT 09/18/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 29 through 129.

Standards used: 1=S22714 2=S22716 3=S22715 4=S22717 5=S22718 6=S22721 7=S23205 8=S22719 9=S22720 10=S22594 11=S22595 12=S22722 13=S21652 14=S21653

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83376249

Date : 09/18/13 Reference : met08_sn_6010
Sequence : MET08 09/18/13 Analyzed : 09/18/13 06:55

#	Type	Sample ID	Y A
		ICAL STD	3115269
		LOWER LIMIT	934581
		UPPER LIMIT	6230538
010	ICB		3263667
011	ICSA		2654422
012	ICSAB		2662070
013	BS	QC704414	3120328
014	BSD	QC704415	3079678
016	MS	QC704416	3106482
017	MSD	QC704417	3147488
018	PDS	QC704419	3132643
023	CCV		3098897
024	CCB		3199022
025	BLANK	QC704413	3214525
026	CCV		3072755
027	CCB		3239935
028	ICSAB		2639635
029	BLANK	QC704556	3253563
030	BS	QC704557	3118857
031	BSD	QC704558	3124510
033	MS	QC704559	2492255
034	MSD	QC704560	2467300
035	SER	QC704561	2766219
036	PDS	QC704562	2424322
037	CCV		3119285
038	CCB		3299836
040	MS	QC704563	3337488
041	MSD	QC704564	3373723
049	CCV		3110282
050	CCB		3224548
051	ICSAB		2662764
061	CCV		3045991
062	CCB		3221991
073	CCV		3073420
074	CCB		3240330
075	ICSAB		2652614
079	CCV		3096536
080	CCB		3237581
081	ICSAB		2636632
082	SAMPLE	248855-001	3108060
083	BLANK	QC705753	3340426
084	BS	QC705754	3148719
085	BSD	QC705755	3108277
086	MSS	248701-001	2766155
087	MS	QC705756	2787747
088	MSD	QC705757	2811742
089	SER	QC705758	3012955
090	PDS	QC705759	2817759
091	CCV		3013762
092	CCB		3227930
093	SAMPLE	248685-001	2222444

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83376249

Date : 09/18/13 Reference : met08_sn_6010
Sequence : MET08 09/18/13 Analyzed : 09/18/13 06:55

#	Type	Sample ID	Y A
094	SAMPLE	248685-002	2266533
095	SAMPLE	248685-003	2113861
096	SAMPLE	248685-004	2526798
097	SAMPLE	248685-005	2469071
098	SAMPLE	248685-006	2382722
099	SAMPLE	248685-007	2146715
100	SAMPLE	248685-008	2147083
101	SAMPLE	248701-002	2737837
102	SAMPLE	248701-003	2843934
103	CCV		2942222
105	CCB		3109027
106	SAMPLE	248701-004	2892244
107	SAMPLE	248701-005	2748106
108	ICSAB		2489557
109	SAMPLE	248701-008	2760677
110	SAMPLE	248701-009	2733814
111	SAMPLE	248701-010	2688784
114	SAMPLE	248685-001	2151157
115	SAMPLE	248685-002	2240048
116	CCV		2954534
118	CCB		3130315
119	SAMPLE	248685-003	2612825
120	SAMPLE	248685-004	2031233
121	SAMPLE	248685-005	2362765
123	CCV		2926355
125	CCB		3060917
126	ICSAB		2539447
127	BLANK	QC704337	3101461
128	BS	QC704338	2884023
129	BSD	QC704339	2926775
131	MS	QC704340	3169665
132	MSD	QC704341	3178976
134	SER	QC704342	2977287
135	CCV		2879880
137	CCB		3079443
138	PDS	QC704343	3119698
142	CCV		2874293
144	CCB		3019149
145	ICSAB		2508063

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 248701 METALS Filtrate: EPA 6010B

Inst : MET08 Reviewer : ---
Calnum : 83376249001 Date : 18-SEP-2013 06:49
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	met08_sn_6010	83376249002	CRI5.1	18-SEP-2013 06:55	S22714
L2	met08_sn_6010	83376249003	CS100	18-SEP-2013 07:00	S22716
L3	met08_sn_6010	83376249004	CS1K	18-SEP-2013 07:04	S22715
L4	met08_sn_6010	83376249005	CS10K	18-SEP-2013 07:09	S22717
L5	met08_sn_6010	83376249006	CS100K	18-SEP-2013 07:15	S22718

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Chromium	A	108.38	107.56	107.20	106.64		LOR0	0.00000	0.00938		107.44	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Chromium	A	5.0000	2	100.00	1	1000.0	1	10000	0		

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 248701 METALS Filtrate
EPA 6010B

Inst : MET08
Calnum : 83376249001 Cal Date : 18-SEP-2013

ICV 83376249007 (18-SEP-2013) stds: S22721

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Chromium	A	5000	5029	ug/L	1	10	

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR 248701 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83376249011 File : met08_sn_6010 Time : 18-SEP-2013 07:46
Cal : 83376249001 Caldate : 18-SEP-2013
Standards: S22719

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19180	ug/L	96
Copper	A	20000	20430	ug/L	102
Manganese	A	20000	18110	ug/L	91
Nickel	A	20000	17980	ug/L	90
Vanadium	A	20000	19540	ug/L	98
Aluminum	R	500000	503500	ug/L	101
Calcium	R	500000	485900	ug/L	97
Iron	R	200000	191400	ug/L	96
Magnesium	R	500000	494700	ug/L	99
Titanium	R	20000	20750	ug/L	104

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115269	2654422	-14.79

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 248701 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83376249079 File : met08_sn_6010 Time : 18-SEP-2013 13:34
Cal : 83376249001 Caldate : 18-SEP-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	107.44	105.43	5000	4943	ug/L	-1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115269	3096536	-0.60

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 248701 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83376249080 File : met08_sn_6010 Time : 18-SEP-2013 13:40
Cal : 83376249001 Caldate : 18-SEP-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115269	3237581	3.93

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 248701 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83376249081 File : met08_sn_6010 Time : 18-SEP-2013 13:45
Cal : 83376249001 Caldate : 18-SEP-2013
Standards: S22720

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	502.9	ug/L	1	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115269	2636632	-15.36

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 248701 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83376249091 File : met08_sn_6010 Time : 18-SEP-2013 14:39
Cal : 83376249001 Caldate : 18-SEP-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	107.44	106.75	5000	5005	ug/L	0	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115269	3013762	-3.26

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 248701 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83376249092 File : met08_sn_6010 Time : 18-SEP-2013 14:45
Cal : 83376249001 Caldate : 18-SEP-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115269	3227930	3.62

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 248701 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83376249103.1 File : met08_sn_6010 Time : 18-SEP-2013 15:56
Cal : 83376249001 Caldate : 18-SEP-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	107.44	106.10	5000	4975	ug/L	-1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115269	2942222	-5.55

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 248701 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83376249105.1 File : met08_sn_6010 Time : 18-SEP-2013 16:06
Cal : 83376249001 Caldate : 18-SEP-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115269	3109027	-0.20

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 248701 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83376249108.1 File : met08_sn_6010 Time : 18-SEP-2013 16:22
Cal : 83376249001 Caldate : 18-SEP-2013
Standards: S22720

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	504.5	ug/L	1	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115269	2489557	-20.09

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 248701 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83376249116.1 File : met08_sn_6010 Time : 18-SEP-2013 17:06
Cal : 83376249001 Caldate : 18-SEP-2013
Standards: S22722

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	107.44	107.00	5000	5017	ug/L	0	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115269	2954534	-5.16

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 248701 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83376249118 File : met08_sn_6010 Time : 18-SEP-2013 17:16
Cal : 83376249001 Caldate : 18-SEP-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115269	3130315	0.48

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 248701 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83376249126.1 File : met08_sn_6010 Time : 18-SEP-2013 18:04
Cal : 83376249001 Caldate : 18-SEP-2013
Standards: S22720

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	496.2	ug/L	-1	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3115269	2539447	-18.48

SAMPLE PREPARATION SUMMARY

Batch # : 202605
Started By : NCD
Method : 3010A
Spike #1 ID : S21653

Prep Date : 06-SEP-2013 15:00
SOP Version : 3010A_icp_rv15
Spike #2 ID : S21652

Analysis : ICAP
Finished By : NCD
Units : mL

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
248685-001		Filtrate	50	50	1	1.0						AS, BA, NI, SE	
248685-002		Filtrate	50	50	1	1.0						AS, BA, NI, SE	
248685-003		Filtrate	50	50	1	1.0						AS, BA, NI, SE	
248685-004		Filtrate	50	50	1	1.0						AS, BA, NI, SE	
248685-005		Filtrate	50	50	1	1.0						AS, BA, NI, SE	
248685-006		Filtrate	50	50	1	1.0						AS, BA, NI, SE	
248685-007		Filtrate	50	50	1	1.0						AS, BA, NI, SE	
248685-008		Filtrate	50	50	1	1.0						AS, BA, NI, SE	
248701-001		Filtrate	50	50	1	1.0						CR	
248701-002		Filtrate	50	50	1	1.0						CR	
248701-003		Filtrate	50	50	1	1.0						CR	
248701-004		Filtrate	50	50	1	1.0						CR	
248701-005		Filtrate	50	50	1	1.0						CR	
248701-008		Filtrate	50	50	1	1.0						CR	
248701-009		Filtrate	50	50	1	1.0						CR	
248701-010		Filtrate	50	50	1	1.0						CR	
QC705753	BLANK	Filtrate	50	50	1	1.0							
QC705754	BS	Filtrate	50	50	1	1.0		.5	.5				
QC705755	BSD	Filtrate	50	50	1	1.0		.5	.5				
QC705756	MS	Filtrate	50	50	1	1.0		.5	.5				
QC705757	MSD	Filtrate	50	50	1	1.0		.5	.5				
QC705758	SER	Filtrate	50	50	1	1.0							
QC705759	PDS	Filtrate	50	50	1	1.0							

Analyst: JDB Date: 09/18/13 Reviewer: PRW Date: 09/19/13

Water Digestion for ICP

Curtis & Tompkins, Ltd.

LIMS Batch #: 202605
Digested by: NP
Date Digested: 9/6/2013

Digestion Method
☐ EPA 3010a for ICP
☒ EPA 200.7
☒ filtrate prep

BK3476
Page 28

Lvl.	Sample #	Container ID	Volume Sample(mL)	Final Volume (mL)	Filtered? (y/n)	ID Π	Comments
	Blk 2057 55		☒ 50 ☐	☒ 50 ☐	no	✓	filter Blk 9-6-13
	BS 54		☒ 50 ☐	☒ 50 ☐		✓	
	BSD 55		☒ 50 ☐	☒ 50 ☐		✓	
II	248701-001	E	☒ 50 ☐	☒ 50 ☐		✓	
5	-001		☒ 50 ☐	☒ 50 ☐		✓	
	-001		☒ 50 ☐	☒ 50 ☐		✓	
	-002		☒ 50 ☐	☒ 50 ☐		✓	
	-003		☒ 50 ☐	☒ 50 ☐		✓	
	-004		☒ 50 ☐	☒ 50 ☐		✓	
10	-005		☒ 50 ☐	☒ 50 ☐		✓	
	-008		☒ 50 ☐	☒ 50 ☐		✓	
	-009		☒ 50 ☐	☒ 50 ☐		✓	
	-010		☒ 50 ☐	☒ 50 ☐		✓	
II	248685-002	E	☒ 50 ☐	☒ 50 ☐		✓	
15	-001		☒ 50 ☐	☒ 50 ☐		✓	Verified pH<2
	-003		☒ 50 ☐	☒ 50 ☐		✓	
	-004		☒ 50 ☐	☒ 50 ☐		✓	Verified pH<2
	-005		☒ 50 ☐	☒ 50 ☐		✓	
	-006		☒ 50 ☐	☒ 50 ☐		✓	
20	-007		☒ 50 ☐	☒ 50 ☐		✓	Verified pH<2
	-008		☒ 50 ☐	☒ 50 ☐		✓	
			☐ 50 ☐	☐ 50 ☐			
			☐ 50 ☐	☐ 50 ☐			
			☐ 50 ☐	☐ 50 ☐			
	NCP 9/6/2013		☐ 50 ☐	☐ 50 ☐			

	Reagent ID or LIMS #	Initials / Date
Digestion tubes, lot #	165641	NCP 9/6/2013
0.5 mL of spike solution (Std1) was added to all spikes	S21655	
0.5 mL of spike solution (Std2) was added to all spikes	S21652	
Digestion Temperature (°C), Block and Probe Location	—	—
digestion begun at (time)	8:00pm	
Concentrated HNO3	8390	
1:1 HCl	183011-052213	
digestion ended at (time)	—	
☒ filtered thru' Whatman # 541	~~454305 whatman~~	
Relinquished to ICP group	ICAP	

Prep Chemist / Date 9/6/2013

Continued from page ∅
Continued on page ∅

Reviewed Online / See LIMS

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 249598
ANALYTICAL REPORT

Haley & Aldrich	Project : 39049-103
400 East Van Buren Street	Location : PGAS
Phoenix, CA 85004	Level : III

Sample ID	Lab ID
AST-INF	249598-001
AST-EFF	249598-002
GAC-02 INF	249598-003
GAC-02 EFF	249598-004
E-07R	249598-005
COG-20	249598-006
COG-11	249598-007
E-12	249598-008
E-17	249598-009
E-117	249598-010
TRIP BLANK	249598-011

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Isabelle Choy Date: 10/22/2013

Isabelle Choy
Project Manager
isabelle.choy@ctberk.com

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**249598**
Client:	**Haley & Aldrich**
Project:	**39049-103**
Location:	**PGAS**
Request Date:	**10/03/13**
Samples Received:	**10/03/13**

This data package contains sample and QC results for eleven water samples, requested for the above referenced project on 10/03/13. See attached cooler receipt form for any sample receipt problems or discrepancies.

Volatile Organics by GC/MS (EPA 8260B):
Chloroform was detected between the MDL and the RL in the method blank for batch 203729.

No other analytical problems were encountered.

Metals (EPA 6010B) Water:
No analytical problems were encountered.

Metals (EPA 6010B) Filtrate:
No analytical problems were encountered.

Chain of Custody

CHAIN OF CUSTODY

Curtis & Tompkins Laboratories
ENVIRONMENTAL ANALYTICAL TESTING LABORATORY
In Business Since 1878

2323 Fifth Street
Berkeley, CA 94710

Phone (510) 486-0900
Fax (510) 486-0532

Chain of Custody # _____

C&T LOGIN # 249598

Project No: 39049-103
Project Name: PGAS
Project P. O. No: 39049-103
EDD Format: Report Level ☐ II ☐ III ☐ IV
Turnaround Time: ☐ RUSH _____ ☒ Standard

Sampler: Mark Argall
Report To: Paula Chang
Company: H & A
Telephone: 602-760-2418
Email: pchang@haleyaldrich.com

Lab No.	Sample ID.	SAMPLING Date Collected	SAMPLING Time Collected	MATRIX Water	MATRIX Solid	# of Containers	CHEMICAL PRESERVATIVE HCl	H2SO4	HNO3	NaOH	None	ANALYTICAL REQUEST 8260B full list	8260B Halogenated only	6010B Total chrome	6010B Lab filtered & preserved dissolved chrome
1	ASF-Inf	10-2-13		X		5	X		X			X		X	X
2	ASF-Eff			X		5	X		X			X		X	X
3	GAC-02 Inf			X		5	X		X				X	X	X
4	GAC-02 Eff			X		5	X		X				X	X	X
5	E-07R			X		5	X		X				X	X	X
6	C06-20			X		3	X						X		
7	C06-11			X		3	X						X		
8	E-12			X		5	X		X				X	X	X
9	E-17			X		5	X		X				X	X	X
10	E-117			X		5	X		X				X	X	X
11	Trip Blank			X		3	X					X			
	Temp Blank			X		1									

Notes:
Lab filter & preserve 6010B dissolved chrome upon Receipt

SAMPLE RECEIPT
☐ Intact
☐ Cold
☐ On Ice
☐ Ambient

RELINQUISHED BY:
[signature] 10-2-13 DATE: TIME:
DATE: TIME:
DATE: TIME:

RECEIVED BY:
Tina Rankin 10/3/13 DATE: TIME: 800
DATE: TIME:
DATE: TIME:

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 249598 Date Received 10/3/13 Number of coolers 1
Client H&A Project PGAS (39049-103)

Date Opened 10/3/13 By (print) TR (sign) Tina Raika
Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc) FEDEX (YES) NO
   Shipping info 8009 7835 1952

2A. Were custody seals present? .... ☒ YES (circle) (on cooler) on samples ☐ NO
   How many 2 Name Signature Date 10/2/13
2B. Were custody seals intact upon arrival? (YES) NO N/A
3. Were custody papers dry and intact when received? (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? (YES) (NO)
5. Is the project identifiable from custody papers? (If so fill out top of form) (YES) NO
6. Indicate the packing in cooler: (if other, describe)

☐ Bubble Wrap ☒ Foam blocks ☒ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

   Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) 4.0

   ☐ Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

   ☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES (NO)
   If YES, what time were they transferred to freezer?
9. Did all bottles arrive unbroken/unopened? (YES) NO
10. Are there any missing / extra samples? YES (NO)
11. Are samples in the appropriate containers for indicated tests? (YES) NO
12. Are sample labels present, in good condition and complete? (YES) NO
13. Do the sample labels agree with custody papers? (YES) NO
14. Was sufficient amount of sample sent for tests requested? (YES) NO
15. Are the samples appropriately preserved? (YES) NO N/A
16. Did you check preservatives for all bottles for each sample? (YES) NO N/A
17. Did you document your preservative check? (YES) NO N/A
18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO (N/A)
19. Did you change the hold time in LIMS for preserved terracores? YES NO (N/A)
20. Are bubbles > 6mm absent in VOA samples? (YES) NO N/A
21. Was the client contacted concerning this sample delivery? YES (NO)
   If YES, Who was called? By Date:

COMMENTS sampling
#4) ~~Sampled~~ times for all samples are not on COC

Rev 10, 11/11

Curtis & Tompkins Sample Preservation for 249598

Sample	pH: <2	>9	>12	Other
-001a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____
-002a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____
-003a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____
-004a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____

Sample	pH: <2	>9	>12	Other
-005a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____
-008a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____
-009a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____
-010a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____

Analyst: JR
Date: 10/3/13

Laboratory Job Number 249598

ANALYTICAL REPORT

Volatile Organics by GC/MS

Matrix: Water

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	249598	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	AST-INF	Batch#:	203729
Lab ID:	249598-001	Sampled:	10/02/13
Matrix:	Water	Received:	10/03/13
Units:	ug/L	Analyzed:	10/04/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.1
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Acetone	ND	10	0.5
Freon 113	6.1	2.0	0.1
1,1-Dichloroethene	1.7	0.5	0.1
Methylene Chloride	ND	10	0.1
Carbon Disulfide	ND	0.5	0.1
MTBE	0.3 J	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
Vinyl Acetate	ND	10	0.2
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.2
cis-1,2-Dichloroethene	0.2 J	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	0.7	0.5	0.1
Bromochloromethane	ND	0.5	0.2
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	0.2 J	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	37	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.2
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	2.0	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.2
Bromoform	ND	1.0	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	249598	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	AST-INF	Batch#:	203729
Lab ID:	249598-001	Sampled:	10/02/13
Matrix:	Water	Received:	10/03/13
Units:	ug/L	Analyzed:	10/04/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.1
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.2
Naphthalene	ND	2.0	0.2
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-123
1,2-Dichloroethane-d4	117	76-138
Toluene-d8	95	80-120
Bromofluorobenzene	98	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	249598	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	AST-EFF	Batch#:	203729
Lab ID:	249598-002	Sampled:	10/02/13
Matrix:	Water	Received:	10/03/13
Units:	ug/L	Analyzed:	10/04/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.1
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Acetone	1.5 J	10	0.5
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.1
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
Vinyl Acetate	ND	10	0.2
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.2
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.2
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.2
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.2
Bromoform	ND	1.0	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	249598	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	AST-EFF	Batch#:	203729
Lab ID:	249598-002	Sampled:	10/02/13
Matrix:	Water	Received:	10/03/13
Units:	ug/L	Analyzed:	10/04/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.1
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.2
Naphthalene	ND	2.0	0.2
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-123
1,2-Dichloroethane-d4	112	76-138
Toluene-d8	94	80-120
Bromofluorobenzene	98	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	249598	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GAC-02 INF	Batch#:	203729
Lab ID:	249598-003	Sampled:	10/02/13
Matrix:	Water	Received:	10/03/13
Units:	ug/L	Analyzed:	10/04/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.2 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	3.3	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	119	76-138
Toluene-d8	95	80-120
Bromofluorobenzene	98	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	249598	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GAC-02 EFF	Batch#:	203729
Lab ID:	249598-004	Sampled:	10/02/13
Matrix:	Water	Received:	10/03/13
Units:	ug/L	Analyzed:	10/04/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.2 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	119	76-138
Toluene-d8	95	80-120
Bromofluorobenzene	98	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	249598	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	E-07R	Batch#:	203729
Lab ID:	249598-005	Sampled:	10/02/13
Matrix:	Water	Received:	10/03/13
Units:	ug/L	Analyzed:	10/04/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	13	2.0	0.1
1,1-Dichloroethene	3.6	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	0.2 J	0.5	0.1
cis-1,2-Dichloroethene	0.3 J	0.5	0.1
Chloroform	0.5 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	67	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	1.2	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	121	76-138
Toluene-d8	94	80-120
Bromofluorobenzene	99	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	249598	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	COG-20	Batch#:	203788
Lab ID:	249598-006	Sampled:	10/02/13
Matrix:	Water	Received:	10/03/13
Units:	ug/L	Analyzed:	10/07/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	2.0	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	0.6	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	0.6	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	0.4 J	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	0.6	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	117	76-138
Toluene-d8	88	80-120
Bromofluorobenzene	96	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	249598	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	COG-11	Batch#:	203788
Lab ID:	249598-007	Sampled:	10/02/13
Matrix:	Water	Received:	10/03/13
Units:	ug/L	Analyzed:	10/07/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	0.5	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	117	76-138
Toluene-d8	92	80-120
Bromofluorobenzene	98	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	249598	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	E-12	Units:	ug/L
Lab ID:	249598-008	Sampled:	10/02/13
Matrix:	Water	Received:	10/03/13

Analyte	Result	RL	MDL	Diln Fac	Batch#	Analyzed
Chloromethane	ND	1.0	0.1	1.000	203788	10/07/13
Vinyl Chloride	ND	0.5	0.1	1.000	203788	10/07/13
Bromomethane	ND	1.0	0.2	1.000	203788	10/07/13
Chloroethane	ND	1.0	0.1	1.000	203788	10/07/13
Trichlorofluoromethane	ND	1.0	0.1	1.000	203788	10/07/13
Freon 113	8.6	2.0	0.1	1.000	203788	10/07/13
1,1-Dichloroethene	1.1	0.5	0.1	1.000	203788	10/07/13
Methylene Chloride	ND	20	0.1	1.000	203788	10/07/13
trans-1,2-Dichloroethene	ND	0.5	0.1	1.000	203788	10/07/13
1,1-Dichloroethane	ND	0.5	0.1	1.000	203788	10/07/13
cis-1,2-Dichloroethene	1.5	0.5	0.1	1.000	203788	10/07/13
Chloroform	1.2	1.0	0.1	1.000	203788	10/07/13
1,1,1-Trichloroethane	ND	0.5	0.1	1.000	203788	10/07/13
Carbon Tetrachloride	0.1 J	0.5	0.1	1.000	203788	10/07/13
1,2-Dichloroethane	ND	0.5	0.1	1.000	203788	10/07/13
Trichloroethene	77	1.0	0.2	2.000	203729	10/04/13
1,2-Dichloropropane	ND	0.5	0.1	1.000	203788	10/07/13
Bromodichloromethane	ND	0.5	0.1	1.000	203788	10/07/13
cis-1,3-Dichloropropene	ND	0.5	0.1	1.000	203788	10/07/13
trans-1,3-Dichloropropene	ND	0.5	0.1	1.000	203788	10/07/13
1,1,2-Trichloroethane	ND	0.5	0.1	1.000	203788	10/07/13
Tetrachloroethene	2.0	0.5	0.1	1.000	203788	10/07/13
Dibromochloromethane	ND	0.5	0.1	1.000	203788	10/07/13
Chlorobenzene	ND	0.5	0.1	1.000	203788	10/07/13
Bromoform	ND	0.5	0.1	1.000	203788	10/07/13
1,1,2,2-Tetrachloroethane	ND	0.5	0.1	1.000	203788	10/07/13
1,3-Dichlorobenzene	ND	0.5	0.1	1.000	203788	10/07/13
1,4-Dichlorobenzene	ND	0.5	0.1	1.000	203788	10/07/13
1,2-Dichlorobenzene	ND	0.5	0.1	1.000	203788	10/07/13

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
1,2-Dichloroethane-d4	121	76-138	1.000	203788	10/07/13
Toluene-d8	93	80-120	1.000	203788	10/07/13
Bromofluorobenzene	97	80-125	1.000	203788	10/07/13

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	249598	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	E-17	Batch#:	203729
Lab ID:	249598-009	Sampled:	10/02/13
Matrix:	Water	Received:	10/03/13
Units:	ug/L	Analyzed:	10/04/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	6.4	2.0	0.1
1,1-Dichloroethene	1.5	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	1.0	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	0.4 J	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	29	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	3.3	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	116	76-138
Toluene-d8	94	80-120
Bromofluorobenzene	97	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	249598	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	E-117	Batch#:	203729
Lab ID:	249598-010	Sampled:	10/02/13
Matrix:	Water	Received:	10/03/13
Units:	ug/L	Analyzed:	10/04/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	6.0	2.0	0.1
1,1-Dichloroethene	1.5	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	1.1	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	0.4 J	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	29	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	3.3	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	120	76-138
Toluene-d8	94	80-120
Bromofluorobenzene	97	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	249598	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	TRIP BLANK	Batch#:	203729
Lab ID:	249598-011	Sampled:	10/02/13
Matrix:	Water	Received:	10/03/13
Units:	ug/L	Analyzed:	10/04/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.1
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Acetone	ND	10	0.5
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.1
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
Vinyl Acetate	ND	10	0.2
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.2
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	0.1 J	0.5	0.1
Bromochloromethane	ND	0.5	0.2
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.2
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.2
Bromoform	ND	1.0	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	249598	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	TRIP BLANK	Batch#:	203729
Lab ID:	249598-011	Sampled:	10/02/13
Matrix:	Water	Received:	10/03/13
Units:	ug/L	Analyzed:	10/04/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.1
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.2
Naphthalene	ND	2.0	0.2
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-123
1,2-Dichloroethane-d4	116	76-138
Toluene-d8	96	80-120
Bromofluorobenzene	97	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	249598	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	203729
Units:	ug/L	Analyzed:	10/04/13
Diln Fac:	1.000		

Type: BS Lab ID: QC710522

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	11.10	89	77-132
Trichloroethene	12.50	13.59	109	80-120
Chlorobenzene	12.50	13.38	107	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	115	76-138
Toluene-d8	96	80-120
Bromofluorobenzene	96	80-125

Type: BSD Lab ID: QC710523

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.38	11.03	89	77-132	0	20
Trichloroethene	12.38	13.48	109	80-120	0	20
Chlorobenzene	12.38	13.78	111	80-120	4	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	113	76-138
Toluene-d8	95	80-120
Bromofluorobenzene	96	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	249598	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	203729
Units:	ug/L	Analyzed:	10/04/13
Diln Fac:	1.000		

Type: BS Lab ID: QC710522

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	11.10	89	77-132
Benzene	12.50	12.71	102	80-122
Trichloroethene	12.50	13.59	109	80-120
Toluene	12.50	12.44	100	80-121
Chlorobenzene	12.50	13.38	107	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-123
1,2-Dichloroethane-d4	115	76-138
Toluene-d8	96	80-120
Bromofluorobenzene	96	80-125

Type: BSD Lab ID: QC710523

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.38	11.03	89	77-132	0	20
Benzene	12.38	13.01	105	80-122	3	20
Trichloroethene	12.38	13.48	109	80-120	0	20
Toluene	12.38	12.57	102	80-121	2	20
Chlorobenzene	12.38	13.78	111	80-120	4	20

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-123
1,2-Dichloroethane-d4	113	76-138
Toluene-d8	95	80-120
Bromofluorobenzene	96	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	249598	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC710524	Batch#:	203729
Matrix:	Water	Analyzed:	10/04/13
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.1 J	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	116	76-138
Toluene-d8	95	80-120
Bromofluorobenzene	97	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	249598	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC710524	Batch#:	203729
Matrix:	Water	Analyzed:	10/04/13
Units:	ug/L		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.1
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Acetone	ND	10	0.5
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.1
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
Vinyl Acetate	ND	10	0.2
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.2
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	0.1 J	0.5	0.1
Bromochloromethane	ND	0.5	0.2
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.2
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.2
Bromoform	ND	0.5	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	249598	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC710524	Batch#:	203729
Matrix:	Water	Analyzed:	10/04/13
Units:	ug/L		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.1
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.2
Naphthalene	ND	2.0	0.2
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-123
1,2-Dichloroethane-d4	116	76-138
Toluene-d8	95	80-120
Bromofluorobenzene	97	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	249598	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC710775	Batch#:	203788
Matrix:	Water	Analyzed:	10/07/13
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	112	76-138
Toluene-d8	93	80-120
Bromofluorobenzene	96	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	249598	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	203788
Units:	ug/L	Analyzed:	10/07/13
Diln Fac:	1.000		

Type: BS Lab ID: QC710776

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	20.00	16.86	84	77-132
Trichloroethene	20.00	20.97	105	80-120
Chlorobenzene	20.00	20.73	104	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	104	76-138
Toluene-d8	93	80-120
Bromofluorobenzene	97	80-125

Type: BSD Lab ID: QC710777

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	20.00	15.66	78	77-132	7	20
Trichloroethene	20.00	20.28	101	80-120	3	20
Chlorobenzene	20.00	20.16	101	80-120	3	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	106	76-138
Toluene-d8	93	80-120
Bromofluorobenzene	96	80-125

RPD= Relative Percent Difference

Initial & Continuing Calibration Data

CURTIS & TOMPKINS BFB TUNE FOR 249598 MSVOA Water
EPA 8260B

Inst : MSVOA11 Run Name : BFB IDF : 1.0
Seqnum : 833388163006 File : kiq06 Time : 26-SEP-2013 19:51

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	6411	20.75	
75	30% - 60% of mass 95	16447	53.23	
95		30896	100.00	
96	5% - 9% of mass 95	1810	5.86	
173	< 2% of mass 174	173	0.74	
174	> 50% and < 100% of mass 95	23333	75.52	
175	5% - 9% of mass 174	1905	8.16	
176	> 95% and < 101% of mass 174	22245	95.34	
177	5% - 9% of mass 176	1570	7.06	

Analyst: BO Date: 09/27/13 Reviewer: SJD Date: 09/30/13

CURTIS & TOMPKINS BFB TUNE FOR 249598 MSVOA Water
EPA 8260B

Inst : MSVOA11 Run Name : BFB IDF : 1.0
Seqnum : 833399405002 File : kj402 Time : 04-OCT-2013 09:10

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	2972	22.66	
75	30% - 60% of mass 95	7358	56.11	
95		13114	100.00	
96	5% - 9% of mass 95	1010	7.70	
173	< 2% of mass 174	66	0.63	
174	> 50% and < 100% of mass 95	10456	79.73	
175	5% - 9% of mass 174	888	8.49	
176	> 95% and < 101% of mass 174	10242	97.95	
177	5% - 9% of mass 176	740	7.23	

Analyst: BO Date: 10/04/13 Reviewer: LW Date: 10/07/13

CURTIS & TOMPKINS BFB TUNE FOR 249598 MSVOA Water
EPA 8260B

Inst : MSVOA11 Run Name : BFB IDF : 1.0
Seqnum : 833403830003 File : kj703 Time : 07-OCT-2013 11:22

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	6204	22.57	
75	30% - 60% of mass 95	15843	57.63	
95		27490	100.00	
96	5% - 9% of mass 95	1964	7.14	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	22685	82.52	
175	5% - 9% of mass 174	2010	8.86	
176	> 95% and < 101% of mass 174	22229	97.99	
177	5% - 9% of mass 176	1439	6.47	

Analyst: TEW Date: 10/07/13 Reviewer: LW Date: 10/07/13

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 249598 MSVOA Water: EPA 8260B

Inst : MSVOA11 Name : 8260GX11
Calnum : 833388163001 Date : 26-SEP-2013 21:25 Type : WATER
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	kiq09	833388163009	.25/.5PPB	26-SEP-2013 21:25	S22433 (2000000X), S23280 (2000000X), S23293 (2000000X), S22004 (1000000X), S23233 (2500X)
L2	kiq10	833388163010	0.5/1PPB	26-SEP-2013 21:56	S22433 (1000000X), S23280 (1000000X), S23293 (1000000X), S22004 (500000X), S23233 (2500X)
L3	kiq11	833388163011	2PPB	26-SEP-2013 22:24	S22433 (500000X), S23280 (250000X), S23293 (250000X), S22004 (250000X), S23233 (2500X)
L4	kiq12	833388163012	5PPB	26-SEP-2013 22:52	S22433 (200000X), S23280 (100000X), S23293 (100000X), S22004 (100000X), S23233 (2500X)
L5	kiq13	833388163013	10PPB	26-SEP-2013 23:23	S22433 (100000X), S23280 (50000X), S23293 (50000X), S22004 (50000X), S23233 (2500X)
L6	kiq14	833388163014	20PPB	26-SEP-2013 23:51	S22433 (50000X), S23280 (25000X), S23293 (25000X), S22004 (25000X), S23233 (2500X)
L7	kiq15	833388163015	50PPB	27-SEP-2013 00:19	S22433 (20000X), S23280 (10000X), S23293 (10000X), S22004 (10000X), S23233 (2500X)
L8	kiq16	833388163016	75PPB	27-SEP-2013 00:47	S22433 (13330X), S23280 (6667X), S23293 (6667X), S22004 (6667X), S23233 (2500X)
L9	kiq17	833388163017	100PPB	27-SEP-2013 01:16	S22433 (10000X), S23280 (5000X), S23293 (5000X), S22004 (5000X), S23233 (2500X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.7571m	0.7229	0.7207	0.6975	0.6830	0.7105	0.7436	0.7357	AVRG		1.38624		0.7214	3	15	0.05	0.99	
Chloromethane	1.0386m	0.9237	0.9226	0.9020	0.8633	0.8381	0.8424	0.8044	0.8131	AVRG		1.13233		0.8831	8	15	0.10	0.99	
Vinyl Chloride	0.8002	0.7618	0.7270	0.6976	0.7066	0.6857	0.7284	0.7176	0.7222	AVRG		1.37466		0.7275	5	15	0.05	0.99	
Bromomethane		0.1869	0.1494	0.1628m	0.1882	0.1967	0.2441			QUAD	0.28140	5.45963	-0.11356	0.1880	1.000	15	0.05	0.99	
Chloroethane		0.4371	0.4121	0.3994	0.3932	0.3714	0.3843	0.3747	0.3740	AVRG		2.54269		0.3933	6	15	0.05	0.99	
Trichlorofluoromethane		1.0156	0.9389	0.9367	0.8790	0.8936	0.9428	0.9466	0.9395	AVRG		1.06770		0.9366	4	15	0.05	0.99	
Acetone			0.2154	0.1717	0.1693	0.1522	0.1679	0.1585	0.1703	AVRG		5.80796		0.1722	12	15	0.05	0.99	
Freon 113		0.4681	0.4835	0.4606	0.4438	0.4423	0.4658	0.4542	0.4487	AVRG		2.18158		0.4584	3	15	0.05	0.99	
1,1-Dichloroethene		0.5144	0.4835	0.4380	0.4279	0.4234	0.4433	0.4354	0.4396	AVRG		2.21884		0.4507	7	15	0.05	0.99	
Methylene Chloride		0.6773	0.5890	0.5164	0.5289	0.5061	0.5228	0.5080	0.5206	AVRG		1.83104		0.5461	11	15	0.05	0.99	
Carbon Disulfide		1.5975	1.6377	1.5971	1.5750	1.5254	1.6078	1.5636	1.5807	AVRG		0.63067		1.5856	2	15	0.05	0.99	
MTBE		1.5692	1.5569	1.4942	1.4886	1.4830	1.5684	1.5425	1.5656	AVRG		0.65209		1.5335	2	15	0.05	0.99	
trans-1,2-Dichloroethene		0.5724	0.5324	0.4879	0.4881	0.4778	0.5003	0.4903	0.4939	AVRG		1.97874		0.5054	6	15	0.05	0.99	
Vinyl Acetate			0.8383m	0.7244	0.8377	0.7632	0.9131	0.9148	0.8718	AVRG		1.19386		0.8376	9	15	0.05	0.99	
1,1-Dichloroethane		1.1351	1.0996	1.0626	1.0650	1.0334	1.0930	1.0660	1.0655	AVRG		0.92805		1.0775	3	15	0.10	0.99	
2-Butanone			0.2483	0.2414	0.2501	0.2369	0.2486	0.2400	0.2492	AVRG		4.08251		0.2449	2	15	0.05	0.99	
2,2-Dichloropropane		0.9595	0.9470	0.8735	0.8660	0.8603	0.9021	0.8731	0.8719	AVRG		1.11835		0.8942	4	15	0.05	0.99	
cis-1,2-Dichloroethene		0.6243	0.5703	0.5367	0.5514	0.5264	0.5594	0.5500	0.5506	AVRG		1.79001		0.5587	5	15	0.05	0.99	
Chloroform		1.3463	1.1438	1.0537	0.9978	0.9767	1.0448	1.0054	1.0066	AVRG		0.93295		1.0719	11	15	0.05	0.99	
Bromochloromethane		0.2249	0.2549	0.2314	0.2498	0.2450	0.2570	0.2348	0.2245	AVRG		4.16169		0.2403	5	15	0.05	0.99	
1,1,1-Trichloroethane		1.0838	0.9701	0.9323	0.9238	0.9075	0.9673	0.9264	0.9229	AVRG		1.04795		0.9542	6	15	0.05	0.99	
1,1-Dichloropropene		0.4620	0.4919	0.4686	0.4597	0.4560	0.4927	0.4748	0.4806	AVRG		2.11294		0.4733	3	15	0.05	0.99	
Carbon Tetrachloride		0.5589	0.5426	0.5078	0.5050	0.4889	0.5418	0.5200	0.5196	AVRG		1.91178		0.5231	4	15	0.05	0.99	
1,2-Dichloroethane		0.5754	0.5395	0.5319	0.5488	0.5390	0.5695	0.5443	0.5427	AVRG		1.82191		0.5489	3	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		1.5908	1.4469	1.3854	1.3844	1.3515	1.4389	1.3936	1.4087	AVRG		0.70174		1.4250	5	15	0.05	0.99	
Trichloroethene		0.4310	0.3940	0.3698	0.3530	0.3573	0.3731	0.3615	0.3652	AVRG		2.66222		0.3756	7	15	0.05	0.99	
1,2-Dichloropropane		0.4080	0.4427	0.4091	0.4038m	0.4076	0.4304	0.4257	0.4287	AVRG		2.38377		0.4195	3	15	0.05	0.99	
Bromodichloromethane		0.5384	0.5278	0.5102	0.5058	0.5011	0.5357	0.5222	0.5244	AVRG		1.92051		0.5207	3	15	0.05	0.99	
Dibromomethane		0.2071	0.2274	0.2173	0.2093	0.2024	0.2177	0.2104	0.2152	AVRG		4.68716		0.2133	4	15	0.05	0.99	
4-Methyl-2-Pentanone			0.3360	0.3239	0.3264	0.3274	0.3467	0.3392	0.3470	AVRG		2.98327		0.3352	3	15	0.05	0.99	
cis-1,3-Dichloropropene		0.6519	0.6299	0.5691	0.5962	0.5898	0.6242	0.6172	0.6179	AVRG		1.63394		0.6120	4	15	0.05	0.99	
Toluene		1.1667	1.0165	0.9177	0.9306	0.8931	0.9547	0.9240	0.9198	AVRG		1.03585		0.9654	9	15	0.05	0.99	
trans-1,3-Dichloropropene		0.6450	0.6345	0.6002	0.5995	0.5905	0.6221	0.6066	0.6110	AVRG		1.62954		0.6137	3	15	0.05	0.99	
1,1,2-Trichloroethane		0.2101	0.1865	0.1836	0.1841	0.1807	0.1870	0.1812	0.1810	AVRG		5.35387		0.1868	5	15	0.05	0.99	
2-Hexanone			0.2751	0.2741	0.2623	0.2658	0.2746	0.2709	0.2739	AVRG		3.69055		0.2710	2	15	0.05	0.99	
1,3-Dichloropropane		0.6646	0.6217	0.5708	0.5798	0.5661	0.5887	0.5750	0.5743	AVRG		1.68742		0.5926	6	15	0.05	0.99	
Tetrachloroethene		0.4044	0.4038	0.3609	0.3610	0.3557	0.3886	0.3723	0.3705	AVRG		2.65149		0.3771	5	15	0.05	0.99	
Dibromochloromethane		0.4328	0.4186	0.3910	0.3862	0.3922	0.4073	0.3997	0.3975	AVRG		2.48039		0.4032	4	15	0.05	0.99	
1,2-Dibromoethane		0.3023	0.3495	0.3176	0.3199	0.3138	0.3281	0.3168	0.3188	AVRG		3.11692		0.3208	4	15	0.05	0.99	
Chlorobenzene		1.2624	1.1173	1.0360	1.0274	1.0070	1.0639	1.0314	1.0277	AVRG		0.93315		1.0716	8	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.4179	0.4172	0.3731	0.3727	0.3713	0.3911	0.3801	0.3805	AVRG		2.57752		0.3880	5	15	0.05	0.99	
Ethylbenzene		2.2020	1.9862	1.8642	1.8319	1.8395	1.9875	1.9149	1.9071	AVRG		0.51502		1.9417	6	15	0.05	0.99	
m,p-Xylenes	0.5866	0.8305	0.7195	0.6844	0.6786	0.6877	0.7343	0.7047	0.6990	AVRG		1.42285		0.7028	9	15	0.05	0.99	
o-Xylene		0.7982	0.6799	0.6437	0.6421	0.6575	0.7022	0.6879	0.6860	AVRG		1.45518		0.6872	7	15	0.05	0.99	
Styrene		1.3168	1.1539	1.1333	1.1169	1.1450	1.2300	1.2052	1.2007	AVRG		0.84196		1.1877	6	15	0.05	0.99	
Bromoform		0.2807	0.2727	0.2614	0.2598	0.2576	0.2740	0.2652	0.2686	AVRG		3.73845		0.2675	3	15	0.10	0.99	
Isopropylbenzene		4.0413	3.5352	3.3995	3.2312	3.3763	3.5793	3.5050	3.5158	AVRG		0.28385		3.5230	7	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		0.8882	0.8043	0.7751	0.7541	0.7403	0.7583	0.7379	0.7453	AVRG		1.28960		0.7754	7	15	0.30	0.99	
1,2,3-Trichloropropane		0.9875	0.8988	0.8044	0.7890	0.7873	0.8048	0.7758	0.7897	AVRG		1.20529		0.8297	9	15	0.05	0.99	
Propylbenzene		5.1614	4.5217	4.2687	4.1151	4.1488	4.4285	4.3108	4.3165	AVRG		0.22681		4.4089	8	15	0.05	0.99	
Bromobenzene		1.1204	0.9069	0.8682	0.8279	0.8186	0.8473	0.8355	0.8336	AVRG		1.13339		0.8823	11	15	0.05	0.99	
1,3,5-Trimethylbenzene		3.5497	3.1244	2.9390	2.8341	2.9243	3.1064	3.0173	3.0299	AVRG		0.32620		3.0656	7	15	0.05	0.99	
2-Chlorotoluene		3.4332	2.9664	2.8849	2.6934	2.7696	2.9215	2.8395	2.8570	AVRG		0.34239		2.9207	8	15	0.05	0.99	
4-Chlorotoluene		3.2297	2.7140	2.6298	2.4747	2.5556	2.7088	2.6203	2.6269	AVRG		0.37106		2.6950	9	15	0.05	0.99	
tert-Butylbenzene		2.9815	2.6618	2.5016	2.4073	2.4733	2.6508	2.6058	2.5925	AVRG		0.38324		2.6093	7	15	0.05	0.99	
1,2,4-Trimethylbenzene		3.5089	3.0912	3.0058	2.9112	2.9821	3.1735	3.0989	3.0924	AVRG		0.32175		3.1080	6	15	0.05	0.99	
sec-Butylbenzene		4.0758	3.9433	3.7553	3.6248	3.7161	4.0198	3.9075	3.9142	AVRG		0.25842		3.8696	4	15	0.05	0.99	
para-Isopropyl Toluene		3.6280	3.1352	3.0887	2.9870	3.0402	3.3072	3.2336	3.1913	AVRG		0.31236		3.2014	6	15	0.05	0.99	
1,3-Dichlorobenzene		1.9592	1.6623	1.5809	1.5430	1.5835	1.6477	1.6100	1.6188	AVRG		0.60581		1.6507	8	15	0.05	0.99	
1,4-Dichlorobenzene		2.0938	1.7544	1.6554	1.5891	1.5792	1.6530	1.6107	1.6143	AVRG		0.59041		1.6937	10	15	0.05	0.99	
n-Butylbenzene		3.4882	3.2663	3.0429	2.9463	3.0117	3.2166	3.1362	3.0756	AVRG		0.31766		3.1480	6	15	0.05	0.99	
1,2-Dichlorobenzene		1.8362	1.6109	1.5843	1.5020	1.5227	1.5754	1.5572	1.5520	AVRG		0.62791		1.5926	7	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.1901	0.2040	0.1761	0.1760	0.1636	0.1686	0.1658	0.1673	AVRG		5.66780		0.1764	8	15	0.05	0.99	
1,2,4-Trichlorobenzene		1.2964	1.0366	0.9567	0.9081	0.9441	0.9860	0.9728	0.9685	AVRG		0.99142		1.0087	12	15	0.05	0.99	
Hexachlorobutadiene		0.5166	0.5416	0.5444	0.5001	0.5104	0.5605	0.5425	0.5315	AVRG		1.88342		0.5309	4	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene		2.8598	2.1727	1.9932	1.9895	2.0718	2.1892	2.1805	2.1781	AVRG		0.45365		2.2043	13	15	0.05	0.99	
1,2,3-Trichlorobenzene		1.1161	0.9616	0.8794	0.8443	0.8755	0.9191	0.9098	0.9119	AVRG		1.07850		0.9272	9	15	0.05	0.99	
Dibromofluoromethane	0.5103	0.5143	0.5041	0.5040	0.4973	0.5010	0.5057	0.5032	0.4995	AVRG		1.98263		0.5044	1	15	0.05	0.99	
1,2-Dichloroethane-d4	0.4610	0.4677	0.4691	0.4691	0.4660	0.4681	0.4707	0.4670	0.4713	AVRG		2.13773		0.4678	1	15	0.05	0.99	
Toluene-d8	1.4312	1.4180	1.4194	1.4094	1.4165	1.4212	1.4037	1.4042	1.4071	AVRG		0.70696		1.4145	1	15	0.05	0.99	
Bromofluorobenzene	1.0077	1.0210	1.0125	1.0056	0.9901	1.0036	0.9780	0.9892	0.9939	AVRG		0.99983		1.0002	1	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Freon 12			1.0000	5	2.0000	0	5.0000	0	10.000	-3	20.000	-5	50.000	-2	75.000	3	100.00	2
Chloromethane	0.5000	18	1.0000	5	2.0000	4	5.0000	2	10.000	-2	20.000	-5	50.000	-5	75.000	-9	100.00	-8
Vinyl Chloride	0.5000	10	1.0000	5	2.0000	0	5.0000	-4	10.000	-3	20.000	-6	50.000	0	75.000	-1	100.00	-1
Bromomethane			1.0000	**30**	2.0000	-5	5.0000	-7	10.000	2	20.000	0	50.000	0				
Chloroethane			1.0000	11	2.0000	5	5.0000	2	10.000	0	20.000	-6	50.000	-2	75.000	-5	100.00	-5
Trichlorofluoromethane			1.0000	8	2.0000	0	5.0000	0	10.000	-6	20.000	-5	50.000	1	75.000	1	100.00	0
Acetone					2.0000	**25**	5.0000	0	10.000	-2	20.000	-12	50.000	-2	75.000	-8	100.00	-1
Freon 113			0.5000	2	2.0000	5	5.0000	0	10.000	-3	20.000	-4	50.000	2	75.000	-1	100.00	-2
1,1-Dichloroethene			0.5000	14	2.0000	7	5.0000	-3	10.000	-5	20.000	-6	50.000	-2	75.000	-3	100.00	-2
Methylene Chloride			0.5000	**24**	2.0000	8	5.0000	-5	10.000	-3	20.000	-7	50.000	-4	75.000	-7	100.00	-5
Carbon Disulfide			0.5000	1	2.0000	3	5.0000	1	10.000	-1	20.000	-4	50.000	1	75.000	-1	100.00	0
MTBE			0.5000	2	2.0000	2	5.0000	-3	10.000	-3	20.000	-3	50.000	2	75.000	1	100.00	2
trans-1,2-Dichloroethene			0.5000	13	2.0000	5	5.0000	-3	10.000	-3	20.000	-5	50.000	-1	75.000	-3	100.00	-2
Vinyl Acetate					2.0000	0	5.0000	-14	10.000	0	20.000	-9	50.000	9	75.000	9	100.00	4
1,1-Dichloroethane			0.5000	5	2.0000	2	5.0000	-1	10.000	-1	20.000	-4	50.000	1	75.000	-1	100.00	-1
2-Butanone					2.0000	1	5.0000	-1	10.000	2	20.000	-3	50.000	2	75.000	-2	100.00	2
2,2-Dichloropropane			0.5000	7	2.0000	6	5.0000	-2	10.000	-3	20.000	-4	50.000	1	75.000	-2	100.00	-2
cis-1,2-Dichloroethene			0.5000	12	2.0000	2	5.0000	-4	10.000	-1	20.000	-6	50.000	0	75.000	-2	100.00	-1
Chloroform			0.5000	**26**	2.0000	7	5.0000	-2	10.000	-7	20.000	-9	50.000	-3	75.000	-6	100.00	-6
Bromochloromethane			0.5000	-6	2.0000	6	5.0000	-4	10.000	4	20.000	2	50.000	7	75.000	-2	100.00	-7
1,1,1-Trichloroethane			0.5000	14	2.0000	2	5.0000	-2	10.000	-3	20.000	-5	50.000	1	75.000	-3	100.00	-3
1,1-Dichloropropene			0.5000	-2	2.0000	4	5.0000	-1	10.000	-3	20.000	-4	50.000	4	75.000	0	100.00	2
Carbon Tetrachloride			0.5000	7	2.0000	4	5.0000	-3	10.000	-3	20.000	-7	50.000	4	75.000	-1	100.00	-1
1,2-Dichloroethane			0.5000	5	2.0000	-2	5.0000	-3	10.000	0	20.000	-2	50.000	4	75.000	-1	100.00	-1
Benzene			0.5000	12	2.0000	2	5.0000	-3	10.000	-3	20.000	-5	50.000	1	75.000	-2	100.00	-1
Trichloroethene			0.5000	15	2.0000	5	5.0000	-2	10.000	-6	20.000	-5	50.000	-1	75.000	-4	100.00	-3
1,2-Dichloropropane			0.5000	-3	2.0000	6	5.0000	-2	10.000	-4	20.000	-3	50.000	3	75.000	1	100.00	2
Bromodichloromethane			0.5000	3	2.0000	1	5.0000	-2	10.000	-3	20.000	-4	50.000	3	75.000	0	100.00	1
Dibromomethane			0.5000	-3	2.0000	7	5.0000	2	10.000	-2	20.000	-5	50.000	2	75.000	-1	100.00	1
4-Methyl-2-Pentanone					2.0000	0	5.0000	-3	10.000	-3	20.000	-2	50.000	3	75.000	1	100.00	4
cis-1,3-Dichloropropene			0.5000	7	2.0000	3	5.0000	-7	10.000	-3	20.000	-4	50.000	2	75.000	1	100.00	1
Toluene			0.5000	**21**	2.0000	5	5.0000	-5	10.000	-4	20.000	-7	50.000	-1	75.000	-4	100.00	-5
trans-1,3-Dichloropropene			0.5000	5	2.0000	3	5.0000	-2	10.000	-2	20.000	-4	50.000	1	75.000	-1	100.00	0
1,1,2-Trichloroethane			0.5000	13	2.0000	0	5.0000	-2	10.000	-1	20.000	-3	50.000	0	75.000	-3	100.00	-3
2-Hexanone					2.0000	2	5.0000	1	10.000	-3	20.000	-2	50.000	1	75.000	0	100.00	1
1,3-Dichloropropane			0.5000	12	2.0000	5	5.0000	-4	10.000	-2	20.000	-4	50.000	-1	75.000	-3	100.00	-3
Tetrachloroethene			0.5000	7	2.0000	7	5.0000	-4	10.000	-4	20.000	-6	50.000	3	75.000	-1	100.00	-2
Dibromochloromethane			0.5000	7	2.0000	4	5.0000	-3	10.000	-4	20.000	-3	50.000	1	75.000	-1	100.00	-1
1,2-Dibromoethane			0.5000	-6	2.0000	9	5.0000	-1	10.000	0	20.000	-2	50.000	2	75.000	-1	100.00	-1
Chlorobenzene			0.5000	18	2.0000	4	5.0000	-3	10.000	-4	20.000	-6	50.000	-1	75.000	-4	100.00	-4
1,1,1,2-Tetrachloroethane			0.5000	8	2.0000	8	5.0000	-4	10.000	-4	20.000	-4	50.000	1	75.000	-2	100.00	-2
Ethylbenzene			0.5000	13	2.0000	2	5.0000	-4	10.000	-6	20.000	-5	50.000	2	75.000	-1	100.00	-2

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
m,p-Xylenes	0.5000	-17	1.0000	18	4.0000	2	10.000	-3	20.000	-3	40.000	-2	100.00	4	150.00	0	200.00	-1
o-Xylene			0.5000	16	2.0000	-1	5.0000	-6	10.000	-7	20.000	-4	50.000	2	75.000	0	100.00	0
Styrene			0.5000	11	2.0000	-3	5.0000	-5	10.000	-6	20.000	-4	50.000	4	75.000	1	100.00	1
Bromoform			0.5000	5	2.0000	2	5.0000	-2	10.000	-3	20.000	-4	50.000	2	75.000	-1	100.00	0
Isopropylbenzene			0.5000	15	2.0000	0	5.0000	-4	10.000	-8	20.000	-4	50.000	2	75.000	-1	100.00	0
1,1,2,2-Tetrachloroethane			0.5000	15	2.0000	4	5.0000	0	10.000	-3	20.000	-5	50.000	-2	75.000	-5	100.00	-4
1,2,3-Trichloropropane			0.5000	19	2.0000	8	5.0000	-3	10.000	-5	20.000	-5	50.000	-3	75.000	-6	100.00	-5
Propylbenzene			0.5000	17	2.0000	3	5.0000	-3	10.000	-7	20.000	-6	50.000	0	75.000	-2	100.00	-2
Bromobenzene			0.5000	**27**	2.0000	3	5.0000	-2	10.000	-6	20.000	-7	50.000	-4	75.000	-5	100.00	-6
1,3,5-Trimethylbenzene			0.5000	16	2.0000	2	5.0000	-4	10.000	-8	20.000	-5	50.000	1	75.000	-2	100.00	-1
2-Chlorotoluene			0.5000	18	2.0000	2	5.0000	-1	10.000	-8	20.000	-5	50.000	0	75.000	-3	100.00	-2
4-Chlorotoluene			0.5000	20	2.0000	1	5.0000	-2	10.000	-8	20.000	-5	50.000	1	75.000	-3	100.00	-3
tert-Butylbenzene			0.5000	14	2.0000	2	5.0000	-4	10.000	-8	20.000	-5	50.000	2	75.000	0	100.00	-1
1,2,4-Trimethylbenzene			0.5000	13	2.0000	-1	5.0000	-3	10.000	-6	20.000	-4	50.000	2	75.000	0	100.00	-1
sec-Butylbenzene			0.5000	5	2.0000	2	5.0000	-3	10.000	-6	20.000	-4	50.000	4	75.000	1	100.00	1
para-Isopropyl Toluene			0.5000	13	2.0000	-2	5.0000	-4	10.000	-7	20.000	-5	50.000	3	75.000	1	100.00	0
1,3-Dichlorobenzene			0.5000	19	2.0000	1	5.0000	-4	10.000	-7	20.000	-4	50.000	0	75.000	-2	100.00	-2
1,4-Dichlorobenzene			0.5000	**24**	2.0000	4	5.0000	-2	10.000	-6	20.000	-7	50.000	-2	75.000	-5	100.00	-5
n-Butylbenzene			0.5000	11	2.0000	4	5.0000	-3	10.000	-6	20.000	-4	50.000	2	75.000	0	100.00	-2
1,2-Dichlorobenzene			0.5000	15	2.0000	1	5.0000	-1	10.000	-6	20.000	-4	50.000	-1	75.000	-2	100.00	-3
1,2-Dibromo-3-Chloropropane			0.5000	8	2.0000	16	5.0000	0	10.000	0	20.000	-7	50.000	-4	75.000	-6	100.00	-5
1,2,4-Trichlorobenzene			0.5000	**29**	2.0000	3	5.0000	-5	10.000	-10	20.000	-6	50.000	-2	75.000	-4	100.00	-4
Hexachlorobutadiene			0.5000	-3	2.0000	2	5.0000	3	10.000	-6	20.000	-4	50.000	6	75.000	2	100.00	0
Naphthalene			0.5000	**30**	2.0000	-1	5.0000	-10	10.000	-10	20.000	-6	50.000	-1	75.000	-1	100.00	-1
1,2,3-Trichlorobenzene			0.5000	20	2.0000	4	5.0000	-5	10.000	-9	20.000	-6	50.000	-1	75.000	-2	100.00	-2
Dibromofluoromethane	50.000	1	50.000	2	50.000	0	50.000	0	50.000	-1	50.000	-1	50.000	0	50.000	0	50.000	-1
1,2-Dichloroethane-d4	50.000	-1	50.000	0	50.000	0	50.000	0	50.000	0	50.000	0	50.000	1	50.000	0	50.000	1
Toluene-d8	50.000	1	50.000	0	50.000	0	50.000	0	50.000	0	50.000	0	50.000	-1	50.000	-1	50.000	-1
Bromofluorobenzene	50.000	1	50.000	2	50.000	1	50.000	1	50.000	-1	50.000	0	50.000	-2	50.000	-1	50.000	-1

BO 09/27/13 [Freon 12]: Corrected fronting or tailing peak integration1PPB (kiq10).

BO 09/27/13 [Chloromethane]: Corrected fronting or tailing peak integration.5PPB (kiq09).

BO 09/27/13 [Vinyl Acetate]: Corrected automatically drawn baseline in 2PPB (kiq11).

BO 09/27/13 [1,2-Dichloropropane]: Separated from coeluting peak in 10PPB (kiq13).

BO 09/27/13 [Bromomethane]: Corrected fronting or tailing peak integration in 5PPB (kiq12).

Analyst: BO Date: 09/30/13 Reviewer: SJD Date: 09/30/13

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; QUAD=Quadratic regression

833388163001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 249598 MSVOA Water
EPA 8260B

Inst : MSVOA11 Name : 8260GX11
Calnum : 833388163001 Cal Date : 26-SEP-2013 Type : WATER

ICV 833388163018 (kiq18 27-SEP-2013) stds: S22793 (10000X), S23233 (2500X)
ICV 833388163019 (kiq19 27-SEP-2013) stds: S23157 (10000X), S23288 (10000X), S23215 (10000X), S23233 (2500X)

Analyte	ICV Seqnum	Spiked	Quant	Units	%D	Max	Flags
Freon 12	833388163018	20.00	19.50	ug/L	-2	30	
Chloromethane	833388163018	20.00	17.83	ug/L	-11	30	
Vinyl Chloride	833388163018	20.00	18.60	ug/L	-7	20	
Bromomethane	833388163018	20.00	16.48	ug/L	-18	30	
Chloroethane	833388163018	20.00	19.27	ug/L	-4	30	
Trichlorofluoromethane	833388163018	20.00	18.55	ug/L	-7	30	
Acetone	833388163019	25.00	22.12	ug/L	-12	40	
Freon 113	833388163019	25.00	23.77	ug/L	-5	30	
1,1-Dichloroethene	833388163019	25.00	22.68	ug/L	-9	20	
Methylene Chloride	833388163019	25.00	23.44	ug/L	-6	30	
Carbon Disulfide	833388163019	25.00	25.12	ug/L	0	30	
MTBE	833388163019	25.00	24.26	ug/L	-3	30	
trans-1,2-Dichloroethene	833388163019	25.00	24.58	ug/L	-2	30	
Vinyl Acetate	833388163019	25.00	26.17	ug/L	5	40	
1,1-Dichloroethane	833388163019	25.00	22.45	ug/L	-10	30	
2-Butanone	833388163019	25.00	24.26	ug/L	-3	40	
2,2-Dichloropropane	833388163019	25.00	21.91	ug/L	-12	30	
cis-1,2-Dichloroethene	833388163019	25.00	25.29	ug/L	1	30	
Chloroform	833388163019	25.00	21.98	ug/L	-12	20	
Bromochloromethane	833388163019	25.00	23.19	ug/L	-7	30	
1,1,1-Trichloroethane	833388163019	25.00	22.77	ug/L	-9	30	
1,1-Dichloropropene	833388163019	25.00	26.20	ug/L	5	30	
Carbon Tetrachloride	833388163019	25.00	22.32	ug/L	-11	30	
1,2-Dichloroethane	833388163019	25.00	24.61	ug/L	-2	30	
Benzene	833388163019	25.00	24.58	ug/L	-2	30	
Trichloroethene	833388163019	25.00	25.22	ug/L	1	30	
1,2-Dichloropropane	833388163019	25.00	24.02	ug/L	-4	20	
Bromodichloromethane	833388163019	25.00	23.45	ug/L	-6	30	
Dibromomethane	833388163019	25.00	22.51	ug/L	-10	30	
4-Methyl-2-Pentanone	833388163019	25.00	24.54	ug/L	-2	40	
cis-1,3-Dichloropropene	833388163019	25.00	26.85	ug/L	7	30	
Toluene	833388163019	25.00	24.64	ug/L	-1	20	
trans-1,3-Dichloropropene	833388163019	25.00	25.15	ug/L	1	30	
1,1,2-Trichloroethane	833388163019	25.00	25.10	ug/L	0	30	
2-Hexanone	833388163019	25.00	23.92	ug/L	-4	40	
1,3-Dichloropropane	833388163019	25.00	24.74	ug/L	-1	30	
Tetrachloroethene	833388163019	25.00	22.82	ug/L	-9	30	
Dibromochloromethane	833388163019	25.00	24.24	ug/L	-3	30	
1,2-Dibromoethane	833388163019	25.00	25.48	ug/L	2	30	
Chlorobenzene	833388163019	25.00	25.66	ug/L	3	30	
1,1,1,2-Tetrachloroethane	833388163019	25.00	25.10	ug/L	0	30	
Ethylbenzene	833388163019	25.00	25.04	ug/L	0	20	
m,p-Xylenes	833388163019	50.00	52.62	ug/L	5	30	
o-Xylene	833388163019	25.00	26.33	ug/L	5	30	
Styrene	833388163019	25.00	25.39	ug/L	2	30	
Bromoform	833388163019	25.00	22.90	ug/L	-8	30	
Isopropylbenzene	833388163019	25.00	26.12	ug/L	4	30	

Analyte	ICV Seqnum	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	833388163019	25.00	24.37	ug/L	-3	30	
1,2,3-Trichloropropane	833388163019	25.00	24.64	ug/L	-1	30	
Propylbenzene	833388163019	25.00	25.59	ug/L	2	30	
Bromobenzene	833388163019	25.00	24.18	ug/L	-3	30	
1,3,5-Trimethylbenzene	833388163019	25.00	26.03	ug/L	4	30	
2-Chlorotoluene	833388163019	25.00	26.43	ug/L	6	30	
4-Chlorotoluene	833388163019	25.00	25.37	ug/L	1	30	
tert-Butylbenzene	833388163019	25.00	26.32	ug/L	5	30	
1,2,4-Trimethylbenzene	833388163019	25.00	25.43	ug/L	2	30	
sec-Butylbenzene	833388163019	25.00	26.76	ug/L	7	30	
para-Isopropyl Toluene	833388163019	25.00	23.84	ug/L	-5	30	
1,3-Dichlorobenzene	833388163019	25.00	25.61	ug/L	2	30	
1,4-Dichlorobenzene	833388163019	25.00	24.47	ug/L	-2	30	
n-Butylbenzene	833388163019	25.00	24.81	ug/L	-1	30	
1,2-Dichlorobenzene	833388163019	25.00	25.81	ug/L	3	30	
1,2-Dibromo-3-Chloropropane	833388163019	25.00	23.97	ug/L	-4	30	
1,2,4-Trichlorobenzene	833388163019	25.00	24.39	ug/L	-2	30	
Hexachlorobutadiene	833388163019	25.00	25.30	ug/L	1	30	
Naphthalene	833388163019	25.00	24.61	ug/L	-2	30	
1,2,3-Trichlorobenzene	833388163019	25.00	24.50	ug/L	-2	30	

833388163018: Analyst: SJD Date: 09/30/13 Reviewer: BO Date: 09/30/13
833388163019: Analyst: SJD Date: 09/30/13 Reviewer: BO Date: 09/30/13

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 249598 MSVOA Water
EPA 8260B

Inst : MSVOA11 Run Name : 20PPB IDF : 1.0
Seqnum : 833399405003 File : kj403 Time : 04-OCT-2013 09:24
Cal : 833388163001 Caldate : 26-SEP-2013 Caltype : WATER
Standards: S23280 (25000X), S21950 (25000X), S23293 (25000X), S22433 (50000X), S23233 (2500X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.7214	0.7962	20.00	22.07	ug/L	10	30	0.0500	
Chloromethane	0.8831	0.6294	20.00	14.25	ug/L	**-29**	30	0.1000	!c-
Vinyl Chloride	0.7275	0.6509	20.00	17.89	ug/L	-11	20	0.0500	
Bromomethane	0.1880	0.1358	20.00	14.28	ug/L	**-29**	30	0.0500	!c-
Chloroethane	0.3933	0.3420	20.00	17.39	ug/L	-13	30	0.0500	
Trichlorofluoromethane	0.9366	1.0204	20.00	21.79	ug/L	9	30	0.0500	
Acetone	0.1722	0.1830	20.00	21.26	ug/L	6	40	0.0500	
Freon 113	0.4584	0.3782	20.00	16.50	ug/L	-17	30	0.0500	
1,1-Dichloroethene	0.4507	0.3733	20.00	16.57	ug/L	-17	20	0.0500	
Methylene Chloride	0.5461	0.4836	20.00	17.71	ug/L	-11	30	0.0500	
Carbon Disulfide	1.5856	1.2874	20.00	16.24	ug/L	-19	30	0.0500	
MTBE	1.5335	1.6544	20.00	21.58	ug/L	8	30	0.0500	
trans-1,2-Dichloroethene	0.5054	0.4522	20.00	17.90	ug/L	-11	30	0.0500	
Vinyl Acetate	0.8376	0.8653	20.00	20.66	ug/L	3	40	0.0500	
1,1-Dichloroethane	1.0775	1.0071	20.00	18.69	ug/L	-7	30	0.1000	
2-Butanone	0.2449	0.2608	20.00	21.30	ug/L	6	40	0.0500	
2,2-Dichloropropane	0.8942	0.9061	20.00	20.27	ug/L	1	30	0.0500	
cis-1,2-Dichloroethene	0.5587	0.5187	20.00	18.57	ug/L	-7	30	0.0500	
Chloroform	1.0719	1.0285	20.00	19.19	ug/L	-4	20	0.0500	
Bromochloromethane	0.2403	0.2576	20.00	21.44	ug/L	7	30	0.0500	
1,1,1-Trichloroethane	0.9542	0.9369	20.00	19.64	ug/L	-2	30	0.0500	
1,1-Dichloropropene	0.4733	0.4210	20.00	17.79	ug/L	-11	30	0.0500	
Carbon Tetrachloride	0.5231	0.5177	20.00	19.79	ug/L	-1	30	0.0500	
1,2-Dichloroethane	0.5489	0.6185	20.00	22.54	ug/L	13	30	0.0500	
Benzene	1.4250	1.3004	20.00	18.25	ug/L	-9	30	0.0500	
Trichloroethene	0.3756	0.3415	20.00	18.18	ug/L	-9	30	0.0500	
1,2-Dichloropropane	0.4195	0.3823	20.00	18.23	ug/L	-9	20	0.0500	
Bromodichloromethane	0.5207	0.5384	20.00	20.68	ug/L	3	30	0.0500	
Dibromomethane	0.2133	0.2267	20.00	21.25	ug/L	6	30	0.0500	
4-Methyl-2-Pentanone	0.3352	0.3693	20.00	22.03	ug/L	10	40	0.0500	
cis-1,3-Dichloropropene	0.6120	0.6103	20.00	19.95	ug/L	0	30	0.0500	
Toluene	0.9654	0.8338	20.00	17.27	ug/L	-14	20	0.0500	
trans-1,3-Dichloropropene	0.6137	0.6126	20.00	19.96	ug/L	0	30	0.0500	
1,1,2-Trichloroethane	0.1868	0.1744	20.00	18.67	ug/L	-7	30	0.0500	
2-Hexanone	0.2710	0.2705	20.00	19.97	ug/L	0	40	0.0500	
1,3-Dichloropropane	0.5926	0.5571	20.00	18.80	ug/L	-6	30	0.0500	
Tetrachloroethene	0.3771	0.3368	20.00	17.86	ug/L	-11	30	0.0500	
Dibromochloromethane	0.4032	0.4142	20.00	20.55	ug/L	3	30	0.0500	
1,2-Dibromoethane	0.3208	0.3268	20.00	20.37	ug/L	2	30	0.0500	
Chlorobenzene	1.0716	0.9776	20.00	18.25	ug/L	-9	30	0.3000	
1,1,1,2-Tetrachloroethane	0.3880	0.3855	20.00	19.87	ug/L	-1	30	0.0500	
Ethylbenzene	1.9417	1.7096	20.00	17.61	ug/L	-12	20	0.0500	
m,p-Xylenes	0.7028	0.6496	40.00	36.97	ug/L	-8	30	0.0500	
o-Xylene	0.6872	0.6345	20.00	18.47	ug/L	-8	30	0.0500	
Styrene	1.1877	1.1237	20.00	18.92	ug/L	-5	30	0.0500	
Bromoform	0.2675	0.3000	20.00	22.43	ug/L	12	30	0.1000	
Isopropylbenzene	3.5230	2.9680	20.00	16.85	ug/L	-16	30	0.0500	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	0.7754	0.7542	20.00	19.45	ug/L	-3	30	0.3000	
1,2,3-Trichloropropane	0.8297	0.8084	20.00	19.49	ug/L	-3	30	0.0500	
Propylbenzene	4.4089	3.6550	20.00	16.58	ug/L	-17	30	0.0500	
Bromobenzene	0.8823	0.8021	20.00	18.18	ug/L	-9	30	0.0500	
1,3,5-Trimethylbenzene	3.0656	2.7026	20.00	17.63	ug/L	-12	30	0.0500	
2-Chlorotoluene	2.9207	2.5826	20.00	17.68	ug/L	-12	30	0.0500	
4-Chlorotoluene	2.6950	2.3993	20.00	17.81	ug/L	-11	30	0.0500	
tert-Butylbenzene	2.6093	2.2410	20.00	17.18	ug/L	-14	30	0.0500	
1,2,4-Trimethylbenzene	3.1080	2.7936	20.00	17.98	ug/L	-10	30	0.0500	
sec-Butylbenzene	3.8696	3.2482	20.00	16.79	ug/L	-16	30	0.0500	
para-Isopropyl Toluene	3.2014	2.7824	20.00	17.38	ug/L	-13	30	0.0500	
1,3-Dichlorobenzene	1.6507	1.5359	20.00	18.61	ug/L	-7	30	0.0500	
1,4-Dichlorobenzene	1.6937	1.5650	20.00	18.48	ug/L	-8	30	0.0500	
n-Butylbenzene	3.1480	2.6553	20.00	16.87	ug/L	-16	30	0.0500	
1,2-Dichlorobenzene	1.5926	1.4893	20.00	18.70	ug/L	-6	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1764	0.1956	20.00	22.17	ug/L	11	30	0.0500	
1,2,4-Trichlorobenzene	1.0087	0.9738	20.00	19.31	ug/L	-3	30	0.0500	
Hexachlorobutadiene	0.5309	0.5171	20.00	19.48	ug/L	-3	30	0.0500	
Naphthalene	2.2043	2.2074	20.00	20.03	ug/L	0	30	0.0500	
1,2,3-Trichlorobenzene	0.9272	0.9321	20.00	20.11	ug/L	1	30	0.0500	
Dibromofluoromethane	0.5044	0.5162	50.00	51.18	ug/L	2	30	0.0500	
1,2-Dichloroethane-d4	0.4678	0.5508	50.00	58.87	ug/L	18	30	0.0500	
Toluene-d8	1.4145	1.3561	50.00	47.94	ug/L	-4	30	0.0500	
Bromofluorobenzene	1.0002	0.9659	50.00	48.29	ug/L	-3	30	0.0500	

ISTD (ICAL kiq15)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	310780	227251	-26.88	10.25	10.25	0.00
1,4-Difluorobenzene	495907	362329	-26.94	11.20	11.20	0.00
Chlorobenzene-d5	467457	357970	-23.42	14.34	14.34	0.00
1,4-Dichlorobenzene-d4	255875	201136	-21.39	16.56	16.56	0.00

Analyst: BO Date: 10/04/13 Reviewer: LW Date: 10/07/13

!=warning -=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 249598 MSVOA Water
EPA 8260B

Inst : MSVOA11 Run Name : 30PPB IDF : 1.0
Seqnum : 833403830004 File : kj704 Time : 07-OCT-2013 11:45
Cal : 833388163001 Caldate : 26-SEP-2013 Caltype : WATER
Standards: S23280 (16670X), S21950 (16670X), S23293 (16670X), S22433 (33330X), S23233 (2500X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.7214	0.7350	30.00	30.57	ug/L	2	30	0.0500	m
Chloromethane	0.8831	0.6484	30.00	22.03	ug/L	**-27**	30	0.1000	!c-
Vinyl Chloride	0.7275	0.6948	30.00	28.66	ug/L	-4	20	0.0500	
Bromomethane	0.1880	0.1997	30.00	28.92	ug/L	-4	30	0.0500	
Chloroethane	0.3933	0.3752	30.00	28.62	ug/L	-5	30	0.0500	
Trichlorofluoromethane	0.9366	1.0874	30.00	34.83	ug/L	16	30	0.0500	
Acetone	0.1722	0.2309	30.00	40.23	ug/L	**34**	40	0.0500	!c+
Freon 113	0.4584	0.4410	30.00	28.86	ug/L	-4	30	0.0500	
1,1-Dichloroethene	0.4507	0.4239	30.00	28.22	ug/L	-6	20	0.0500	
Methylene Chloride	0.5461	0.5301	30.00	29.12	ug/L	-3	30	0.0500	
Carbon Disulfide	1.5856	1.4490	30.00	27.42	ug/L	-9	30	0.0500	
MTBE	1.5335	1.8247	30.00	35.70	ug/L	19	30	0.0500	
trans-1,2-Dichloroethene	0.5054	0.5041	30.00	29.93	ug/L	0	30	0.0500	
Vinyl Acetate	0.8376	1.0290	30.00	36.86	ug/L	**23**	40	0.0500	!c+
1,1-Dichloroethane	1.0775	1.0970	30.00	30.54	ug/L	2	30	0.1000	
2-Butanone	0.2449	0.3127	30.00	38.29	ug/L	**28**	40	0.0500	!c+
2,2-Dichloropropane	0.8942	1.0057	30.00	33.74	ug/L	12	30	0.0500	
cis-1,2-Dichloroethene	0.5587	0.5900	30.00	31.68	ug/L	6	30	0.0500	
Chloroform	1.0719	1.1221	30.00	31.41	ug/L	5	20	0.0500	
Bromochloromethane	0.2403	0.2794	30.00	34.89	ug/L	16	30	0.0500	
1,1,1-Trichloroethane	0.9542	1.0176	30.00	31.99	ug/L	7	30	0.0500	
1,1-Dichloropropene	0.4733	0.4688	30.00	29.72	ug/L	-1	30	0.0500	
Carbon Tetrachloride	0.5231	0.5550	30.00	31.83	ug/L	6	30	0.0500	
1,2-Dichloroethane	0.5489	0.6262	30.00	34.22	ug/L	14	30	0.0500	
Benzene	1.4250	1.4147	30.00	29.78	ug/L	-1	30	0.0500	
Trichloroethene	0.3756	0.3704	30.00	29.59	ug/L	-1	30	0.0500	
1,2-Dichloropropane	0.4195	0.4192	30.00	29.98	ug/L	0	20	0.0500	
Bromodichloromethane	0.5207	0.5715	30.00	32.93	ug/L	10	30	0.0500	
Dibromomethane	0.2133	0.2360	30.00	33.19	ug/L	11	30	0.0500	
4-Methyl-2-Pentanone	0.3352	0.4085	30.00	36.56	ug/L	**22**	40	0.0500	!c+
cis-1,3-Dichloropropene	0.6120	0.6536	30.00	32.04	ug/L	7	30	0.0500	
Toluene	0.9654	0.8890	30.00	27.63	ug/L	-8	20	0.0500	
trans-1,3-Dichloropropene	0.6137	0.6309	30.00	30.84	ug/L	3	30	0.0500	
1,1,2-Trichloroethane	0.1868	0.1819	30.00	29.22	ug/L	-3	30	0.0500	
2-Hexanone	0.2710	0.2990	30.00	33.10	ug/L	10	40	0.0500	
1,3-Dichloropropane	0.5926	0.5862	30.00	29.67	ug/L	-1	30	0.0500	
Tetrachloroethene	0.3771	0.3756	30.00	29.88	ug/L	0	30	0.0500	
Dibromochloromethane	0.4032	0.4332	30.00	32.23	ug/L	7	30	0.0500	
1,2-Dibromoethane	0.3208	0.3405	30.00	31.84	ug/L	6	30	0.0500	
Chlorobenzene	1.0716	1.0493	30.00	29.37	ug/L	-2	30	0.3000	
1,1,1,2-Tetrachloroethane	0.3880	0.4006	30.00	30.98	ug/L	3	30	0.0500	
Ethylbenzene	1.9417	1.8693	30.00	28.88	ug/L	-4	20	0.0500	
m,p-Xylenes	0.7028	0.7039	60.00	60.09	ug/L	0	30	0.0500	
o-Xylene	0.6872	0.6832	30.00	29.83	ug/L	-1	30	0.0500	
Styrene	1.1877	1.1946	30.00	30.18	ug/L	1	30	0.0500	
Bromoform	0.2675	0.3124	30.00	35.04	ug/L	17	30	0.1000	
Isopropylbenzene	3.5230	3.2426	30.00	27.61	ug/L	-8	30	0.0500	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	0.7754	0.7935	30.00	30.70	ug/L	2	30	0.3000	
1,2,3-Trichloropropane	0.8297	0.8374	30.00	30.28	ug/L	1	30	0.0500	
Propylbenzene	4.4089	3.9721	30.00	27.03	ug/L	-10	30	0.0500	
Bromobenzene	0.8823	0.8432	30.00	28.67	ug/L	-4	30	0.0500	
1,3,5-Trimethylbenzene	3.0656	2.8893	30.00	28.27	ug/L	-6	30	0.0500	
2-Chlorotoluene	2.9207	2.7322	30.00	28.06	ug/L	-6	30	0.0500	
4-Chlorotoluene	2.6950	2.5123	30.00	27.97	ug/L	-7	30	0.0500	
tert-Butylbenzene	2.6093	2.4352	30.00	28.00	ug/L	-7	30	0.0500	
1,2,4-Trimethylbenzene	3.1080	3.0097	30.00	29.05	ug/L	-3	30	0.0500	
sec-Butylbenzene	3.8696	3.6047	30.00	27.95	ug/L	-7	30	0.0500	
para-Isopropyl Toluene	3.2014	3.1045	30.00	29.09	ug/L	-3	30	0.0500	
1,3-Dichlorobenzene	1.6507	1.6222	30.00	29.48	ug/L	-2	30	0.0500	
1,4-Dichlorobenzene	1.6937	1.6184	30.00	28.67	ug/L	-4	30	0.0500	
n-Butylbenzene	3.1480	2.9889	30.00	28.48	ug/L	-5	30	0.0500	
1,2-Dichlorobenzene	1.5926	1.5546	30.00	29.28	ug/L	-2	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1764	0.1957	30.00	33.27	ug/L	11	30	0.0500	
1,2,4-Trichlorobenzene	1.0087	1.0363	30.00	30.82	ug/L	3	30	0.0500	
Hexachlorobutadiene	0.5309	0.5559	30.00	31.41	ug/L	5	30	0.0500	
Naphthalene	2.2043	2.4585	30.00	33.46	ug/L	12	30	0.0500	
1,2,3-Trichlorobenzene	0.9272	0.9811	30.00	31.74	ug/L	6	30	0.0500	
Dibromofluoromethane	0.5044	0.5249	50.00	52.03	ug/L	4	30	0.0500	
1,2-Dichloroethane-d4	0.4678	0.5080	50.00	54.30	ug/L	9	30	0.0500	
Toluene-d8	1.4145	1.3226	50.00	46.75	ug/L	-6	30	0.0500	
Bromofluorobenzene	1.0002	0.9514	50.00	47.56	ug/L	-5	30	0.0500	

ISTD (ICAL kiq15)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	310780	247379	-20.40	10.25	10.25	0.00
1,4-Difluorobenzene	495907	405879	-18.15	11.20	11.20	0.00
Chlorobenzene-d5	467457	410278	-12.23	14.34	14.34	0.00
1,4-Dichlorobenzene-d4	255875	232540	-9.12	16.56	16.56	0.00

TEW 10/07/13 [Freon 12]: Combined split peak.

Analyst: TEW Date: 10/07/13 Reviewer: LW Date: 10/07/13

!=warning +=high bias -=low bias c=CCV m=manual integration

Logbooks & Sequences

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 833399405

Date : 10/04/13 Reference : kiq15
Sequence : MSVOA11 kj4 Analyzed : 09/27/13 00:19

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	310780	10.25	495907	11.20	467457	14.34	255875	16.56
		LOWER LIMIT	155390	9.75	247954	10.70	233729	13.84	127938	16.06
		UPPER LIMIT	621560	10.75	991814	11.70	934914	14.84	511750	17.06
003	CCV	20PPB	227251	10.25	362329	11.20	357970	14.34	201136	16.56
004	BS	QC710522	211917	10.25	344818	11.20	335475	14.34	191127	16.56
005	BSD	QC710523	205630	10.25	332139	11.20	328073	14.34	186614	16.56
007	BLANK	QC710524	201970	10.25	330813	11.20	327027	14.34	178542	16.56
008	SAMPLE	249598-011	208051	10.25	337918	11.20	332873	14.34	180232	16.56
009	SAMPLE	249598-001	210832	10.25	344376	11.20	342184	14.34	183777	16.56
010	SAMPLE	249598-002	197330	10.25	323815	11.20	318720	14.34	172772	16.56
011	SAMPLE	249598-003	201010	10.25	326562	11.20	321223	14.35	175265	16.56
012	SAMPLE	249598-004	205939	10.25	335474	11.20	334146	14.35	179325	16.56
013	SAMPLE	249598-005	201063	10.25	330894	11.20	329637	14.34	176821	16.56
014	SAMPLE	249598-009	198711	10.25	324526	11.20	323569	14.34	174961	16.56
015	SAMPLE	249598-010	198381	10.25	324063	11.20	324601	14.35	178268	16.56
016	SAMPLE	249598-008	197673	10.25	324769	11.20	323067	14.35	175646	16.56

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 833403830

Date : 10/07/13 Reference : kiq15
Sequence : MSVOA11 kj7 Analyzed : 09/27/13 00:19

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	310780	10.25	495907	11.20	467457	14.34	255875	16.56
		LOWER LIMIT	155390	9.75	247954	10.70	233729	13.84	127938	16.06
		UPPER LIMIT	621560	10.75	991814	11.70	934914	14.84	511750	17.06
004	CCV	30PPB	247379	10.25	405879	11.20	410278	14.34	232540	16.56
005	BS	QC710776	249084	10.25	409806	11.20	413408	14.34	233296	16.56
006	BSD	QC710777	254813	10.25	416041	11.20	420035	14.34	235971	16.56
008	BLANK	QC710775	250637	10.25	412714	11.20	423750	14.34	233388	16.56
009	SAMPLE	249633-010	238966	10.25	395809	11.20	400344	14.34	217449	16.56
010	SAMPLE	249633-009	227688	10.25	379082	11.20	385241	14.34	209907	16.56
011	SAMPLE	249651-001	225336	10.25	380445	11.20	383853	14.34	209724	16.56
012	SAMPLE	249633-002	219969	10.25	366680	11.20	373844	14.34	207882	16.56
014	SAMPLE	249635-001	215138	10.25	351429	11.20	361610	14.34	198999	16.56
015	SAMPLE	249598-006	206327	10.25	347412	11.20	356398	14.34	194778	16.56
016	SAMPLE	249598-007	204755	10.25	339901	11.20	347051	14.34	188840	16.56
017	SAMPLE	249598-008	192389	10.25	317472	11.20	327714	14.34	180320	16.56
018	SAMPLE	249615-004	188560	10.25	321038	11.20	321521	14.34	178741	16.56
019	SAMPLE	249633-001	185782	10.25	307625	11.20	315806	14.34	176545	16.56
020	SAMPLE	249633-003	186515	10.25	311969	11.20	315437	14.34	173835	16.56
021	SAMPLE	249633-004	190769	10.25	320576	11.20	328679	14.34	181659	16.56
022	SAMPLE	249633-005	177948	10.25	297727	11.20	303623	14.34	165668	16.56
023	SAMPLE	249633-006	187933	10.25	312570	11.20	325776	14.34	180909	16.56
024	SAMPLE	249633-007	177145	10.25	302000	11.20	313505	14.34	174239	16.56
025	SAMPLE	249633-008	189156	10.25	315308	11.20	332538	14.34	185892	16.56
026	SAMPLE	249646-002	187950	10.25	313186	11.20	326801	14.34	187554	16.56
027	SAMPLE	249646-004	212083	10.25	353261	11.20	375252	14.34	211692	16.56

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 833388163

Instrument : MSVOA11 Begun : 09/26/13 13:23
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
002	kiq02	CCV	20PPB			09/26/13 13:23	1.0	1 2 3 4 5	?t
003	kiq03	X	IB			09/26/13 14:03	1.0	5	
004	kiq04	X	IB			09/26/13 14:32	1.0	5	
005	kiq05	X	LOW PT			09/26/13 15:00	1.0	5	
006	kiq06	TUN	BFB			09/26/13 19:51	1.0	6	
007	kiq07	IB	IB			09/26/13 20:28	1.0	5	
008	kiq08	IB	CALIB IB			09/26/13 20:57	1.0	5	
009	kiq09	ICAL	.25/.5PPB			09/26/13 21:25	1.0	4 1 3 2 5	
010	kiq10	ICAL	0.5/1PPB			09/26/13 21:56	1.0	4 1 3 2 5	
011	kiq11	ICAL	2PPB			09/26/13 22:24	1.0	4 1 3 2 5	
012	kiq12	ICAL	5PPB			09/26/13 22:52	1.0	4 1 3 2 5	
013	kiq13	ICAL	10PPB			09/26/13 23:23	1.0	4 1 3 2 5	
014	kiq14	ICAL	20PPB			09/26/13 23:51	1.0	4 1 3 2 5	
015	kiq15	ICAL	50PPB			09/27/13 00:19	1.0	4 1 3 2 5	
016	kiq16	ICAL	75PPB			09/27/13 00:47	1.0	4 1 3 2 5	
017	kiq17	ICAL	100PPB			09/27/13 01:16	1.0	4 1 3 2 5	
018	kiq18	ICV	GASES			09/27/13 01:44	1.0	7 5	
019	kiq19	ICV				09/27/13 02:12	1.0	8 9 10 5	
020	kiq20	ICV	2CLEVE			09/27/13 02:40	1.0	11 5	
021	kiq21	X	IB			09/27/13 03:08	1.0	5	
022	kiq22	X	IB			09/27/13 03:37	1.0	5	

BO 09/27/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 22.

BO 09/27/13 : kiq01 is an IB that would not upload to lims

Analyst: BO Date: 09/27/13 Reviewer: SJD Date: 09/30/13

Standards used: 1=S23280 2=S22004 3=S23293 4=S22433 5=S23233 6=S22624 7=S22793 8=S23157 9=S23288 10=S23215 11=S17234

Flags used: ?t=missing tune

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 833399405

Instrument : MSVOA11 Begun : 10/04/13 08:45
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	kj401	X	IB			10/04/13 08:45	1.0	1
002	kj402	TUN	BFB			10/04/13 09:10	1.0	2
003	kj403	CCV	20PPB			10/04/13 09:24	1.0	3 4 5 6 1
004	kj404	BS	QC710522	Water	203729	10/04/13 10:19	1.0	7 8 9 10 1
005	kj405	BSD	QC710523	Water	203729	10/04/13 10:47	1.0	7 8 9 10 1
006	kj406	X	IB			10/04/13 11:15	1.0	1
007	kj407	BLANK	QC710524	Water	203729	10/04/13 11:43	1.0	1
008	kj408	SAMPLE	249598-011	Water	203729	10/04/13 12:11	1.0	1
009	kj409	SAMPLE	249598-001	Water	203729	10/04/13 13:17	1.0	1
010	kj410	SAMPLE	249598-002	Water	203729	10/04/13 13:45	1.0	1
011	kj411	SAMPLE	249598-003	Water	203729	10/04/13 14:13	1.0	1
012	kj412	SAMPLE	249598-004	Water	203729	10/04/13 14:41	1.0	1
013	kj413	SAMPLE	249598-005	Water	203729	10/04/13 15:09	1.0	1
014	kj414	SAMPLE	249598-009	Water	203729	10/04/13 15:37	1.0	1
015	kj415	SAMPLE	249598-010	Water	203729	10/04/13 16:06	1.0	1
016	kj416	SAMPLE	249598-008	Water	203729	10/04/13 16:34	2.0	1
017	kj417	X	IB			10/04/13 17:02	1.0	1
018	kj418	X	IB			10/04/13 17:30	1.0	1
019	kj419	X	IB			10/04/13 17:58	1.0	1

TEW 10/06/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 19.

TEW 10/06/13 : Matrix spikes were not performed for this analysis in batch 203729 due to insufficient sample amount.

Analyst: TEW Date: 10/06/13 Reviewer: LW Date: 10/07/13

Standards used: 1=S23233 2=S22624 3=S23280 4=S21950 5=S23293 6=S22433 7=S23157 8=S23276 9=S23288 10=S23215

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 833403830

Instrument : MSVOA11 Begun : 10/07/13 10:30
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	kj701	X	HIGH GASES			10/07/13 10:30	1.0	1	
002	kj702	X	IB			10/07/13 10:58	1.0	1	
003	kj703	TUN	BFB			10/07/13 11:22	1.0	2	
004	kj704	CCV	30PPB			10/07/13 11:45	1.0	3 4 5 6 1	
005	kj705	BS	QC710776	Water	203788	10/07/13 12:22	1.0	7 8 9 10 1	
006	kj706	BSD	QC710777	Water	203788	10/07/13 12:50	1.0	7 8 9 10 1	
007	kj707	X	IB			10/07/13 13:18	1.0	1	
008	kj708	BLANK	QC710775	Water	203788	10/07/13 13:46	1.0	1	
009	kj709	SAMPLE	249633-010	Water	203788	10/07/13 14:14	1.0	1	
010	kj710	SAMPLE	249633-009	Water	203788	10/07/13 14:42	1.0	1	
011	kj711	SAMPLE	249651-001	Water	203788	10/07/13 15:10	1429	1	
012	kj712	SAMPLE	249633-002	Water	203788	10/07/13 15:38	3.333	1	
013	kj713	X	IB			10/07/13 16:06	1.0	1	
014	kj714	SAMPLE	249635-001	Water	203788	10/07/13 16:34	1.0	1	pH > 2
015	kj715	SAMPLE	249598-006	Water	203788	10/07/13 17:02	1.0	1	
016	kj716	SAMPLE	249598-007	Water	203788	10/07/13 17:31	1.0	1	
017	kj717	SAMPLE	249598-008	Water	203788	10/07/13 17:59	1.0	1	1:TCE=110
018	kj718	SAMPLE	249615-004	Water	203788	10/07/13 18:27	1.0	1	pH > 2
019	kj719	SAMPLE	249633-001	Water	203788	10/07/13 18:55	1.0	1	
020	kj720	SAMPLE	249633-003	Water	203788	10/07/13 19:23	1.0	1	
021	kj721	SAMPLE	249633-004	Water	203788	10/07/13 19:51	1.0	1	
022	kj722	SAMPLE	249633-005	Water	203788	10/07/13 20:19	1.0	1	
023	kj723	SAMPLE	249633-006	Water	203788	10/07/13 20:47	1.0	1	
024	kj724	SAMPLE	249633-007	Water	203788	10/07/13 21:15	1.0	1	
025	kj725	SAMPLE	249633-008	Water	203788	10/07/13 21:43	1.0	1	
026	kj726	SAMPLE	249646-002	Water	203788	10/07/13 22:11	1.0	1	
027	kj727	SAMPLE	249646-004	Water	203788	10/07/13 22:39	1.0	1	
028	kj728	X	IB			10/07/13 23:07	1.0	1	
029	kj729	X	IB			10/07/13 23:36	1.0	1	
030	kj730	X	IB			10/08/13 00:04	1.0	1	

TEW 10/07/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 11.

TEW 10/08/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 12 through 30.

TEW 10/08/13 : Matrix spikes were not performed for this analysis in batch 203788 due to insufficient sample amount.

Analyst: TEW Date: 10/08/13 Reviewer: LW Date: 10/08/13

Standards used: 1=S23233 2=S22624 3=S23280 4=S21950 5=S23293 6=S22433 7=S23157 8=S23276 9=S23288 10=S23215

Page 1 of 1

MSVOA WATER Prepsheet

Curtis & Tompkins, Ltd.

Date: 10/4/13

Batch #: 203729

	Sample ID	Vial	pH <2	pH (if >2)	HS?	Dil'n flask	MS#	RR	DF	Comments	20% ccv ?	hold	due	init date
1	249598-1	A	X				11		1					
2	-2		X						1					
3	-3		X						1					
4	-4		X						1					
5	-5		X						1					
6	-6									PUT OFF				
7	-7					8								
8	-8		X			8			2					
9	-9		X						1					
10	-10		X						1					
11	-11		X						1	TB				
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														

MSVOA WATER Prepsheet Curtis & Tompkins, Ltd.

Date: 10-7-13 **Batch #:** 203788

	Sample ID	Vial	pH <2	pH (if >2)	HS?	Dil'n flask	MS#	RR	DF	Comments	20% ccv ?	hold	due	init date
1	249598-8	B	✓				11	1	1x	OD AZ II		10-16	10-9	TEW
2	-6	C	✓		LV									
3	-7		✓											
4	249651-1		X			9		1	1420x	TCE >LR		10-18	10-25	
5	249646-2		✓					1	1x	OD		10-16	10-18	
6	-4		✓					1				10-18		
7	249615-4			7				1	1x	MTBE hit w/ surr ↑		10-17	10-9	
8	249633-1	B	✓						1x					
9	-2		X			10			3.33x					
10	-3		✓						1x					
11	-4		✓											
12	-5		✓											
13	-6		✓											
14	-7		✓											
15	-8		✓											
16	-9		✓											
17	-10		✓											
18	249635-1	K		7				1	1x	2-Clv & TBA not reportable		10-7	10-8	
19														
20														
21														
22														

Laboratory Job Number 249598

ANALYTICAL REPORT

Metals

Matrix: Water

Curtis & Tompkins, Ltd.

Chromium

Lab #:	249598	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Sampled:	10/02/13
Matrix:	Water	Received:	10/03/13
Units:	ug/L	Prepared:	10/08/13
Diln Fac:	1.000	Analyzed:	10/21/13
Batch#:	203820		

Field ID	Type	Lab ID	Result	RL	MDL
AST-INF	SAMPLE	249598-001	75	5.0	0.69
AST-EFF	SAMPLE	249598-002	86	5.0	0.69
GAC-02 INF	SAMPLE	249598-003	14	5.0	0.69
GAC-02 EFF	SAMPLE	249598-004	12	5.0	0.69
E-07R	SAMPLE	249598-005	44	5.0	0.69
E-12	SAMPLE	249598-008	34	5.0	0.69
E-17	SAMPLE	249598-009	150	5.0	0.69
E-117	SAMPLE	249598-010	140	5.0	0.69
	BLANK	QC710905	ND	5.0	0.69

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Chromium

Lab #:	249598	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Batch#:	203820
Field ID:	ZZZZZZZZZZ	Sampled:	09/09/13
MSS Lab ID:	248866-024	Received:	09/11/13
Matrix:	Water	Prepared:	10/08/13
Units:	ug/L	Analyzed:	10/21/13
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC710906		200.0	196.1	98	80-120		
BSD	QC710907		200.0	203.0	101	80-120	3	20
MS	QC710908	<0.6859	200.0	207.7	104	80-120		
MSD	QC710909		200.0	209.6	105	80-120	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Chromium

Lab #:	249598	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	ZZZZZZZZZZ	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	203820
MSS Lab ID:	248866-024	Sampled:	09/09/13
Lab ID:	QC710910	Received:	09/11/13
Matrix:	Water	Analyzed:	10/21/13

MSS Result	MSS RL	Result	RL	% Diff	Lim
ND	5.000	ND	25.00	NC	10

NC= Not Calculated
ND= Not Detected at or above MDL
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Chromium

Lab #:	249598	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
Type:	Post Digest Spike	Batch#:	203820
MSS Lab ID:	248866-024	Sampled:	09/09/13
Lab ID:	QC710911	Received:	09/11/13
Matrix:	Water	Analyzed:	10/21/13

MSS Result	Spiked	Result	%REC	Limits
<0.6859	200.0	201.8	101	75-125

REPORTING SUMMARY FOR 249598 METALS Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CR	
249598-001	MET08	10/21/13 20:48	1.0	+	
249598-002	MET08	10/21/13 20:53	1.0	+	
249598-003	MET08	10/21/13 20:57	1.0	+	
249598-004	MET08	10/21/13 21:14	1.0	+	
249598-005	MET08	10/21/13 21:19	1.0	+	
249598-008	MET08	10/21/13 21:23	1.0	+	
249598-009	MET08	10/21/13 21:27	1.0	+	
249598-010	MET08	10/21/13 21:32	1.0	+	
QC710905	MET08	10/21/13 18:32	1.0	+	
QC710906	MET08	10/21/13 18:37	1.0	+	
QC710907	MET08	10/21/13 18:41	1.0	+	
QC710908	MET08	10/21/13 19:22	1.0	+	
QC710909	MET08	10/21/13 19:26	1.0	+	
QC710910	MET08	10/21/13 19:30	5.0	+	
QC710911	MET08	10/21/13 19:35	1.0	+	

ICP Data

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83423725

Instrument : MET08 Begun : 10/21/13 06:05
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	met08_sn_6010	ICALBLK				10/21/13 06:05	1.0		
002	met08_sn_6010	ICAL	CRI5.1			10/21/13 06:10	1.0	1	
003	met08_sn_6010	ICAL	CS100			10/21/13 06:15	1.0	2	
004	met08_sn_6010	ICAL	CS1K			10/21/13 06:19	1.0	3	
005	met08_sn_6010	ICAL	CS10K			10/21/13 06:23	1.0	4	
006	met08_sn_6010	ICAL	CS100K			10/21/13 06:30	1.0	5	
007	met08_sn_6010	ICV				10/21/13 06:36	1.0	6	
008	met08_sn_6010	XCRI				10/21/13 06:43	1.0	7	
009	met08_sn_6010	CRI				10/21/13 06:48	1.0	7	
010	met08_sn_6010	XICB				10/21/13 06:53	1.0		
011	met08_sn_6010	ICB				10/21/13 06:58	1.0		
012	met08_sn_6010	ICSA				10/21/13 07:03	1.0	8	10:AL=510000
013	met08_sn_6010	ICSAB				10/21/13 07:41	1.0	9	5:AL=520000
014	met08_sn_6010	BLANK	QC712716	Water	204235	10/21/13 07:48	1.0		
015	met08_sn_6010	BS	QC712717	Water	204235	10/21/13 07:53	1.0		
016	met08_sn_6010	BSD	QC712718	Water	204235	10/21/13 07:57	1.0		
017	met08_sn_6010	MSS	249940-001	Water	204235	10/21/13 08:01	1.0		2:NA=230000
018	met08_sn_6010	MS	QC712719	Water	204235	10/21/13 08:09	1.0		1:NA=260000
019	met08_sn_6010	MSD	QC712720	Water	204235	10/21/13 08:17	1.0		1:NA=250000
020	met08_sn_6010	SAMPLE	250014-001	Water	204235	10/21/13 08:24	1.0		1:NA=530000
021	met08_sn_6010	SAMPLE	250031-003	Water	204235	10/21/13 08:33	1.0		1:NA=190000
022	met08_sn_6010	CCV				10/21/13 08:37	1.0	10	
023	met08_sn_6010	CCB				10/21/13 08:44	1.0		
024	met08_sn_6010	SAMPLE	250032-002	Water	204235	10/21/13 08:49	1.0		
025	met08_sn_6010	BLANK	QC712721	WET Leachate	204236	10/21/13 08:53	10.0		1:NA=130000
026	met08_sn_6010	BS	QC712722	WET Leachate	204236	10/21/13 08:58	1.0		
027	met08_sn_6010	BSD	QC712723	WET Leachate	204236	10/21/13 09:02	1.0		
028	met08_sn_6010	MSS	250003-001	WET Leachate	204236	10/21/13 09:06	10.0		1:NA=150000
029	met08_sn_6010	MS	QC712724	WET Leachate	204236	10/21/13 09:11	10.0		
030	met08_sn_6010	MSD	QC712725	WET Leachate	204236	10/21/13 09:15	10.0		
031	met08_sn_6010	SER	QC712726	WET Leachate	204236	10/21/13 09:19	50.0		
032	met08_sn_6010	PDS	QC712727	WET Leachate	204236	10/21/13 09:23	10.0	11 12	
033	met08_sn_6010	MSS	249940-001	Water	204235	10/21/13 09:27	1.0		2:NA=230000
034	met08_sn_6010	CCV				10/21/13 09:35	1.0	10	
035	met08_sn_6010	CCB				10/21/13 09:41	1.0		
036	met08_sn_6010	SAMPLE	249874-002	WET Leachate	204236	10/21/13 09:47	10.0		1:NA=130000
037	met08_sn_6010	ICSAB				10/21/13 09:51	1.0	9	5:MG=500000
038	met08_sn_6010	SAMPLE	249874-003	WET Leachate	204236	10/21/13 09:57	10.0		1:NA=140000
039	met08_sn_6010	BLANK	QC712640	WET Leachate	204217	10/21/13 10:02	10.0		1:NA=140000
040	met08_sn_6010	BS	QC712641	WET Leachate	204217	10/21/13 10:07	1.0		
041	met08_sn_6010	BSD	QC712642	WET Leachate	204217	10/21/13 10:11	1.0		
042	met08_sn_6010	MSS	249945-001	WET Leachate	204217	10/21/13 10:15	10.0		1:NA=150000
043	met08_sn_6010	MS	QC712643	WET Leachate	204217	10/21/13 10:19	10.0		
044	met08_sn_6010	MSD	QC712644	WET Leachate	204217	10/21/13 10:23	10.0		
045	met08_sn_6010	SAMPLE	249950-001	WET Leachate	204217	10/21/13 10:27	10.0		1:NA=140000
046	met08_sn_6010	?SAMPLE	249901-001		204217	10/21/13 10:31	10.0		
047	met08_sn_6010	CCV				10/21/13 10:35	1.0	10	
048	met08_sn_6010	CCB				10/21/13 10:42	1.0		
049	met08_sn_6010	?SAMPLE	249902-001		204217	10/21/13 10:47	10.0		
050	met08_sn_6010	?SAMPLE	249903-001		204217	10/21/13 10:51	10.0		
051	met08_sn_6010	?SAMPLE	249904-001		204217	10/21/13 10:56	10.0		
052	met08_sn_6010	?SAMPLE	249905-001		204217	10/21/13 11:00	10.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83423725

Instrument : MET08 Begun : 10/21/13 06:05
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
053	met08_sn_6010	?SAMPLE	249662-001		204217	10/21/13 11:04	10.0		
054	met08_sn_6010	BLANK	QC712609	Water	204212	10/21/13 11:08	1.0		
055	met08_sn_6010	BS	QC712610	Water	204212	10/21/13 11:13	1.0		
056	met08_sn_6010	BSD	QC712611	Water	204212	10/21/13 11:17	1.0		
057	met08_sn_6010	MSS	249776-001	Water	204212	10/21/13 11:21	1.0		
058	met08_sn_6010	MS	QC712612	Water	204212	10/21/13 11:25	1.0		
059	met08_sn_6010	CCV				10/21/13 11:30	1.0	10	
060	met08_sn_6010	CCB				10/21/13 11:36	1.0		
061	met08_sn_6010	ICSAB				10/21/13 11:42	1.0	9	5:AL=500000
062	met08_sn_6010	MSD	QC712613	Water	204212	10/21/13 11:48	1.0		
063	met08_sn_6010	SER	QC712614	Water	204212	10/21/13 11:52	5.0		
064	met08_sn_6010	PDS	QC712615	Water	204212	10/21/13 11:57	1.0	13 14	
065	met08_sn_6010	SAMPLE	249911-001	Water	204212	10/21/13 12:02	1.0		1:B=30000
066	met08_sn_6010	SAMPLE	249911-002	Water	204212	10/21/13 12:11	1.0		1:B=29000
067	met08_sn_6010	SAMPLE	249911-003	Water	204212	10/21/13 12:19	1.0		3:CA=230000
068	met08_sn_6010	SAMPLE	249911-004	Water	204212	10/21/13 12:23	1.0		2:CA=500000
069	met08_sn_6010	SAMPLE	249911-005	Water	204212	10/21/13 12:29	1.0		3:CA=390000
070	met08_sn_6010	SAMPLE	249911-006	Water	204212	10/21/13 12:33	1.0		
071	met08_sn_6010	SAMPLE	249914-001	Water	204212	10/21/13 12:38	1.0		
072	met08_sn_6010	CCV				10/21/13 12:42	1.0	10	
073	met08_sn_6010	CCB				10/21/13 12:49	1.0		
074	met08_sn_6010	BLANK	QC711241	Soil	203900	10/21/13 12:58	1.0		
075	met08_sn_6010	MSS	249563-001	Soil	203900	10/21/13 13:03	100.0		
076	met08_sn_6010	SER	QC711246	Soil	203900	10/21/13 13:07	500.0		
077	met08_sn_6010	PDS	QC711247	Soil	203900	10/21/13 13:11	100.0	11 12	
078	met08_sn_6010	SAMPLE	249573-005	Soil	203900	10/21/13 13:15	1.0		3:MG=490000
079	met08_sn_6010	SAMPLE	249573-005	Soil	203900	10/21/13 13:18	100.0		
080	met08_sn_6010	SAMPLE	249573-008	Soil	203900	10/21/13 13:22	1.0		6:FE=710000
081	met08_sn_6010	SAMPLE	249573-008	Soil	203900	10/21/13 13:29	100.0		
082	met08_sn_6010	SAMPLE	249202-001	Soil	203900	10/21/13 13:33	1.0		5:CA=410000
083	met08_sn_6010	SAMPLE	249202-002	Soil	203900	10/21/13 13:36	1.0		5:FE=490000
084	met08_sn_6010	CCV				10/21/13 13:43	1.0	10	
085	met08_sn_6010	CCB				10/21/13 13:50	1.0		
086	met08_sn_6010	ICSAB				10/21/13 13:55	1.0	9	5:AL=500000
087	met08_sn_6010	SAMPLE	249202-003	Soil	203900	10/21/13 14:02	1.0		5:FE=420000
088	met08_sn_6010	SAMPLE	249311-008	Soil	203900	10/21/13 14:05	1.0		5:AL=450000
089	met08_sn_6010	SAMPLE	249311-009	Soil	203900	10/21/13 14:12	1.0		3:FE=130000
090	met08_sn_6010	SAMPLE	249311-019	Soil	203900	10/21/13 14:15	1.0		
091	met08_sn_6010	SAMPLE	249311-020	Soil	203900	10/21/13 14:19	1.0		3:FE=150000
092	met08_sn_6010	SAMPLE	249311-027	Soil	203900	10/21/13 14:22	1.0		3:FE=250000
093	met08_sn_6010	SAMPLE	249311-029	Soil	203900	10/21/13 14:25	1.0		3:FE=200000
094	met08_sn_6010	SAMPLE	249311-030	Soil	203900	10/21/13 14:28	1.0		2:CA=140000
095	met08_sn_6010	SAMPLE	249311-031	Soil	203900	10/21/13 14:32	1.0		3:FE=150000
096	met08_sn_6010	SAMPLE	249311-034	Soil	203900	10/21/13 14:35	1.0		2:FE=140000
097	met08_sn_6010	CCV				10/21/13 14:38	1.0	10	
098	met08_sn_6010	CCB				10/21/13 14:45	1.0		
099	met08_sn_6010	SAMPLE	249311-035	Soil	203900	10/21/13 14:50	1.0		1:FE=120000
100	met08_sn_6010	SAMPLE	249311-036	Soil	203900	10/21/13 14:54	1.0		3:FE=300000
101	met08_sn_6010	SAMPLE	249696-001	Soil	203900	10/21/13 15:01	1.0		4:CA=500000
102	met08_sn_6010	SAMPLE	249748-012	Soil	203900	10/21/13 15:04	1.0		4:FE=500000
103	met08_sn_6010	SAMPLE	249748-013	Soil	203900	10/21/13 15:07	1.0		5:FE=560000
104	met08_sn_6010	SAMPLE	249914-002	Water	204212	10/21/13 15:10	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83423725

Instrument : MET08 Begun : 10/21/13 06:05
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
105	met08_sn_6010	SAMPLE	249941-001	Water	204212	10/21/13 15:15	1.0		1:MG=110000
106	met08_sn_6010	SAMPLE	249941-002	Water	204212	10/21/13 15:22	1.0		2:CA=270000
107	met08_sn_6010	SAMPLE	248949-005	Soil	203080	10/21/13 15:30	1.0		6:FE=690000
108	met08_sn_6010	SAMPLE	249941-003	Water	204212	10/21/13 15:33	1.0		3:CA=700000
109	met08_sn_6010	CCV				10/21/13 15:36	1.0	10	
110	met08_sn_6010	CCB				10/21/13 15:43	1.0		
111	met08_sn_6010	ICSAB				10/21/13 15:48	1.0	9	5:AL=520000
112	met08_sn_6010	SAMPLE	249941-004	Water	204212	10/21/13 15:55	1.0		
113	met08_sn_6010	SAMPLE	249941-005	Water	204212	10/21/13 16:03	1.0		2:CA=1700000
114	met08_sn_6010	SAMPLE	249949-001	Water	204212	10/21/13 16:10	1.0		6:FE=930000
115	met08_sn_6010	SAMPLE	249965-001	Water	204212	10/21/13 16:17	1.0		3:CA=1300000
116	met08_sn_6010	SAMPLE	249965-002	Water	204212	10/21/13 16:24	1.0		
117	met08_sn_6010	BLANK	QC711553	Water	203967	10/21/13 16:29	1.0		
118	met08_sn_6010	BS	QC711554	Water	203967	10/21/13 16:34	1.0		
119	met08_sn_6010	BSD	QC711555	Water	203967	10/21/13 16:38	1.0		
120	met08_sn_6010	MSS	249739-001	Water	203967	10/21/13 16:42	1.0		
121	met08_sn_6010	MS	QC711556	Water	203967	10/21/13 16:46	1.0		
122	met08_sn_6010	CCV				10/21/13 16:50	1.0	10	
123	met08_sn_6010	CCB				10/21/13 16:57	1.0		
124	met08_sn_6010	MSD	QC711557	Water	203967	10/21/13 17:02	1.0		
125	met08_sn_6010	SAMPLE	249714-001	Water	203967	10/21/13 17:06	1.0		3:CA=360000
126	met08_sn_6010	SAMPLE	249714-002	Water	203967	10/21/13 17:12	1.0		3:CA=420000
127	met08_sn_6010	SAMPLE	249714-003	Water	203967	10/21/13 17:18	1.0		3:CA=280000
128	met08_sn_6010	SAMPLE	249714-004	Water	203967	10/21/13 17:22	1.0		2:CA=110000
129	met08_sn_6010	SAMPLE	249714-005	Water	203967	10/21/13 17:27	1.0		1:CA=110000
130	met08_sn_6010	SAMPLE	249714-006	Water	203967	10/21/13 17:31	1.0		3:NA=260000
131	met08_sn_6010	SAMPLE	249714-007	Water	203967	10/21/13 17:35	1.0		
132	met08_sn_6010	SAMPLE	249747-001	Water	203967	10/21/13 17:40	1.0		3:NA=260000
133	met08_sn_6010	SAMPLE	249747-002	Water	203967	10/21/13 17:44	1.0		2:NA=150000
134	met08_sn_6010	CCV				10/21/13 17:48	1.0	10	
135	met08_sn_6010	CCB				10/21/13 17:55	1.0		
136	met08_sn_6010	ICSAB				10/21/13 18:00	1.0	9	5:AL=520000
137	met08_sn_6010	SAMPLE	249747-003	Water	203967	10/21/13 18:07	1.0		2:NA=170000
138	met08_sn_6010	SAMPLE	249747-004	Water	203967	10/21/13 18:11	1.0		2:NA=150000
139	met08_sn_6010	SAMPLE	249747-005	Water	203967	10/21/13 18:15	1.0		1:B=14000
140	met08_sn_6010	SAMPLE	249747-006	Water	203967	10/21/13 18:23	1.0		
141	met08_sn_6010	X	RINSE			10/21/13 18:28	1.0		
142	met08_sn_6010	BLANK	QC710905	Water	203820	10/21/13 18:32	1.0		
143	met08_sn_6010	BS	QC710906	Water	203820	10/21/13 18:37	1.0		
144	met08_sn_6010	BSD	QC710907	Water	203820	10/21/13 18:41	1.0		
145	met08_sn_6010	BS	QC711554	Water	203967	10/21/13 18:45	1.0		
146	met08_sn_6010	BSD	QC711555	Water	203967	10/21/13 18:49	1.0		
147	met08_sn_6010	CCV				10/21/13 18:54	1.0	10	
148	met08_sn_6010	CCB				10/21/13 19:00	1.0		
149	met08_sn_6010	SAMPLE	249949-001	Water	204212	10/21/13 19:05	1.0		6:FE=900000
150	met08_sn_6010	SAMPLE	249949-001	Water	204212	10/21/13 19:12	100.0		
151	met08_sn_6010	MSS	248866-024	Water	203820	10/21/13 19:16	1.0		
152	met08_sn_6010	MS	QC710908	Water	203820	10/21/13 19:22	1.0		
153	met08_sn_6010	MSD	QC710909	Water	203820	10/21/13 19:26	1.0		
154	met08_sn_6010	SER	QC710910	Water	203820	10/21/13 19:30	5.0		
155	met08_sn_6010	PDS	QC710911	Water	203820	10/21/13 19:35	1.0	13 14	
156	met08_sn_6010	SAMPLE	249583-001	Water	203820	10/21/13 19:39	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83423725

Instrument : MET08 Begun : 10/21/13 06:05
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
157	met08_sn_6010	SAMPLE	249583-002	Water	203820	10/21/13 19:44	1.0		
158	met08_sn_6010	SAMPLE	249583-004	Water	203820	10/21/13 19:49	1.0		
159	met08_sn_6010	CCV				10/21/13 19:54	1.0	10	
160	met08_sn_6010	CCB				10/21/13 20:01	1.0		
161	met08_sn_6010	ICSAB				10/21/13 20:06	1.0	9	5:AL=530000
162	met08_sn_6010	SAMPLE	249583-005	Water	203820	10/21/13 20:13	1.0		
163	met08_sn_6010	SAMPLE	249584-001	Water	203820	10/21/13 20:18	1.0		
164	met08_sn_6010	BLANK	QC706254	Soil	202715	10/21/13 20:23	1.0		
165	met08_sn_6010	SAMPLE	249584-002	Water	203820	10/21/13 20:28	1.0		
166	met08_sn_6010	MSS	248591-019	Soil	202715	10/21/13 20:33	100.0		
167	met08_sn_6010	SAMPLE	249584-004	Water	203820	10/21/13 20:37	1.0		
168	met08_sn_6010	SAMPLE	249584-005	Water	203820	10/21/13 20:42	1.0		
169	met08_sn_6010	SAMPLE	249598-001	Water	203820	10/21/13 20:48	1.0		3:NA=420000
170	met08_sn_6010	SAMPLE	249598-002	Water	203820	10/21/13 20:53	1.0		3:NA=380000
171	met08_sn_6010	SAMPLE	249598-003	Water	203820	10/21/13 20:57	1.0		3:CA=240000
172	met08_sn_6010	CCV				10/21/13 21:02	1.0	10	
173	met08_sn_6010	CCB				10/21/13 21:09	1.0		
174	met08_sn_6010	SAMPLE	249598-004	Water	203820	10/21/13 21:14	1.0		1:CA=200000
175	met08_sn_6010	SAMPLE	249598-005	Water	203820	10/21/13 21:19	1.0		3:NA=370000
176	met08_sn_6010	SAMPLE	249598-008	Water	203820	10/21/13 21:23	1.0		3:CA=320000
177	met08_sn_6010	SAMPLE	249598-009	Water	203820	10/21/13 21:27	1.0		3:CA=400000
178	met08_sn_6010	SAMPLE	249598-010	Water	203820	10/21/13 21:32	1.0		3:CA=390000
179	met08_sn_6010	X	RINSE			10/21/13 21:36	1.0		
180	met08_sn_6010	X	RINSE			10/21/13 21:40	1.0		
181	met08_sn_6010	X	RINSE			10/21/13 21:44	1.0		
182	met08_sn_6010	X	RINSE			10/21/13 21:48	1.0		
183	met08_sn_6010	X	RINSE			10/21/13 21:52	1.0		
184	met08_sn_6010	CCV				10/21/13 21:56	1.0	10	
185	met08_sn_6010	CCB				10/21/13 22:02	1.0		
186	met08_sn_6010	ICSAB				10/21/13 22:08	1.0	9	5:AL=500000
187	met08_sn_6010	MSS	248591-021	Soil	202715	10/21/13 22:14	1.0		6:FE=490000
188	met08_sn_6010	MSS	248591-021	Soil	202715	10/21/13 22:18	100.0		
189	met08_sn_6010	SAMPLE	248591-001	Soil	202715	10/21/13 22:22	1.0		4:CA=590000
190	met08_sn_6010	SAMPLE	248591-001	Soil	202715	10/21/13 22:25	100.0		
191	met08_sn_6010	SAMPLE	248591-007	Soil	202715	10/21/13 22:29	1.0		6:FE=480000
192	met08_sn_6010	SAMPLE	248591-007	Soil	202715	10/21/13 22:32	100.0		
193	met08_sn_6010	SAMPLE	248591-008	Soil	202715	10/21/13 22:36	1.0		6:FE=500000
194	met08_sn_6010	SAMPLE	248591-008	Soil	202715	10/21/13 22:40	100.0		
195	met08_sn_6010	SAMPLE	248591-010	Soil	202715	10/21/13 22:44	1.0		6:CA=1700000
196	met08_sn_6010	SAMPLE	248591-010	Soil	202715	10/21/13 22:47	100.0		
197	met08_sn_6010	CCV				10/21/13 22:51	1.0	10	
198	met08_sn_6010	CCB				10/21/13 22:58	1.0		
199	met08_sn_6010	SAMPLE	248591-011	Soil	202715	10/21/13 23:03	1.0		6:FE=530000
200	met08_sn_6010	SAMPLE	248591-011	Soil	202715	10/21/13 23:06	100.0		
201	met08_sn_6010	SAMPLE	248591-012	Soil	202715	10/21/13 23:10	1.0		6:FE=520000
202	met08_sn_6010	SAMPLE	248591-012	Soil	202715	10/21/13 23:14	100.0		
203	met08_sn_6010	SAMPLE	248591-015	Soil	202715	10/21/13 23:18	1.0		6:FE=670000
204	met08_sn_6010	SAMPLE	248591-015	Soil	202715	10/21/13 23:21	100.0		
205	met08_sn_6010	SAMPLE	248591-020	Soil	202715	10/21/13 23:25	1.0		6:CA=630000
206	met08_sn_6010	SAMPLE	248591-020	Soil	202715	10/21/13 23:28	100.0		
207	met08_sn_6010	SAMPLE	248591-023	Soil	202715	10/21/13 23:32	1.0		6:CA=640000
208	met08_sn_6010	SAMPLE	248591-023	Soil	202715	10/21/13 23:36	100.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83423725

Instrument : MET08 Begun : 10/21/13 06:05
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
209	met08_sn_6010	CCV				10/21/13 23:40	1.0	10	
210	met08_sn_6010	CCB				10/21/13 23:47	1.0		
211	met08_sn_6010	ICSAB				10/21/13 23:52	1.0	9	5:AL=500000
212	met08_sn_6010	SAMPLE	248591-024	Soil	202715	10/21/13 23:58	1.0		6:CA=1700000
213	met08_sn_6010	SAMPLE	248591-024	Soil	202715	10/22/13 00:02	100.0		
214	met08_sn_6010	SAMPLE	248591-027	Soil	202715	10/22/13 00:06	1.0		6:FE=470000
215	met08_sn_6010	SAMPLE	248591-027	Soil	202715	10/22/13 00:09	100.0		
216	met08_sn_6010	CCV				10/22/13 00:13	1.0	10	
217	met08_sn_6010	CCB				10/22/13 00:20	1.0		
218	met08_sn_6010	ICSAB				10/22/13 00:25	1.0	9	5:AL=500000

NT 10/22/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 218.

CRT 10/21/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 62 through 172.

Standards used: 1=S23297 2=S23299 3=S23298 4=S23300 5=S23301 6=S23304 7=S23306 8=S23302 9=S23303 10=S23305 11=S23461 12=S23462 13=S21652 14=S21653

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83423725

Date : 10/21/13 Reference : met08_sn_6010
Sequence : MET08 10/21/13 Analyzed : 10/21/13 06:10

#	Type	Sample ID	Y A
		ICAL STD	2738937
		LOWER LIMIT	821681
		UPPER LIMIT	5477874
011	ICB		2695694
012	ICSA		2291849
013	ICSAB		2338800
014	BLANK	QC712716	2944921
015	BS	QC712717	2803972
016	BSD	QC712718	2732946
017	MSS	249940-001	2560320
018	MS	QC712719	2513804
019	MSD	QC712720	2533488
020	SAMPLE	250014-001	2580858
021	SAMPLE	250031-003	2681006
022	CCV		2612952
023	CCB		2710510
024	SAMPLE	250032-002	2722467
025	BLANK	QC712721	2570803
026	BS	QC712722	2644015
027	BSD	QC712723	2669285
028	MSS	250003-001	2492286
029	MS	QC712724	2567646
030	MSD	QC712725	2589993
031	SER	QC712726	2592774
032	PDS	QC712727	2506315
033	MSS	249940-001	2594544
034	CCV		2649574
035	CCB		2666741
036	SAMPLE	249874-002	2559158
037	ICSAB		2286263
038	SAMPLE	249874-003	2555412
039	BLANK	QC712640	2577329
040	BS	QC712641	2669142
041	BSD	QC712642	2651120
042	MSS	249945-001	2518919
043	MS	QC712643	2554328
044	MSD	QC712644	2550493
045	SAMPLE	249950-001	2565725
047	CCV		2616797
048	CCB		2704873
054	BLANK	QC712609	2748886
055	BS	QC712610	2625482
056	BSD	QC712611	2607797
057	MSS	249776-001	2567540
058	MS	QC712612	2506274
059	CCV		2637999
060	CCB		2681846
061	ICSAB		2296500
062	MSD	QC712613	2573721
063	SER	QC712614	2729419
064	PDS	QC712615	2551106

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83423725

Date : 10/21/13 Reference : met08_sn_6010
Sequence : MET08 10/21/13 Analyzed : 10/21/13 06:10

#	Type	Sample ID	Y A
065	SAMPLE	249911-001	2422244
066	SAMPLE	249911-002	2464039
067	SAMPLE	249911-003	2468298
068	SAMPLE	249911-004	2416480
069	SAMPLE	249911-005	2407887
070	SAMPLE	249911-006	2740029
071	SAMPLE	249914-001	2729528
072	CCV		2569186
073	CCB		2675849
074	BLANK	QC711241	2740001
075	MSS	249563-001	2717234
076	SER	QC711246	2751847
077	PDS	QC711247	2606422
078	SAMPLE	249573-005	2528019
079	SAMPLE	249573-005	2697613
080	SAMPLE	249573-008	2614043
081	SAMPLE	249573-008	2752151
082	SAMPLE	249202-001	2462424
083	SAMPLE	249202-002	2550722
084	CCV		2604865
085	CCB		2741180
086	ICSAB		2285432
087	SAMPLE	249202-003	2561933
088	SAMPLE	249311-008	2716372
089	SAMPLE	249311-009	2621312
090	SAMPLE	249311-019	2684483
091	SAMPLE	249311-020	2616052
092	SAMPLE	249311-027	2637145
093	SAMPLE	249311-029	2643712
094	SAMPLE	249311-030	2564840
095	SAMPLE	249311-031	2631820
096	SAMPLE	249311-034	2724941
097	CCV		2617867
098	CCB		2731924
099	SAMPLE	249311-035	2607207
100	SAMPLE	249311-036	2614628
101	SAMPLE	249696-001	2443534
102	SAMPLE	249748-012	2576866
103	SAMPLE	249748-013	2511363
104	SAMPLE	249914-002	2673188
105	SAMPLE	249941-001	2369656
106	SAMPLE	249941-002	2261484
107	SAMPLE	248949-005	2580940
108	SAMPLE	249941-003	2333939
109	CCV		2609326
110	CCB		2717434
111	ICSAB		2302422
112	SAMPLE	249941-004	2340619
113	SAMPLE	249941-005	1953931
114	SAMPLE	249949-001	2143515
115	SAMPLE	249965-001	2111088
116	SAMPLE	249965-002	2688039

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83423725

Date : 10/21/13 Reference : met08_sn_6010
Sequence : MET08 10/21/13 Analyzed : 10/21/13 06:10

#	Type	Sample ID	Y	A
117	BLANK	QC711553	2723073	
118	BS	QC711554	2684394	
119	BSD	QC711555	2643333	
120	MSS	249739-001	2676735	
121	MS	QC711556	2529360	
122	CCV		2499380	
123	CCB		2623796	
124	MSD	QC711557	2576209	
125	SAMPLE	249714-001	2455086	
126	SAMPLE	249714-002	2315122	
127	SAMPLE	249714-003	2471220	
128	SAMPLE	249714-004	2496606	
129	SAMPLE	249714-005	2524422	
130	SAMPLE	249714-006	2449504	
131	SAMPLE	249714-007	2703833	
132	SAMPLE	249747-001	2449381	
133	SAMPLE	249747-002	2449503	
134	CCV		2570282	
135	CCB		2692749	
136	ICSAB		2280239	
137	SAMPLE	249747-003	2525466	
138	SAMPLE	249747-004	2570023	
139	SAMPLE	249747-005	2369078	
140	SAMPLE	249747-006	2734429	
142	BLANK	QC710905	2749563	
143	BS	QC710906	2654360	
144	BSD	QC710907	2618989	
145	BS	QC711554	2638228	
146	BSD	QC711555	2688688	
147	CCV		2521483	
148	CCB		2660954	
149	SAMPLE	249949-001	2151202	
150	SAMPLE	249949-001	2560593	
152	MS	QC710908	2592062	
153	MSD	QC710909	2624396	
154	SER	QC710910	2628484	
155	PDS	QC710911	2622123	
156	SAMPLE	249583-001	2594134	
158	SAMPLE	249583-004	2552172	
159	CCV		2566674	
160	CCB		2628084	
161	ICSAB		2230368	
163	SAMPLE	249584-001	2633860	
164	BLANK	QC706254	5570831	*
167	SAMPLE	249584-004	2651828	
169	SAMPLE	249598-001	2339133	
170	SAMPLE	249598-002	2340243	
171	SAMPLE	249598-003	2407482	
172	CCV		2514511	
173	CCB		2574200	
174	SAMPLE	249598-004	2443555	
175	SAMPLE	249598-005	2350763	

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83423725

Date : 10/21/13 Reference : met08_sn_6010
Sequence : MET08 10/21/13 Analyzed : 10/21/13 06:10

#	Type	Sample ID	Y A
176	SAMPLE	249598-008	2377093
177	SAMPLE	249598-009	2336094
178	SAMPLE	249598-010	2389517
184	CCV		2603722
185	CCB		2692970
186	ICSAB		2329017
197	CCV		2602808
198	CCB		2629732
209	CCV		2578959
210	CCB		2647870
211	ICSAB		2261277
216	CCV		2534439
217	CCB		2681486
218	ICSAB		2263438

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 249598 METALS Water: EPA 6010B

Inst : MET08 Reviewer : ---
Calnum : 83423725001 Date : 21-OCT-2013 06:05
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	met08_sn_6010	83423725002	CRI5.1	21-OCT-2013 06:10	S23297
L2	met08_sn_6010	83423725003	CS100	21-OCT-2013 06:15	S23299
L3	met08_sn_6010	83423725004	CS1K	21-OCT-2013 06:19	S23298
L4	met08_sn_6010	83423725005	CS10K	21-OCT-2013 06:23	S23300
L5	met08_sn_6010	83423725006	CS100K	21-OCT-2013 06:30	S23301

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Chromium	A	108.68	110.70	108.42	108.47		LOR0	0.00000	0.00922		109.07	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Chromium	A	5.0000	0	100.00	2	1000.0	0	10000	0		

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 249598 METALS Water
EPA 6010B

Inst : MET08
Calnum : 83423725001 Cal Date : 21-OCT-2013

ICV 83423725007 (21-OCT-2013) stds: S23304

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Chromium	A	5000	4972	ug/L	-1	10	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 249598 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83423725011 File : met08_sn_6010 Time : 21-OCT-2013 06:58
Cal : 83423725001 Caldate : 21-OCT-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2738937	2695694	-1.58

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR 249598 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83423725012 File : met08_sn_6010 Time : 21-OCT-2013 07:03
Cal : 83423725001 Caldate : 21-OCT-2013
Standards: S23302

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19610	ug/L	98
Copper	A	20000	20760	ug/L	104
Manganese	A	20000	19070	ug/L	95
Nickel	A	20000	18590	ug/L	93
Vanadium	A	20000	19680	ug/L	98
Aluminum	R	500000	510200	ug/L	102
Calcium	R	500000	496500	ug/L	99
Iron	R	200000	195600	ug/L	98
Magnesium	R	500000	504400	ug/L	101
Titanium	R	20000	21280	ug/L	106

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2738937	2291849	-16.32

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 249598 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83423725134 File : met08_sn_6010 Time : 21-OCT-2013 17:48
Cal : 83423725001 Caldate : 21-OCT-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	109.07	110.33	5000	5086	ug/L	2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2738937	2570282	-6.16

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 249598 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83423725135 File : met08_sn_6010 Time : 21-OCT-2013 17:55
Cal : 83423725001 Caldate : 21-OCT-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2738937	2692749	-1.69

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 249598 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83423725136 File : met08_sn_6010 Time : 21-OCT-2013 18:00
Cal : 83423725001 Caldate : 21-OCT-2013
Standards: S23303

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	511.0	ug/L	2	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2738937	2280239	-16.75

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 249598 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83423725147 File : met08_sn_6010 Time : 21-OCT-2013 18:54
Cal : 83423725001 Caldate : 21-OCT-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	109.07	113.29	5000	5222	ug/L	4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2738937	2521483	-7.94

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 249598 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83423725148 File : met08_sn_6010 Time : 21-OCT-2013 19:00
Cal : 83423725001 Caldate : 21-OCT-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2738937	2660954	-2.85

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 249598 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83423725159 File : met08_sn_6010 Time : 21-OCT-2013 19:54
Cal : 83423725001 Caldate : 21-OCT-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	109.07	109.95	5000	5068	ug/L	1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2738937	2566674	-6.29

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 249598 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83423725160 File : met08_sn_6010 Time : 21-OCT-2013 20:01
Cal : 83423725001 Caldate : 21-OCT-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2738937	2628084	-4.05

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 249598 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83423725161 File : met08_sn_6010 Time : 21-OCT-2013 20:06
Cal : 83423725001 Caldate : 21-OCT-2013
Standards: S23303

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	514.7	ug/L	3	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2738937	2230368	-18.57

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 249598 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83423725172 File : met08_sn_6010 Time : 21-OCT-2013 21:02
Cal : 83423725001 Caldate : 21-OCT-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	109.07	113.46	5000	5230	ug/L	5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2738937	2514511	-8.19

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 249598 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83423725173 File : met08_sn_6010 Time : 21-OCT-2013 21:09
Cal : 83423725001 Caldate : 21-OCT-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2738937	2574200	-6.01

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 249598 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83423725184 File : met08_sn_6010 Time : 21-OCT-2013 21:56
Cal : 83423725001 Caldate : 21-OCT-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	109.07	111.34	5000	5132	ug/L	3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2738937	2603722	-4.94

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 249598 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83423725185 File : met08_sn_6010 Time : 21-OCT-2013 22:02
Cal : 83423725001 Caldate : 21-OCT-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2738937	2692970	-1.68

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 249598 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83423725186 File : met08_sn_6010 Time : 21-OCT-2013 22:08
Cal : 83423725001 Caldate : 21-OCT-2013
Standards: S23303

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	492.7	ug/L	-1	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2738937	2329017	-14.97

SAMPLE PREPARATION SUMMARY

Batch # : 203820
Started By : NCD
Method : 3010A
Spike #1 ID : S21652

Prep Date : 08-OCT-2013 16:30
SOP Version : 3010A_icp_rv15
Spike #2 ID : S21653

Analysis : ICAP
Finished By : NCD
Units : mL

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
248866-024		Water	50	50	1	1.0						AL, CO, FE, TAL/ICP	
249583-001		Water	50	50	1	1.0						CA, CU, FE, MG, MN, NA, ZN	
249583-002		Water	50	50	1	1.0						HARDNESS	
249583-004		Water	50	50	1	1.0						CA, CU, FE, MG, MN, NA, ZN	
249583-005		Water	50	50	1	1.0						HARDNESS	
249584-001		Water	50	50	1	1.0						CA, CU, FE, MG, MN, NA, ZN	
249584-002		Water	50	50	1	1.0						HARDNESS	
249584-004		Water	50	50	1	1.0						CA, CU, FE, MG, MN, NA, ZN	
249584-005		Water	50	50	1	1.0						HARDNESS	
249598-001		Water	50	50	1	1.0						CR	
249598-002		Water	50	50	1	1.0						CR	
249598-003		Water	50	50	1	1.0						CR	
249598-004		Water	50	50	1	1.0						CR	
249598-005		Water	50	50	1	1.0						CR	
249598-008		Water	50	50	1	1.0						CR	
249598-009		Water	50	50	1	1.0						CR	
249598-010		Water	50	50	1	1.0						CR	
QC710905	BLANK	Water	50	50	1	1.0							
QC710906	BS	Water	50	50	1	1.0		.5	.5				
QC710907	BSD	Water	50	50	1	1.0		.5	.5				
QC710908	MS	Water	50	50	1	1.0		.5	.5				
QC710909	MSD	Water	50	50	1	1.0		.5	.5				
QC710910	SER	Water	50	50	1	1.0							
QC710911	PDS	Water	50	50	1	1.0							

Analyst: NT Date: 10/22/13 Reviewer: PRW Date: 10/22/13

Curtis & Tompkins, Ltd.

Water Digestion for ICP

BK3476

LIMS Batch #: 205820
Digested by: NCP
Date Digested: 10/8/2013

Digestion Method
☒ EPA 3010a for ICP
☐ EPA 200.7
☐ _____

Page 79

Lvl.	Sample #	Container ID	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	ID ☐	Comments
	BLK		☑ 50	☑ 50	NO		
	BS		☑ 50	☑ 50			
	BSD		☑ 50	☑ 50			
IV	249966-024 MS	D	☑ 50	☑ 50			
5	024 MSD		☑ 50	☑ 50			
	024		☑ 50	☑ 50			
III	249584-001	A	☑ 50	☑ 50			
	-002	D	☑ 50	☑ 50			
	-004	A	☑ 50	☑ 50			
10	-005	D	☑ 50	☑ 50			
	249583-001	A	☑ 50	☑ 50			
	-002	I	☑ 50	☑ 50			
	-004	A	☑ 50	☑ 50			
	-005	G	☑ 50	☑ 50			
II 15	249598-001	D	☑ 50	☑ 50			add at 12:08 pm
	-002		☑ 50	☑ 50			
	-003		☑ 50	☑ 50			
	-004		☑ 50	☑ 50			
	-005		☑ 50	☑ 50			
20	-008		☑ 50	☑ 50			
	-009		☑ 50	☑ 50			
	-010		☑ 50	☑ 50			
			☐ 50	☐ 50			
			☐ 50	☐ 50			
			☐ 50	☐ 50			

	Reagent ID or LIMS #	Initials / Date
Digestion tubes, lot #	169172	NCP 10/8/2013
	521652	
	521653	
Digestion Temperature (°C), Block and Probe Location	95C C20	
digestion begun at (time)	10:20am	
Concentrated HNO3	33905-59	
1:1 HCl	17301-05 7213	
digestion ended at (time)	4:30pm	
☐ filtered thru' Whatman # 541		
Relinquished to ICP group	JCAP	

0.1 mL of spike solution (Std1) was added to all spikes
0.1 mL of spike solution (Std2) was added to all spikes

Prep Chemist / Date 10/8/2013

Continued from page _____
Continued on page _____

Reviewed Online / See LIMS

Laboratory Job Number 249598

ANALYTICAL REPORT

Metals

Matrix: Filtrate

Curtis & Tompkins, Ltd.

Dissolved Chromium

Lab #:	249598	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Sampled:	10/02/13
Matrix:	Filtrate	Received:	10/03/13
Units:	ug/L	Prepared:	10/04/13
Diln Fac:	1.000	Analyzed:	10/07/13
Batch#:	203753		

Field ID	Type	Lab ID	Result	RL	MDL
AST-INF	SAMPLE	249598-001	68	5.0	0.69
AST-EFF	SAMPLE	249598-002	64	5.0	0.69
GAC-02 INF	SAMPLE	249598-003	10	5.0	0.69
GAC-02 EFF	SAMPLE	249598-004	4.5 J	5.0	0.69
E-07R	SAMPLE	249598-005	3.0 J	5.0	0.69
E-12	SAMPLE	249598-008	9.1	5.0	0.69
E-17	SAMPLE	249598-009	110	5.0	0.69
E-117	SAMPLE	249598-010	110	5.0	0.69
	BLANK	QC710615	ND	5.0	0.69

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Chromium

Lab #:	249598	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Batch#:	203753
Field ID:	AST-INF	Sampled:	10/02/13
MSS Lab ID:	249598-001	Received:	10/03/13
Matrix:	Filtrate	Prepared:	10/04/13
Units:	ug/L	Analyzed:	10/07/13
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC710616		200.0	199.5	100	80-120		
BSD	QC710617		200.0	212.7	106	80-120	6	20
MS	QC710618	67.88	200.0	267.1	100	74-120		
MSD	QC710619		200.0	272.6	102	74-120	2	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Chromium

Lab #:	249598	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	AST-INF	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	203753
MSS Lab ID:	249598-001	Sampled:	10/02/13
Lab ID:	QC710620	Received:	10/03/13
Matrix:	Filtrate	Analyzed:	10/07/13

MSS Result	MSS RL	Result	RL	% Diff	Lim
67.88	5.000	65.41	25.00	4	10

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Chromium

Lab #:	249598	Location:	PGAS
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	AST-INF	Diln Fac:	1.000
Type:	Post Digest Spike	Batch#:	203753
MSS Lab ID:	249598-001	Sampled:	10/02/13
Lab ID:	QC710621	Received:	10/03/13
Matrix:	Filtrate	Analyzed:	10/07/13

MSS Result	Spiked	Result	%REC	Limits
67.88	200.0	284.1	108	75-125

REPORTING SUMMARY FOR 249598 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CR	
249598-001	MET08	10/07/13 19:59	1.0	+	
249598-002	MET08	10/07/13 20:22	1.0	+	
249598-003	MET08	10/07/13 20:46	1.0	+	
249598-004	MET08	10/07/13 20:51	1.0	+	
249598-005	MET08	10/07/13 20:56	1.0	+	
249598-008	MET08	10/07/13 21:01	1.0	+	
249598-009	MET08	10/07/13 21:06	1.0	+	
249598-010	MET08	10/07/13 21:12	1.0	+	
QC710615	MET08	10/07/13 19:46	1.0	+	
QC710616	MET08	10/07/13 19:51	1.0	+	
QC710617	MET08	10/07/13 19:55	1.0	+	
QC710618	MET08	10/07/13 20:05	1.0	+	
QC710619	MET08	10/07/13 20:09	1.0	+	
QC710620	MET08	10/07/13 20:13	5.0	+	
QC710621	MET08	10/07/13 20:18	1.0	+	

ICP Data

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83403593

Instrument : MET08 Begun : 10/07/13 06:33
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	met08_sn_6010	ICALBLK				10/07/13 06:33	1.0		
002	met08_sn_6010	ICAL	CRI5.1			10/07/13 06:38	1.0	1	
003	met08_sn_6010	ICAL	CS100			10/07/13 06:43	1.0	2	
004	met08_sn_6010	ICAL	CS1K			10/07/13 06:47	1.0	3	
005	met08_sn_6010	ICAL	CS10K			10/07/13 06:52	1.0	4	
006	met08_sn_6010	ICAL	CS100K			10/07/13 06:58	1.0	5	
007	met08_sn_6010	ICV				10/07/13 07:05	1.0	6	
008	met08_sn_6010	XCRI				10/07/13 07:12	1.0	7	
009	met08_sn_6010	XCRI				10/07/13 07:18	1.0	7	
010	met08_sn_6010	CRI				10/07/13 07:25	1.0	7	
011	met08_sn_6010	ICB				10/07/13 07:30	1.0		
012	met08_sn_6010	ICSA				10/07/13 07:35	1.0	8	10:MG=510000
013	met08_sn_6010	ICSAB				10/07/13 08:00	1.0	9	5:MG=480000
014	met08_sn_6010	BLANK	QC710685	Soil	203770	10/07/13 08:06	1.0		
015	met08_sn_6010	BS	QC710686	Soil	203770	10/07/13 08:11	1.0		
016	met08_sn_6010	BSD	QC710687	Soil	203770	10/07/13 08:16	1.0		
017	met08_sn_6010	MSS	249522-005	Soil	203770	10/07/13 08:20	1.0		4:FE=340000
018	met08_sn_6010	MS	QC710688	Soil	203770	10/07/13 08:23	1.0		1:FE=380000
019	met08_sn_6010	MSD	QC710689	Soil	203770	10/07/13 08:27	1.0		
020	met08_sn_6010	SER	QC710690	Soil	203770	10/07/13 08:30	5.0		
021	met08_sn_6010	PDS	QC710691	Soil	203770	10/07/13 08:34	1.0	10 11	
022	met08_sn_6010	CCV				10/07/13 08:37	1.0	12	
023	met08_sn_6010	CCB				10/07/13 08:44	1.0		
024	met08_sn_6010	SAMPLE	249643-001	Soil	203770	10/07/13 08:50	1.0		3:FE=360000
025	met08_sn_6010	SAMPLE	249650-001	Soil	203770	10/07/13 08:53	1.0		5:FE=440000
026	met08_sn_6010	SAMPLE	249650-002	Soil	203770	10/07/13 08:56	1.0		3:FE=460000
027	met08_sn_6010	SAMPLE	249441-001	Miscell.	203770	10/07/13 08:59	10.0		1:CA=250000
028	met08_sn_6010	SAMPLE	249441-002	Miscell.	203770	10/07/13 09:04	10.0		
029	met08_sn_6010	SAMPLE	249461-023	Soil	203770	10/07/13 09:08	1.0		3:FE=400000
030	met08_sn_6010	SAMPLE	249461-025	Soil	203770	10/07/13 09:11	1.0		3:CA=1500000
031	met08_sn_6010	SAMPLE	249530-010	Soil	203770	10/07/13 09:14	1.0		4:FE=430000
032	met08_sn_6010	SAMPLE	249539-001	Soil	203770	10/07/13 09:17	1.0		2:FE=390000
033	met08_sn_6010	SAMPLE	249540-001	Soil	203770	10/07/13 09:21	1.0		5:FE=360000
034	met08_sn_6010	CCV				10/07/13 09:24	1.0	12	
035	met08_sn_6010	CCB				10/07/13 09:31	1.0		
036	met08_sn_6010	ICSAB				10/07/13 09:36	1.0	9	5:MG=490000
037	met08_sn_6010	SAMPLE	249540-002	Soil	203770	10/07/13 09:43	1.0		5:FE=380000
038	met08_sn_6010	SAMPLE	249562-001	Soil	203770	10/07/13 09:46	1.0		2:FE=430000
039	met08_sn_6010	SAMPLE	249562-004	Soil	203770	10/07/13 09:49	1.0		3:FE=400000
040	met08_sn_6010	SAMPLE	249566-001	Soil	203770	10/07/13 09:52	1.0		4:FE=400000
041	met08_sn_6010	SAMPLE	249566-002	Soil	203770	10/07/13 09:56	1.0		4:FE=400000
042	met08_sn_6010	SAMPLE	249586-001	Soil	203770	10/07/13 09:59	1.0		5:FE=540000
043	met08_sn_6010	SAMPLE	249586-002	Soil	203770	10/07/13 10:06	1.0		5:FE=720000
044	met08_sn_6010	SAMPLE	249586-003	Soil	203770	10/07/13 10:13	1.0		6:FE=1100000
045	met08_sn_6010	SAMPLE	249586-004	Soil	203770	10/07/13 10:20	1.0		3:FE=1000000
046	met08_sn_6010	SAMPLE	249540-002	Soil	203770	10/07/13 10:26	1.0		5:FE=380000
047	met08_sn_6010	CCV				10/07/13 10:30	1.0	12	
048	met08_sn_6010	CCB				10/07/13 10:36	1.0		
049	met08_sn_6010	SAMPLE	249586-001	Soil	203770	10/07/13 10:41	1.0		6:FE=540000
050	met08_sn_6010	SAMPLE	249586-002	Soil	203770	10/07/13 10:48	1.0		5:FE=730000
051	met08_sn_6010	SAMPLE	249586-004	Soil	203770	10/07/13 10:55	1.0		3:FE=1000000
052	met08_sn_6010	CCV				10/07/13 11:02	1.0	12	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83403593

Instrument : MET08 Begun : 10/07/13 06:33
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
053	met08_sn_6010	CCB				10/07/13 11:09	1.0		
054	met08_sn_6010	ICSAB				10/07/13 11:14	1.0	9	5:MG=500000
055	met08_sn_6010	BS	QC710686	Soil	203770	10/07/13 11:22	1.0		
056	met08_sn_6010	BSD	QC710687	Soil	203770	10/07/13 11:26	1.0		
057	met08_sn_6010	BLANK	QC710699	TCLP Leachate	203772	10/07/13 11:30	10.0		1:NA=140000
058	met08_sn_6010	BLANK	QC710719	TCLP Leachate	203772	10/07/13 11:36	10.0		
059	met08_sn_6010	BS	QC710700	TCLP Leachate	203772	10/07/13 11:41	1.0		
060	met08_sn_6010	BSD	QC710701	TCLP Leachate	203772	10/07/13 11:45	1.0		
061	met08_sn_6010	MSS	249428-001	TCLP Leachate	203772	10/07/13 11:49	10.0		1:NA=150000
062	met08_sn_6010	BS	QC710700	TCLP Leachate	203772	10/07/13 11:54	1.0		
063	met08_sn_6010	X	PDS			10/07/13 11:58	1.0		
064	met08_sn_6010	BSD	QC710701	TCLP Leachate	203772	10/07/13 12:02	1.0		
065	met08_sn_6010	CCV				10/07/13 12:06	1.0	12	
066	met08_sn_6010	CCB				10/07/13 12:13	1.0		
067	met08_sn_6010	MS	QC710702	TCLP Leachate	203772	10/07/13 12:18	10.0		
068	met08_sn_6010	X	PDS2			10/07/13 12:22	1.0		
069	met08_sn_6010	MSD	QC710703	TCLP Leachate	203772	10/07/13 12:27	10.0		
070	met08_sn_6010	SER	QC710704	TCLP Leachate	203772	10/07/13 12:31	50.0		
071	met08_sn_6010	PDS	QC710705	TCLP Leachate	203772	10/07/13 12:36	10.0	10 11	
072	met08_sn_6010	SAMPLE	249428-003	TCLP Leachate	203772	10/07/13 12:40	10.0		1:NA=150000
073	met08_sn_6010	SAMPLE	249428-005	TCLP Leachate	203772	10/07/13 12:44	10.0		1:NA=140000
074	met08_sn_6010	SAMPLE	249526-001	TCLP Leachate	203772	10/07/13 12:49	10.0		1:CA=160000
075	met08_sn_6010	CCV				10/07/13 12:54	1.0	12	
076	met08_sn_6010	CCB				10/07/13 13:01	1.0		
077	met08_sn_6010	ICSAB				10/07/13 13:06	1.0	9	5:MG=500000
078	met08_sn_6010	BLANK	QC707211	Water	202921	10/07/13 14:01	1.0		
079	met08_sn_6010	BS	QC707212	Water	202921	10/07/13 14:06	1.0		
080	met08_sn_6010	BSD	QC707213	Water	202921	10/07/13 14:10	1.0		
081	met08_sn_6010	MSS	248866-024	Water	202921	10/07/13 14:14	1.0		
082	met08_sn_6010	MS	QC707214	Water	202921	10/07/13 14:19	1.0		
083	met08_sn_6010	MSD	QC707215	Water	202921	10/07/13 14:23	1.0		
084	met08_sn_6010	SER	QC707216	Water	202921	10/07/13 14:27	5.0		
085	met08_sn_6010	PDS	QC707217	Water	202921	10/07/13 14:32	1.0	13 14	
086	met08_sn_6010	CCV				10/07/13 14:36	1.0	12	
087	met08_sn_6010	CCB				10/07/13 14:43	1.0		
088	met08_sn_6010	ICSAB				10/07/13 14:48	1.0	9	5:MG=490000
089	met08_sn_6010	BLANK	QC710778	Soil	203789	10/07/13 15:00	1.0		
090	met08_sn_6010	BS	QC710779	Soil	203789	10/07/13 15:05	1.0		
091	met08_sn_6010	BSD	QC710780	Soil	203789	10/07/13 15:09	1.0		
092	met08_sn_6010	MSS	249643-001	Soil	203789	10/07/13 15:13	1.0		3:FE=380000
093	met08_sn_6010	MS	QC710781	Soil	203789	10/07/13 15:16	1.0		1:FE=410000
094	met08_sn_6010	MSD	QC710782	Soil	203789	10/07/13 15:20	1.0		1:FE=430000
095	met08_sn_6010	BS	QC707212	Water	202921	10/07/13 15:23	1.0		
096	met08_sn_6010	BSD	QC707213	Water	202921	10/07/13 15:27	1.0		
097	met08_sn_6010	MSS	248931-001	Water	202921	10/07/13 15:31	1.0		1:CA=240000
098	met08_sn_6010	MS	QC707253	Water	202921	10/07/13 15:35	1.0		2:CA=250000
099	met08_sn_6010	CCV				10/07/13 15:39	1.0	12	
100	met08_sn_6010	CCB				10/07/13 15:46	1.0		
101	met08_sn_6010	ICSAB				10/07/13 15:51	1.0	9	5:AL=490000
102	met08_sn_6010	MSD	QC707254	Water	202921	10/07/13 15:59	1.0		2:CA=250000
103	met08_sn_6010	SAMPLE	248931-002	Water	202921	10/07/13 16:26	1.0		1:CA=110000
104	met08_sn_6010	SAMPLE	248931-008	Water	202921	10/07/13 16:30	1.0		1:CA=160000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83403593

Instrument : MET08 Begun : 10/07/13 06:33
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
105	met08_sn_6010	SAMPLE	248931-009	Water	202921	10/07/13 16:35	1.0		1:CA=140000
106	met08_sn_6010	SAMPLE	248931-011	Water	202921	10/07/13 16:40	1.0		1:CA=160000
107	met08_sn_6010	SAMPLE	248931-013	Water	202921	10/07/13 16:44	1.0		1:CA=110000
108	met08_sn_6010	BLANK	QC708269	Water	203181	10/07/13 16:49	1.0		
109	met08_sn_6010	LCS	QC708270	Water	203181	10/07/13 16:55	1.0		
110	met08_sn_6010	MSS	248903-001	Water	203181	10/07/13 16:59	1.0		1:CA=340000
111	met08_sn_6010	MS	QC708271	Water	203181	10/07/13 17:06	1.0		
112	met08_sn_6010	MSD	QC708272	Water	203181	10/07/13 17:14	1.0		
113	met08_sn_6010	CCV				10/07/13 17:22	1.0	12	
114	met08_sn_6010	CCB				10/07/13 17:28	1.0		
115	met08_sn_6010	SAMPLE	248903-002	Water	203181	10/07/13 17:33	1.0		
116	met08_sn_6010	SAMPLE	249157-013	Water	203181	10/07/13 17:39	1.0		3:MG=610000
117	met08_sn_6010	BLANK	QC709107	Filtrate	203394	10/07/13 17:46	1.0		
118	met08_sn_6010	BS	QC709108	Filtrate	203394	10/07/13 17:51	1.0		
119	met08_sn_6010	BSD	QC709109	Filtrate	203394	10/07/13 17:55	1.0		
120	met08_sn_6010	MSS	249359-001	Filtrate	203394	10/07/13 18:00	1.0		1:NA=130000
121	met08_sn_6010	MS	QC709110	Filtrate	203394	10/07/13 18:05	1.0		
122	met08_sn_6010	MSD	QC709111	Filtrate	203394	10/07/13 18:09	1.0		
123	met08_sn_6010	SAMPLE	249355-001	Filtrate	203394	10/07/13 18:13	1.0		2:NA=120000
124	met08_sn_6010	SAMPLE	249355-002	Filtrate	203394	10/07/13 18:18	1.0		2:CA=140000
125	met08_sn_6010	CCV				10/07/13 18:23	1.0	12	
126	met08_sn_6010	CCB				10/07/13 18:30	1.0		
127	met08_sn_6010	ICSAB				10/07/13 18:35	1.0	9	5:AL=520000
128	met08_sn_6010	X	RINSE			10/07/13 18:42	1.0		
129	met08_sn_6010	SAMPLE	249355-003	Filtrate	203394	10/07/13 18:46	1.0		1:NA=110000
130	met08_sn_6010	SAMPLE	249177-001	Filtrate	203394	10/07/13 18:51	1.0		3:NA=490000
131	met08_sn_6010	SAMPLE	249177-002	Filtrate	203394	10/07/13 18:56	1.0		2:NA=330000
132	met08_sn_6010	SAMPLE	249177-003	Filtrate	203394	10/07/13 19:01	1.0		1:NA=350000
133	met08_sn_6010	SAMPLE	249177-004	Filtrate	203394	10/07/13 19:05	1.0		2:NA=370000
134	met08_sn_6010	SAMPLE	249177-005	Filtrate	203394	10/07/13 19:10	1.0		4:NA=400000
135	met08_sn_6010	SAMPLE	249177-006	Filtrate	203394	10/07/13 19:15	1.0		2:NA=280000
136	met08_sn_6010	SAMPLE	249359-002	Filtrate	203394	10/07/13 19:20	1.0		1:NA=120000
137	met08_sn_6010	SAMPLE	249359-003	Filtrate	203394	10/07/13 19:25	1.0		
138	met08_sn_6010	CCV				10/07/13 19:30	1.0	12	
139	met08_sn_6010	CCB				10/07/13 19:37	1.0		
140	met08_sn_6010	SAMPLE	249359-004	Filtrate	203394	10/07/13 19:42	1.0		
141	met08_sn_6010	BLANK	QC710615	Filtrate	203753	10/07/13 19:46	1.0		
142	met08_sn_6010	BS	QC710616	Filtrate	203753	10/07/13 19:51	1.0		
143	met08_sn_6010	BSD	QC710617	Filtrate	203753	10/07/13 19:55	1.0		
144	met08_sn_6010	MSS	249598-001	Filtrate	203753	10/07/13 19:59	1.0		3:NA=360000
145	met08_sn_6010	MS	QC710618	Filtrate	203753	10/07/13 20:05	1.0		
146	met08_sn_6010	MSD	QC710619	Filtrate	203753	10/07/13 20:09	1.0		
147	met08_sn_6010	SER	QC710620	Filtrate	203753	10/07/13 20:13	5.0		
148	met08_sn_6010	PDS	QC710621	Filtrate	203753	10/07/13 20:18	1.0	13 14	
149	met08_sn_6010	SAMPLE	249598-002	Filtrate	203753	10/07/13 20:22	1.0		3:NA=350000
150	met08_sn_6010	CCV				10/07/13 20:27	1.0	12	
151	met08_sn_6010	CCB				10/07/13 20:34	1.0		
152	met08_sn_6010	ICSAB				10/07/13 20:39	1.0	9	5:AL=540000
153	met08_sn_6010	SAMPLE	249598-003	Filtrate	203753	10/07/13 20:46	1.0		1:CA=210000
154	met08_sn_6010	SAMPLE	249598-004	Filtrate	203753	10/07/13 20:51	1.0		1:CA=200000
155	met08_sn_6010	SAMPLE	249598-005	Filtrate	203753	10/07/13 20:56	1.0		2:NA=320000
156	met08_sn_6010	SAMPLE	249598-008	Filtrate	203753	10/07/13 21:01	1.0		3:CA=300000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83403593

Instrument : MET08 Begun : 10/07/13 06:33
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
157	met08_sn_6010	SAMPLE	249598-009	Filtrate	203753	10/07/13 21:06	1.0		3:CA=400000
158	met08_sn_6010	SAMPLE	249598-010	Filtrate	203753	10/07/13 21:12	1.0		3:CA=400000
159	met08_sn_6010	SAMPLE	249416-014	Filtrate	203753	10/07/13 21:17	1.0		1:NA=160000
160	met08_sn_6010	SAMPLE	249416-016	Filtrate	203753	10/07/13 21:22	1.0		1:NA=160000
161	met08_sn_6010	SAMPLE	249177-001	Filtrate	203394	10/07/13 21:27	100.0		
162	met08_sn_6010	SAMPLE	249177-005	Filtrate	203394	10/07/13 21:32	100.0		
163	met08_sn_6010	CCV				10/07/13 21:37	1.0	12	
164	met08_sn_6010	CCB				10/07/13 21:44	1.0		
165	met08_sn_6010	ICSAB				10/07/13 21:49	1.0	9	5:AL=520000

NT 10/08/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 165.

CRT 10/07/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 57 through 152.

Standards used: 1=S23297 2=S23299 3=S23298 4=S23300 5=S23301 6=S23304 7=S23306 8=S23302 9=S23303 10=S22594 11=S22595 12=S23305 13=S21652 14=S21653

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83403593

Date : 10/07/13 Reference : met08_sn_6010
Sequence : MET08 10/07/13 Analyzed : 10/07/13 06:38

#	Type	Sample ID	Y A
		ICAL STD	3141592
		LOWER LIMIT	942478
		UPPER LIMIT	6283183
011	ICB		3229248
012	ICSA		2686152
013	ICSAB		2703744
014	BLANK	QC710685	3312539
015	BS	QC710686	3136107
016	BSD	QC710687	3134257
018	MS	QC710688	3118064
019	MSD	QC710689	3114563
020	SER	QC710690	3093938
021	PDS	QC710691	3094763
022	CCV		3112161
023	CCB		3239130
024	SAMPLE	249643-001	3099983
025	SAMPLE	249650-001	3061756
026	SAMPLE	249650-002	3094006
027	SAMPLE	249441-001	3075902
028	SAMPLE	249441-002	3180693
029	SAMPLE	249461-023	3164818
030	SAMPLE	249461-025	2825332
032	SAMPLE	249539-001	3170269
033	SAMPLE	249540-001	3115912
034	CCV		3157842
035	CCB		3262231
036	ICSAB		2739757
037	SAMPLE	249540-002	3135819
038	SAMPLE	249562-001	3159734
039	SAMPLE	249562-004	3140241
040	SAMPLE	249566-001	3136297
041	SAMPLE	249566-002	3027604
042	SAMPLE	249586-001	3060551
043	SAMPLE	249586-002	3027718
044	SAMPLE	249586-003	3015237
045	SAMPLE	249586-004	3031616
046	SAMPLE	249540-002	3115015
047	CCV		3158204
048	CCB		3271676
049	SAMPLE	249586-001	3037456
050	SAMPLE	249586-002	3043086
051	SAMPLE	249586-004	2993537
052	CCV		3169993
053	CCB		3273263
054	ICSAB		2751944
055	BS	QC710686	3129884
056	BSD	QC710687	3134813
057	BLANK	QC710699	3083903
058	BLANK	QC710719	3226645
059	BS	QC710700	3116917
060	BSD	QC710701	3128399

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83403593

Date : 10/07/13 Reference : met08_sn_6010
Sequence : MET08 10/07/13 Analyzed : 10/07/13 06:38

#	Type	Sample ID	Y A
061	MSS	249428-001	2997581
062	BS	QC710700	3087620
064	BSD	QC710701	3123339
065	CCV		3115878
066	CCB		3270371
067	MS	QC710702	3037906
069	MSD	QC710703	3026844
070	SER	QC710704	3135072
071	PDS	QC710705	2978755
072	SAMPLE	249428-003	3024392
073	SAMPLE	249428-005	3108791
074	SAMPLE	249526-001	3077225
075	CCV		3167237
076	CCB		3272061
077	ICSAB		2729483
078	BLANK	QC707211	3350949
079	BS	QC707212	3230329
080	BSD	QC707213	3188998
082	MS	QC707214	3183238
083	MSD	QC707215	3207653
084	SER	QC707216	3259881
085	PDS	QC707217	3110084
086	CCV		3125917
087	CCB		3250890
088	ICSAB		2758774
089	BLANK	QC710778	3312751
090	BS	QC710779	3141134
091	BSD	QC710780	3144154
092	MSS	249643-001	3146130
093	MS	QC710781	3091681
094	MSD	QC710782	3112688
095	BS	QC707212	3135769
096	BSD	QC707213	3119705
097	MSS	248931-001	2928650
098	MS	QC707253	2932230
099	CCV		3114870
100	CCB		3219125
101	ICSAB		2677448
102	MSD	QC707254	2925596
103	SAMPLE	248931-002	3087197
104	SAMPLE	248931-008	3030903
105	SAMPLE	248931-009	3017202
106	SAMPLE	248931-011	2953820
107	SAMPLE	248931-013	3058286
108	BLANK	QC708269	3260992
109	LCS	QC708270	3130138
110	MSS	248903-001	2671128
111	MS	QC708271	2612693
112	MSD	QC708272	2558466
113	CCV		2934177
114	CCB		3063276
115	SAMPLE	248903-002	3178319

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83403593

Date : 10/07/13 Reference : met08_sn_6010
Sequence : MET08 10/07/13 Analyzed : 10/07/13 06:38

#	Type	Sample ID	Y A
116	SAMPLE	249157-013	2341224
117	BLANK	QC709107	3240678
118	BS	QC709108	3043295
119	BSD	QC709109	3049305
120	MSS	249359-001	3007173
121	MS	QC709110	2938058
122	MSD	QC709111	2954253
125	CCV		3023529
126	CCB		3176305
127	ICSAB		2698717
130	SAMPLE	249177-001	2751197
131	SAMPLE	249177-002	2794629
132	SAMPLE	249177-003	2875129
133	SAMPLE	249177-004	2787473
134	SAMPLE	249177-005	2792729
135	SAMPLE	249177-006	2812879
136	SAMPLE	249359-002	2968126
137	SAMPLE	249359-003	3156017
138	CCV		3011110
139	CCB		3135897
141	BLANK	QC710615	3151297
142	BS	QC710616	3038929
143	BSD	QC710617	2992878
144	MSS	249598-001	2698622
145	MS	QC710618	2628286
146	MSD	QC710619	2542800
147	SER	QC710620	2801992
148	PDS	QC710621	2651655
149	SAMPLE	249598-002	2640071
150	CCV		2828473
151	CCB		2976080
152	ICSAB		2506344
153	SAMPLE	249598-003	2748248
154	SAMPLE	249598-004	2794117
155	SAMPLE	249598-005	2694965
156	SAMPLE	249598-008	2570721
157	SAMPLE	249598-009	2629162
158	SAMPLE	249598-010	2592770
161	SAMPLE	249177-001	2971270
162	SAMPLE	249177-005	3039563
163	CCV		2919539
164	CCB		3014636
165	ICSAB		2569205

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 249598 METALS Filtrate: EPA 6010B

Inst : MET08 Reviewer : ---
Calnum : 83403593001 Date : 07-OCT-2013 06:33
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	met08_sn_6010	83403593002	CRI5.1	07-OCT-2013 06:38	S23297
L2	met08_sn_6010	83403593003	CS100	07-OCT-2013 06:43	S23299
L3	met08_sn_6010	83403593004	CS1K	07-OCT-2013 06:47	S23298
L4	met08_sn_6010	83403593005	CS10K	07-OCT-2013 06:52	S23300
L5	met08_sn_6010	83403593006	CS100K	07-OCT-2013 06:58	S23301

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Chromium	A	114.96	112.11	109.62	108.97		LOR0	0.00000	0.00918		111.41	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Chromium	A	5.0000	5	100.00	3	1000.0	1	10000	0		

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 249598 METALS Filtrate
EPA 6010B

Inst : MET08
Calnum : 83403593001 Cal Date : 07-OCT-2013

ICV 83403593007 (07-OCT-2013) stds: S23304

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Chromium	A	5000	4994	ug/L	0	10	

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR 249598 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83403593012 File : met08_sn_6010 Time : 07-OCT-2013 07:35
Cal : 83403593001 Caldate : 07-OCT-2013
Standards: S23302

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19980	ug/L	100
Copper	A	20000	21420	ug/L	107
Manganese	A	20000	19220	ug/L	96
Nickel	A	20000	18920	ug/L	95
Vanadium	A	20000	20170	ug/L	101
Aluminum	R	500000	507600	ug/L	102
Calcium	R	500000	507600	ug/L	102
Iron	R	200000	196300	ug/L	98
Magnesium	R	500000	511300	ug/L	102
Titanium	R	20000	21570	ug/L	108

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3141592	2686152	-14.50

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 249598 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83403593127 File : met08_sn_6010 Time : 07-OCT-2013 18:35
Cal : 83403593001 Caldate : 07-OCT-2013
Standards: S23303

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	515.2	ug/L	3	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3141592	2698717	-14.10

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 249598 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83403593138 File : met08_sn_6010 Time : 07-OCT-2013 19:30
Cal : 83403593001 Caldate : 07-OCT-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	111.41	113.43	5000	5205	ug/L	4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3141592	3011110	-4.15

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 249598 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83403593139 File : met08_sn_6010 Time : 07-OCT-2013 19:37
Cal : 83403593001 Caldate : 07-OCT-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3141592	3135897	-0.18

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 249598 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83403593150 File : met08_sn_6010 Time : 07-OCT-2013 20:27
Cal : 83403593001 Caldate : 07-OCT-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	111.41	114.25	5000	5242	ug/L	5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3141592	2828473	-9.97

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 249598 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83403593151 File : met08_sn_6010 Time : 07-OCT-2013 20:34
Cal : 83403593001 Caldate : 07-OCT-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3141592	2976080	-5.27

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 249598 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83403593152 File : met08_sn_6010 Time : 07-OCT-2013 20:39
Cal : 83403593001 Caldate : 07-OCT-2013
Standards: S23303

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	521.4	ug/L	4	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3141592	2506344	-20.22

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 249598 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83403593163 File : met08_sn_6010 Time : 07-OCT-2013 21:37
Cal : 83403593001 Caldate : 07-OCT-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	111.41	113.07	5000	5188	ug/L	4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3141592	2919539	-7.07

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 249598 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83403593164 File : met08_sn_6010 Time : 07-OCT-2013 21:44
Cal : 83403593001 Caldate : 07-OCT-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3141592	3014636	-4.04

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 249598 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83403593165 File : met08_sn_6010 Time : 07-OCT-2013 21:49
Cal : 83403593001 Caldate : 07-OCT-2013
Standards: S23303

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	516.6	ug/L	3	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3141592	2569205	-18.22

SAMPLE PREPARATION SUMMARY

Batch # : 203753 Analysis : ICAP
Started By : NCD Prep Date : 04-OCT-2013 16:20 Finished By : NCD
Method : 3010A SOP Version : 3010A_icp_rv15 Units : mL
Spike #1 ID : S21652 Spike #2 ID : S21653

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
249416-014		Filtrate	50	50	1	1.0						FE	
249416-016		Filtrate	50	50	1	1.0						FE	
249598-001		Filtrate	50	50	1	1.0						CR	
249598-002		Filtrate	50	50	1	1.0						CR	
249598-003		Filtrate	50	50	1	1.0						CR	
249598-004		Filtrate	50	50	1	1.0						CR	
249598-005		Filtrate	50	50	1	1.0						CR	
249598-008		Filtrate	50	50	1	1.0						CR	
249598-009		Filtrate	50	50	1	1.0						CR	
249598-010		Filtrate	50	50	1	1.0						CR	
QC710615	BLANK	Filtrate	50	50	1	1.0							
QC710616	BS	Filtrate	50	50	1	1.0		.5	.5				
QC710617	BSD	Filtrate	50	50	1	1.0		.5	.5				
QC710618	MS	Filtrate	50	50	1	1.0		.5	.5				
QC710619	MSD	Filtrate	50	50	1	1.0		.5	.5				
QC710620	SER	Filtrate	50	50	1	1.0							
QC710621	PDS	Filtrate	50	50	1	1.0							

PRW 10/09/13 : Filter blank for 249419 is missing

Analyst: NT Date: 10/08/13 Reviewer: HDD Date: 10/08/13

Water Digestion for ICP

Curtis & Tompkins, Lt

LIMS Batch #: 203753
Digested by: NCP
Date Digested: ~~Nct~~ 10/4/2013

Digestion Method
☒ EPA 3010a for ICP
☐ EPA 200.7
☐ Filtrate prep

BK3476
Page 74

Lvl.	Sample #	Container ID	Volume Sample(mL)	Final Volume (mL)	Filtered? (y/n)	ID Π	Comments
	BLK		☑ 50 ☐	☑ 50 ☐	no		BLK filter 249598
	BS		☑ 50 ☐	☑ 50 ☐			
	BSD		☑ 50 ☐	☑ 50 ☐			
II	249598-001 MS	E	☑ 50 ☐	☑ 50 ☐			
5	-001 MSD		☑ 50 ☐	☑ 50 ☐			
	-001		☑ 50 ☐	☑ 50 ☐			
	-002		☑ 50 ☐	☑ 50 ☐			
	-003		☑ 50 ☐	☑ 50 ☐			
	-004		☑ 50 ☐	☑ 50 ☐			
10	-005		☑ 50 ☐	☑ 50 ☐			
	-008		☑ 50 ☐	☑ 50 ☐			
	-009		☑ 50 ☐	☑ 50 ☐			
	-010		☑ 50 ☐	☑ 50 ☐			
II	249416-014		☑ 50 ☐	☑ 50 ☐			
15	-016		☑ 50 ☐	☑ 50 ☐			
			☐ 50 ☐	☐ 50 ☐			
			☐ 50 ☐	☐ 50 ☐			
			☐ 50 ☐	☐ 50 ☐			
			☐ 50 ☐	☐ 50 ☐			
20			☐ 50 ☐	☐ 50 ☐			
			☐ 50 ☐	☐ 50 ☐			
			☐ 50 ☐	☐ 50 ☐			
			☐ 50 ☐	☐ 50 ☐			
			☐ 50 ☐	☐ 50 ☐			
			☐ 50 ☐	☐ 50 ☐			

	Reagent ID or LIMS #	Initials / Date
Digestion tubes, lot #	169172	NCP 10/4/2013
0.5 mL of spike solution (Std1) was added to all spikes	S21652	
0.5 mL of spike solution (Std2) was added to all spikes	S21653	
Digestion Temperature (°C), Block and Probe Location	—	
digestion begun at (time)	11:20 AM	
Concentrated HNO3	3390JTD	
1:1 HCl	18501-0572-15	
digestion ended at (time)	—	
☐ filtered thru' Whatman # 541	—	
Relinquished to ICP group	ICAP	

10/4/2013
Prep Chemist / Date

Continued from page _____.
Continued on page _____.

Reviewed Online / See L

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 250555
ANALYTICAL REPORT

Haley & Aldrich 400 East Van Buren Street Phoenix, CA 85004	Project : 39049-103 Location : PGA South Level : III

Sample ID	Lab ID
E-101	250555-001
E-1101	250555-002
GAC-02	250555-003
GAC-102	250555-004
GAC-03	250555-005
NE-02	250555-006
NE-03	250555-007
NE-04	250555-008
GMW-24A	250555-009
NEW-01	250555-010
NEW-101	250555-011
E-201	250555-012
TRIP BLANKS	250555-013
E-04	250555-014

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Isabelle Choy Date: 11/19/2013

Isabelle Choy
Project Manager
isabelle.choy@ctberk.com

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**250555**
Client:	**Haley & Aldrich**
Project:	**39049-103**
Location:	**PGA South**
Request Date:	**11/06/13**
Samples Received:	**11/06/13**

This data package contains sample and QC results for fourteen water samples, requested for the above referenced project on 11/06/13. See attached cooler receipt form for any sample receipt problems or discrepancies.

Volatile Organics by GC/MS (EPA 8260B):
High response was observed for bromomethane in the CCV analyzed 11/16/13 12:59; this analyte was not detected at or above the RL in the associated samples.

No other analytical problems were encountered.

Metals (EPA 6010B) Water:
No analytical problems were encountered.

Metals (EPA 6010B) Filtrate:
No analytical problems were encountered.

Chain of Custody

CHAIN OF CUSTODY

Curtis & Tompkins Laboratories
ENVIRONMENTAL ANALYTICAL TESTING LABORATORY
In Business Since 1878

2323 Fifth Street
Berkeley, CA 94710

Phone (510) 486-0900
Fax (510) 486-0532

Chain of Custody # _____

C&T LOGIN # 250555

Project No: 39049-103
Project Name: PGAS
Project P. O. No: 39049-103
EDD Format: Report Level ☐ II ☐ III ☐ IV
Turnaround Time: ☐ RUSH _____ ☒ Standard

Sampler: Mark Argall
Report To: Paula Chang
Company: H+A
Telephone: 602-760-2418
Email: pchang@haleyaldrich.com

ANALYTICAL REQUEST

Lab No.	Sample ID.	Date Collected	Time Collected	Water	Solid	# of Containers	HCl	H2SO4	HNO3	NaOH	None	8260 Halogenated only	6010B Total chrome	6010B Lab filtered & preserved dissolved chrome
1	E-101	11-5-13	0750	X		3	X		X			X	X	X
2	E-1101		0750	X		3	X		X			X	X	X
3	GAC-02		0800	X		5	X		X			X	X	X
4	GAC-102		0800	X		5	X		X			X	X	X
5	GAC-03		0730	X		5	X		X			X	X	X
↓	GAC-03 MS/MSD		0730	X		10	X		X			X	X	X
6	NE-02		1115	X		5	X		X			X	X	X
↓	NE-02 MS/MSD		1115	X		10	X		X			X	X	X
7	NE-03		1105	X		5	X		X			X	X	X
8	NE-04		1055	X		5	X		X			X	X	X
9	GMW-24A		1045	X		3	X					X		
10	NEW-01		1025	X		3	X					X		
11	NEW-101		1025	X		3	X					X		

Notes: Lab filter & preserve 6010B dissolved chrome upon receipt

SAMPLE RECEIPT
☐ Intact
☐ Cold
☐ On Ice
☐ Ambient

RELINQUISHED BY:
[signature] 11-5-13 DATE: TIME:
DATE: TIME:
DATE: TIME:

RECEIVED BY:
Tami Rankin DATE: 11/6/13 TIME: 1000
DATE: TIME:
DATE: TIME:

CHAIN OF CUSTODY

Curtis & Tompkins Laboratories
ENVIRONMENTAL ANALYTICAL TESTING LABORATORY
In Business Since 1878

2323 Fifth Street
Berkeley, CA 94710

Phone (510) 486-0900
Fax (510) 486-0532

Chain of Custody # _____

C&T LOGIN # 250555

Project No: 39049-103
Project Name: P6AS
Project P. O. No: 39049-103
EDD Format: Report Level ☐ II ☐ III ☐ IV
Turnaround Time: ☐ RUSH ☒ Standard

Sampler: Mark Argell
Report To: Paula Chang
Company: HLA
Telephone: 602-760-2418
Email: pchang@HaleyAldrich.com

Lab No.	Sample ID.	SAMPLING Date Collected	SAMPLING Time Collected	MATRIX Water	MATRIX Solid	# of Containers	CHEMICAL PRESERVATIVE HCl	H2SO4	HNO3	NaOH	None	ANALYTICAL REQUEST 8260B Halogenated only
12	E-201	11-5-13	0915	X		3	X					X
13	Trip Blanks			X		3	X					X
	Temp Blank			X		1						
14	E-04	11-5-13	1035	X		3	X					X

Notes:

SAMPLE RECEIPT
☐ Intact
☐ Cold
☐ On Ice
☐ Ambient

RELINQUISHED BY:
[signature] 11-5-13 DATE: TIME:
DATE: TIME:
DATE: TIME:

RECEIVED BY:
Imea Rankin DATE: 11/6/13 TIME: 1000
DATE: TIME:
DATE: TIME:

COOL R RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 250555 Date Received 11/6/13 Number of coolers 1
Client H&A Project PGAS (39049-103)

Date Opened 11/6/13 By (print) TR (sign) Tina Rankin
Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc) FEDEX (YES) NO
   Shipping info 8034 7753 1808

2A. Were custody seals present? .... ☒ YES (circle) (on cooler) on samples ☐ NO
   How many 2 Name Signature Date 11/5/13
2B. Were custody seals intact upon arrival? (YES) NO N/A
3. Were custody papers dry and intact when received? (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) (YES) NO
6. Indicate the packing in cooler: (if other, describe)

☐ Bubble Wrap ☒ Foam blocks ☒ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) 1.7

☐ Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES (NO)
   If YES, what time were they transferred to freezer?
9. Did all bottles arrive unbroken/unopened? (YES) NO
10. Are there any missing / extra samples? YES (NO)
11. Are samples in the appropriate containers for indicated tests? (YES) NO
12. Are sample labels present, in good condition and complete? (YES) NO
13. Do the sample labels agree with custody papers? (YES) NO
14. Was sufficient amount of sample sent for tests requested? (YES) NO
15. Are the samples appropriately preserved? (YES) NO N/A
16. Did you check preservatives for all bottles for each sample? (YES) NO N/A
17. Did you document your preservative check? (YES) NO N/A
18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO (N/A)
19. Did you change the hold time in LIMS for preserved terracores? YES NO (N/A)
20. Are bubbles > 6mm absent in VOA samples? (YES) NO N/A
21. Was the client contacted concerning this sample delivery? YES (NO)
   If YES, Who was called? By Date:

COMMENTS

Rev 10, 11/11

Curtis & Tompkins Sample Preservation for 250555

Sample	pH: <2	>9	>12	Other
-001a	[ ]	[ ]	[ ]	
b	[ ]	[ ]	[ ]	
c	[ ]	[ ]	[ ]	
d	[X]	[ ]	[ ]	
e	[ ]	[ ]	[ ]	
-002a	[ ]	[ ]	[ ]	
b	[ ]	[ ]	[ ]	
c	[ ]	[ ]	[ ]	
d	[X]	[ ]	[ ]	
e	[ ]	[ ]	[ ]	
-003a	[ ]	[ ]	[ ]	
b	[ ]	[ ]	[ ]	
c	[ ]	[ ]	[ ]	
d	[X]	[ ]	[ ]	
e	[ ]	[ ]	[ ]	
-004a	[ ]	[ ]	[ ]	
b	[ ]	[ ]	[ ]	
c	[ ]	[ ]	[ ]	
d	[X]	[ ]	[ ]	
e	[ ]	[ ]	[ ]	
-005a	[ ]	[ ]	[ ]	
b	[ ]	[ ]	[ ]	
c	[ ]	[ ]	[ ]	
d	[ ]	[ ]	[ ]	
e	[ ]	[ ]	[ ]	
f	[ ]	[ ]	[ ]	
g	[ ]	[ ]	[ ]	
h	[ ]	[ ]	[ ]	
i	[ ]	[ ]	[ ]	
j	[X]	[ ]	[ ]	
k	[X]	[ ]	[ ]	
l	[X]	[ ]	[ ]	
m	[ ]	[ ]	[ ]	
n	[ ]	[ ]	[ ]	
o	[ ]	[ ]	[ ]	
-006a	[ ]	[ ]	[ ]	
b	[ ]	[ ]	[ ]	
c	[ ]	[ ]	[ ]	
d	[ ]	[ ]	[ ]	
e	[ ]	[ ]	[ ]	
f	[ ]	[ ]	[ ]	
g	[ ]	[ ]	[ ]	
h	[ ]	[ ]	[ ]	
i	[ ]	[ ]	[ ]	
j	[X]	[ ]	[ ]	
k	[X]	[ ]	[ ]	
l	[X]	[ ]	[ ]	
m	[ ]	[ ]	[ ]	
n	[ ]	[ ]	[ ]	
o	[ ]	[ ]	[ ]	
-007a	[ ]	[ ]	[ ]	
b	[ ]	[ ]	[ ]	
c	[ ]	[ ]	[ ]	
d	[X]	[ ]	[ ]	
e	[ ]	[ ]	[ ]	
-008a	[ ]	[ ]	[ ]	
b	[ ]	[ ]	[ ]	
c	[ ]	[ ]	[ ]	
d	[X]	[ ]	[ ]	
e	[ ]	[ ]	[ ]	

Analyst: TR
Date: 11/6/13

Laboratory Job Number 250555

ANALYTICAL REPORT

Volatile Organics by GC/MS

Matrix: Water

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	250555	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	E-101	Batch#:	205153
Lab ID:	250555-001	Sampled:	11/05/13
Matrix:	Water	Received:	11/06/13
Units:	ug/L	Analyzed:	11/16/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	1.0 J	2.0	0.1
1,1-Dichloroethene	0.8	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.3 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	0.4 J	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	23	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	93	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	100	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	250555	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	E-1101	Batch#:	205153
Lab ID:	250555-002	Sampled:	11/05/13
Matrix:	Water	Received:	11/06/13
Units:	ug/L	Analyzed:	11/16/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	1.0 J	2.0	0.1
1,1-Dichloroethene	0.8	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.3 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	0.4 J	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	23	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	90	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	100	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	250555	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GAC-02	Batch#:	205153
Lab ID:	250555-003	Sampled:	11/05/13
Matrix:	Water	Received:	11/06/13
Units:	ug/L	Analyzed:	11/16/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.2 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	2.7	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	90	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	100	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	250555	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GAC-102	Batch#:	205153
Lab ID:	250555-004	Sampled:	11/05/13
Matrix:	Water	Received:	11/06/13
Units:	ug/L	Analyzed:	11/16/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.1 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	2.3	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	92	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	99	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	250555	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GAC-03	Batch#:	205153
Lab ID:	250555-005	Sampled:	11/05/13
Matrix:	Water	Received:	11/06/13
Units:	ug/L	Analyzed:	11/16/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	0.4 J	2.0	0.1
1,1-Dichloroethene	0.4 J	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.3 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	0.4 J	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	22	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	1.4	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	92	76-138
Toluene-d8	96	80-120
Bromofluorobenzene	100	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	250555	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	NE-02	Batch#:	205153
Lab ID:	250555-006	Sampled:	11/05/13
Matrix:	Water	Received:	11/06/13
Units:	ug/L	Analyzed:	11/16/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	0.8	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	92	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	101	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	250555	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	NE-03	Batch#:	205153
Lab ID:	250555-007	Sampled:	11/05/13
Matrix:	Water	Received:	11/06/13
Units:	ug/L	Analyzed:	11/16/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	6.2	2.0	0.1
1,1-Dichloroethene	3.1	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	0.3 J	0.5	0.1
cis-1,2-Dichloroethene	0.2 J	0.5	0.1
Chloroform	0.4 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	28	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	0.8	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	92	76-138
Toluene-d8	96	80-120
Bromofluorobenzene	100	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	250555	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	NE-04	Batch#:	205153
Lab ID:	250555-008	Sampled:	11/05/13
Matrix:	Water	Received:	11/06/13
Units:	ug/L	Analyzed:	11/16/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	12	2.0	0.1
1,1-Dichloroethene	3.2	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	0.2 J	0.5	0.1
cis-1,2-Dichloroethene	0.3 J	0.5	0.1
Chloroform	0.5 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	48	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	1.1	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	92	76-138
Toluene-d8	96	80-120
Bromofluorobenzene	99	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	250555	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GMW-24A	Batch#:	205153
Lab ID:	250555-009	Sampled:	11/05/13
Matrix:	Water	Received:	11/06/13
Units:	ug/L	Analyzed:	11/16/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	6.1	2.0	0.1
1,1-Dichloroethene	12	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	0.8	0.5	0.1
cis-1,2-Dichloroethene	0.4 J	0.5	0.1
Chloroform	0.9 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	0.2 J	0.5	0.1
Trichloroethene	74	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	0.8	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	90	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	99	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	250555	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	NEW-01	Batch#:	205153
Lab ID:	250555-010	Sampled:	11/05/13
Matrix:	Water	Received:	11/06/13
Units:	ug/L	Analyzed:	11/16/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.1 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	6.5	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	93	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	99	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	250555	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	NEW-101	Batch#:	205153
Lab ID:	250555-011	Sampled:	11/05/13
Matrix:	Water	Received:	11/06/13
Units:	ug/L	Analyzed:	11/16/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.1 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	5.8	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	92	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	99	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	250555	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	E-201	Batch#:	205153
Lab ID:	250555-012	Sampled:	11/05/13
Matrix:	Water	Received:	11/06/13
Units:	ug/L	Analyzed:	11/16/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	0.9	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	95	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	98	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	250555	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	TRIP BLANKS	Batch#:	205153
Lab ID:	250555-013	Sampled:	11/05/13
Matrix:	Water	Received:	11/06/13
Units:	ug/L	Analyzed:	11/16/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	91	76-138
Toluene-d8	96	80-120
Bromofluorobenzene	99	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	250555	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	E-04	Batch#:	205153
Lab ID:	250555-014	Sampled:	11/05/13
Matrix:	Water	Received:	11/06/13
Units:	ug/L	Analyzed:	11/16/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	1.3	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	0.1 J	0.5	0.1
cis-1,2-Dichloroethene	0.1 J	0.5	0.1
Chloroform	0.4 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	36	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	94	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	99	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	250555	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	205153
Units:	ug/L	Analyzed:	11/16/13
Diln Fac:	1.000		

Type: BS Lab ID: QC716494

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	14.94	120	77-132
Trichloroethene	12.50	13.60	109	80-120
Chlorobenzene	12.50	13.41	107	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	90	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	99	80-125

Type: BSD Lab ID: QC716495

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	13.81	110	77-132	8	20
Trichloroethene	12.50	12.69	102	80-120	7	20
Chlorobenzene	12.50	12.81	103	80-120	5	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	91	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	99	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	250555	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC716496	Batch#:	205153
Matrix:	Water	Analyzed:	11/16/13
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	92	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	99	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	250555	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GAC-03	Batch#:	205153
MSS Lab ID:	250555-005	Sampled:	11/05/13
Matrix:	Water	Received:	11/06/13
Units:	ug/L	Analyzed:	11/16/13
Diln Fac:	1.000		

Type: MS Lab ID: QC716508

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	0.3542	25.00	27.89	110	80-135
Trichloroethene	21.79	25.00	42.70	84	75-128
Chlorobenzene	<0.1000	25.00	25.06	100	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	93	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	98	80-125

Type: MSD Lab ID: QC716509

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	28.32	112	80-135	2	20
Trichloroethene	25.00	43.86	88	75-128	3	20
Chlorobenzene	25.00	25.07	100	80-120	0	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	93	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	98	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	250555	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	NE-02	Batch#:	205153
MSS Lab ID:	250555-006	Sampled:	11/05/13
Matrix:	Water	Received:	11/06/13
Units:	ug/L	Analyzed:	11/16/13
Diln Fac:	1.000		

Type: MS Lab ID: QC716510

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.1268	25.00	27.61	110	80-135
Trichloroethene	0.7976	25.00	25.93	101	75-128
Chlorobenzene	<0.1000	25.00	25.28	101	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	90	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	99	80-125

Type: MSD Lab ID: QC716511

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	26.44	106	80-135	4	20
Trichloroethene	25.00	24.74	96	75-128	5	20
Chlorobenzene	25.00	24.64	99	80-120	3	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	94	76-138
Toluene-d8	96	80-120
Bromofluorobenzene	98	80-125

RPD= Relative Percent Difference

Initial & Continuing Calibration Data

CURTIS & TOMPKINS BFB TUNE FOR 250555 MSVOA Water
EPA 8260B

Inst : MSVOA11 Run Name : BFB IDF : 1.0
Seqnum : 833457042006 File : kkd06 Time : 13-NOV-2013 12:15

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	3457	17.42	
75	30% - 60% of mass 95	9802	49.38	
95		19850	100.00	
96	5% - 9% of mass 95	1462	7.37	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	15899	80.10	
175	5% - 9% of mass 174	1370	8.62	
176	> 95% and < 101% of mass 174	15174	95.44	
177	5% - 9% of mass 176	883	5.82	

Analyst: DJA Date: 11/14/13 Reviewer: LW Date: 11/15/13

CURTIS & TOMPKINS BFB TUNE FOR 250555 MSVOA Water
EPA 8260B

Inst : MSVOA11 Run Name : BFB IDF : 1.0
Seqnum : 833461475003 File : kkg03 Time : 16-NOV-2013 12:06

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	2798	15.79	
75	30% - 60% of mass 95	8452	47.70	
95		17718	100.00	
96	5% - 9% of mass 95	1500	8.47	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	14528	82.00	
175	5% - 9% of mass 174	1218	8.38	
176	> 95% and < 101% of mass 174	14613	100.59	
177	5% - 9% of mass 176	1090	7.46	

Analyst: DJA Date: 11/18/13 Reviewer: LW Date: 11/18/13

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 250555 MSVOA Water: EPA 8260B

Inst : MSVOA11 Name : 8260GX11
Calnum : 833457042001 Date : 13-NOV-2013 14:14 Type : WATER
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	kkd09	833457042009	0.25/0.5PPB	13-NOV-2013 14:14	S23611 (2000000X), S21354 (1000000X), S22433 (2000000X), S23518 (2000000X), S23550 (2500X)
L2	kkd10	833457042010	0.5/1PPB	13-NOV-2013 14:41	S23611 (1000000X), S21354 (500000X), S22433 (1000000X), S23518 (1000000X), S23550 (2500X)
L3	kkd11	833457042011	2PPB	13-NOV-2013 15:09	S23611 (250000X), S21354 (250000X), S22433 (500000X), S23518 (250000X), S23550 (2500X)
L4	kkd12	833457042012	5PPB	13-NOV-2013 15:37	S23611 (100000X), S21354 (100000X), S22433 (200000X), S23518 (100000X), S23550 (2500X)
L5	kkd13	833457042013	10PPB	13-NOV-2013 16:05	S23611 (50000X), S21354 (50000X), S22433 (100000X), S23518 (50000X), S23550 (2500X)
L6	kkd14	833457042014	20PPB	13-NOV-2013 16:32	S23611 (25000X), S21354 (25000X), S22433 (50000X), S23518 (25000X), S23550 (2500X)
L7	kkd15	833457042015	50PPB	13-NOV-2013 17:00	S23611 (10000X), S21354 (10000X), S22433 (20000X), S23518 (10000X), S23550 (2500X)
L8	kkd16	833457042016	75PPB	13-NOV-2013 17:28	S23611 (6667X), S21354 (6667X), S22433 (13330X), S23518 (6667X), S23550 (2500X)
L9	kkd17	833457042017	100PPB	13-NOV-2013 17:56	S23611 (5000X), S21354 (5000X), S22433 (10000X), S23518 (5000X), S23550 (2500X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Chloromethane	0.5051	0.5651	0.6147	0.5338	0.5461	0.5196	0.4807	0.5073	0.5151	AVRG		1.87984		0.5320	7	15	0.10	0.99	
Vinyl Chloride	0.4615	0.5448	0.6194	0.5836	0.5832	0.5569	0.5241	0.5485	0.5503	AVRG		1.81000		0.5525	8	15	0.05	0.99	
Bromomethane		0.2223	0.2677	0.2615	0.2732	0.2657	0.2675	0.2927	0.3012	AVRG		3.71771		0.2690	9	15	0.05	0.99	
Chloroethane		0.3114	0.3410	0.3194	0.3269	0.3100	0.2894	0.3003	0.3017	AVRG		3.19981		0.3125	5	15	0.05	0.99	
Trichlorofluoromethane		0.6667	0.7208	0.7249	0.7069	0.6924	0.6664	0.6926	0.6929	AVRG		1.43794		0.6954	3	15	0.05	0.99	
Freon 113			0.3575	0.3742	0.3030	0.2473	0.3035	0.3708	0.2962	AVRG		3.10767		0.3218	15	15	0.05	0.99	
1,1-Dichloroethene		0.2820	0.3805	0.3655	0.3319	0.2967	0.3099	0.3584	0.3188	AVRG		3.02595		0.3305	11	15	0.05	0.99	
Methylene Chloride		0.4248	0.4482	0.4488	0.4611	0.4291	0.3996	0.4418	0.4254	AVRG		2.29966		0.4348	4	15	0.05	0.99	
trans-1,2-Dichloroethene		0.4165	0.4479	0.4271	0.4320	0.4033	0.3848	0.4347	0.4078	AVRG		2.38513		0.4193	5	15	0.05	0.99	
1,1-Dichloroethane		0.8119	0.8562	0.8385	0.8536	0.8013	0.7516	0.8350	0.7976	AVRG		1.22216		0.8182	4	15	0.10	0.99	
cis-1,2-Dichloroethene		0.5387	0.5120	0.5058	0.5104	0.4874	0.4543	0.5092	0.4874	AVRG		1.99736		0.5007	5	15	0.05	0.99	
Chloroform		0.9583	0.8703	0.8472	0.8591	0.8180	0.7597	0.8346	0.7953	AVRG		1.18648		0.8428	7	15	0.05	0.99	
1,1,1-Trichloroethane		0.6730	0.7758	0.7393	0.7041	0.6415	0.6431	0.7271	0.6505	AVRG		1.44031		0.6943	7	15	0.05	0.99	
Carbon Tetrachloride		0.3120	0.4023	0.4029	0.3727	0.3353	0.3551	0.4122	0.3555	AVRG		2.71380		0.3685	10	15	0.05	0.99	
1,2-Dichloroethane		0.4159	0.4130	0.4158	0.4257	0.4039	0.3697	0.4001	0.3877	AVRG		2.47523		0.4040	4	15	0.05	0.99	
Trichloroethene		0.3124	0.3437	0.3399	0.3431	0.3256	0.3104	0.3510	0.3247	AVRG		3.01799		0.3313	5	15	0.05	0.99	
1,2-Dichloropropane		0.3362	0.3576	0.3507	0.3619	0.3455	0.3221	0.3602	0.3425	AVRG		2.88119		0.3471	4	15	0.05	0.99	
Bromodichloromethane		0.4218	0.4276	0.4353	0.4419	0.4308	0.3991	0.4426	0.4282	AVRG		2.33421		0.4284	3	15	0.05	0.99	
cis-1,3-Dichloropropene		0.5145	0.5012	0.5113	0.5346	0.5216	0.4866	0.5376	0.5192	AVRG		1.93870		0.5158	3	15	0.05	0.99	
trans-1,3-Dichloropropene		0.5426	0.5381	0.5391	0.5619	0.5379	0.4990	0.5440	0.5344	AVRG		1.86168		0.5371	3	15	0.05	0.99	
1,1,2-Trichloroethane		0.1799	0.1831	0.1884	0.1932	0.1807	0.1706	0.1843	0.1824	AVRG		5.46958		0.1828	4	15	0.05	0.99	
Tetrachloroethene		0.3183	0.3921	0.3901	0.3645	0.3333	0.3383	0.3881	0.3433	AVRG		2.78951		0.3585	8	15	0.05	0.99	
Dibromochloromethane		0.3783	0.3716	0.3874	0.3900	0.3769	0.3515	0.3854	0.3802	AVRG		2.64784		0.3777	3	15	0.05	0.99	
Chlorobenzene		1.0447	1.0698	1.0714	1.0657	1.0275	0.9503	1.0383	0.9925	AVRG		0.96848		1.0325	4	15	0.30	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Bromoform		0.2470	0.2519	0.2633	0.2715	0.2642	0.2495	0.2706	0.2727	AVRG		3.82676		0.2613	4	15	0.10	0.99	
1,1,2,2-Tetrachloroethane		0.9190	0.8483	0.8403	0.8672	0.8015	0.7294	0.7793	0.8050	AVRG		1.21396		0.8238	7	15	0.30	0.99	
1,3-Dichlorobenzene		1.7155	1.6717	1.6584	1.6861	1.6236	1.5048	1.6538	1.5654	AVRG		0.61166		1.6349	4	15	0.05	0.99	
1,4-Dichlorobenzene		1.7927	1.7766	1.6958	1.7275	1.6612	1.5155	1.6662	1.5826	AVRG		0.59621		1.6773	6	15	0.05	0.99	
1,2-Dichlorobenzene		1.6303	1.5772	1.5851	1.5965	1.5531	1.4334	1.5878	1.5184	AVRG		0.64094		1.5602	4	15	0.05	0.99	
1,2-Dichloroethane-d4	0.3660	0.3679	0.3643	0.3633	0.3570	0.3607	0.3572	0.3623	0.3545	AVRG		2.76651		0.3615	1	15	0.05	0.99	
Toluene-d8	1.4313	1.4141	1.4162	1.4269	1.4232	1.4162	1.4082	1.4019	1.4107	AVRG		0.70595		1.4165	1	15	0.05	0.99	
Bromofluorobenzene	1.0163	1.0181	1.0035	1.0082	1.0040	1.0016	0.9948	0.9956	1.0045	AVRG		0.99486		1.0052	1	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Chloromethane	0.5000	-5	1.0000	6	2.0000	16	5.0000	0	10.000	3	20.000	-2	50.000	-10	75.000	-5	100.00	-3
Vinyl Chloride	0.5000	-16	1.0000	-1	2.0000	12	5.0000	6	10.000	6	20.000	1	50.000	-5	75.000	-1	100.00	0
Bromomethane			1.0000	-17	2.0000	0	5.0000	-3	10.000	2	20.000	-1	50.000	-1	75.000	9	100.00	12
Chloroethane			1.0000	0	2.0000	9	5.0000	2	10.000	5	20.000	-1	50.000	-7	75.000	-4	100.00	-3
Trichlorofluoromethane			1.0000	-4	2.0000	4	5.0000	4	10.000	2	20.000	0	50.000	-4	75.000	0	100.00	0
Freon 113					2.0000	11	5.0000	16	10.000	-6	20.000	**-23**	50.000	-6	75.000	15	100.00	-8
1,1-Dichloroethene			0.5000	-15	2.0000	15	5.0000	11	10.000	0	20.000	-10	50.000	-6	75.000	8	100.00	-4
Methylene Chloride			0.5000	-2	2.0000	3	5.0000	3	10.000	6	20.000	-1	50.000	-8	75.000	2	100.00	-2
trans-1,2-Dichloroethene			0.5000	-1	2.0000	7	5.0000	2	10.000	3	20.000	-4	50.000	-8	75.000	4	100.00	-3
1,1-Dichloroethane			0.5000	-1	2.0000	5	5.0000	2	10.000	4	20.000	-2	50.000	-8	75.000	2	100.00	-3
cis-1,2-Dichloroethene			0.5000	8	2.0000	2	5.0000	1	10.000	2	20.000	-3	50.000	-9	75.000	2	100.00	-3
Chloroform			0.5000	14	2.0000	3	5.0000	1	10.000	2	20.000	-3	50.000	-10	75.000	-1	100.00	-6
1,1,1-Trichloroethane			0.5000	-3	2.0000	12	5.0000	6	10.000	1	20.000	-8	50.000	-7	75.000	5	100.00	-6
Carbon Tetrachloride			0.5000	-15	2.0000	9	5.0000	9	10.000	1	20.000	-9	50.000	-4	75.000	12	100.00	-4
1,2-Dichloroethane			0.5000	3	2.0000	2	5.0000	3	10.000	5	20.000	0	50.000	-8	75.000	-1	100.00	-4
Trichloroethene			0.5000	-6	2.0000	4	5.0000	3	10.000	4	20.000	-2	50.000	-6	75.000	6	100.00	-2
1,2-Dichloropropane			0.5000	-3	2.0000	3	5.0000	1	10.000	4	20.000	0	50.000	-7	75.000	4	100.00	-1
Bromodichloromethane			0.5000	-2	2.0000	0	5.0000	2	10.000	3	20.000	1	50.000	-7	75.000	3	100.00	0
cis-1,3-Dichloropropene			0.5000	0	2.0000	-3	5.0000	-1	10.000	4	20.000	1	50.000	-6	75.000	4	100.00	1
trans-1,3-Dichloropropene			0.5000	1	2.0000	0	5.0000	0	10.000	5	20.000	0	50.000	-7	75.000	1	100.00	-1
1,1,2-Trichloroethane			0.5000	-2	2.0000	0	5.0000	3	10.000	6	20.000	-1	50.000	-7	75.000	1	100.00	0
Tetrachloroethene			0.5000	-11	2.0000	9	5.0000	9	10.000	2	20.000	-7	50.000	-6	75.000	8	100.00	-4
Dibromochloromethane			0.5000	0	2.0000	-2	5.0000	3	10.000	3	20.000	0	50.000	-7	75.000	2	100.00	1
Chlorobenzene			0.5000	1	2.0000	4	5.0000	4	10.000	3	20.000	0	50.000	-8	75.000	1	100.00	-4
Bromoform			0.5000	-5	2.0000	-4	5.0000	1	10.000	4	20.000	1	50.000	-5	75.000	4	100.00	4
1,1,2,2-Tetrachloroethane			0.5000	12	2.0000	3	5.0000	2	10.000	5	20.000	-3	50.000	-11	75.000	-5	100.00	-2
1,3-Dichlorobenzene			0.5000	5	2.0000	2	5.0000	1	10.000	3	20.000	-1	50.000	-8	75.000	1	100.00	-4
1,4-Dichlorobenzene			0.5000	7	2.0000	6	5.0000	1	10.000	3	20.000	-1	50.000	-10	75.000	-1	100.00	-6
1,2-Dichlorobenzene			0.5000	4	2.0000	1	5.0000	2	10.000	2	20.000	0	50.000	-8	75.000	2	100.00	-3
1,2-Dichloroethane-d4	50.000	1	50.000	2	50.000	1	50.000	1	50.000	-1	50.000	0	50.000	-1	50.000	0	50.000	-2
Toluene-d8	50.000	1	50.000	0	50.000	0	50.000	1	50.000	0	50.000	0	50.000	-1	50.000	-1	50.000	0
Bromofluorobenzene	50.000	1	50.000	1	50.000	0	50.000	0	50.000	0	50.000	0	50.000	-1	50.000	-1	50.000	0

DJA 11/15/13 [Ethanol]: Corrected fronting or tailing peak integration in 5PPB (kkd12).

Analyst: DJA Date: 11/15/13 Reviewer: LW Date: 11/15/13

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 250555 MSVOA Water
EPA 8260B

Inst : MSVOA11 Name : 8260GX11
Calnum : 833457042001 Cal Date : 13-NOV-2013 Type : WATER

ICV 833457042018 (kkd18 13-NOV-2013) stds: S23276 (10000X), S23550 (2500X)
ICV 833457042019 (kkd19 13-NOV-2013) stds: S23417 (10000X), S23592 (10000X), S23411 (10000X), S23550 (2500X)

Analyte	ICV Seqnum	Spiked	Quant	Units	%D	Max	Flags
Chloromethane	833457042018	20.00	21.23	ug/L	6	30	
Vinyl Chloride	833457042018	20.00	21.12	ug/L	6	20	
Bromomethane	833457042018	20.00	14.73	ug/L	**-26**	30	!v-
Chloroethane	833457042018	20.00	20.73	ug/L	4	30	
Trichlorofluoromethane	833457042018	20.00	19.11	ug/L	-4	30	
Freon 113	833457042019	25.00	26.24	ug/L	5	30	
1,1-Dichloroethene	833457042019	25.00	28.39	ug/L	14	20	
Methylene Chloride	833457042019	25.00	26.76	ug/L	7	30	
trans-1,2-Dichloroethene	833457042019	25.00	27.10	ug/L	8	30	
1,1-Dichloroethane	833457042019	25.00	23.38	ug/L	-6	30	
cis-1,2-Dichloroethene	833457042019	25.00	25.96	ug/L	4	30	
Chloroform	833457042019	25.00	23.06	ug/L	-8	20	
1,1,1-Trichloroethane	833457042019	25.00	24.62	ug/L	-2	30	
Carbon Tetrachloride	833457042019	25.00	25.80	ug/L	3	30	
1,2-Dichloroethane	833457042019	25.00	26.09	ug/L	4	30	
Trichloroethene	833457042019	25.00	26.97	ug/L	8	30	
1,2-Dichloropropane	833457042019	25.00	25.55	ug/L	2	20	
Bromodichloromethane	833457042019	25.00	24.81	ug/L	-1	30	
cis-1,3-Dichloropropene	833457042019	25.00	27.73	ug/L	11	30	
trans-1,3-Dichloropropene	833457042019	25.00	26.17	ug/L	5	30	
1,1,2-Trichloroethane	833457042019	25.00	26.35	ug/L	5	30	
Tetrachloroethene	833457042019	25.00	24.63	ug/L	-1	30	
Dibromochloromethane	833457042019	25.00	25.93	ug/L	4	30	
Chlorobenzene	833457042019	25.00	26.56	ug/L	6	30	
Bromoform	833457042019	25.00	25.32	ug/L	1	30	
1,1,2,2-Tetrachloroethane	833457042019	25.00	26.70	ug/L	7	30	
1,3-Dichlorobenzene	833457042019	25.00	26.34	ug/L	5	30	
1,4-Dichlorobenzene	833457042019	25.00	25.08	ug/L	0	30	
1,2-Dichlorobenzene	833457042019	25.00	26.39	ug/L	6	30	

833457042018: Analyst: DJA Date: 11/15/13 Reviewer: LW Date: 11/15/13
833457042019: Analyst: DJA Date: 11/15/13 Reviewer: LW Date: 11/15/13

!=warning -=low bias v=ICV

CURTIS & TOMPKINS SPIKE USER REPORT FOR 250555 MSVOA Water
EPA 8260B

Inst : MSVOA11 Run Name : QC716494 IDF : 1.0
Seqnum : 833461475005.1 File : kkg05 Time : 16-NOV-2013 12:59
Cal : 833457042001 Caldate : 13-NOV-2013 Caltype : WATER
Standards: S23411 (20000X), S23592 (20000X), S23417 (20000X), S23276 (20000X), S23550 (2500X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Chloromethane	0.5320	0.5981	10.00	11.24	ug/L	12	30	0.1000	u
Vinyl Chloride	0.5525	0.5722	10.00	10.36	ug/L	4	20	0.0500	u
Bromomethane	0.2690	0.3572	10.00	13.28	ug/L	**33**	30	0.0500	!v- c+ u ***
Chloroethane	0.3125	0.3345	10.00	10.70	ug/L	7	30	0.0500	u
Trichlorofluoromethane	0.6954	0.6251	10.00	8.989	ug/L	-10	30	0.0500	u
Freon 113	0.3218	0.3744	12.50	14.54	ug/L	16	30	0.0500	u
1,1-Dichloroethene	0.3305	0.3950	12.50	14.94	ug/L	20	20	0.0500	u
Methylene Chloride	0.4348	0.4868	12.50	13.99	ug/L	12	30	0.0500	u
trans-1,2-Dichloroethene	0.4193	0.4744	12.50	14.14	ug/L	13	30	0.0500	u
1,1-Dichloroethane	0.8182	0.7808	12.50	11.93	ug/L	-5	30	0.1000	u
cis-1,2-Dichloroethene	0.5007	0.5374	12.50	13.42	ug/L	7	30	0.0500	u
Chloroform	0.8428	0.7862	12.50	11.66	ug/L	-7	20	0.0500	u
1,1,1-Trichloroethane	0.6943	0.6851	12.50	12.33	ug/L	-1	30	0.0500	u
Carbon Tetrachloride	0.3685	0.3786	12.50	12.84	ug/L	3	30	0.0500	u
1,2-Dichloroethane	0.4040	0.3975	12.50	12.30	ug/L	-2	30	0.0500	u
Trichloroethene	0.3313	0.3605	12.50	13.60	ug/L	9	30	0.0500	u
1,2-Dichloropropane	0.3471	0.3621	12.50	13.04	ug/L	4	20	0.0500	u
Bromodichloromethane	0.4284	0.4239	12.50	12.37	ug/L	-1	30	0.0500	u
cis-1,3-Dichloropropene	0.5158	0.5808	12.50	14.07	ug/L	13	30	0.0500	u
trans-1,3-Dichloropropene	0.5371	0.5332	12.50	12.41	ug/L	-1	30	0.0500	u
1,1,2-Trichloroethane	0.1828	0.1849	12.50	12.64	ug/L	1	30	0.0500	u
Tetrachloroethene	0.3585	0.3637	12.50	12.68	ug/L	1	30	0.0500	u
Dibromochloromethane	0.3777	0.3746	12.50	12.40	ug/L	-1	30	0.0500	u
Chlorobenzene	1.0325	1.1078	12.50	13.41	ug/L	7	30	0.3000	u
Bromoform	0.2613	0.2416	12.50	11.56	ug/L	-8	30	0.1000	u
1,1,2,2-Tetrachloroethane	0.8238	0.8097	12.50	12.29	ug/L	-2	30	0.3000	u
1,3-Dichlorobenzene	1.6349	1.7603	12.50	13.46	ug/L	8	30	0.0500	u
1,4-Dichlorobenzene	1.6773	1.7380	12.50	12.95	ug/L	4	30	0.0500	u
1,2-Dichlorobenzene	1.5602	1.6571	12.50	13.28	ug/L	6	30	0.0500	u
1,2-Dichloroethane-d4	0.3615	0.3266	50.00	45.18	ug/L	-10	30	0.0500	u
Toluene-d8	1.4165	1.3670	50.00	48.25	ug/L	-3	30	0.0500	u
Bromofluorobenzene	1.0052	0.9953	50.00	49.51	ug/L	-1	30	0.0500	u

ISTD (ICAL kkd15)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	583487	538704	-7.68	10.90	10.90	0.00
1,4-Difluorobenzene	896648	843646	-5.91	11.83	11.83	0.00
Chlorobenzene-d5	798987	767376	-3.96	14.91	14.91	0.00
1,4-Dichlorobenzene-d4	405442	381280	-5.96	17.19	17.19	0.01

Analyst: KKM Date: 11/18/13 Reviewer: LW Date: 11/19/13

!=warning +=high bias -=low bias c=CCV u=use v=ICV

Logbooks & Sequences

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 833461475

Date : 11/16/13 Reference : kkd15
Sequence : MSVOA11 kkg Analyzed : 11/13/13 17:00

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	583487	10.90	896648	11.83	798987	14.91	405442	17.19
		LOWER LIMIT	291744	10.40	448324	11.33	399494	14.41	202721	16.69
		UPPER LIMIT	1166974	11.40	1793296	12.33	1597974	15.41	810884	17.69
004	CCV		539325	10.90	838574	11.83	760805	14.91	376322	17.19
005	CCV/BS	QC716494	538704	10.90	843646	11.83	767376	14.91	381280	17.19
006	BSD	QC716495	564340	10.90	868996	11.83	786177	14.91	391938	17.19
007	IB		537995	10.90	834528	11.83	762224	14.91	375657	17.19
008	BLANK	QC716496	542992	10.90	843236	11.83	763524	14.91	376793	17.19
009	SAMPLE	250645-001	522785	10.90	816065	11.83	738621	14.91	357552	17.19
010	SAMPLE	250555-013	533734	10.90	834678	11.83	756496	14.91	373102	17.19
011	MSS	250555-005	521240	10.90	811157	11.83	743011	14.91	364311	17.19
012	MSS	250555-006	529479	10.90	828348	11.83	757380	14.91	368762	17.19
013	SAMPLE	250555-001	526759	10.90	825562	11.83	749395	14.91	368513	17.19
014	SAMPLE	250555-002	534184	10.90	828945	11.83	757394	14.91	369924	17.19
015	SAMPLE	250555-003	530336	10.90	831068	11.83	754186	14.91	367783	17.19
016	SAMPLE	250555-004	531544	10.90	824918	11.83	751415	14.91	369102	17.19
017	SAMPLE	250555-007	527508	10.90	822878	11.83	751078	14.91	373864	17.19
018	SAMPLE	250555-008	512712	10.90	796505	11.83	731921	14.91	361931	17.19
019	SAMPLE	250555-009	528804	10.90	824446	11.83	748206	14.91	366713	17.19
020	SAMPLE	250555-010	526025	10.90	819556	11.83	748643	14.91	370937	17.19
021	SAMPLE	250555-011	528089	10.90	817092	11.83	745099	14.91	369679	17.19
022	SAMPLE	250555-012	519285	10.90	812851	11.83	742791	14.91	370566	17.19
023	SAMPLE	250555-014	515112	10.90	805092	11.83	737195	14.91	365750	17.19
024	MS	QC716508	533233	10.90	828133	11.83	753300	14.91	383744	17.19
025	MSD	QC716509	544634	10.90	835789	11.83	768545	14.91	386086	17.19
026	MS	QC716510	546781	10.90	843785	11.83	767461	14.91	382536	17.19
027	MSD	QC716511	541564	10.90	837494	11.83	764667	14.91	383307	17.19
028	IB		536678	10.90	841623	11.83	749816	14.91	370255	17.19
029	IB		528283	10.90	825763	11.83	738603	14.91	364946	17.19

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 833457042

Instrument : MSVOA11 Begun : 11/13/13 09:22
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	kkd01	X	IB			11/13/13 09:22	1.0	1	
002	kkd02	X	IB			11/13/13 09:49	1.0	1	
004	kkd04	X	LOW POINT			11/13/13 11:06	1.0	1	
005	kkd05	TUN	BFB			11/13/13 11:42	1.0	2	t
006	kkd06	TUN	BFB			11/13/13 12:15	1.0	2	
007	kkd07	X	IB			11/13/13 12:38	1.0	1	
008	kkd08	IB	CALIB			11/13/13 13:46	1.0	1	
009	kkd09	ICAL	0.25/0.5PPB	Water		11/13/13 14:14	1.0	3 4 5 6 1	
010	kkd10	ICAL	0.5/1PPB			11/13/13 14:41	1.0	3 4 5 6 1	
011	kkd11	ICAL	2PPB			11/13/13 15:09	1.0	3 4 5 6 1	
012	kkd12	ICAL	5PPB			11/13/13 15:37	1.0	3 4 5 6 1	
013	kkd13	ICAL	10PPB			11/13/13 16:05	1.0	3 4 5 6 1	
014	kkd14	ICAL	20PPB			11/13/13 16:32	1.0	3 4 5 6 1	
015	kkd15	ICAL	50PPB			11/13/13 17:00	1.0	3 4 5 6 1	
016	kkd16	ICAL	75PPB			11/13/13 17:28	1.0	3 4 5 6 1	
017	kkd17	ICAL	100PPB			11/13/13 17:56	1.0	3 4 5 6 1	
018	kkd18	ICV	GASES			11/13/13 18:23	1.0	7 1	
019	kkd19	ICV				11/13/13 18:51	1.0	8 9 10 1	
020	kkd20	X	IB			11/13/13 19:19	1.0	1	
021	kkd21	X	IB			11/13/13 19:47	1.0	1	
022	kkd22	X	IB			11/13/13 20:14	1.0	1	

DJA 11/14/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 22.

Analyst: DJA Date: 11/14/13 Reviewer: LW Date: 11/15/13

Standards used: 1=S23550 2=S22624 3=S23611 4=S21354 5=S22433 6=S23518 7=S23276 8=S23417 9=S23592 10=S23411

Flags used: t=tune failure

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 833461475

Instrument : MSVOA11 Begun : 11/16/13 11:15
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	kkg01	X	HIGHGAS			11/16/13 11:15	1.0	1	
002	kkg02	X	IB			11/16/13 11:43	1.0	1	
003	kkg03	TUN	BFB			11/16/13 12:06	1.0	2	
004	kkg04	CCV				11/16/13 12:31	1.0	3 4 5 6 1	cc+
005	kkg05	CCV/BS	QC716494	Water	205153	11/16/13 12:59	1.0	7 8 9 10 1	
006	kkg06	BSD	QC716495	Water	205153	11/16/13 13:27	1.0	7 8 9 10 1	
007	kkg07	IB				11/16/13 13:55	1.0	1	
008	kkg08	BLANK	QC716496	Water	205153	11/16/13 14:22	1.0	1	
009	kkg09	SAMPLE	250645-001	Water	205153	11/16/13 14:50	1.0	1	
010	kkg10	SAMPLE	250555-013	Water	205153	11/16/13 15:18	1.0	1	
011	kkg11	MSS	250555-005	Water	205153	11/16/13 15:46	1.0	1	
012	kkg12	MSS	250555-006	Water	205153	11/16/13 16:13	1.0	1	
013	kkg13	SAMPLE	250555-001	Water	205153	11/16/13 16:41	1.0	1	
014	kkg14	SAMPLE	250555-002	Water	205153	11/16/13 17:09	1.0	1	
015	kkg15	SAMPLE	250555-003	Water	205153	11/16/13 17:37	1.0	1	
016	kkg16	SAMPLE	250555-004	Water	205153	11/16/13 18:04	1.0	1	
017	kkg17	SAMPLE	250555-007	Water	205153	11/16/13 18:32	1.0	1	
018	kkg18	SAMPLE	250555-008	Water	205153	11/16/13 19:00	1.0	1	
019	kkg19	SAMPLE	250555-009	Water	205153	11/16/13 19:28	1.0	1	
020	kkg20	SAMPLE	250555-010	Water	205153	11/16/13 19:56	1.0	1	
021	kkg21	SAMPLE	250555-011	Water	205153	11/16/13 20:23	1.0	1	
022	kkg22	SAMPLE	250555-012	Water	205153	11/16/13 20:51	1.0	1	
023	kkg23	SAMPLE	250555-014	Water	205153	11/16/13 21:19	1.0	1	
024	kkg24	MS	QC716508	Water	205153	11/16/13 21:46	1.0	7 8 9 10 1	
025	kkg25	MSD	QC716509	Water	205153	11/16/13 22:14	1.0	7 8 9 10 1	
026	kkg26	MS	QC716510	Water	205153	11/16/13 22:42	1.0	7 8 9 10 1	
027	kkg27	MSD	QC716511	Water	205153	11/16/13 23:10	1.0	7 8 9 10 1	
028	kkg28	IB				11/16/13 23:37	1.0	1	
029	kkg29	IB				11/17/13 00:05	1.0	1	
030	kkg30	X	HIGHGAS			11/17/13 00:33	1.0	1	

DJA 11/18/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 30.

Analyst: DJA Date: 11/18/13 Reviewer: LW Date: 11/18/13

Standards used: 1=S23550 2=S22624 3=S22433 4=S23518 5=S23611 6=S21354 7=S23411 8=S23592 9=S23417 10=S23276

Flags used: +=high bias cc=CCV CCC failure

Page 1 of 1

MSVOA WATER Prepsheet Curtis & Tompkins, Ltd.

Date: 11/16 **Batch #:** 205153

	Sample ID	Vial	pH <2	pH (if >2)	HS?	Dil'n flask	MS#	RR	DF	Comments	20 % ccv	hold	due	init date
17 1	250555-1	A	X				11			III		11/19		MB
2	-2		X											
3	-3		X											
4	-4		X											
5	-5	A	X							MSS				
6	-5	BC	✓			1A				MS				
7	-5	D	✓							MSD				
8	-6	A	X							MSS				
9	-6	BC	✓			2A				MS				
10	-6	D	✓							MSD				
11	-7	A	X											
12	-8		X											
13	-9		X											
14	-10		X											
15	-11		X											
16	-12		X											
17	-13		X							TB				
18	-14		X											
19 19	250645-1	A	X							TB III				
20	~~-2~~	~~A~~								pulled off				
21														
22														

Laboratory Job Number 250555

ANALYTICAL REPORT

Metals

Matrix: Water

Curtis & Tompkins, Ltd.

Chromium

Lab #:	250555	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Sampled:	11/05/13
Matrix:	Water	Received:	11/06/13
Units:	ug/L	Prepared:	11/11/13
Diln Fac:	1.000	Analyzed:	11/12/13
Batch#:	204934		

Field ID	Type	Lab ID	Result	RL	MDL
E-101	SAMPLE	250555-001	940	5.0	0.69
E-1101	SAMPLE	250555-002	430	5.0	0.69
GAC-02	SAMPLE	250555-003	16	5.0	0.69
GAC-102	SAMPLE	250555-004	16	5.0	0.69
GAC-03	SAMPLE	250555-005	84	5.0	0.69
NE-02	SAMPLE	250555-006	8.7	5.0	0.69
NE-03	SAMPLE	250555-007	14	5.0	0.69
NE-04	SAMPLE	250555-008	24	5.0	0.69
	BLANK	QC715643	ND	5.0	0.69

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Chromium

Lab #:	250555	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Sampled:	11/05/13
Matrix:	Water	Received:	11/06/13
Units:	ug/L	Prepared:	11/11/13
Diln Fac:	1.000	Analyzed:	11/12/13
Batch#:	204934		

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
	BS		QC715644		200.0	203.9	102	80-120		
	BSD		QC715645		200.0	201.6	101	80-120	1	20
GAC-03	MS	250555-005	QC715646	84.35	200.0	306.2	111	80-120		
GAC-03	MSD	250555-005	QC715647		200.0	275.2	95	80-120	11	20
NE-02	MS	250555-006	QC715648	8.727	200.0	220.9	106	80-120		
NE-02	MSD	250555-006	QC715649		200.0	221.6	106	80-120	0	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Chromium

Lab #:	250555	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	NE-02	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	204934
MSS Lab ID:	250555-006	Sampled:	11/05/13
Lab ID:	QC715650	Received:	11/06/13
Matrix:	Water	Analyzed:	11/12/13

MSS Result	MSS RL	Result	RL	% Diff	Lim
8.727	5.000	9.172 J	25.00	NC	10

J= Estimated value
NC= Not Calculated
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Chromium

Lab #:	250555	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	NE-02	Diln Fac:	1.000
Type:	Post Digest Spike	Batch#:	204934
MSS Lab ID:	250555-006	Sampled:	11/05/13
Lab ID:	QC715651	Received:	11/06/13
Matrix:	Water	Analyzed:	11/12/13

MSS Result	Spiked	Result	%REC	Limits
8.727	200.0	221.5	106	75-125

REPORTING SUMMARY FOR 250555 METALS Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CR	
250555-001	MET08	11/12/13 12:00	1.0	+	
250555-002	MET08	11/12/13 12:09	1.0	+	
250555-003	MET08	11/12/13 12:13	1.0	+	
250555-004	MET08	11/12/13 12:19	1.0	+	
250555-005	MET08	11/12/13 11:06	1.0	+	
250555-006	MET08	11/12/13 11:18	1.0	+	
250555-007	MET08	11/12/13 12:24	1.0	+	
250555-008	MET08	11/12/13 12:28	1.0	+	
QC715643	MET08	11/12/13 10:52	1.0	+	
QC715644	MET08	11/12/13 10:57	1.0	+	
QC715645	MET08	11/12/13 11:01	1.0	+	
QC715646	MET08	11/12/13 11:10	1.0	+	
QC715647	MET08	11/12/13 11:14	1.0	+	
QC715648	MET08	11/12/13 11:23	1.0	+	
QC715649	MET08	11/12/13 11:27	1.0	+	
QC715650	MET08	11/12/13 11:31	5.0	+	
QC715651	MET08	11/12/13 11:48	1.0	+	

ICP Data

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83455475

Instrument : MET08 Begun : 11/12/13 07:15
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	met08_sn_6010	ICALBLK				11/12/13 07:15	1.0		
002	met08_sn_6010	ICAL	CRI5.1			11/12/13 07:20	1.0	1	
003	met08_sn_6010	ICAL	CS100			11/12/13 07:25	1.0	2	
004	met08_sn_6010	ICAL	CS1K			11/12/13 07:29	1.0	3	
005	met08_sn_6010	ICAL	CS10K			11/12/13 07:33	1.0	4	
006	met08_sn_6010	ICAL	CS100K			11/12/13 07:40	1.0	5	
007	met08_sn_6010	XICV				11/12/13 07:47	1.0	6	
008	met08_sn_6010	ICV				11/12/13 07:53	1.0	6	
009	met08_sn_6010	XCRI				11/12/13 08:00	1.0	7	
010	met08_sn_6010	XCRI				11/12/13 08:09	1.0	7	
011	met08_sn_6010	CRI				11/12/13 08:15	1.0	7	
012	met08_sn_6010	ICB				11/12/13 08:20	1.0		
013	met08_sn_6010	ICSA				11/12/13 08:25	1.0	8	10:AL=510000
014	met08_sn_6010	ICSAB				11/12/13 08:43	1.0	9	5:AL=500000
015	met08_sn_6010	BLANK	QC715684	Filtrate	204944	11/12/13 08:49	1.0		
016	met08_sn_6010	BLANK	QC715689	Filtrate	204944	11/12/13 08:53	1.0		
017	met08_sn_6010	BS	QC715685	Filtrate	204944	11/12/13 08:58	1.0		
018	met08_sn_6010	BSD	QC715686	Filtrate	204944	11/12/13 09:03	1.0		
019	met08_sn_6010	MSS	250590-001	Filtrate	204944	11/12/13 09:07	1.0		1:NA=180000
020	met08_sn_6010	MS	QC715687	Filtrate	204944	11/12/13 09:12	1.0		1:NA=190000
021	met08_sn_6010	MSD	QC715688	Filtrate	204944	11/12/13 09:16	1.0		1:NA=200000
022	met08_sn_6010	SAMPLE	250703-001	Filtrate	204944	11/12/13 09:20	1.0		
023	met08_sn_6010	CCV				11/12/13 09:28	1.0	10	
024	met08_sn_6010	CCB				11/12/13 09:34	1.0		
025	met08_sn_6010	BLANK	QC715684	Filtrate	204944	11/12/13 09:39	1.0		
026	met08_sn_6010	BLANK	QC715684	Filtrate	204944	11/12/13 09:44	1.0		
027	met08_sn_6010	SAMPLE	250703-002	Filtrate	204944	11/12/13 09:49	1.0		1:NA=420000
028	met08_sn_6010	SAMPLE	250703-003	Filtrate	204944	11/12/13 09:54	1.0		1:NA=180000
029	met08_sn_6010	SAMPLE	250703-004	Filtrate	204944	11/12/13 09:59	1.0		1:NA=360000
030	met08_sn_6010	SAMPLE	250703-005	Filtrate	204944	11/12/13 10:03	1.0		2:NA=560000
031	met08_sn_6010	SAMPLE	250703-006	Filtrate	204944	11/12/13 10:11	1.0		2:NA=370000
032	met08_sn_6010	SAMPLE	250557-002	Filtrate	204944	11/12/13 10:15	1.0		2:NA=290000
033	met08_sn_6010	SAMPLE	250557-003	Filtrate	204944	11/12/13 10:20	1.0		2:NA=250000
034	met08_sn_6010	SAMPLE	250557-004	Filtrate	204944	11/12/13 10:25	1.0		2:NA=270000
035	met08_sn_6010	CCV				11/12/13 10:30	1.0	10	
036	met08_sn_6010	CCB				11/12/13 10:37	1.0		
037	met08_sn_6010	ICSAB				11/12/13 10:42	1.0	9	5:AL=510000
038	met08_sn_6010	BLANK	QC715643	Water	204934	11/12/13 10:52	1.0		
039	met08_sn_6010	BS	QC715644	Water	204934	11/12/13 10:57	1.0		
040	met08_sn_6010	BSD	QC715645	Water	204934	11/12/13 11:01	1.0		
041	met08_sn_6010	MSS	250555-005	Water	204934	11/12/13 11:06	1.0		2:CA=230000
042	met08_sn_6010	MS	QC715646	Water	204934	11/12/13 11:10	1.0		1:CA=250000
043	met08_sn_6010	MSD	QC715647	Water	204934	11/12/13 11:14	1.0		1:CA=220000
044	met08_sn_6010	MSS	250555-006	Water	204934	11/12/13 11:18	1.0		2:NA=470000
045	met08_sn_6010	MS	QC715648	Water	204934	11/12/13 11:23	1.0		
046	met08_sn_6010	MSD	QC715649	Water	204934	11/12/13 11:27	1.0		
047	met08_sn_6010	SER	QC715650	Water	204934	11/12/13 11:31	5.0		
048	met08_sn_6010	CCV				11/12/13 11:36	1.0	10	
049	met08_sn_6010	CCB				11/12/13 11:43	1.0		
050	met08_sn_6010	PDS	QC715651	Water	204934	11/12/13 11:48	1.0	11 12	
051	met08_sn_6010	SAMPLE	250704-001	Water	204934	11/12/13 11:53	1.0		2:CA=170000
052	met08_sn_6010	SAMPLE	250555-001	Water	204934	11/12/13 12:00	1.0		3:CA=280000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83455475

Instrument : MET08 Begun : 11/12/13 07:15
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
053	met08_sn_6010	SAMPLE	250704-001	Water	204934	11/12/13 12:04	100.0		
054	met08_sn_6010	SAMPLE	250555-002	Water	204934	11/12/13 12:09	1.0		3:CA=260000
055	met08_sn_6010	SAMPLE	250555-003	Water	204934	11/12/13 12:13	1.0		3:CA=240000
056	met08_sn_6010	SAMPLE	250555-004	Water	204934	11/12/13 12:19	1.0		3:CA=240000
057	met08_sn_6010	SAMPLE	250555-007	Water	204934	11/12/13 12:24	1.0		2:NA=430000
058	met08_sn_6010	SAMPLE	250555-008	Water	204934	11/12/13 12:28	1.0		3:NA=380000
059	met08_sn_6010	SAMPLE	250558-001	Water	204934	11/12/13 12:33	1.0		3:NA=420000
060	met08_sn_6010	CCV				11/12/13 12:38	1.0	10	
061	met08_sn_6010	CCB				11/12/13 12:45	1.0		
062	met08_sn_6010	ICSAB				11/12/13 12:50	1.0	9	5:MG=550000
063	met08_sn_6010	X	RINSE			11/12/13 12:56	1.0		
064	met08_sn_6010	XCCV				11/12/13 12:59	1.0	10	
065	met08_sn_6010	XCCB				11/12/13 13:06	1.0		
066	met08_sn_6010	XCRI				11/12/13 13:43	1.0	7	

NT 11/12/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 37.

CRT 11/12/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 38 through 62.

Standards used: 1=S23297 2=S23299 3=S23298 4=S23300 5=S23301 6=S23304 7=S23306 8=S23302 9=S23303 10=S23305 11=S21652 12=S21653

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83455475

Date : 11/12/13 Reference : met08_sn_6010
Sequence : MET08 11/12/13 Analyzed : 11/12/13 07:20

#	Type	Sample ID	Y A
		ICAL STD	2247081
		LOWER LIMIT	674124
		UPPER LIMIT	4494162
012	ICB		2306766
013	ICSA		2066582
014	ICSAB		2113326
015	BLANK	QC715684	2513069
016	BLANK	QC715689	2309782
017	BS	QC715685	2319667
018	BSD	QC715686	2351028
019	MSS	250590-001	2156240
020	MS	QC715687	2252018
021	MSD	QC715688	2237303
022	SAMPLE	250703-001	2133498
023	CCV		2291704
024	CCB		2274111
025	BLANK	QC715684	2328636
026	BLANK	QC715684	2338005
027	SAMPLE	250703-002	2207087
028	SAMPLE	250703-003	2126821
029	SAMPLE	250703-004	2147927
030	SAMPLE	250703-005	2054284
031	SAMPLE	250703-006	2130707
032	SAMPLE	250557-002	2037300
033	SAMPLE	250557-003	2042260
034	SAMPLE	250557-004	2058917
035	CCV		2293107
036	CCB		2265647
037	ICSAB		2046511
038	BLANK	QC715643	2318513
039	BS	QC715644	2332923
040	BSD	QC715645	2301971
041	MSS	250555-005	2170759
042	MS	QC715646	2110806
043	MSD	QC715647	2137412
044	MSS	250555-006	1987780
045	MS	QC715648	2047130
046	MSD	QC715649	2064432
047	SER	QC715650	2065642
048	CCV		2189217
049	CCB		2139455
050	PDS	QC715651	2035340
051	SAMPLE	250704-001	2187874
052	SAMPLE	250555-001	2093684
053	SAMPLE	250704-001	2125731
054	SAMPLE	250555-002	2074355
055	SAMPLE	250555-003	1945359
056	SAMPLE	250555-004	1966418
057	SAMPLE	250555-007	2010761
058	SAMPLE	250555-008	2081811
059	SAMPLE	250558-001	1902816

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83455475

Date : 11/12/13 Reference : met08_sn_6010
Sequence : MET08 11/12/13 Analyzed : 11/12/13 07:20

#	Type	Sample ID	Y A
060	CCV		2179439
061	CCB		2113282
062	ICSAB		1935892

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 250555 METALS Water: EPA 6010B

Inst : MET08 Reviewer : ---
Calnum : 83455475001 Date : 12-NOV-2013 07:15
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	met08_sn_6010	83455475002	CRI5.1	12-NOV-2013 07:20	S23297
L2	met08_sn_6010	83455475003	CS100	12-NOV-2013 07:25	S23299
L3	met08_sn_6010	83455475004	CS1K	12-NOV-2013 07:29	S23298
L4	met08_sn_6010	83455475005	CS10K	12-NOV-2013 07:33	S23300
L5	met08_sn_6010	83455475006	CS100K	12-NOV-2013 07:40	S23301

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Chromium	A	100.78	93.394	96.805	95.571		LOR0	0.00000	0.01046		96.637	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Chromium	A	5.0000	5	100.00	-2	1000.0	1	10000	0		

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 250555 METALS Water
EPA 6010B

Inst : MET08
Calnum : 83455475001 Cal Date : 12-NOV-2013

ICV 83455475008 (12-NOV-2013) stds: S23304

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Chromium	A	5000	4949	ug/L	-1	10	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250555 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83455475012.1 File : met08_sn_6010 Time : 12-NOV-2013 08:20
Cal : 83455475001 Caldate : 12-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2247081	2306766	2.66

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR 250555 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83455475013.1 File : met08_sn_6010 Time : 12-NOV-2013 08:25
Cal : 83455475001 Caldate : 12-NOV-2013
Standards: S23302

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19030	ug/L	95
Copper	A	20000	19890	ug/L	99
Manganese	A	20000	17950	ug/L	90
Nickel	A	20000	17580	ug/L	88
Vanadium	A	20000	19240	ug/L	96
Aluminum	R	500000	507000	ug/L	101
Calcium	R	500000	495100	ug/L	99
Iron	R	200000	195900	ug/L	98
Magnesium	R	500000	499000	ug/L	100
Titanium	R	20000	19810	ug/L	99

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2247081	2066582	-8.03

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 250555 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83455475035.2 File : met08_sn_6010 Time : 12-NOV-2013 10:30
Cal : 83455475001 Caldate : 12-NOV-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	96.637	94.222	5000	4929	ug/L	-1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2247081	2293107	2.05

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250555 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83455475036.2 File : met08_sn_6010 Time : 12-NOV-2013 10:37
Cal : 83455475001 Caldate : 12-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2247081	2265647	0.83

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 250555 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83455475037.2 File : met08_sn_6010 Time : 12-NOV-2013 10:42
Cal : 83455475001 Caldate : 12-NOV-2013
Standards: S23303

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	496.2	ug/L	-1	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2247081	2046511	-8.93

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 250555 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83455475048.1 File : met08_sn_6010 Time : 12-NOV-2013 11:36
Cal : 83455475001 Caldate : 12-NOV-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	96.637	99.555	5000	5208	ug/L	4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2247081	2189217	-2.58

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250555 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83455475049.1 File : met08_sn_6010 Time : 12-NOV-2013 11:43
Cal : 83455475001 Caldate : 12-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2247081	2139455	-4.79

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 250555 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83455475060.1 File : met08_sn_6010 Time : 12-NOV-2013 12:38
Cal : 83455475001 Caldate : 12-NOV-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	96.637	101.14	5000	5290	ug/L	6	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2247081	2179439	-3.01

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250555 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83455475061.1 File : met08_sn_6010 Time : 12-NOV-2013 12:45
Cal : 83455475001 Caldate : 12-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2247081	2113282	-5.95

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 250555 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83455475062.1 File : met08_sn_6010 Time : 12-NOV-2013 12:50
Cal : 83455475001 Caldate : 12-NOV-2013
Standards: S23303

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	530.2	ug/L	6	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2247081	1935892	-13.85

SAMPLE PREPARATION SUMMARY

Batch # : 204934
Started By : NCD
Method : 3010A
Spike #1 ID : S21652

Prep Date : 11-NOV-2013 19:30
SOP Version : 3010A_icp_rv15
Spike #2 ID : S21653

Analysis : ICAP
Finished By : NCD
Units : mL

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
250555-001		Water	50	50	1	1.0						CR	
250555-002		Water	50	50	1	1.0						CR	
250555-003		Water	50	50	1	1.0						CR	
250555-004		Water	50	50	1	1.0						CR	
250555-005		Water	50	50	1	1.0						CR	
250555-006		Water	50	50	1	1.0						CR	
250555-007		Water	50	50	1	1.0						CR	
250555-008		Water	50	50	1	1.0						CR	
250558-001		Water	50	50	1	1.0						CR	
250558-002		Water	50	50	1	1.0						CR	
250558-003		Water	50	50	1	1.0						CR	
250558-004		Water	50	50	1	1.0						CR	
250558-005		Water	50	50	1	1.0						CR	
250558-008		Water	50	50	1	1.0						CR	
250558-009		Water	50	50	1	1.0						CR	
250558-010		Water	50	50	1	1.0						CR	
250704-001		Water	50	50	1	1.0						T22/ICP	added at 18:32
QC715643	BLANK	Water	50	50	1	1.0							
QC715644	BS	Water	50	50	1	1.0		.5	.5				
QC715645	BSD	Water	50	50	1	1.0		.5	.5				
QC715646	MS	Water	50	50	1	1.0		.5	.5				
QC715647	MSD	Water	50	50	1	1.0		.5	.5				
QC715648	MS	Water	50	50	1	1.0		.5	.5				
QC715649	MSD	Water	50	50	1	1.0		.5	.5				
QC715650	SER	Water	50	50	1	1.0							
QC715651	PDS	Water	50	50	1	1.0							

Analyst: CRT Date: 11/12/13 Reviewer: PRW Date: 11/12/13

Curtis & Tompkins, Ltd.

Water Digestion for ICP

BK3498

LIMS Batch #: 204934
Digested by: NCD
Date Digested: 11/1/2013

Digestion Method
☒ EPA 3010a for ICP
☐ EPA 200.7
☐ _____

Page 38

Lvl.	Sample #	Container ID	Volume Sample(mL)	Final Volume (mL)	Filtered? (y/n)	ID Π	Comments
	BLK 715613		☑ 50 ☐	☑ 50 ☐	n	✓	
	BS 44		☑ 50 ☐	☑ 50 ☐		✓	
	BSD 45		☑ 50 ☐	☑ 50 ☐		✓	
III	250555-005	L	☑ 50 ☐	☑ 50 ☐		✓	MS
5	-005		☑ 50 ☐	☑ 50 ☐		✓	MSD
	-006	J	☑ 50 ☐	☑ 50 ☐		✓	MS
	-006		☑ 50 ☐	☑ 50 ☐		✓	MSD
	-001	D	☑ 50 ☐	☑ 50 ☐		✓	
	-002		☑ 50 ☐	☑ 50 ☐		✓	
10	-003		☑ 50 ☐	☑ 50 ☐		✓	
	-004		☑ 50 ☐	☑ 50 ☐		✓	
	-005	L	☑ 50 ☐	☑ 50 ☐		✓	
	-006	J	☑ 50 ☐	☑ 50 ☐		✓	
	-007	D	☑ 50 ☐	☑ 50 ☐		✓	
15	-008		☑ 50 ☐	☑ 50 ☐		✓	
III	250558-001	D	☑ 50 ☐	☑ 50 ☐		✓	
	-002		☑ 50 ☐	☑ 50 ☐		✓	
	-003		☑ 50 ☐	☑ 50 ☐		✓	
	-004		☑ 50 ☐	☑ 50 ☐		✓	
20	-005		☑ 50 ☐	☑ 50 ☐		✓	
	-006		☑ 50 ☐	☑ 50 ☐		✓	
	-007		☑ 50 ☐	☑ 50 ☐		✓	
	-010		☑ 50 ☐	☑ 50 ☐		✓	
II	250704-001	A	☑ 50 ☐	☑ 50 ☐	no	✓	added 18:32
			☐ 50 ☐	☐ 50 ☐			

	Reagent ID or LIMS #	Initials / Date
Digestion tubes, lot #	169172	NCD 11/1/2013
0.5 mL of spike solution (Std1) was added to all spikes	S21653	
0.5 mL of spike solution (Std2) was added to all spikes	S21652	
Digestion Temperature (°C), Block and Probe Location	95°C A6	
Digestion begun at (time)	14:10	
☑ Conc. HNO3 or ☐ 1:1 HNO3	L12065	
1:1 HCl	40272-103115	
digestion ended at (time)	19:30	
☐ filtered thru' Whatman # 541	—	
Relinquished to ICP group	ICAP	

Prep Chemist / Date 11/1/2013

Continued from page _____
Continued on page _____

Reviewed Online / See LIMS

Laboratory Job Number 250555

ANALYTICAL REPORT

Metals

Matrix: Filtrate

Curtis & Tompkins, Ltd.

Dissolved Chromium

Lab #:	250555	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Sampled:	11/05/13
Matrix:	Filtrate	Received:	11/06/13
Units:	ug/L	Prepared:	11/07/13
Diln Fac:	1.000	Analyzed:	11/15/13
Batch#:	204858		

Field ID	Type	Lab ID	Result	RL	MDL
E-101	SAMPLE	250555-001	5.8	5.0	0.69
E-1101	SAMPLE	250555-002	5.8	5.0	0.69
GAC-02	SAMPLE	250555-003	11	5.0	0.69
GAC-102	SAMPLE	250555-004	9.7	5.0	0.69
GAC-03	SAMPLE	250555-005	4.5 J	5.0	0.69
NE-02	SAMPLE	250555-006	4.2 J	5.0	0.69
NE-03	SAMPLE	250555-007	11	5.0	0.69
NE-04	SAMPLE	250555-008	22	5.0	0.69
	BLANK	QC715293	ND	5.0	0.69
	BLANK	QC715305	ND	5.0	0.69

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Chromium

Lab #:	250555	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Sampled:	11/05/13
Matrix:	Filtrate	Received:	11/06/13
Units:	ug/L	Prepared:	11/07/13
Diln Fac:	1.000	Analyzed:	11/15/13
Batch#:	204858		

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
	BS		QC715294		200.0	197.9	99	80-120		
	BSD		QC715295		200.0	190.3	95	80-120	4	20
GAC-03	MS	250555-005	QC715296	4.539	200.0	205.4	100	74-120		
GAC-03	MSD	250555-005	QC715297		200.0	207.0	101	74-120	1	20
NE-02	MS	250555-006	QC715298	4.203	200.0	207.5	102	74-120		
NE-02	MSD	250555-006	QC715299		200.0	207.2	102	74-120	0	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Chromium

Lab #:	250555	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	NE-02	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	204858
MSS Lab ID:	250555-006	Sampled:	11/05/13
Lab ID:	QC715300	Received:	11/06/13
Matrix:	Filtrate	Analyzed:	11/15/13

MSS Result	MSS RL	Result	RL	% Diff	Lim
4.203	5.000	4.783 J	25.00	NC	10

J= Estimated value
NC= Not Calculated
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Chromium

Lab #:	250555	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	NE-02	Diln Fac:	1.000
Type:	Post Digest Spike	Batch#:	204858
MSS Lab ID:	250555-006	Sampled:	11/05/13
Lab ID:	QC715301	Received:	11/06/13
Matrix:	Filtrate	Analyzed:	11/15/13

MSS Result	Spiked	Result	%REC	Limits
4.203	200.0	204.5	100	75-125

REPORTING SUMMARY FOR 250555 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CR	
250555-001	MET08	11/15/13 19:48	1.0	+	
250555-002	MET08	11/15/13 19:53	1.0	+	
250555-003	MET08	11/15/13 19:58	1.0	+	
250555-004	MET08	11/15/13 20:03	1.0	+	
250555-005	MET08	11/15/13 18:36	1.0	+	
250555-006	MET08	11/15/13 18:50	1.0	+	
250555-007	MET08	11/15/13 20:08	1.0	+	
250555-008	MET08	11/15/13 20:13	1.0	+	
QC715293	MET08	11/15/13 18:18	1.0	+	
QC715294	MET08	11/15/13 18:28	1.0	+	
QC715295	MET08	11/15/13 18:32	1.0	+	
QC715296	MET08	11/15/13 18:42	1.0	+	
QC715297	MET08	11/15/13 18:46	1.0	+	
QC715298	MET08	11/15/13 18:55	1.0	+	
QC715299	MET08	11/15/13 19:35	1.0	+	
QC715300	MET08	11/15/13 19:39	5.0	+	
QC715301	MET08	11/15/13 19:44	1.0	+	
QC715305	MET08	11/15/13 18:23	1.0	+	

ICP Data

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83459709

Instrument : MET08 Begun : 11/15/13 05:49
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	met08_sn_6010	ICALBLK				11/15/13 05:49	1.0		
002	met08_sn_6010	ICAL	CRI5.1			11/15/13 05:54	1.0	1	
003	met08_sn_6010	ICAL	CS100			11/15/13 05:59	1.0	2	
004	met08_sn_6010	ICAL	CS1K			11/15/13 06:03	1.0	3	
005	met08_sn_6010	ICAL	CS10K			11/15/13 06:07	1.0	4	
006	met08_sn_6010	ICAL	CS100K			11/15/13 06:14	1.0	5	
007	met08_sn_6010	XICV				11/15/13 06:21	1.0	6	
008	met08_sn_6010	ICV				11/15/13 06:26	1.0	6	
009	met08_sn_6010	XCRI				11/15/13 06:43	1.0	7	
010	met08_sn_6010	CRI				11/15/13 06:55	1.0	7	
011	met08_sn_6010	ICB				11/15/13 07:01	1.0		
012	met08_sn_6010	ICSA				11/15/13 07:06	1.0	8	10:MG=510000
013	met08_sn_6010	ICSAB				11/15/13 07:23	1.0	9	5:AL=470000
014	met08_sn_6010	BLANK	QC715356	Water	204870	11/15/13 07:30	1.0		
015	met08_sn_6010	BLANK	QC716157	Water	205067	11/15/13 07:34	1.0		
016	met08_sn_6010	MSS	250768-001	Water	205067	11/15/13 07:39	1.0		
017	met08_sn_6010	MSS	250579-003	Filtrate	204895	11/15/13 07:43	100.0		
018	met08_sn_6010	SAMPLE	250579-006	Filtrate	204895	11/15/13 07:48	100.0		
019	met08_sn_6010	SAMPLE	250511-003	Filtrate	204895	11/15/13 07:53	1.0		2:NA=280000
020	met08_sn_6010	SAMPLE	250511-004	Filtrate	204895	11/15/13 07:58	1.0		2:NA=340000
021	met08_sn_6010	SAMPLE	250511-006	Filtrate	204895	11/15/13 08:03	1.0		2:NA=340000
022	met08_sn_6010	ICSAB				11/15/13 08:08	1.0	9	5:MG=480000
023	met08_sn_6010	CCV				11/15/13 08:15	1.0	10	
024	met08_sn_6010	CCB				11/15/13 08:22	1.0		
025	met08_sn_6010	SAMPLE	250511-007	Filtrate	204895	11/15/13 08:27	1.0		2:NA=290000
026	met08_sn_6010	SAMPLE	250379-001	Filtrate	204713	11/15/13 08:32	1.0		
027	met08_sn_6010	SAMPLE	250379-002	Filtrate	204713	11/15/13 08:36	1.0		
028	met08_sn_6010	SAMPLE	250379-003	Filtrate	204713	11/15/13 08:40	1.0		
029	met08_sn_6010	SAMPLE	250379-004	Filtrate	204713	11/15/13 08:44	1.0		
030	met08_sn_6010	SAMPLE	250379-005	Filtrate	204713	11/15/13 08:48	1.0		
031	met08_sn_6010	SAMPLE	250379-006	Filtrate	204713	11/15/13 08:52	1.0		
032	met08_sn_6010	CCV				11/15/13 08:59	1.0	10	
033	met08_sn_6010	CCB				11/15/13 09:05	1.0		
034	met08_sn_6010	BLANK	QC715843	Water	204986	11/15/13 09:10	1.0		
035	met08_sn_6010	BS	QC715844	Water	204986	11/15/13 09:15	1.0		
036	met08_sn_6010	BSD	QC715845	Water	204986	11/15/13 09:19	1.0		
037	met08_sn_6010	MSS	250628-001	Water	204986	11/15/13 09:23	1.0		
038	met08_sn_6010	MS	QC715846	Water	204986	11/15/13 09:28	1.0		
039	met08_sn_6010	MSD	QC715847	Water	204986	11/15/13 09:32	1.0		
040	met08_sn_6010	SAMPLE	250628-002	Water	204986	11/15/13 09:36	1.0		
041	met08_sn_6010	SAMPLE	250628-003	Water	204986	11/15/13 09:41	1.0		
042	met08_sn_6010	SAMPLE	250628-004	Water	204986	11/15/13 09:45	1.0		
043	met08_sn_6010	ICSAB				11/15/13 09:49	1.0	9	5:MG=470000
044	met08_sn_6010	CCV				11/15/13 09:56	1.0	10	
045	met08_sn_6010	CCB				11/15/13 10:03	1.0		
046	met08_sn_6010	SAMPLE	250384-002	Filtrate	204713	11/15/13 10:08	1.0		
047	met08_sn_6010	SAMPLE	250384-003	Filtrate	204713	11/15/13 10:12	1.0		1:NA=140000
048	met08_sn_6010	SAMPLE	250326-001	Filtrate	204623	11/15/13 10:16	1.0		1:MG=100000
049	met08_sn_6010	SAMPLE	250326-002	Filtrate	204623	11/15/13 10:25	1.0		
050	met08_sn_6010	SAMPLE	250326-003	Filtrate	204623	11/15/13 10:29	1.0		
051	met08_sn_6010	SAMPLE	250326-004	Filtrate	204623	11/15/13 10:33	1.0		1:NA=520000
052	met08_sn_6010	SAMPLE	250326-005	Filtrate	204623	11/15/13 10:40	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83459709

Instrument : MET08 Begun : 11/15/13 05:49
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
053	met08_sn_6010	SAMPLE	250326-006	Filtrate	204623	11/15/13 10:45	1.0		1:NA=100000
054	met08_sn_6010	SAMPLE	250327-001	Filtrate	204623	11/15/13 10:49	1.0		
055	met08_sn_6010	SAMPLE	250327-002	Filtrate	204623	11/15/13 10:53	1.0		
056	met08_sn_6010	CCV				11/15/13 10:57	1.0	10	
057	met08_sn_6010	CCB				11/15/13 11:04	1.0		
058	met08_sn_6010	ICSAB				11/15/13 11:09	1.0	9	5:MG=480000
059	met08_sn_6010	SAMPLE	250327-003	Filtrate	204623	11/15/13 11:15	1.0		
060	met08_sn_6010	SAMPLE	250327-004	Filtrate	204623	11/15/13 11:20	1.0		
061	met08_sn_6010	SAMPLE	250623-005	Water	204986	11/15/13 11:24	1.0		1:CA=140000
062	met08_sn_6010	SAMPLE	250623-006	Water	204986	11/15/13 11:29	1.0		1:CA=160000
063	met08_sn_6010	SAMPLE	250623-007	Water	204986	11/15/13 11:34	1.0		3:NA=120000
064	met08_sn_6010	SAMPLE	250623-008	Water	204986	11/15/13 11:38	1.0		
065	met08_sn_6010	SAMPLE	250623-009	Water	204986	11/15/13 11:43	1.0		1:CA=180000
066	met08_sn_6010	SAMPLE	250623-010	Water	204986	11/15/13 11:48	1.0		1:CA=170000
067	met08_sn_6010	SAMPLE	250642-008	Water	204986	11/15/13 11:53	1.0		2:NA=270000
068	met08_sn_6010	SAMPLE	250642-009	Water	204986	11/15/13 11:58	1.0		2:NA=250000
069	met08_sn_6010	CCV				11/15/13 12:02	1.0	10	
070	met08_sn_6010	CCB				11/15/13 12:09	1.0		
071	met08_sn_6010	SAMPLE	250642-010	Water	204986	11/15/13 12:14	1.0		2:NA=240000
072	met08_sn_6010	SAMPLE	250642-011	Water	204986	11/15/13 12:18	1.0		2:NA=320000
073	met08_sn_6010	BLANK	QC715998	Water	205030	11/15/13 12:23	1.0		
074	met08_sn_6010	BS	QC715999	Water	205030	11/15/13 12:28	1.0		
075	met08_sn_6010	BSD	QC716000	Water	205030	11/15/13 12:33	1.0		
076	met08_sn_6010	MSS	250707-002	Water	205030	11/15/13 12:37	1.0		1:NA=170000
077	met08_sn_6010	MS	QC716001	Water	205030	11/15/13 12:41	1.0		
078	met08_sn_6010	MSD	QC716002	Water	205030	11/15/13 12:45	1.0		
079	met08_sn_6010	SAMPLE	250666-012	Water	205030	11/15/13 12:49	1.0		1:CA=140000
080	met08_sn_6010	SAMPLE	250666-014	Water	205030	11/15/13 12:53	1.0		1:CA=100000
081	met08_sn_6010	CCV				11/15/13 12:57	1.0	10	
082	met08_sn_6010	CCB				11/15/13 13:04	1.0		
083	met08_sn_6010	ICSAB				11/15/13 13:16	1.0	9	5:AL=480000
084	met08_sn_6010	SAMPLE	250666-019	Water	205030	11/15/13 13:23	1.0		1:CA=140000
085	met08_sn_6010	SAMPLE	250666-032	Water	205030	11/15/13 13:28	1.0		1:CA=160000
086	met08_sn_6010	MSS	248949-002	Filtrate	203053	11/15/13 13:33	100.0		
087	met08_sn_6010	SER	QC707733	Filtrate	203053	11/15/13 13:38	500.0		
088	met08_sn_6010	PDS	QC707734	Filtrate	203053	11/15/13 13:43	100.0	11 12	
089	met08_sn_6010	CCV				11/15/13 13:47	1.0	10	
090	met08_sn_6010	CCB				11/15/13 13:54	1.0		
091	met08_sn_6010	ICSAB				11/15/13 13:59	1.0	9	5:AL=490000
092	met08_sn_6010	BLANK	QC715076	Filtrate	204807	11/15/13 14:20	1.0		
093	met08_sn_6010	BS	QC715077	Filtrate	204807	11/15/13 14:25	1.0		
094	met08_sn_6010	BSD	QC715078	Filtrate	204807	11/15/13 14:29	1.0		
095	met08_sn_6010	MSS	250520-002	Filtrate	204807	11/15/13 14:33	1.0		3:MG=690000
096	met08_sn_6010	MS	QC715079	Filtrate	204807	11/15/13 14:40	1.0		3:MG=690000
097	met08_sn_6010	MSD	QC715080	Filtrate	204807	11/15/13 14:47	1.0		3:MG=690000
098	met08_sn_6010	SAMPLE	250458-004	Filtrate	204807	11/15/13 14:54	10.0		
099	met08_sn_6010	SAMPLE	250459-002	Filtrate	204807	11/15/13 14:59	100.0		
100	met08_sn_6010	SAMPLE	250459-003	Filtrate	204807	11/15/13 15:03	10.0		
101	met08_sn_6010	BLANK	QC715652	Water	204935	11/15/13 15:07	1.0		
102	met08_sn_6010	CCV				11/15/13 15:12	1.0	10	
103	met08_sn_6010	CCB				11/15/13 15:19	1.0		
104	met08_sn_6010	BS	QC715653	Water	204935	11/15/13 15:24	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83459709

Instrument : MET08 Begun : 11/15/13 05:49
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
105	met08_sn_6010	BSD	QC715654	Water	204935	11/15/13 15:28	1.0		
106	met08_sn_6010	MSS	250604-001	Water	204935	11/15/13 15:33	1.0		3:CA=240000
107	met08_sn_6010	MS	QC715655	Water	204935	11/15/13 15:37	1.0		
108	met08_sn_6010	MSD	QC715656	Water	204935	11/15/13 15:41	1.0		
109	met08_sn_6010	SER	QC715657	Water	204935	11/15/13 15:45	5.0		
110	met08_sn_6010	PDS	QC715658	Water	204935	11/15/13 15:50	1.0	11 12	
111	met08_sn_6010	SAMPLE	250604-002	Water	204935	11/15/13 15:54	1.0		3:CA=350000
112	met08_sn_6010	SAMPLE	250604-003	Water	204935	11/15/13 15:58	1.0		3:CA=290000
113	met08_sn_6010	SAMPLE	250604-004	Water	204935	11/15/13 16:02	1.0		3:CA=490000
114	met08_sn_6010	CCV				11/15/13 16:07	1.0	10	
115	met08_sn_6010	CCB				11/15/13 16:13	1.0		
116	met08_sn_6010	ICSAB				11/15/13 16:18	1.0	9	5:AL=500000
117	met08_sn_6010	SAMPLE	250604-005	Water	204935	11/15/13 16:25	1.0		3:CA=270000
118	met08_sn_6010	SAMPLE	250604-006	Water	204935	11/15/13 16:30	1.0		3:CA=510000
119	met08_sn_6010	SAMPLE	250604-007	Water	204935	11/15/13 16:34	1.0		2:CA=230000
120	met08_sn_6010	SAMPLE	250604-008	Water	204935	11/15/13 16:39	1.0		1:CA=230000
121	met08_sn_6010	SAMPLE	250604-009	Water	204935	11/15/13 16:43	1.0		2:NA=160000
122	met08_sn_6010	SAMPLE	250604-010	Water	204935	11/15/13 16:47	1.0		2:CA=220000
123	met08_sn_6010	SAMPLE	250604-011	Water	204935	11/15/13 16:51	1.0		3:CA=500000
124	met08_sn_6010	SAMPLE	250604-012	Water	204935	11/15/13 16:56	1.0		3:CA=530000
125	met08_sn_6010	SAMPLE	250604-013	Water	204935	11/15/13 17:00	1.0		2:CA=340000
126	met08_sn_6010	SAMPLE	250604-014	Water	204935	11/15/13 17:04	1.0		1:NA=140000
127	met08_sn_6010	CCV				11/15/13 17:08	1.0	10	
128	met08_sn_6010	CCB				11/15/13 17:15	1.0		
129	met08_sn_6010	SAMPLE	250604-015	Water	204935	11/15/13 17:20	1.0		3:CA=420000
130	met08_sn_6010	SAMPLE	250557-004	Water	204935	11/15/13 17:24	1.0		2:NA=300000
131	met08_sn_6010	SAMPLE	250557-005	Water	204935	11/15/13 17:29	1.0		2:NA=320000
132	met08_sn_6010	SAMPLE	250557-006	Water	204935	11/15/13 17:33	1.0		2:NA=370000
133	met08_sn_6010	SAMPLE	250557-011	Water	204935	11/15/13 17:37	1.0		2:NA=280000
134	met08_sn_6010	SAMPLE	250557-012	Water	204935	11/15/13 17:42	1.0		2:NA=260000
135	met08_sn_6010	CCV				11/15/13 17:47	1.0	10	
136	met08_sn_6010	CCB				11/15/13 17:54	1.0		
137	met08_sn_6010	ICSAB				11/15/13 18:00	1.0	9	5:AL=500000
138	met08_sn_6010	BLANK	QC715293	Filtrate	204858	11/15/13 18:18	1.0		
139	met08_sn_6010	BLANK	QC715305	Filtrate	204858	11/15/13 18:23	1.0		
140	met08_sn_6010	BS	QC715294	Filtrate	204858	11/15/13 18:28	1.0		
141	met08_sn_6010	BSD	QC715295	Filtrate	204858	11/15/13 18:32	1.0		
142	met08_sn_6010	MSS	250555-005	Filtrate	204858	11/15/13 18:36	1.0		2:CA=230000
143	met08_sn_6010	MS	QC715296	Filtrate	204858	11/15/13 18:42	1.0		1:CA=230000
144	met08_sn_6010	MSD	QC715297	Filtrate	204858	11/15/13 18:46	1.0		1:CA=230000
145	met08_sn_6010	MSS	250555-006	Filtrate	204858	11/15/13 18:50	1.0		2:NA=430000
146	met08_sn_6010	MS	QC715298	Filtrate	204858	11/15/13 18:55	1.0		
147	met08_sn_6010	X	RINSE			11/15/13 18:59	1.0		
148	met08_sn_6010	CCV				11/15/13 19:04	1.0	10	
149	met08_sn_6010	XCCB				11/15/13 19:11	1.0		
150	met08_sn_6010	XCCB				11/15/13 19:15	1.0		
151	met08_sn_6010	XMSD	QC715299	Filtrate	204858	11/15/13 19:20	1.0		
152	met08_sn_6010	CCB				11/15/13 19:30	1.0		
153	met08_sn_6010	MSD	QC715299	Filtrate	204858	11/15/13 19:35	1.0		
154	met08_sn_6010	SER	QC715300	Filtrate	204858	11/15/13 19:39	5.0		
155	met08_sn_6010	PDS	QC715301	Filtrate	204858	11/15/13 19:44	1.0	11 12	
156	met08_sn_6010	SAMPLE	250555-001	Filtrate	204858	11/15/13 19:48	1.0		2:CA=250000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83459709

Instrument : MET08 Begun : 11/15/13 05:49
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
157	met08_sn_6010	SAMPLE	250555-002	Filtrate	204858	11/15/13 19:53	1.0		2:CA=250000
158	met08_sn_6010	SAMPLE	250555-003	Filtrate	204858	11/15/13 19:58	1.0		3:CA=210000
159	met08_sn_6010	SAMPLE	250555-004	Filtrate	204858	11/15/13 20:03	1.0		3:CA=210000
160	met08_sn_6010	SAMPLE	250555-007	Filtrate	204858	11/15/13 20:08	1.0		2:NA=370000
161	met08_sn_6010	SAMPLE	250555-008	Filtrate	204858	11/15/13 20:13	1.0		3:NA=310000
162	met08_sn_6010	SAMPLE	250558-001	Filtrate	204858	11/15/13 20:19	1.0		3:NA=370000
163	met08_sn_6010	CCV				11/15/13 20:24	1.0	10	
164	met08_sn_6010	CCB				11/15/13 20:30	1.0		
165	met08_sn_6010	ICSAB				11/15/13 20:36	1.0	9	5:AL=490000
166	met08_sn_6010	MSS	250520-002	Filtrate	204807	11/15/13 20:42	100.0		
167	met08_sn_6010	SAMPLE	250558-002	Filtrate	204858	11/15/13 20:46	1.0		3:NA=380000
168	met08_sn_6010	SAMPLE	250558-003	Filtrate	204858	11/15/13 20:51	1.0		1:CA=210000
169	met08_sn_6010	SAMPLE	250558-004	Filtrate	204858	11/15/13 20:57	1.0		1:CA=210000
170	met08_sn_6010	SAMPLE	250558-008	Filtrate	204858	11/15/13 21:02	1.0		3:CA=310000
171	met08_sn_6010	SAMPLE	250558-009	Filtrate	204858	11/15/13 21:07	1.0		3:CA=410000
172	met08_sn_6010	SAMPLE	250558-010	Filtrate	204858	11/15/13 21:12	1.0		3:CA=410000
173	met08_sn_6010	SAMPLE	250458-004	Filtrate	204807	11/15/13 21:17	1.0		3:CA=370000
174	met08_sn_6010	SAMPLE	250459-002	Filtrate	204807	11/15/13 21:22	1.0		2:CA=1300000
175	met08_sn_6010	X	RINSE			11/15/13 21:29	1.0		
176	met08_sn_6010	CCV				11/15/13 21:34	1.0	10	
177	met08_sn_6010	CCB				11/15/13 21:41	1.0		
178	met08_sn_6010	ICSAB				11/15/13 21:46	1.0	9	5:AL=490000

NT 11/15/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 46.

CRT 11/15/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 47 through 152.

CRT 11/15/13 : On runs 149-151, the CCB ran out. Reran the CCB and the sample right after.

NT 11/18/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 153 through 178.

Standards used: 1=S23297 2=S23299 3=S23298 4=S23300 5=S23301 6=S23304 7=S23306 8=S23302 9=S23303 10=S23305 11=S21652 12=S21653

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83459709

Date : 11/15/13 Reference : met08_sn_6010
Sequence : MET08 11/15/13 Analyzed : 11/15/13 05:54

#	Type	Sample ID	Y A
		ICAL STD	2065785
		LOWER LIMIT	619735
		UPPER LIMIT	4131569
011	ICB		2129551
012	ICSA		1994872
013	ICSAB		2046299
014	BLANK	QC715356	2300113
015	BLANK	QC716157	2304930
016	MSS	250768-001	2239605
017	MSS	250579-003	2184211
018	SAMPLE	250579-006	2185478
019	SAMPLE	250511-003	2049248
020	SAMPLE	250511-004	2043652
021	SAMPLE	250511-006	2027462
022	ICSAB		2044295
023	CCV		2257518
024	CCB		2181511
025	SAMPLE	250511-007	2018916
026	SAMPLE	250379-001	2295006
027	SAMPLE	250379-002	2301270
028	SAMPLE	250379-003	2212824
029	SAMPLE	250379-004	2296476
030	SAMPLE	250379-005	2274283
031	SAMPLE	250379-006	2192185
032	CCV		2276241
033	CCB		2131510
034	BLANK	QC715843	2251756
035	BS	QC715844	2291151
036	BSD	QC715845	2244896
037	MSS	250628-001	2230051
038	MS	QC715846	2248098
039	MSD	QC715847	2222664
040	SAMPLE	250628-002	2220970
041	SAMPLE	250628-003	2300305
042	SAMPLE	250628-004	2300290
043	ICSAB		2016421
044	CCV		2245136
045	CCB		2172114
046	SAMPLE	250384-002	2226531
047	SAMPLE	250384-003	2265831
048	SAMPLE	250326-001	1969022
049	SAMPLE	250326-002	2235903
050	SAMPLE	250326-003	2238259
051	SAMPLE	250326-004	2142553
052	SAMPLE	250326-005	2173072
053	SAMPLE	250326-006	2275497
054	SAMPLE	250327-001	2352859
055	SAMPLE	250327-002	2295938
056	CCV		2271951
057	CCB		2168558
058	ICSAB		2038074

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83459709

Date : 11/15/13 Reference : met08_sn_6010
Sequence : MET08 11/15/13 Analyzed : 11/15/13 05:54

#	Type	Sample ID	Y A
059	SAMPLE	250327-003	2353937
060	SAMPLE	250327-004	2312666
067	SAMPLE	250642-008	2027719
068	SAMPLE	250642-009	2095119
069	CCV		2290395
070	CCB		2146425
071	SAMPLE	250642-010	2080330
072	SAMPLE	250642-011	1940039
073	BLANK	QC715998	2165388
074	BS	QC715999	2171140
075	BSD	QC716000	2186836
076	MSS	250707-002	2180818
077	MS	QC716001	2125599
078	MSD	QC716002	2150244
081	CCV		2231767
082	CCB		2104616
083	ICSAB		1994881
086	MSS	248949-002	2119093
087	SER	QC707733	2098197
088	PDS	QC707734	2150478
089	CCV		2195065
090	CCB		2115381
091	ICSAB		1961043
092	BLANK	QC715076	2253287
093	BS	QC715077	2228275
094	BSD	QC715078	2231275
095	MSS	250520-002	1967107
096	MS	QC715079	1935785
097	MSD	QC715080	1985658
098	SAMPLE	250458-004	2049322
099	SAMPLE	250459-002	2217280
100	SAMPLE	250459-003	2217223
101	BLANK	QC715652	2140472
102	CCV		2163130
103	CCB		2102941
104	BS	QC715653	2175803
105	BSD	QC715654	2191825
106	MSS	250604-001	2027645
107	MS	QC715655	2026391
108	MSD	QC715656	2007350
109	SER	QC715657	2003971
110	PDS	QC715658	2010278
111	SAMPLE	250604-002	2013094
112	SAMPLE	250604-003	1997160
113	SAMPLE	250604-004	1927170
114	CCV		2198032
115	CCB		2087419
116	ICSAB		1956127
117	SAMPLE	250604-005	1981718
118	SAMPLE	250604-006	1990176
119	SAMPLE	250604-007	2109792
120	SAMPLE	250604-008	2097561

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83459709

Date : 11/15/13 Reference : met08_sn_6010
Sequence : MET08 11/15/13 Analyzed : 11/15/13 05:54

#	Type	Sample ID	Y A
121	SAMPLE	250604-009	2050980
122	SAMPLE	250604-010	2089321
123	SAMPLE	250604-011	1893063
124	SAMPLE	250604-012	1996009
125	SAMPLE	250604-013	2032613
126	SAMPLE	250604-014	2118142
127	CCV		2188148
128	CCB		2068751
129	SAMPLE	250604-015	2014194
130	SAMPLE	250557-004	2037204
131	SAMPLE	250557-005	2056471
132	SAMPLE	250557-006	2033006
133	SAMPLE	250557-011	1932232
134	SAMPLE	250557-012	2019809
135	CCV		2207137
136	CCB		2130979
137	ICSAB		1984153
138	BLANK	QC715293	2176097
139	BLANK	QC715305	2136852
140	BS	QC715294	2208129
141	BSD	QC715295	2227555
142	MSS	250555-005	2000762
143	MS	QC715296	2043213
144	MSD	QC715297	2060212
145	MSS	250555-006	1939439
146	MS	QC715298	2061465
148	CCV		2193916
152	CCB		2126993
153	MSD	QC715299	2067140
154	SER	QC715300	2032847
155	PDS	QC715301	2012353
156	SAMPLE	250555-001	1993182
157	SAMPLE	250555-002	1997615
158	SAMPLE	250555-003	1985928
159	SAMPLE	250555-004	1993065
160	SAMPLE	250555-007	1944187
161	SAMPLE	250555-008	1946275
162	SAMPLE	250558-001	1928421
163	CCV		2178562
164	CCB		2121721
165	ICSAB		2026238
166	MSS	250520-002	2250956
167	SAMPLE	250558-002	1940215
168	SAMPLE	250558-003	2033731
169	SAMPLE	250558-004	2011608
170	SAMPLE	250558-008	1921411
171	SAMPLE	250558-009	1925087
172	SAMPLE	250558-010	1898815
173	SAMPLE	250458-004	1909060
174	SAMPLE	250459-002	1839463
176	CCV		2155835
177	CCB		2026486

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83459709

Date : 11/15/13 Reference : met08_sn_6010
Sequence : MET08 11/15/13 Analyzed : 11/15/13 05:54

#	Type	Sample ID	Y A
178	ICSAB		1976393

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 250555 METALS Filtrate: EPA 6010B

Inst : MET08 Reviewer : ---
Calnum : 83459709001 Date : 15-NOV-2013 05:49
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	met08_sn_6010	83459709002	CRI5.1	15-NOV-2013 05:54	S23297
L2	met08_sn_6010	83459709003	CS100	15-NOV-2013 05:59	S23299
L3	met08_sn_6010	83459709004	CS1K	15-NOV-2013 06:03	S23298
L4	met08_sn_6010	83459709005	CS10K	15-NOV-2013 06:07	S23300
L5	met08_sn_6010	83459709006	CS100K	15-NOV-2013 06:14	S23301

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Chromium	A	103.52	98.093	96.632	92.335		LOR0	0.00000	0.01083		97.645	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Chromium	A	5.0000	12	100.00	6	1000.0	5	10000	0		

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 250555 METALS Filtrate
EPA 6010B

Inst : MET08
Calnum : 83459709001 Cal Date : 15-NOV-2013

ICV 83459709008 (15-NOV-2013) stds: S23304

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Chromium	A	5000	5076	ug/L	2	10	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250555 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83459709011.2 File : met08_sn_6010 Time : 15-NOV-2013 07:01
Cal : 83459709001 Caldate : 15-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2065785	2129551	3.09

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR 250555 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83459709012.2 File : met08_sn_6010 Time : 15-NOV-2013 07:06
Cal : 83459709001 Caldate : 15-NOV-2013
Standards: S23302

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19420	ug/L	97
Copper	A	20000	20900	ug/L	104
Manganese	A	20000	18450	ug/L	92
Nickel	A	20000	18440	ug/L	92
Vanadium	A	20000	19450	ug/L	97
Aluminum	R	500000	508400	ug/L	102
Calcium	R	500000	491000	ug/L	98
Iron	R	200000	193800	ug/L	97
Magnesium	R	500000	508700	ug/L	102
Titanium	R	20000	21110	ug/L	106

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2065785	1994872	-3.43

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 250555 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83459709135.1 File : met08_sn_6010 Time : 15-NOV-2013 17:47
Cal : 83459709001 Caldate : 15-NOV-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	97.645	94.192	5000	5098	ug/L	2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2065785	2207137	6.84

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250555 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83459709136.1 File : met08_sn_6010 Time : 15-NOV-2013 17:54
Cal : 83459709001 Caldate : 15-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2065785	2130979	3.16

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 250555 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83459709137.1 File : met08_sn_6010 Time : 15-NOV-2013 18:00
Cal : 83459709001 Caldate : 15-NOV-2013
Standards: S23303

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	510.5	ug/L	2	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2065785	1984153	-3.95

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 250555 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83459709148.2 File : met08_sn_6010 Time : 15-NOV-2013 19:04
Cal : 83459709001 Caldate : 15-NOV-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	97.645	95.100	5000	5147	ug/L	3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2065785	2193916	6.20

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250555 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83459709152.2 File : met08_sn_6010 Time : 15-NOV-2013 19:30
Cal : 83459709001 Caldate : 15-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2065785	2126993	2.96

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 250555 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83459709163.2 File : met08_sn_6010 Time : 15-NOV-2013 20:24
Cal : 83459709001 Caldate : 15-NOV-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	97.645	93.045	5000	5036	ug/L	1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2065785	2178562	5.46

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250555 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83459709164.2 File : met08_sn_6010 Time : 15-NOV-2013 20:30
Cal : 83459709001 Caldate : 15-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2065785	2121721	2.71

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 250555 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83459709165.2 File : met08_sn_6010 Time : 15-NOV-2013 20:36
Cal : 83459709001 Caldate : 15-NOV-2013
Standards: S23303

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	507.2	ug/L	1	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2065785	2026238	-1.91

SAMPLE PREPARATION SUMMARY

Batch # : 204858
Started By : NCD
Method : 3010A
Spike #1 ID : S21652

Prep Date : 07-NOV-2013 15:30
SOP Version : 3010A_icp_rv15
Spike #2 ID : S21653

Analysis : ICAP
Finished By : NCD
Units : mL

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
250555-001		Filtrate	50	50	1	1.0						CR	
250555-002		Filtrate	50	50	1	1.0						CR	
250555-003		Filtrate	50	50	1	1.0						CR	
250555-004		Filtrate	50	50	1	1.0						CR	
250555-005		Filtrate	50	50	1	1.0						CR	
250555-006		Filtrate	50	50	1	1.0						CR	
250555-007		Filtrate	50	50	1	1.0						CR	
250555-008		Filtrate	50	50	1	1.0						CR	
250558-001		Filtrate	50	50	1	1.0						CR	
250558-002		Filtrate	50	50	1	1.0						CR	
250558-003		Filtrate	50	50	1	1.0						CR	
250558-004		Filtrate	50	50	1	1.0						CR	
250558-005		Filtrate	50	50	1	1.0						(rebatched)	
250558-008		Filtrate	50	50	1	1.0						CR	
250558-009		Filtrate	50	50	1	1.0						CR	
250558-010		Filtrate	50	50	1	1.0						CR	
QC715293	BLANK	Filtrate	50	50	1	1.0							
QC715294	BS	Filtrate	50	50	1	1.0		.5	.5				
QC715295	BSD	Filtrate	50	50	1	1.0		.5	.5				
QC715296	MS	Filtrate	50	50	1	1.0		.5	.5				
QC715297	MSD	Filtrate	50	50	1	1.0		.5	.5				
QC715298	MS	Filtrate	50	50	1	1.0		.5	.5				
QC715299	MSD	Filtrate	50	50	1	1.0		.5	.5				
QC715300	SER	Filtrate	50	50	1	1.0							
QC715301	PDS	Filtrate	50	50	1	1.0							
QC715305	BLANK	Filtrate	50	50	1	1.0							

Analyst: NT Date: 11/18/13 Reviewer: PRW Date: 11/18/13

Water Digestion for ICP

Curtis & Tompkins, Ltd.

LIMS Batch #: 204858
Digested by: NCD
Date Digested: 11/7/2013

Digestion Method
☒ EPA 3010a for ICP
☐ EPA 200.7
☒ Filtrate prep

BK3498
Page 33

Vl.	Sample #	Container ID	Volume Sample(mL)	Final Volume (mL)	Filtered? (y/n)	ID Π	Comments
	BLK		☑ 50	☑ 50	NO	/	BLK filter 250555
	BS		☑ 50	☑ 50		/	
	BSD		☑ 50	☑ 50		/	
III	250555-005	O	☑ 50	☑ 50		/	MS
5	-005		☑ 50	☑ 50		/	MSD
	-006	M	☑ 50	☑ 50		/	MS
	-006		☑ 50	☑ 50		/	MSD
	-001	E	☑ 50	☑ 50		/	
	-002		☑ 50	☑ 50		/	
10	-003		☑ 50	☑ 50		/	
	-004		☑ 50	☑ 50		/	
	-005	O	☑ 50	☑ 50		/	
	-006	M	☑ 50	☑ 50		/	
	-007	E	☑ 50	☑ 50		/	
15	-008		☑ 50	☑ 50		/	
III	250558-001	E	☑ 50	☑ 50		/	
	-002		☑ 50	☑ 50		/	
	-003		☑ 50	☑ 50		/	
	-004		☑ 50	☑ 50		/	
20	-005		☑ 50	☑ 50		/	
	-006		☑ 50	☑ 50		/	
	-009		☑ 50	☑ 50		/	
	-010		☑ 50	☑ 50		/	
	BLK2		☑ 50	☑ 50	NO	/	BLK filter 250558
			☐ 50	☐ 50			

	Reagent ID or LIMS #	Initials / Date
Digestion tubes, lot #	Accuflow	NCD 11/07/2013
0.5 mL of spike solution (Std1) was added to all spikes	S21653	
0.5 mL of spike solution (Std2) was added to all spikes	S21652	
Digestion Temperature (°C), Block and Probe Location	—	—
Digestion begun at (time)	15:30	
☐ Conc. HNO3 or ☑ 1:1 HNO3	21587	
1:1 HCl	102272 - 103113	
digestion ended at (time)	—	
☐ filtered thru' Whatman # 541	—	
Relinquished to ICP group	ICAP	

11/07/2013
Prep Chemist / Date

Continued from page _____.
Continued on page _____.

Reviewed Online / See LIMS

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 250558
ANALYTICAL REPORT

Haley & Aldrich 400 East Van Buren Street Phoenix, CA 85004	Project : 39049-103 Location : PGA South Level : III

Sample ID	Lab ID
AST-INF	250558-001
AST-EFF	250558-002
GAC-02 INF	250558-003
GAC-02 EFF	250558-004
E-07R	250558-005
COG-20	250558-006
COG-11	250558-007
E-12	250558-008
E-17	250558-009
E-117	250558-010
TRIP BLANK	250558-011

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Isabelle Choy Date: 11/21/2013

Isabelle Choy
Project Manager
isabelle.choy@ctberk.com

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**250558**
Client:	**Haley & Aldrich**
Project:	**39049-103**
Location:	**PGA South**
Request Date:	**11/06/13**
Samples Received:	**11/06/13**

This data package contains sample and QC results for eleven water samples, requested for the above referenced project on 11/06/13. See attached cooler receipt form for any sample receipt problems or discrepancies.

Volatile Organics by GC/MS (EPA 8260B):
High response was observed for Freon 12 in the ICV analyzed 10/18/13 02:45; this analyte was not detected at or above the RL in the associated samples.

High response was observed for vinyl acetate in the ICV analyzed 11/15/13 14:00.

Low response was observed for MTBE in the CCV analyzed 11/15/13 13:37; this analyte met minimum response criteria. High response was observed for Freon 12; this analyte was not detected at or above the RL in the associated samples.

High responses were observed for carbon disulfide and vinyl acetate in the CCV analyzed 11/18/13 08:42.

Many analytes were detected between the MDL and the RL in the method blank for batch 205176; these analytes were not detected in the sample at or above the RL.

No other analytical problems were encountered.

Metals (EPA 6010B) Water:
No analytical problems were encountered.

Metals (EPA 6010B) Filtrate:
Chromium was detected between the MDL and the RL in the method blank for batch 205201.

No other analytical problems were encountered.

Chain of Custody

CHAIN OF CUSTODY

Curtis & Tompkins Laboratories
ENVIRONMENTAL ANALYTICAL TESTING LABORATORY
In Business Since 1878

Page 1 of 1
Chain of Custody #

C&T LOGIN # 250558

2323 Fifth Street
Berkeley, CA 94710

Phone (510) 486-0900
Fax (510) 486-0532

Project No: 39049-103
Project Name: PGAS
Project P. O. No: 39049-103
EDD Format: Report Level ☐ II ☐ III ☐ IV
Turnaround Time: ☐ RUSH ☒ Standard

Sampler: Mark Argall
Report To: Paula Chang
Company: H + A
Telephone: 602-760-2418
Email: pchang@haleyaldrich.com

Lab No.	Sample ID.	Sampling Date Collected	Sampling Time Collected	Matrix Water	Matrix Solid	# of Containers	Chemical Preservative HCl	H2SO4	HNO3	NaOH	None	8260 Full List	8260 Halogenated only	6010B total chromium	6010B Lab filtered & preserved dissolved chromium
1	AST-Inf	11-5-13	0625	X		5	X		X			X		X	X
2	AST-Eff		0635	X		5	X		X			X		X	X
3	GAC-02 Inf		0855	X		5	X		X				X	X	X
4	GAC-02 Eff		0905	X		5	X		X				X	X	X
5	E-07R		0820	X		5	X		X				X	X	X
6	C06-20		1330	X		3	X						X		
7	C06-11		1345	X		3	X						X		
8	E-12		0810	X		5	X		X				X	X	X
9	E-17		0840	X		5	X		X				X	X	X
10	E-17		0840	X		5	X		X				X	X	X
11	Trip Blank			X		3	X					X			
	Temp Blank			X		1									

Notes: Lab filter + preserve 6010B dissolved chrome upon receipt

SAMPLE RECEIPT
☐ Intact
☐ Cold
☐ On Ice
☐ Ambient

RELINQUISHED BY:
DATE: TIME:
DATE: TIME:
DATE: TIME:

RECEIVED BY:
Jina Rankin DATE: 11/6/13 TIME: 1000
DATE: TIME:
DATE: TIME:

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 250558 Date Received 11/6/13 Number of coolers 1
Client H&A Project PGAS (39049-13)

Date Opened 11/6/13 By (print) JK (sign) Irma Raika
Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc) FEDEX (YES) NO
   Shipping info 8034 7753 1793

2A. Were custody seals present? .... ☒ YES (circle) (on cooler) on samples ☐ NO
   How many 2 Name signature Date 11/5/13
2B. Were custody seals intact upon arrival? (YES) NO N/A
3. Were custody papers dry and intact when received? (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) (YES) NO
6. Indicate the packing in cooler: (if other, describe)

☐ Bubble Wrap ☒ Foam blocks ☒ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) 1.6

☐ Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES (NO)
   If YES, what time were they transferred to freezer?
9. Did all bottles arrive unbroken/unopened? (YES) NO
10. Are there any missing / extra samples? YES (NO)
11. Are samples in the appropriate containers for indicated tests? (YES) NO
12. Are sample labels present, in good condition and complete? (YES) NO
13. Do the sample labels agree with custody papers? (YES) NO
14. Was sufficient amount of sample sent for tests requested? (YES) NO
15. Are the samples appropriately preserved? (YES) NO N/A
16. Did you check preservatives for all bottles for each sample? (YES) NO N/A
17. Did you document your preservative check? (YES) NO N/A
18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO (N/A)
19. Did you change the hold time in LIMS for preserved terracores? YES NO (N/A)
20. Are bubbles > 6mm absent in VOA samples? (YES) NO N/A
21. Was the client contacted concerning this sample delivery? YES (NO)
   If YES, Who was called? By Date:

COMMENTS

Rev 10, 11/11

Curtis & Tompkins Sample Preservation for 250558

Sample	pH: <2	>9	>12	Other
-001a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____
-002a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____
-003a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____
-004a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____

Sample	pH: <2	>9	>12	Other
-005a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____
-008a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____
-009a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____
-010a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____

Analyst: TR
Date: 11/6/13

Laboratory Job Number 250558

ANALYTICAL REPORT

Volatile Organics by GC/MS

Matrix: Water

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	250558	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	AST-INF	Diln Fac:	1.000
Lab ID:	250558-001	Sampled:	11/05/13
Matrix:	Water	Received:	11/06/13
Units:	ug/L		

Analyte	Result	RL	MDL	Batch#	Analyzed
Freon 12	ND	1.0	0.2	205101	11/15/13
Chloromethane	ND	1.0	0.1	205101	11/15/13
Vinyl Chloride	ND	0.5	0.1	205101	11/15/13
Bromomethane	ND	1.0	0.1	205101	11/15/13
Chloroethane	ND	1.0	0.1	205101	11/15/13
Trichlorofluoromethane	ND	1.0	0.2	205101	11/15/13
Acetone	ND	10	0.6	205101	11/15/13
Freon 113	6.9	2.0	0.2	205101	11/15/13
1,1-Dichloroethene	1.2	0.5	0.2	205101	11/15/13
Methylene Chloride	ND	10	0.1	205101	11/15/13
Carbon Disulfide	ND	0.5	0.1	205101	11/15/13
MTBE	0.3 J	0.5	0.1	205176	11/18/13
trans-1,2-Dichloroethene	ND	0.5	0.2	205101	11/15/13
Vinyl Acetate	ND	10	0.5	205101	11/15/13
1,1-Dichloroethane	ND	0.5	0.1	205101	11/15/13
2-Butanone	ND	10	0.4	205101	11/15/13
cis-1,2-Dichloroethene	ND	0.5	0.1	205101	11/15/13
2,2-Dichloropropane	ND	0.5	0.2	205101	11/15/13
Chloroform	0.6	0.5	0.1	205101	11/15/13
Bromochloromethane	ND	0.5	0.1	205101	11/15/13
1,1,1-Trichloroethane	ND	0.5	0.1	205101	11/15/13
1,1-Dichloropropene	ND	0.5	0.1	205101	11/15/13
Carbon Tetrachloride	0.2 J	0.5	0.1	205101	11/15/13
1,2-Dichloroethane	ND	0.5	0.1	205101	11/15/13
Benzene	ND	0.5	0.1	205101	11/15/13
Trichloroethene	33	0.5	0.1	205101	11/15/13
1,2-Dichloropropane	ND	0.5	0.1	205101	11/15/13
Bromodichloromethane	ND	0.5	0.1	205101	11/15/13
Dibromomethane	ND	0.5	0.1	205101	11/15/13
4-Methyl-2-Pentanone	ND	10	0.1	205101	11/15/13
cis-1,3-Dichloropropene	ND	0.5	0.1	205101	11/15/13
Toluene	ND	0.5	0.1	205101	11/15/13
trans-1,3-Dichloropropene	ND	0.5	0.1	205101	11/15/13
1,1,2-Trichloroethane	ND	0.5	0.1	205101	11/15/13
2-Hexanone	ND	10	0.2	205101	11/15/13
1,3-Dichloropropane	ND	0.5	0.1	205101	11/15/13
Tetrachloroethene	1.5	0.5	0.1	205101	11/15/13
Dibromochloromethane	ND	0.5	0.1	205101	11/15/13
1,2-Dibromoethane	ND	0.5	0.1	205101	11/15/13
Chlorobenzene	ND	0.5	0.1	205101	11/15/13
1,1,1,2-Tetrachloroethane	ND	0.5	0.1	205101	11/15/13
Ethylbenzene	ND	0.5	0.1	205101	11/15/13
m,p-Xylenes	ND	0.5	0.1	205101	11/15/13
o-Xylene	ND	0.5	0.1	205101	11/15/13
Styrene	ND	0.5	0.1	205101	11/15/13
Bromoform	ND	1.0	0.1	205101	11/15/13
Isopropylbenzene	ND	0.5	0.1	205101	11/15/13
1,1,2,2-Tetrachloroethane	ND	0.5	0.1	205101	11/15/13
1,2,3-Trichloropropane	ND	0.5	0.1	205101	11/15/13
Propylbenzene	ND	0.5	0.1	205101	11/15/13
Bromobenzene	ND	0.5	0.1	205101	11/15/13
1,3,5-Trimethylbenzene	ND	0.5	0.1	205101	11/15/13
2-Chlorotoluene	ND	0.5	0.1	205101	11/15/13

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	250558	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	AST-INF	Diln Fac:	1.000
Lab ID:	250558-001	Sampled:	11/05/13
Matrix:	Water	Received:	11/06/13
Units:	ug/L		

Analyte	Result	RL	MDL	Batch#	Analyzed
4-Chlorotoluene	ND	0.5	0.1	205101	11/15/13
tert-Butylbenzene	ND	0.5	0.1	205101	11/15/13
1,2,4-Trimethylbenzene	ND	0.5	0.1	205101	11/15/13
sec-Butylbenzene	ND	0.5	0.1	205101	11/15/13
para-Isopropyl Toluene	ND	0.5	0.1	205101	11/15/13
1,3-Dichlorobenzene	ND	0.5	0.1	205101	11/15/13
1,4-Dichlorobenzene	ND	0.5	0.1	205101	11/15/13
n-Butylbenzene	ND	0.5	0.1	205101	11/15/13
1,2-Dichlorobenzene	ND	0.5	0.1	205101	11/15/13
1,2-Dibromo-3-Chloropropane	ND	2.0	0.3	205101	11/15/13
1,2,4-Trichlorobenzene	ND	0.5	0.1	205101	11/15/13
Hexachlorobutadiene	ND	2.0	0.1	205101	11/15/13
Naphthalene	ND	2.0	0.1	205101	11/15/13
1,2,3-Trichlorobenzene	ND	0.5	0.1	205101	11/15/13

Surrogate	%REC	Limits	Batch#	Analyzed
Dibromofluoromethane	115	80-123	205101	11/15/13
1,2-Dichloroethane-d4	104	76-138	205101	11/15/13
Toluene-d8	98	80-120	205101	11/15/13
Bromofluorobenzene	97	80-125	205101	11/15/13

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	250558	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	AST-EFF	Batch#:	205101
Lab ID:	250558-002	Sampled:	11/05/13
Matrix:	Water	Received:	11/06/13
Units:	ug/L	Analyzed:	11/15/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	0.6
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	10	0.1
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
Vinyl Acetate	ND	10	0.5
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.4
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.2
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	0.1 J	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	250558	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	AST-EFF	Batch#:	205101
Lab ID:	250558-002	Sampled:	11/05/13
Matrix:	Water	Received:	11/06/13
Units:	ug/L	Analyzed:	11/15/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.1
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.3
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.1
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	116	80-123
1,2-Dichloroethane-d4	103	76-138
Toluene-d8	98	80-120
Bromofluorobenzene	99	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	250558	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GAC-02 INF	Batch#:	205101
Lab ID:	250558-003	Sampled:	11/05/13
Matrix:	Water	Received:	11/06/13
Units:	ug/L	Analyzed:	11/15/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	0.3 J	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.2 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	0.1 J	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	2.7	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	103	76-138
Toluene-d8	98	80-120
Bromofluorobenzene	98	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	250558	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GAC-02 EFF	Batch#:	205101
Lab ID:	250558-004	Sampled:	11/05/13
Matrix:	Water	Received:	11/06/13
Units:	ug/L	Analyzed:	11/15/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	103	76-138
Toluene-d8	98	80-120
Bromofluorobenzene	99	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	250558	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	E-07R	Batch#:	205101
Lab ID:	250558-005	Sampled:	11/05/13
Matrix:	Water	Received:	11/06/13
Units:	ug/L	Analyzed:	11/15/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	12	2.0	0.2
1,1-Dichloroethene	2.7	0.5	0.2
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	0.2 J	0.5	0.1
cis-1,2-Dichloroethene	0.2 J	0.5	0.1
Chloroform	0.5 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	0.1 J	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	66	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	1.1	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	103	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	99	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	250558	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	COG-20	Batch#:	205101
Lab ID:	250558-006	Sampled:	11/05/13
Matrix:	Water	Received:	11/06/13
Units:	ug/L	Analyzed:	11/15/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.8 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	2.1	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	0.1 J	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	103	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	98	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	250558	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	COG-11	Batch#:	205101
Lab ID:	250558-007	Sampled:	11/05/13
Matrix:	Water	Received:	11/06/13
Units:	ug/L	Analyzed:	11/15/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	0.5 J	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	104	76-138
Toluene-d8	98	80-120
Bromofluorobenzene	96	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	250558	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	E-12	Units:	ug/L
Lab ID:	250558-008	Sampled:	11/05/13
Matrix:	Water	Received:	11/06/13

Analyte	Result	RL	MDL	Diln Fac	Batch#	Analyzed
Chloromethane	ND	1.0	0.1	1.000	205183	11/18/13
Vinyl Chloride	ND	0.5	0.1	1.000	205183	11/18/13
Bromomethane	ND	1.0	0.1	1.000	205183	11/18/13
Chloroethane	ND	1.0	0.1	1.000	205183	11/18/13
Trichlorofluoromethane	ND	1.0	0.2	1.000	205183	11/18/13
Freon 113	8.7	2.0	0.2	1.000	205183	11/18/13
1,1-Dichloroethene	0.7	0.5	0.2	1.000	205183	11/18/13
Methylene Chloride	ND	20	0.1	1.000	205183	11/18/13
trans-1,2-Dichloroethene	ND	0.5	0.2	1.000	205183	11/18/13
1,1-Dichloroethane	ND	0.5	0.1	1.000	205183	11/18/13
cis-1,2-Dichloroethene	0.9	0.5	0.1	1.000	205183	11/18/13
Chloroform	1.0	1.0	0.1	1.000	205183	11/18/13
1,1,1-Trichloroethane	ND	0.5	0.1	1.000	205183	11/18/13
Carbon Tetrachloride	0.2 J	0.5	0.1	1.000	205183	11/18/13
1,2-Dichloroethane	ND	0.5	0.1	1.000	205183	11/18/13
Trichloroethene	85	1.0	0.2	2.000	205101	11/15/13
1,2-Dichloropropane	ND	0.5	0.1	1.000	205183	11/18/13
Bromodichloromethane	ND	0.5	0.1	1.000	205183	11/18/13
cis-1,3-Dichloropropene	ND	0.5	0.1	1.000	205183	11/18/13
trans-1,3-Dichloropropene	ND	0.5	0.1	1.000	205183	11/18/13
1,1,2-Trichloroethane	ND	0.5	0.1	1.000	205183	11/18/13
Tetrachloroethene	1.8	0.5	0.1	1.000	205183	11/18/13
Dibromochloromethane	ND	0.5	0.1	1.000	205183	11/18/13
Chlorobenzene	ND	0.5	0.1	1.000	205183	11/18/13
Bromoform	ND	0.5	0.1	1.000	205183	11/18/13
1,1,2,2-Tetrachloroethane	ND	0.5	0.1	1.000	205183	11/18/13
1,3-Dichlorobenzene	ND	0.5	0.1	1.000	205183	11/18/13
1,4-Dichlorobenzene	ND	0.5	0.1	1.000	205183	11/18/13
1,2-Dichlorobenzene	ND	0.5	0.1	1.000	205183	11/18/13

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
1,2-Dichloroethane-d4	101	76-138	1.000	205183	11/18/13
Toluene-d8	97	80-120	1.000	205183	11/18/13
Bromofluorobenzene	97	80-125	1.000	205183	11/18/13

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	250558	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	E-17	Batch#:	205101
Lab ID:	250558-009	Sampled:	11/05/13
Matrix:	Water	Received:	11/06/13
Units:	ug/L	Analyzed:	11/15/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	7.5	2.0	0.2
1,1-Dichloroethene	1.2	0.5	0.2
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	1.0 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	0.5 J	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	29	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	2.9	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	103	76-138
Toluene-d8	98	80-120
Bromofluorobenzene	97	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	250558	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	E-117	Batch#:	205101
Lab ID:	250558-010	Sampled:	11/05/13
Matrix:	Water	Received:	11/06/13
Units:	ug/L	Analyzed:	11/15/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	7.3	2.0	0.2
1,1-Dichloroethene	1.1	0.5	0.2
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	1.0	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	0.5 J	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	29	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	2.8	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	103	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	98	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	250558	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	TRIP BLANK	Batch#:	205101
Lab ID:	250558-011	Sampled:	11/05/13
Matrix:	Water	Received:	11/06/13
Units:	ug/L	Analyzed:	11/15/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	0.6
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	10	0.1
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
Vinyl Acetate	ND	10	0.5
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.4
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.2
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1
2-Chlorotoluene	ND	0.5	0.1

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	250558	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	TRIP BLANK	Batch#:	205101
Lab ID:	250558-011	Sampled:	11/05/13
Matrix:	Water	Received:	11/06/13
Units:	ug/L	Analyzed:	11/15/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.3
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.1
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	112	80-123
1,2-Dichloroethane-d4	104	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	99	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	250558	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	205101
Units:	ug/L	Analyzed:	11/15/13
Diln Fac:	1.000		

Type: BS Lab ID: QC716309

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	10.72	86	77-132
Trichloroethene	12.50	12.30	98	80-120
Chlorobenzene	12.50	13.18	105	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	99	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	99	80-125

Type: BSD Lab ID: QC716310

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	10.50	84	77-132	2	20
Trichloroethene	12.50	12.00	96	80-120	2	20
Chlorobenzene	12.50	12.96	104	80-120	2	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	99	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	99	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	250558	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	205101
Units:	ug/L	Analyzed:	11/15/13
Diln Fac:	1.000		

Type: BS Lab ID: QC716309

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	10.72	86	77-132
Benzene	12.50	12.43	99	80-122
Trichloroethene	12.50	12.30	98	80-120
Toluene	12.50	12.65	101	80-121
Chlorobenzene	12.50	13.18	105	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-123
1,2-Dichloroethane-d4	99	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	99	80-125

Type: BSD Lab ID: QC716310

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	10.50	84	77-132	2	20
Benzene	12.50	12.43	99	80-122	0	20
Trichloroethene	12.50	12.00	96	80-120	2	20
Toluene	12.50	12.32	99	80-121	3	20
Chlorobenzene	12.50	12.96	104	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-123
1,2-Dichloroethane-d4	99	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	99	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	250558	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC716311	Batch#:	205101
Matrix:	Water	Analyzed:	11/15/13
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	10	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	103	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	99	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	250558	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC716311	Batch#:	205101
Matrix:	Water	Analyzed:	11/15/13
Units:	ug/L		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	0.6
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	10	0.1
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
Vinyl Acetate	ND	10	0.5
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.4
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.2
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1
2-Chlorotoluene	ND	0.5	0.1

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	250558	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC716311	Batch#:	205101
Matrix:	Water	Analyzed:	11/15/13
Units:	ug/L		

Analyte	Result	RL	MDL
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.3
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.1
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	109	80-123
1,2-Dichloroethane-d4	103	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	99	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	250558	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	205176
Units:	ug/L	Analyzed:	11/18/13
Diln Fac:	1.000		

Type: BS Lab ID: QC716593

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	14.15	113	77-132
Benzene	12.50	13.02	104	80-122
Trichloroethene	12.50	13.21	106	80-120
Toluene	12.50	13.11	105	80-121
Chlorobenzene	12.50	13.47	108	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-123
1,2-Dichloroethane-d4	101	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	97	80-125

Type: BSD Lab ID: QC716594

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	13.68	109	77-132	3	20
Benzene	12.50	12.58	101	80-122	3	20
Trichloroethene	12.50	12.78	102	80-120	3	20
Toluene	12.50	12.63	101	80-121	4	20
Chlorobenzene	12.50	13.18	105	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-123
1,2-Dichloroethane-d4	103	76-138
Toluene-d8	98	80-120
Bromofluorobenzene	98	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	250558	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC716595	Batch#:	205176
Matrix:	Water	Analyzed:	11/18/13
Units:	ug/L		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.1
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	0.5
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.4
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
Vinyl Acetate	ND	10	1.0
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.5
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.2
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.5
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.5
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	0.1 J	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	0.1 J	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	250558	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC716595	Batch#:	205176
Matrix:	Water	Analyzed:	11/18/13
Units:	ug/L		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.1
4-Chlorotoluene	0.1 J	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	0.1 J	0.5	0.1
1,4-Dichlorobenzene	0.1 J	0.5	0.1
n-Butylbenzene	0.2 J	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.5
1,2,4-Trichlorobenzene	0.2 J	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.4
Naphthalene	0.2 J	2.0	0.1
1,2,3-Trichlorobenzene	0.2 J	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-123
1,2-Dichloroethane-d4	100	76-138
Toluene-d8	98	80-120
Bromofluorobenzene	104	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	250558	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	205183
Units:	ug/L	Analyzed:	11/18/13
Diln Fac:	1.000		

Type: BS Lab ID: QC716622

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	9.957	80	77-132
Trichloroethene	12.50	11.89	95	80-120
Chlorobenzene	12.50	13.41	107	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	99	76-138
Toluene-d8	96	80-120
Bromofluorobenzene	97	80-125

Type: BSD Lab ID: QC716623

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	9.733	78	77-132	2	20
Trichloroethene	12.50	11.76	94	80-120	1	20
Chlorobenzene	12.50	12.91	103	80-120	4	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	99	76-138
Toluene-d8	96	80-120
Bromofluorobenzene	97	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	250558	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC716624	Batch#:	205183
Matrix:	Water	Analyzed:	11/18/13
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	10	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	100	76-138
Toluene-d8	96	80-120
Bromofluorobenzene	97	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Initial & Continuing Calibration Data

CURTIS & TOMPKINS BFB TUNE FOR 250558 MSVOA Water
EPA 8260B

Inst : MSVOA02 Run Name : BFB IDF : 1.0
Seqnum : 413458513001 File : bke01 Time : 14-NOV-2013 09:53

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	58285	18.04	
75	30% - 60% of mass 95	138090	42.73	
95		323136	100.00	
96	5% - 9% of mass 95	20970	6.49	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	249237	77.13	
175	5% - 9% of mass 174	18946	7.60	
176	> 95% and < 101% of mass 174	245034	98.31	
177	5% - 9% of mass 176	16480	6.73	

Analyst: BO Date: 11/15/13 Reviewer: LW Date: 11/15/13

CURTIS & TOMPKINS BFB TUNE FOR 250558 MSVOA Water
EPA 8260B

Inst : MSVOA02 Run Name : BFB IDF : 1.0
Seqnum : 413459992005 File : bkf05 Time : 15-NOV-2013 11:49

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	40736	16.18	
75	30% - 60% of mass 95	103544	41.14	
95		251712	100.00	
96	5% - 9% of mass 95	17056	6.78	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	221781	88.11	
175	5% - 9% of mass 174	17133	7.73	
176	> 95% and < 101% of mass 174	215765	97.29	
177	5% - 9% of mass 176	14756	6.84	

Analyst: BO Date: 11/15/13 Reviewer: LW Date: 11/18/13

CURTIS & TOMPKINS BFB TUNE FOR 250558 MSVOA Water
EPA 8260B

Inst : MSVOA02 Run Name : BFB IDF : 1.0
Seqnum : 413464100002 File : bki02 Time : 18-NOV-2013 08:06

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	25792	18.42	
75	30% - 60% of mass 95	60778	43.40	
95		140032	100.00	
96	5% - 9% of mass 95	9159	6.54	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	112101	80.05	
175	5% - 9% of mass 174	8522	7.60	
176	> 95% and < 101% of mass 174	107632	96.01	
177	5% - 9% of mass 176	7159	6.65	

Analyst: MCT Date: 11/19/13 * Reviewer: LW Date: 11/19/13

CURTIS & TOMPKINS BFB TUNE FOR 250558 MSVOA Water
EPA 8260B

Inst : MSVOA13 Run Name : BFB IDF : 1.0
Seqnum : 943418066005 File : mjh05 Time : 17-OCT-2013 20:02

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	27272	22.03	
75	30% - 60% of mass 95	65264	52.72	
95		123800	100.00	
96	5% - 9% of mass 95	8619	6.96	
173	< 2% of mass 174	340	0.45	
174	> 50% and < 100% of mass 95	76219	61.57	
175	5% - 9% of mass 174	5431	7.13	
176	> 95% and < 101% of mass 174	73229	96.08	
177	5% - 9% of mass 176	4878	6.66	

Analyst: MCT Date: 10/18/13 Reviewer: SJD Date: 10/18/13

CURTIS & TOMPKINS BFB TUNE FOR 250558 MSVOA Water
EPA 8260B

Inst : MSVOA13 Run Name : BFB IDF : 1.0
Seqnum : 943459724015 File : mkf15 Time : 15-NOV-2013 13:13

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	19365	22.33	
75	30% - 60% of mass 95	48437	55.84	
95		86739	100.00	
96	5% - 9% of mass 95	5759	6.64	
173	< 2% of mass 174	444	0.85	
174	> 50% and < 100% of mass 95	52285	60.28	
175	5% - 9% of mass 174	3778	7.23	
176	> 95% and < 101% of mass 174	49693	95.04	
177	5% - 9% of mass 176	3464	6.97	

Analyst: MCT Date: 11/18/13 Reviewer: LW Date: 11/18/13

CURTIS & TOMPKINS BFB TUNE FOR 250558 MSVOA Water
EPA 8260B

Inst : MSVOA13 Run Name : BFB IDF : 1.0
Seqnum : 943464144003 File : mki03 Time : 18-NOV-2013 08:45

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	20024	22.95	
75	30% - 60% of mass 95	48835	55.96	
95		87267	100.00	
96	5% - 9% of mass 95	6283	7.20	
173	< 2% of mass 174	519	0.95	
174	> 50% and < 100% of mass 95	54587	62.55	
175	5% - 9% of mass 174	4012	7.35	
176	> 95% and < 101% of mass 174	52392	95.98	
177	5% - 9% of mass 176	3549	6.77	

Analyst: MCT Date: 11/18/13 Reviewer: LW Date: 11/19/13

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 250558 MSVOA Water: EPA 8260B

Inst : MSVOA02 Name : 826GX02W
Calnum : 413458513001 Date : 14-NOV-2013 12:57 Type : WATER
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	bke05	413458513005	.25/.5PPB	14-NOV-2013 12:57	S22433 (2000000X), S23518 (2000000X), S23611 (2000000X), S21354 (1000000X), S23570 (1000X)
L2	bke06	413458513006	.5/1PPB	14-NOV-2013 13:32	S23570 (1000X), S22433 (1000000X), S23518 (1000000X), S23611 (1000000X), S21354 (500000X)
L3	bke07	413458513007	2PPB	14-NOV-2013 14:07	S22433 (500000X), S23518 (250000X), S23517 (250000X), S23472 (250000X), S23570 (1000X)
L4	bke08	413458513008	5PPB	14-NOV-2013 14:42	S23570 (1000X), S22433 (200000X), S23518 (100000X), S23517 (100000X), S23472 (100000X)
L5	bke09	413458513009	10PPB	14-NOV-2013 15:17	S23570 (1000X), S22433 (100000X), S23518 (50000X), S23517 (50000X), S23472 (50000X)
L6	bke10	413458513010	20PPB	14-NOV-2013 15:52	S23570 (1000X), S22433 (50000X), S23518 (25000X), S23517 (25000X), S23472 (25000X)
L7	bke11	413458513011	50PPB	14-NOV-2013 16:27	S23570 (1000X), S22433 (20000X), S23518 (10000X), S23517 (10000X), S23472 (10000X)
L8	bke12	413458513012	75PPB	14-NOV-2013 17:02	S23570 (1000X), S22433 (13330X), S23518 (6667X), S23517 (6667X), S23472 (6667X)
L9	bke13	413458513013	100PPB	14-NOV-2013 17:37	S23570 (1000X), S22433 (10000X), S23518 (5000X), S23517 (5000X), S23472 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.6022	0.8923	0.8829	0.8647	0.8596	0.8746	0.8480	0.8752	AVRG		1.19412		0.8374	11	15	0.05	0.99	
Chloromethane	1.3761	1.3327	1.4197	1.2611	1.2879	1.2514	1.1730	1.1446	1.1492	AVRG		0.78978		1.2662	8	15	0.10	0.99	
Vinyl Chloride	0.9529	0.9583m	1.0395	0.9506	0.9820	1.0034	0.9573	0.9371	0.9872	AVRG		1.02641		0.9743	3	15	0.05	0.99	
Bromomethane		0.6110	0.7413	0.6857	0.6728	0.6652	0.6317	0.6057	0.6775	AVRG		1.51203		0.6614	7	15	0.05	0.99	
Chloroethane		0.5774	0.7013	0.5995	0.6055	0.5927	0.5623	0.5403	0.5699	AVRG		1.68465		0.5936	8	15	0.05	0.99	
Trichlorofluoromethane		0.8900	1.0495	1.0585	1.0275	1.0414	1.0198	0.9614	1.0219	AVRG		0.99131		1.0088	6	15	0.05	0.99	
Acetone				0.3386	0.3198	0.3081	0.2841	0.3015	0.2799	AVRG		3.27529		0.3053	7	15	0.05	0.99	
Freon 113			0.5601	0.5587	0.4795	0.4211	0.5160	0.5696	0.4820	AVRG		1.95148		0.5124	11	15	0.05	0.99	
1,1-Dichloroethene		0.5737	0.6734	0.6495	0.6177	0.5547	0.5770	0.6012	0.5695	AVRG		1.66085		0.6021	7	15	0.05	0.99	
Methylene Chloride		0.7715	0.8836	0.8708	0.8975	0.8802	0.8049	0.8118	0.8271	AVRG		1.18560		0.8435	5	15	0.05	0.99	
Carbon Disulfide		1.8807	2.0521	2.0080	1.9865	1.8240	1.8139	1.8653	1.8080	AVRG		0.52498		1.9048	5	15	0.05	0.99	
MTBE		1.7276	1.8255	1.9160	2.0369	1.9496	1.8072	1.8818	1.8646	AVRG		0.53301		1.8761	5	15	0.05	0.99	
trans-1,2-Dichloroethene		0.8354	0.7795	0.7839	0.7746	0.7381	0.7065	0.7091	0.7134	AVRG		1.32438		0.7551	6	15	0.05	0.99	
Vinyl Acetate			0.9722	0.9755	1.2121	1.0081	0.8811	0.8418	0.8641	AVRG		1.03628		0.9650	13	15	0.05	0.99	
1,1-Dichloroethane		1.4433	1.4226	1.4640	1.4607	1.3945	1.3153	1.3366	1.3505	AVRG		0.71508		1.3984	4	15	0.10	0.99	
2-Butanone			0.4186	0.4108	0.4036	0.3820	0.3593	0.3981	0.3694	AVRG		2.55301		0.3917	6	15	0.05	0.99	
2,2-Dichloropropane		0.9560	0.9834	0.9511	0.9329	0.8312	0.8024	0.8168	0.7950	AVRG		1.13171		0.8836	9	15	0.05	0.99	
cis-1,2-Dichloroethene		0.8876	0.9324	0.8888	0.9452	0.8969	0.8418	0.8484	0.8684	AVRG		1.12526		0.8887	4	15	0.05	0.99	
Chloroform		1.2858	1.3812	1.3715	1.4539	1.3806	1.2919	1.2994	1.3208	AVRG		0.74177		1.3481	4	15	0.05	0.99	
Bromochloromethane		0.3617	0.4804	0.4554	0.4904	0.4765	0.4499	0.4552	0.4582	AVRG		2.20522		0.4535	9	15	0.05	0.99	
1,1,1-Trichloroethane		0.8771	1.0128	1.0173	0.9974	0.9069	0.9206	0.9711	0.9270	AVRG		1.04847		0.9538	6	15	0.05	0.99	
1,1-Dichloropropene		0.4124	0.4574	0.4371	0.4275	0.3863	0.3996	0.4274	0.3934	AVRG		2.39438		0.4176	6	15	0.05	0.99	
Carbon Tetrachloride		0.2726	0.4167	0.3946	0.3841	0.3414	0.3659	0.3979	0.3591	AVRG		2.72826		0.3665	12	15	0.05	0.99	
1,2-Dichloroethane		0.4745	0.4711	0.4790	0.4914	0.4757	0.4481	0.4586	0.4502	AVRG		2.13414		0.4686	3	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		1.4687	1.5170	1.4677	1.5214	1.4318	1.3476	1.3994	1.3609	AVRG		0.69477		1.4393	5	15	0.05	0.99	
Trichloroethene		0.3737	0.4030	0.3946	0.4049	0.3679	0.3636	0.3507	0.3722	AVRG		2.63985		0.3788	5	15	0.05	0.99	
1,2-Dichloropropane		0.4607	0.4483	0.4328m	0.4531	0.4396m	0.4076m	0.4251	0.4164	AVRG		2.29641		0.4355	4	15	0.05	0.99	
Bromodichloromethane		0.4497	0.5118	0.5064	0.5498	0.5290	0.4987	0.5098	0.5175	AVRG		1.96424		0.5091	6	15	0.05	0.99	
Dibromomethane		0.2933	0.3065	0.2998	0.3154	0.3026	0.2835	0.2948	0.2978	AVRG		3.34203		0.2992	3	15	0.05	0.99	
4-Methyl-2-Pentanone			0.3782	0.3567	0.3671	0.3751	0.3491	0.4123	0.3647	AVRG		2.68908		0.3719	5	15	0.05	0.99	
cis-1,3-Dichloropropene		0.6222	0.5729	0.6093	0.6550	0.6208	0.5748	0.6048	0.6031	AVRG		1.64506		0.6079	4	15	0.05	0.99	
Toluene		0.9102	1.0236	1.0034	1.0211	0.9584	0.9036	0.9401	0.9311	AVRG		1.04011		0.9614	5	15	0.05	0.99	
trans-1,3-Dichloropropene		0.5273	0.5491	0.6007	0.6392	0.6017	0.5740	0.5858	0.5976	AVRG		1.71111		0.5844	6	15	0.05	0.99	
1,1,2-Trichloroethane		0.2169	0.2236	0.2355	0.2499	0.2359	0.2209	0.2275	0.2306	AVRG		4.34593		0.2301	5	15	0.05	0.99	
2-Hexanone			0.3233	0.3046	0.3114	0.3074	0.2800	0.3368	0.3001	AVRG		3.23547		0.3091	6	15	0.05	0.99	
1,3-Dichloropropane		0.5712	0.6402	0.6823	0.6976	0.6787	0.6245	0.6423	0.6519	AVRG		1.54183		0.6486	6	15	0.05	0.99	
Tetrachloroethene		0.3306	0.3907	0.3730	0.3635	0.3248	0.3312	0.3567	0.3327	AVRG		2.85404		0.3504	7	15	0.05	0.99	
Dibromochloromethane		0.4217	0.4290	0.4504	0.4850	0.4693	0.4557	0.4765	0.4878	AVRG		2.17667		0.4594	5	15	0.05	0.99	
1,2-Dibromoethane		0.4190	0.4510	0.4415	0.4787	0.4613	0.4289	0.4568	0.4562	AVRG		2.22637		0.4492	4	15	0.05	0.99	
Chlorobenzene		1.0829	1.1585	1.1411	1.1893	1.1123	1.0547	1.0807	1.0876	AVRG		0.89816		1.1134	4	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.4779	0.4235	0.4107	0.4196	0.3967	0.3715	0.3772	0.3861	AVRG		2.45165		0.4079	8	15	0.05	0.99	
Ethylbenzene		1.5628	1.8422	1.7361	1.8424	1.7268	1.6441	1.7260	1.6722	AVRG		0.58171		1.7191	6	15	0.05	0.99	
m,p-Xylenes	0.6337	0.6076	0.6531	0.6348	0.6721	0.6324	0.6111	0.6327	0.6132	AVRG		1.58156		0.6323	3	15	0.05	0.99	
o-Xylene		0.6225	0.6417	0.6447	0.6787	0.6579	0.6210	0.6448	0.6373	AVRG		1.55381		0.6436	3	15	0.05	0.99	
Styrene		0.9770	1.0709	1.1069	1.1811	1.1522	1.0900	1.1332	1.1273	AVRG		0.90511		1.1048	6	15	0.05	0.99	
Bromoform		0.2459	0.2585	0.2883	0.3168	0.3111	0.3033	0.3240	0.3217	AVRG		3.37603		0.2962	10	15	0.10	0.99	
Isopropylbenzene		3.1495	3.6603	3.5497	3.5732	3.3672	3.2400	3.4407	3.2769	AVRG		0.29350		3.4072	5	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		1.2226	1.2523	1.2352	1.3282	1.2436	1.1104	1.2069	1.1574	AVRG		0.81996		1.2196	5	15	0.30	0.99	
1,2,3-Trichloropropane		1.0373	0.9269m	0.9649	1.0375m	0.9554m	0.8634m	0.9441m	0.8852m	AVRG		1.05057		0.9519	7	15	0.05	0.99	
Propylbenzene		3.6943	4.2309	4.0912	4.1629	3.8199	3.7149	3.9513	3.7273	AVRG		0.25484		3.9241	5	15	0.05	0.99	
Bromobenzene		1.0570	1.0070	1.0670	1.1192	1.0607	0.9748	1.0250	1.0188	AVRG		0.96044		1.0412	4	15	0.05	0.99	
1,3,5-Trimethylbenzene		2.3702	2.4710	2.5594	2.6451	2.5250	2.4313	2.5766	2.4730	AVRG		0.39897		2.5065	4	15	0.05	0.99	
2-Chlorotoluene		2.7976	2.9490	2.9381	3.0411	2.8248	2.6218	2.7242	2.6814	AVRG		0.35433		2.8222	5	15	0.05	0.99	
4-Chlorotoluene		2.5062	2.5351	2.5762	2.7475	2.5658	2.3955	2.5306	2.4932	AVRG		0.39312		2.5438	4	15	0.05	0.99	
tert-Butylbenzene		2.0023	2.3122	2.3027	2.2636	2.1261	2.0771	2.2326	2.0861	AVRG		0.45970		2.1753	5	15	0.05	0.99	
1,2,4-Trimethylbenzene		2.2111	2.2475	2.3531	2.4730	2.4229	2.3481	2.5114	2.4861	AVRG		0.41988		2.3817	5	15	0.05	0.99	
sec-Butylbenzene		2.8408	3.4210	3.3230	3.1808	2.9190	3.0122	3.3112	3.0224	AVRG		0.31961		3.1288	7	15	0.05	0.99	
para-Isopropyl Toluene		2.1425	2.1701	2.1795	2.2238	2.1196	2.1437	2.3611	2.2174	AVRG		0.45564		2.1947	3	15	0.05	0.99	
1,3-Dichlorobenzene		1.6674	1.6453	1.6511	1.6923	1.6110	1.4984	1.5766	1.5619	AVRG		0.61997		1.6130	4	15	0.05	0.99	
1,4-Dichlorobenzene		1.6610	1.6869	1.6848	1.7218	1.6213	1.5195	1.5922	1.5774	AVRG		0.61233		1.6331	4	15	0.05	0.99	
n-Butylbenzene		1.6500	1.6299	1.6665	1.6752	1.6183	1.7368	1.9103	1.8058	AVRG		0.58425		1.7116	6	15	0.05	0.99	
1,2-Dichlorobenzene		1.5537	1.7010	1.6905	1.7476	1.6968	1.5500	1.6383	1.6264	AVRG		0.60586		1.6505	4	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.1470	0.1835	0.1839	0.1903	0.1792	0.1675	0.1891	0.1772	AVRG		5.64275		0.1772	8	15	0.05	0.99	
1,2,4-Trichlorobenzene		0.5986	0.5152	0.5344	0.6044	0.5918	0.5942	0.6568	0.6622	AVRG		1.68155		0.5947	9	15	0.05	0.99	
Hexachlorobutadiene		0.3334	0.3588	0.3544	0.3332	0.2815	0.3150	0.3429	0.3082	AVRG		3.04464		0.3284	8	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene		1.3563	1.2709	1.4086	1.5163	1.5576	1.5526	1.7505	1.7488	AVRG		0.65781		1.5202	11	15	0.05	0.99	
1,2,3-Trichlorobenzene		0.5907	0.5337	0.5643	0.6250	0.6187	0.6251	0.6859	0.6900	AVRG		1.62160		0.6167	9	15	0.05	0.99	
Dibromofluoromethane	0.7823	0.7631	0.7880	0.7916	0.7963	0.8016	0.7973	0.7695	0.7894	AVRG		1.27132		0.7866	2	15	0.05	0.99	
1,2-Dichloroethane-d4	0.3376	0.3391	0.3367	0.3415	0.3453	0.3397	0.3388	0.3310	0.3245	AVRG		2.96616		0.3371	2	15	0.05	0.99	
Toluene-d8	1.3036	1.3039	1.3169	1.3302	1.3193	1.3253	1.2960	1.2865	1.3259	AVRG		0.76223		1.3119	1	15	0.05	0.99	
Bromofluorobenzene	1.0901	1.0990	1.0938	1.0969	1.0761	1.0791	1.0541	1.0577	1.0632	AVRG		0.92689		1.0789	2	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Freon 12			1.0000	**-28**	2.0000	7	5.0000	5	10.000	3	20.000	3	50.000	4	75.000	1	100.00	5
Chloromethane	0.5000	9	1.0000	5	2.0000	12	5.0000	0	10.000	2	20.000	-1	50.000	-7	75.000	-10	100.00	-9
Vinyl Chloride	0.5000	-2	1.0000	-2	2.0000	7	5.0000	-2	10.000	1	20.000	3	50.000	-2	75.000	-4	100.00	1
Bromomethane			1.0000	-8	2.0000	12	5.0000	4	10.000	2	20.000	1	50.000	-4	75.000	-8	100.00	2
Chloroethane			1.0000	-3	2.0000	18	5.0000	1	10.000	2	20.000	0	50.000	-5	75.000	-9	100.00	-4
Trichlorofluoromethane			1.0000	-12	2.0000	4	5.0000	5	10.000	2	20.000	3	50.000	1	75.000	-5	100.00	1
Acetone							5.0000	11	10.000	5	20.000	1	50.000	-7	75.000	-1	100.00	-8
Freon 113					2.0000	9	5.0000	9	10.000	-6	20.000	-18	50.000	1	75.000	11	100.00	-6
1,1-Dichloroethene			0.5000	-5	2.0000	12	5.0000	8	10.000	3	20.000	-8	50.000	-4	75.000	0	100.00	-5
Methylene Chloride			0.5000	-9	2.0000	5	5.0000	3	10.000	6	20.000	4	50.000	-5	75.000	-4	100.00	-2
Carbon Disulfide			0.5000	-1	2.0000	8	5.0000	5	10.000	4	20.000	-4	50.000	-5	75.000	-2	100.00	-5
MTBE			0.5000	-8	2.0000	-3	5.0000	2	10.000	9	20.000	4	50.000	-4	75.000	0	100.00	-1
trans-1,2-Dichloroethene			0.5000	11	2.0000	3	5.0000	4	10.000	3	20.000	-2	50.000	-6	75.000	-6	100.00	-6
Vinyl Acetate					2.0000	1	5.0000	1	10.000	**26**	20.000	4	50.000	-9	75.000	-13	100.00	-10
1,1-Dichloroethane			0.5000	3	2.0000	2	5.0000	5	10.000	4	20.000	0	50.000	-6	75.000	-4	100.00	-3
2-Butanone					2.0000	7	5.0000	5	10.000	3	20.000	-2	50.000	-8	75.000	2	100.00	-6
2,2-Dichloropropane			0.5000	8	2.0000	11	5.0000	8	10.000	6	20.000	-6	50.000	-9	75.000	-8	100.00	-10
cis-1,2-Dichloroethene			0.5000	0	2.0000	5	5.0000	0	10.000	6	20.000	1	50.000	-5	75.000	-5	100.00	-2
Chloroform			0.5000	-5	2.0000	2	5.0000	2	10.000	8	20.000	2	50.000	-4	75.000	-4	100.00	-2
Bromochloromethane			0.5000	-20	2.0000	6	5.0000	0	10.000	8	20.000	5	50.000	-1	75.000	0	100.00	1
1,1,1-Trichloroethane			0.5000	-8	2.0000	6	5.0000	7	10.000	5	20.000	-5	50.000	-3	75.000	2	100.00	-3
1,1-Dichloropropene			0.5000	-1	2.0000	10	5.0000	5	10.000	2	20.000	-8	50.000	-4	75.000	2	100.00	-6
Carbon Tetrachloride			0.5000	**-26**	2.0000	14	5.0000	8	10.000	5	20.000	-7	50.000	0	75.000	9	100.00	-2
1,2-Dichloroethane			0.5000	1	2.0000	1	5.0000	2	10.000	5	20.000	2	50.000	-4	75.000	-2	100.00	-4
Benzene			0.5000	2	2.0000	5	5.0000	2	10.000	6	20.000	-1	50.000	-6	75.000	-3	100.00	-5
Trichloroethene			0.5000	-1	2.0000	6	5.0000	4	10.000	7	20.000	-3	50.000	-4	75.000	-7	100.00	-2
1,2-Dichloropropane			0.5000	6	2.0000	3	5.0000	-1	10.000	4	20.000	1	50.000	-6	75.000	-2	100.00	-4
Bromodichloromethane			0.5000	-12	2.0000	1	5.0000	-1	10.000	8	20.000	4	50.000	-2	75.000	0	100.00	2
Dibromomethane			0.5000	-2	2.0000	2	5.0000	0	10.000	5	20.000	1	50.000	-5	75.000	-1	100.00	0
4-Methyl-2-Pentanone					2.0000	2	5.0000	-4	10.000	-1	20.000	1	50.000	-6	75.000	11	100.00	-2
cis-1,3-Dichloropropene			0.5000	2	2.0000	-6	5.0000	0	10.000	8	20.000	2	50.000	-5	75.000	-1	100.00	-1
Toluene			0.5000	-5	2.0000	6	5.0000	4	10.000	6	20.000	0	50.000	-6	75.000	-2	100.00	-3
trans-1,3-Dichloropropene			0.5000	-10	2.0000	-6	5.0000	3	10.000	9	20.000	3	50.000	-2	75.000	0	100.00	2
1,1,2-Trichloroethane			0.5000	-6	2.0000	-3	5.0000	2	10.000	9	20.000	3	50.000	-4	75.000	-1	100.00	0
2-Hexanone					2.0000	5	5.0000	-1	10.000	1	20.000	-1	50.000	-9	75.000	9	100.00	-3
1,3-Dichloropropane			0.5000	-12	2.0000	-1	5.0000	5	10.000	8	20.000	5	50.000	-4	75.000	-1	100.00	1
Tetrachloroethene			0.5000	-6	2.0000	12	5.0000	6	10.000	4	20.000	-7	50.000	-5	75.000	2	100.00	-5
Dibromochloromethane			0.5000	-8	2.0000	-7	5.0000	-2	10.000	6	20.000	2	50.000	-1	75.000	4	100.00	6
1,2-Dibromoethane			0.5000	-7	2.0000	0	5.0000	-2	10.000	7	20.000	3	50.000	-5	75.000	2	100.00	2
Chlorobenzene			0.5000	-3	2.0000	4	5.0000	2	10.000	7	20.000	0	50.000	-5	75.000	-3	100.00	-2
1,1,1,2-Tetrachloroethane			0.5000	17	2.0000	4	5.0000	1	10.000	3	20.000	-3	50.000	-9	75.000	-8	100.00	-5
Ethylbenzene			0.5000	-9	2.0000	7	5.0000	1	10.000	7	20.000	0	50.000	-4	75.000	0	100.00	-3

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
m,p-Xylenes	0.5000	0	1.0000	-4	4.0000	3	10.000	0	20.000	6	40.000	0	100.00	-3	150.00	0	200.00	-3
o-Xylene			0.5000	-3	2.0000	0	5.0000	0	10.000	5	20.000	2	50.000	-4	75.000	0	100.00	-1
Styrene			0.5000	-12	2.0000	-3	5.0000	0	10.000	7	20.000	4	50.000	-1	75.000	3	100.00	2
Bromoform			0.5000	-17	2.0000	-13	5.0000	-3	10.000	7	20.000	5	50.000	2	75.000	9	100.00	9
Isopropylbenzene			0.5000	-8	2.0000	7	5.0000	4	10.000	5	20.000	-1	50.000	-5	75.000	1	100.00	-4
1,1,2,2-Tetrachloroethane			0.5000	0	2.0000	3	5.0000	1	10.000	9	20.000	2	50.000	-9	75.000	-1	100.00	-5
1,2,3-Trichloropropane			0.5000	9	2.0000	-3	5.0000	1	10.000	9	20.000	0	50.000	-9	75.000	-1	100.00	-7
Propylbenzene			0.5000	-6	2.0000	8	5.0000	4	10.000	6	20.000	-3	50.000	-5	75.000	1	100.00	-5
Bromobenzene			0.5000	2	2.0000	-3	5.0000	2	10.000	7	20.000	2	50.000	-6	75.000	-2	100.00	-2
1,3,5-Trimethylbenzene			0.5000	-5	2.0000	-1	5.0000	2	10.000	6	20.000	1	50.000	-3	75.000	3	100.00	-1
2-Chlorotoluene			0.5000	-1	2.0000	4	5.0000	4	10.000	8	20.000	0	50.000	-7	75.000	-3	100.00	-5
4-Chlorotoluene			0.5000	-1	2.0000	0	5.0000	1	10.000	8	20.000	1	50.000	-6	75.000	-1	100.00	-2
tert-Butylbenzene			0.5000	-8	2.0000	6	5.0000	6	10.000	4	20.000	-2	50.000	-5	75.000	3	100.00	-4
1,2,4-Trimethylbenzene			0.5000	-7	2.0000	-6	5.0000	-1	10.000	4	20.000	2	50.000	-1	75.000	5	100.00	4
sec-Butylbenzene			0.5000	-9	2.0000	9	5.0000	6	10.000	2	20.000	-7	50.000	-4	75.000	6	100.00	-3
para-Isopropyl Toluene			0.5000	-2	2.0000	-1	5.0000	-1	10.000	1	20.000	-3	50.000	-2	75.000	8	100.00	1
1,3-Dichlorobenzene			0.5000	3	2.0000	2	5.0000	2	10.000	5	20.000	0	50.000	-7	75.000	-2	100.00	-3
1,4-Dichlorobenzene			0.5000	2	2.0000	3	5.0000	3	10.000	5	20.000	-1	50.000	-7	75.000	-3	100.00	-3
n-Butylbenzene			0.5000	-4	2.0000	-5	5.0000	-3	10.000	-2	20.000	-5	50.000	1	75.000	12	100.00	6
1,2-Dichlorobenzene			0.5000	-6	2.0000	3	5.0000	2	10.000	6	20.000	3	50.000	-6	75.000	-1	100.00	-1
1,2-Dibromo-3-Chloropropane			0.5000	-17	2.0000	4	5.0000	4	10.000	7	20.000	1	50.000	-5	75.000	7	100.00	0
1,2,4-Trichlorobenzene			0.5000	1	2.0000	-13	5.0000	-10	10.000	2	20.000	0	50.000	0	75.000	10	100.00	11
Hexachlorobutadiene			0.5000	2	2.0000	9	5.0000	8	10.000	1	20.000	-14	50.000	-4	75.000	4	100.00	-6
Naphthalene			0.5000	-11	2.0000	-16	5.0000	-7	10.000	0	20.000	2	50.000	2	75.000	15	100.00	15
1,2,3-Trichlorobenzene			0.5000	-4	2.0000	-13	5.0000	-8	10.000	1	20.000	0	50.000	1	75.000	11	100.00	12
Dibromofluoromethane	50.000	-1	50.000	-3	50.000	0	50.000	1	50.000	1	50.000	2	50.000	1	50.000	-2	50.000	0
1,2-Dichloroethane-d4	50.000	0	50.000	1	50.000	0	50.000	1	50.000	2	50.000	1	50.000	0	50.000	-2	50.000	-4
Toluene-d8	50.000	-1	50.000	-1	50.000	0	50.000	1	50.000	1	50.000	1	50.000	-1	50.000	-2	50.000	1
Bromofluorobenzene	50.000	1	50.000	2	50.000	1	50.000	2	50.000	0	50.000	0	50.000	-2	50.000	-2	50.000	-1

BO 11/18/13 [Vinyl Chloride]: Corrected fronting or tailing peak integration1PPB (bke06).

BO 11/18/13 [Tetramethyl THF]: Corrected automatically drawn baseline1PPB (bke06).

BO 11/18/13 [1,2-Dichloropropane]: Separated from coeluting peak in multiple levels.

BO 11/18/13 [1,2,3-Trichloropropane]: Separated from coeluting peak in multiple levels.

Analyst: BO Date: 11/18/13 Reviewer: LW Date: 11/18/13

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 250558 MSVOA Water
EPA 8260B

Inst : MSVOA02 Name : 826GX02W
Calnum : 413458513001 Cal Date : 14-NOV-2013 Type : WATER

ICV 413458513014 (bke14 14-NOV-2013) stds: S23276 (10000X), S23570 (1000X)
ICV 413459992008 (bkf08 15-NOV-2013) stds: S23599 (20000X), S23592 (20000X), S23417 (20000X), S23570 (1000X)

Analyte	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max	Flags
Freon 12	413458513014	14-NOV-2013	20.00	24.98	ug/L	**25**	30	!v+
Chloromethane	413458513014	14-NOV-2013	20.00	20.02	ug/L	0	30	
Vinyl Chloride	413458513014	14-NOV-2013	20.00	20.47	ug/L	2	20	
Bromomethane	413458513014	14-NOV-2013	20.00	16.57	ug/L	-17	30	
Chloroethane	413458513014	14-NOV-2013	20.00	19.98	ug/L	0	30	
Trichlorofluoromethane	413458513014	14-NOV-2013	20.00	18.42	ug/L	-8	30	
Acetone	413459992008	15-NOV-2013	12.50	11.69	ug/L	-6	40	
Freon 113	413459992008	15-NOV-2013	12.50	13.89	ug/L	11	30	
1,1-Dichloroethene	413459992008	15-NOV-2013	12.50	13.96	ug/L	12	20	
Methylene Chloride	413459992008	15-NOV-2013	12.50	12.89	ug/L	3	30	
Carbon Disulfide	413459992008	15-NOV-2013	12.50	15.43	ug/L	**23**	30	!v+
MTBE	413459992008	15-NOV-2013	12.50	11.96	ug/L	-4	30	
trans-1,2-Dichloroethene	413459992008	15-NOV-2013	12.50	13.18	ug/L	5	30	
Vinyl Acetate	413459992008	15-NOV-2013	12.50	20.88	ug/L	**67**	40	v+
1,1-Dichloroethane	413459992008	15-NOV-2013	12.50	10.89	ug/L	-13	30	
2-Butanone	413459992008	15-NOV-2013	12.50	11.66	ug/L	-7	40	
2,2-Dichloropropane	413459992008	15-NOV-2013	12.50	12.11	ug/L	-3	30	
cis-1,2-Dichloroethene	413459992008	15-NOV-2013	12.50	12.85	ug/L	3	30	
Chloroform	413459992008	15-NOV-2013	12.50	11.14	ug/L	-11	20	
Bromochloromethane	413459992008	15-NOV-2013	12.50	12.25	ug/L	-2	30	
1,1,1-Trichloroethane	413459992008	15-NOV-2013	12.50	11.71	ug/L	-6	30	
1,1-Dichloropropene	413459992008	15-NOV-2013	12.50	13.92	ug/L	11	30	
Carbon Tetrachloride	413459992008	15-NOV-2013	12.50	12.53	ug/L	0	30	
1,2-Dichloroethane	413459992008	15-NOV-2013	12.50	11.89	ug/L	-5	30	
Benzene	413459992008	15-NOV-2013	12.50	12.51	ug/L	0	30	
Trichloroethene	413459992008	15-NOV-2013	12.50	12.74	ug/L	2	30	
1,2-Dichloropropane	413459992008	15-NOV-2013	12.50	11.87	ug/L	-5	20	
Bromodichloromethane	413459992008	15-NOV-2013	12.50	12.09	ug/L	-3	30	
Dibromomethane	413459992008	15-NOV-2013	12.50	11.39	ug/L	-9	30	
4-Methyl-2-Pentanone	413459992008	15-NOV-2013	12.50	12.15	ug/L	-3	40	
cis-1,3-Dichloropropene	413459992008	15-NOV-2013	12.50	13.46	ug/L	8	30	
Toluene	413459992008	15-NOV-2013	12.50	12.80	ug/L	2	20	
trans-1,3-Dichloropropene	413459992008	15-NOV-2013	12.50	13.08	ug/L	5	30	
1,1,2-Trichloroethane	413459992008	15-NOV-2013	12.50	12.72	ug/L	2	30	
2-Hexanone	413459992008	15-NOV-2013	12.50	11.89	ug/L	-5	40	
1,3-Dichloropropane	413459992008	15-NOV-2013	12.50	13.01	ug/L	4	30	
Tetrachloroethene	413459992008	15-NOV-2013	12.50	12.72	ug/L	2	30	
Dibromochloromethane	413459992008	15-NOV-2013	12.50	13.29	ug/L	6	30	
1,2-Dibromoethane	413459992008	15-NOV-2013	12.50	13.26	ug/L	6	30	
Chlorobenzene	413459992008	15-NOV-2013	12.50	13.40	ug/L	7	30	
1,1,1,2-Tetrachloroethane	413459992008	15-NOV-2013	12.50	12.68	ug/L	1	30	
Ethylbenzene	413459992008	15-NOV-2013	12.50	12.80	ug/L	2	20	
m,p-Xylenes	413459992008	15-NOV-2013	25.00	27.01	ug/L	8	30	
o-Xylene	413459992008	15-NOV-2013	12.50	13.86	ug/L	11	30	
Styrene	413459992008	15-NOV-2013	12.50	13.26	ug/L	6	30	
Bromoform	413459992008	15-NOV-2013	12.50	12.71	ug/L	2	30	
Isopropylbenzene	413459992008	15-NOV-2013	12.50	13.61	ug/L	9	30	

Analyte	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	413459992008	15-NOV-2013	12.50	13.16	ug/L	5	30	
1,2,3-Trichloropropane	413459992008	15-NOV-2013	12.50	12.57	ug/L	1	30	m
Propylbenzene	413459992008	15-NOV-2013	12.50	13.17	ug/L	5	30	
Bromobenzene	413459992008	15-NOV-2013	12.50	13.16	ug/L	5	30	
1,3,5-Trimethylbenzene	413459992008	15-NOV-2013	12.50	13.56	ug/L	8	30	
2-Chlorotoluene	413459992008	15-NOV-2013	12.50	13.23	ug/L	6	30	
4-Chlorotoluene	413459992008	15-NOV-2013	12.50	13.01	ug/L	4	30	
tert-Butylbenzene	413459992008	15-NOV-2013	12.50	13.38	ug/L	7	30	
1,2,4-Trimethylbenzene	413459992008	15-NOV-2013	12.50	12.71	ug/L	2	30	
sec-Butylbenzene	413459992008	15-NOV-2013	12.50	13.97	ug/L	12	30	
para-Isopropyl Toluene	413459992008	15-NOV-2013	12.50	12.44	ug/L	0	30	
1,3-Dichlorobenzene	413459992008	15-NOV-2013	12.50	13.55	ug/L	8	30	
1,4-Dichlorobenzene	413459992008	15-NOV-2013	12.50	13.04	ug/L	4	30	
n-Butylbenzene	413459992008	15-NOV-2013	12.50	13.36	ug/L	7	30	
1,2-Dichlorobenzene	413459992008	15-NOV-2013	12.50	13.48	ug/L	8	30	
1,2-Dibromo-3-Chloropropane	413459992008	15-NOV-2013	12.50	13.10	ug/L	5	30	
1,2,4-Trichlorobenzene	413459992008	15-NOV-2013	12.50	13.52	ug/L	8	30	
Hexachlorobutadiene	413459992008	15-NOV-2013	12.50	14.77	ug/L	18	30	
Naphthalene	413459992008	15-NOV-2013	12.50	13.51	ug/L	8	30	
1,2,3-Trichlorobenzene	413459992008	15-NOV-2013	12.50	13.40	ug/L	7	30	

413458513014: Analyst: BO Date: 11/18/13 Reviewer: LW Date: 11/18/13
413459992008: Analyst: BO Date: 11/18/13 Reviewer: LW Date: 11/18/13

!=warning +=high bias m=manual integration v=ICV

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 250558 MSVOA Water: EPA 8260B

Inst : MSVOA13
Calnum : 943418066001 Date : 17-OCT-2013 22:24
Units : ug/L

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	mjh10	943418066010	.25/.5PPB	17-OCT-2013 22:24	S22433 (2000000X), S23293 (2000000X), S23280 (2000000X), S22004 (1000000X), S23261 (2500X)
L2	mjh11	943418066011	0.5/1PPB	17-OCT-2013 22:53	S22433 (1000000X), S23293 (1000000X), S23280 (1000000X), S22004 (500000X), S23261 (2500X)
L3	mjh12	943418066012	2PPB	17-OCT-2013 23:21	S22433 (500000X), S23293 (250000X), S23280 (250000X), S22004 (250000X), S23261 (2500X)
L4	mjh13	943418066013	5PPB	17-OCT-2013 23:50	S22433 (200000X), S23293 (100000X), S23280 (100000X), S22004 (100000X), S23261 (2500X)
L5	mjh14	943418066014	10PPB	18-OCT-2013 00:19	S22433 (100000X), S23293 (50000X), S23280 (50000X), S22004 (50000X), S23261 (2500X)
L6	mjh15	943418066015	20PPB	18-OCT-2013 00:48	S22433 (50000X), S23293 (25000X), S23280 (25000X), S22004 (25000X), S23261 (2500X)
L7	mjh16	943418066016	50PPB	18-OCT-2013 01:17	S22433 (20000X), S23293 (10000X), S23280 (10000X), S22004 (10000X), S23261 (2500X)
L8	mjh17	943418066017	75PPB	18-OCT-2013 01:46	S22433 (13330X), S23293 (6667X), S23280 (6667X), S22004 (6667X), S23261 (2500X)
L9	mjh18	943418066018	100PPB	18-OCT-2013 02:16	S22433 (10000X), S23293 (5000X), S23280 (5000X), S22004 (5000X), S23261 (2500X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	X	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.8079	0.7796	0.7720	0.5440	0.7078	0.7431	0.7602	0.7480	AVRG	R		1.36457		0.7328	11	15	0.05	0.99	
Chloromethane	1.1105	1.0868	1.0924	1.0411	1.0505	1.0652	1.1059	1.0379	1.0326	AVRG	R		0.93527		1.0692	3	15	0.10	0.99	
Vinyl Chloride	1.2507	1.2597	1.2782	1.2655	1.1471	1.2437	1.3157	1.2912	1.2842	AVRG	R		0.79392		1.2596	4	15	0.05	0.99	
Bromomethane		0.2909	0.3424	0.4271	0.4100	0.4065	0.4000	0.4333	0.4186	AVRG	R		2.55685		0.3911	13	15	0.05	0.99	
Chloroethane		0.8004	0.7806	0.7390	0.6846	0.7034	0.7277	0.6939	0.6892	AVRG	R		1.37488		0.7273	6	15	0.05	0.99	
Trichlorofluoromethane		1.2150	1.2178	1.1981	0.9250	1.1233	1.1825	1.1773	1.1708	AVRG	R		0.86863		1.1512	8	15	0.05	0.99	
Acetone			0.6855m	0.4956m	0.4808	0.5351	0.5686	0.5511	0.5590	AVRG	R		1.80614		0.5537	12	15	0.05	0.99	
Freon 113		0.6149	0.5030	0.5951	0.5302	0.5992	0.6135	0.5960	0.6013	AVRG	R		1.71925		0.5816	7	15	0.05	0.99	
1,1-Dichloroethene		0.6897	0.5691	0.6287	0.5849	0.5960	0.6270	0.6107	0.6126	AVRG	R		1.62647		0.6148	6	15	0.05	0.99	
Methylene Chloride		0.8333	0.7963	0.8198	0.8026	0.7997	0.8218	0.8112	0.8067	AVRG	R		1.23237		0.8114	2	15	0.05	0.99	
Carbon Disulfide		2.6639	2.3179	2.3827	2.2491	2.3731	2.4681	2.3902	2.3903	AVRG	R		0.41590		2.4044	5	15	0.05	0.99	
MTBE		2.9495	2.9536	3.0527	3.0015	3.0698	3.1644	3.1164	3.0864	AVRG	R		0.32794		3.0493	3	15	0.05	0.99	
trans-1,2-Dichloroethene		0.7939	0.6844	0.6919	0.6703	0.6999	0.7189	0.7039	0.7051	AVRG	R		1.41133		0.7085	5	15	0.05	0.99	
Vinyl Acetate					1.8702	1.8823	2.4154	2.2208	2.1899	AVRG	R		0.47266		2.1157	11	15	0.05	0.99	
1,1-Dichloroethane		1.9011	1.8089	1.8817	1.8289	1.8566	1.9239	1.8855	1.8716	AVRG	R		0.53483		1.8698	2	15	0.10	0.99	
2-Butanone			0.8240m	0.8205m	0.7442	0.8141	0.8482	0.8177	0.8131	AVRG	R		1.23201		0.8117	4	15	0.05	0.99	
2,2-Dichloropropane		1.1892	1.0971	1.1572	1.1105	1.1696	1.2288	1.1949	1.1850	AVRG	R		0.85724		1.1665	4	15	0.05	0.99	
cis-1,2-Dichloroethene		0.7991	0.7623	0.7928	0.7528	0.7706	0.8153	0.8093	0.8137	AVRG	R		1.26662		0.7895	3	15	0.05	0.99	
Chloroform		1.7051	1.4963	1.5030	1.4445	1.4675	1.5308	1.5073	1.4996	AVRG	R		0.65822		1.5193	5	15	0.05	0.99	
Bromochloromethane		0.2865	0.2705	0.2919	0.2857	0.2971	0.3131	0.3153	0.3180	AVRG	R		3.36401		0.2973	6	15	0.05	0.99	
1,1,1-Trichloroethane		1.2010	1.1597	1.2274	1.1599	1.2358	1.2962	1.2674	1.2737	AVRG	R		0.81457		1.2276	4	15	0.05	0.99	
1,1-Dichloropropene		0.6416	0.5735	0.6165	0.5762	0.6212	0.6473	0.6403	0.6513	AVRG	R		1.61030		0.6210	5	15	0.05	0.99	
Carbon Tetrachloride		0.4532	0.4160	0.4584	0.4307	0.4806	0.5218	0.5156	0.5287	AVRG	R		2.10253		0.4756	9	15	0.05	0.99	
1,2-Dichloroethane		0.7191	0.7340	0.7510	0.7314	0.7509	0.7745	0.7615	0.7584	AVRG	R		1.33762		0.7476	2	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	X	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		1.8621	1.8631	1.9283	1.8321	1.8904	2.0069	2.0026	2.0088	AVRG	R		0.51967		1.9243	4	15	0.05	0.99	
Trichloroethene		0.4297	0.4036	0.4291	0.3873	0.4100	0.4250	0.4262	0.4353	AVRG	R		2.39076		0.4183	4	15	0.05	0.99	
1,2-Dichloropropane		0.5927m	0.5539	0.6151	0.5956	0.6089	0.6068	0.6028	0.6009	AVRG	R		1.67477		0.5971	3	15	0.05	0.99	
Bromodichloromethane		0.4838	0.5097	0.5504	0.5495	0.5825	0.6192	0.6242	0.6259	AVRG	R		1.76008		0.5682	10	15	0.05	0.99	
Dibromomethane		0.2309	0.2365	0.2466	0.2429	0.2491	0.2616	0.2631	0.2659	AVRG	R		4.00694		0.2496	5	15	0.05	0.99	
4-Methyl-2-Pentanone		0.7299	0.7881	0.8356	0.8033	0.8581	0.8673	0.8371	0.8374	AVRG	R		1.22012		0.8196	5	15	0.05	0.99	
cis-1,3-Dichloropropene		0.6691	0.6672	0.7193	0.7135	0.7577	0.8074	0.8090	0.8045	AVRG	R		1.34508		0.7435	8	15	0.05	0.99	
Toluene		2.0088	1.9889	2.0649	1.8835	2.0035	2.0493	2.0312	1.9985	AVRG	R		0.49911		2.0036	3	15	0.05	0.99	
trans-1,3-Dichloropropene		0.6299	0.6630	0.7285	0.7333	0.7827	0.8300	0.8399	0.8266	AVRG	R		1.32581		0.7543	11	15	0.05	0.99	
1,1,2-Trichloroethane		0.2296	0.2318	0.2413	0.2424	0.2470	0.2531	0.2552	0.2539	AVRG	R		4.09354		0.2443	4	15	0.05	0.99	
2-Hexanone			0.5879	0.6683	0.6454	0.6948	0.7018	0.6813	0.6743	AVRG	R		1.50415		0.6648	6	15	0.05	0.99	
1,3-Dichloropropane		0.8204	0.8577	0.8929	0.8635	0.8818	0.8972	0.8919	0.8769	AVRG	R		1.14576		0.8728	3	15	0.05	0.99	
Tetrachloroethene		0.2979	0.2698	0.3079	0.2674	0.3028	0.3200	0.3214	0.3270	AVRG	R		3.31396		0.3018	8	15	0.05	0.99	
Dibromochloromethane		0.2867	0.3033	0.3206	0.3310	0.3548	0.3862	0.3969	0.3966	AVRG	R		2.88174		0.3470	12	15	0.05	0.99	
1,2-Dibromoethane		0.3434	0.3623	0.3832	0.3705	0.3879	0.4014	0.4015	0.3996	AVRG	R		2.62313		0.3812	6	15	0.05	0.99	
Chlorobenzene		1.1061	1.0791	1.1280	1.0364	1.1180	1.2006	1.2342	1.2607	AVRG	R		0.87308		1.1454	7	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.2871	0.3023	0.3269	0.3114	0.3349	0.3636	0.3689	0.3703	AVRG	R		3.00136		0.3332	10	15	0.05	0.99	
Ethylbenzene		2.1788	2.2422	2.2957	2.0180	2.2876	2.4323	2.4359	2.4240	AVRG	R		0.43681		2.2893	6	15	0.05	0.99	
m,p-Xylenes	0.7379	0.7632	0.7351	0.7695	0.6969	0.7924	0.8685	0.8977	0.9139	AVRG	R		1.25434		0.7972	10	15	0.05	0.99	
o-Xylene		0.7152	0.7181	0.7551	0.6855	0.7658	0.8262	0.8544	0.8706	AVRG	R		1.29225		0.7738	9	15	0.05	0.99	
Styrene		1.2110	1.2039	1.2991	1.1974	1.3388	1.4507	1.4922	1.5195	AVRG	R		0.74678		1.3391	10	15	0.05	0.99	
Bromoform		0.1350	0.1613	0.1732	0.1783	0.2066	0.2441			QUAD	A	-0.0571	0.18035	0.001300	0.1831	1.000	15	0.10	0.99	
Isopropylbenzene		4.3906	4.1514	4.6173	3.8778	4.5593	4.8152	4.9388	4.9128	AVRG	R		0.22061		4.5329	8	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		1.3881	1.3472	1.4146	1.3797	1.4033	1.4525	1.4671	1.4219	AVRG	R		0.70957		1.4093	3	15	0.30	0.99	
1,2,3-Trichloropropane		1.6607	1.6868	1.6674	1.5550	1.5855	1.6315	1.6720	1.6453	AVRG	R		0.61049		1.6380	3	15	0.05	0.99	
Propylbenzene		5.8049	5.4023	6.0079	5.0314	5.8774	6.0266	5.9683	5.7771	AVRG	R		0.17431		5.7370	6	15	0.05	0.99	
Bromobenzene		0.8214	0.7758	0.8353	0.7612	0.8121	0.8596	0.9049	0.9098	AVRG	R		1.19756		0.8350	7	15	0.05	0.99	
1,3,5-Trimethylbenzene		3.5345	3.5028	3.7961	3.2396	3.7520	3.9015	3.9377	3.9078	AVRG	R		0.27053		3.6965	7	15	0.05	0.99	
2-Chlorotoluene		3.6813	3.7416	3.9790	3.4608	3.8571	4.0103	4.0305	3.9608	AVRG	R		0.26040		3.8402	5	15	0.05	0.99	
4-Chlorotoluene		3.5994	3.5115	3.6999	3.2521	3.6102	3.7438	3.7355	3.6745	AVRG	R		0.27752		3.6034	4	15	0.05	0.99	
tert-Butylbenzene		2.9027	2.7374	3.0076	2.4981	3.0014	3.1101	3.1019	3.1321	AVRG	R		0.34055		2.9364	7	15	0.05	0.99	
1,2,4-Trimethylbenzene		3.8318	3.6625	3.9560	3.3693	3.9267	4.0968	4.1141	4.0591	AVRG	R		0.25793		3.8770	7	15	0.05	0.99	
sec-Butylbenzene		4.5307	4.2815	4.7397	3.9062	4.7566	4.8566	4.7691	4.7656	AVRG	R		0.21854		4.5757	7	15	0.05	0.99	
para-Isopropyl Toluene		3.4757	3.2930	3.6058	3.0227	3.6736	3.8060	3.7694	3.8013	AVRG	R		0.28122		3.5559	8	15	0.05	0.99	
1,3-Dichlorobenzene		1.5711	1.5640	1.6381	1.4017	1.5962	1.6643	1.6997	1.6931	AVRG	R		0.62363		1.6035	6	15	0.05	0.99	
1,4-Dichlorobenzene		1.6914	1.6596	1.7196	1.5019	1.6652	1.7331	1.7732	1.7684	AVRG	R		0.59204		1.6891	5	15	0.05	0.99	
n-Butylbenzene		3.8791	3.6566	4.0340	3.2924	4.0361	4.1461	4.0126	3.9921	AVRG	R		0.25766		3.8811	7	15	0.05	0.99	
1,2-Dichlorobenzene		1.5617	1.4927	1.5807	1.3913	1.5690	1.6230	1.6529	1.6463	AVRG	R		0.63910		1.5647	6	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.3431	0.2973	0.2978	0.2980	0.3224	0.3421	0.3405	0.3356	AVRG	R		3.10469		0.3221	7	15	0.05	0.99	
1,2,4-Trichlorobenzene		0.8780	0.8235	0.8469	0.7461	0.8727	0.9150	0.9046	0.9156	AVRG	R		1.15902		0.8628	7	15	0.05	0.99	
Hexachlorobutadiene		0.3811	0.3421	0.3915	0.3216	0.3862	0.4024	0.3952	0.3937	AVRG	R		2.65448		0.3767	8	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	X	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene		2.6370	2.8462	3.0732	2.8442	3.2517	3.4040	3.4360	3.4128	AVRG	R		0.32122		3.1131	10	15	0.05	0.99	
1,2,3-Trichlorobenzene		0.7316	0.7350	0.7978	0.6914	0.8103	0.8550	0.8443	0.8494	AVRG	R		1.26684		0.7894	8	15	0.05	0.99	
Dibromofluoromethane	0.5605	0.5603	0.5692	0.5773	0.5777	0.5906	0.6092	0.6074	0.6175	AVRG	R		1.70791		0.5855	4	15	0.05	0.99	
1,2-Dichloroethane-d4	0.5463	0.5571	0.5650	0.5646	0.5645	0.5785	0.5934	0.5975	0.6028	AVRG	R		1.74087		0.5744	3	15	0.05	0.99	
Toluene-d8	1.5778	1.5924	1.5957	1.5993	1.5808	1.5867	1.5580	1.5464	1.5280	AVRG	R		0.63536		1.5739	2	15	0.05	0.99	
Bromofluorobenzene	1.3568	1.3851	1.3587	1.3672	1.3562	1.3384	1.3052	1.3206	1.2773	AVRG	R		0.74593		1.3406	3	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Freon 12			1.0000	10	2.0000	6	5.0000	5	10.000	**-26**	20.000	-3	50.000	1	75.000	4	100.00	2
Chloromethane	0.5000	4	1.0000	2	2.0000	2	5.0000	-3	10.000	-2	20.000	0	50.000	3	75.000	-3	100.00	-3
Vinyl Chloride	0.5000	-1	1.0000	0	2.0000	1	5.0000	0	10.000	-9	20.000	-1	50.000	4	75.000	3	100.00	2
Bromomethane			1.0000	**-26**	2.0000	-12	5.0000	9	10.000	5	20.000	4	50.000	2	75.000	11	100.00	7
Chloroethane			1.0000	10	2.0000	7	5.0000	2	10.000	-6	20.000	-3	50.000	0	75.000	-5	100.00	-5
Trichlorofluoromethane			1.0000	6	2.0000	6	5.0000	4	10.000	-20	20.000	-2	50.000	3	75.000	2	100.00	2
Acetone					2.0000	-19	5.0000	-10	10.000	-13	20.000	-3	50.000	3	75.000	0	100.00	1
Freon 113			0.5000	6	2.0000	-14	5.0000	2	10.000	-9	20.000	3	50.000	5	75.000	2	100.00	3
1,1-Dichloroethene			0.5000	12	2.0000	-7	5.0000	2	10.000	-5	20.000	-3	50.000	2	75.000	-1	100.00	0
Methylene Chloride			0.5000	3	2.0000	-2	5.0000	1	10.000	-1	20.000	-1	50.000	1	75.000	0	100.00	-1
Carbon Disulfide			0.5000	11	2.0000	-4	5.0000	-1	10.000	-6	20.000	-1	50.000	3	75.000	-1	100.00	-1
MTBE			0.5000	-3	2.0000	-3	5.0000	0	10.000	-2	20.000	1	50.000	4	75.000	2	100.00	1
trans-1,2-Dichloroethene			0.5000	12	2.0000	-3	5.0000	-2	10.000	-5	20.000	-1	50.000	1	75.000	-1	100.00	0
Vinyl Acetate									10.000	-12	20.000	-11	50.000	14	75.000	5	100.00	4
1,1-Dichloroethane			0.5000	2	2.0000	-3	5.0000	1	10.000	-2	20.000	-1	50.000	3	75.000	1	100.00	0
2-Butanone					2.0000	2	5.0000	1	10.000	-8	20.000	0	50.000	4	75.000	1	100.00	0
2,2-Dichloropropane			0.5000	2	2.0000	-6	5.0000	-1	10.000	-5	20.000	0	50.000	5	75.000	2	100.00	2
cis-1,2-Dichloroethene			0.5000	1	2.0000	-3	5.0000	0	10.000	-5	20.000	-2	50.000	3	75.000	3	100.00	3
Chloroform			0.5000	12	2.0000	-2	5.0000	-1	10.000	-5	20.000	-3	50.000	1	75.000	-1	100.00	-1
Bromochloromethane			0.5000	-4	2.0000	-9	5.0000	-2	10.000	-4	20.000	0	50.000	5	75.000	6	100.00	7
1,1,1-Trichloroethane			0.5000	-2	2.0000	-6	5.0000	0	10.000	-6	20.000	1	50.000	6	75.000	3	100.00	4
1,1-Dichloropropene			0.5000	3	2.0000	-8	5.0000	-1	10.000	-7	20.000	0	50.000	4	75.000	3	100.00	5
Carbon Tetrachloride			0.5000	-5	2.0000	-13	5.0000	-4	10.000	-9	20.000	1	50.000	10	75.000	8	100.00	11
1,2-Dichloroethane			0.5000	-4	2.0000	-2	5.0000	0	10.000	-2	20.000	0	50.000	4	75.000	2	100.00	1
Benzene			0.5000	-3	2.0000	-3	5.0000	0	10.000	-5	20.000	-2	50.000	4	75.000	4	100.00	4
Trichloroethene			0.5000	3	2.0000	-4	5.0000	3	10.000	-7	20.000	-2	50.000	2	75.000	2	100.00	4
1,2-Dichloropropane			0.5000	-1	2.0000	-7	5.0000	3	10.000	0	20.000	2	50.000	2	75.000	1	100.00	1
Bromodichloromethane			0.5000	-15	2.0000	-10	5.0000	-3	10.000	-3	20.000	3	50.000	9	75.000	10	100.00	10
Dibromomethane			0.5000	-7	2.0000	-5	5.0000	-1	10.000	-3	20.000	0	50.000	5	75.000	5	100.00	7
4-Methyl-2-Pentanone			0.5000	-11	2.0000	-4	5.0000	2	10.000	-2	20.000	5	50.000	6	75.000	2	100.00	2
cis-1,3-Dichloropropene			0.5000	-10	2.0000	-10	5.0000	-3	10.000	-4	20.000	2	50.000	9	75.000	9	100.00	8
Toluene			0.5000	0	2.0000	-1	5.0000	3	10.000	-6	20.000	0	50.000	2	75.000	1	100.00	0
trans-1,3-Dichloropropene			0.5000	-16	2.0000	-12	5.0000	-3	10.000	-3	20.000	4	50.000	10	75.000	11	100.00	10
1,1,2-Trichloroethane			0.5000	-6	2.0000	-5	5.0000	-1	10.000	-1	20.000	1	50.000	4	75.000	4	100.00	4
2-Hexanone					2.0000	-12	5.0000	1	10.000	-3	20.000	5	50.000	6	75.000	2	100.00	1
1,3-Dichloropropane			0.5000	-6	2.0000	-2	5.0000	2	10.000	-1	20.000	1	50.000	3	75.000	2	100.00	0
Tetrachloroethene			0.5000	-1	2.0000	-11	5.0000	2	10.000	-11	20.000	0	50.000	6	75.000	7	100.00	8
Dibromochloromethane			0.5000	-17	2.0000	-13	5.0000	-8	10.000	-5	20.000	2	50.000	11	75.000	14	100.00	14
1,2-Dibromoethane			0.5000	-10	2.0000	-5	5.0000	1	10.000	-3	20.000	2	50.000	5	75.000	5	100.00	5
Chlorobenzene			0.5000	-3	2.0000	-6	5.0000	-2	10.000	-10	20.000	-2	50.000	5	75.000	8	100.00	10
1,1,1,2-Tetrachloroethane			0.5000	-14	2.0000	-9	5.0000	-2	10.000	-7	20.000	1	50.000	9	75.000	11	100.00	11
Ethylbenzene			0.5000	-5	2.0000	-2	5.0000	0	10.000	-12	20.000	0	50.000	6	75.000	6	100.00	6

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
m,p-Xylenes	0.5000	-7	1.0000	-4	4.0000	-8	10.000	-3	20.000	-13	40.000	-1	100.00	9	150.00	13	200.00	15
o-Xylene			0.5000	-8	2.0000	-7	5.0000	-2	10.000	-11	20.000	-1	50.000	7	75.000	10	100.00	13
Styrene			0.5000	-10	2.0000	-10	5.0000	-3	10.000	-11	20.000	0	50.000	8	75.000	11	100.00	13
Bromoform			0.5000	**37**	2.0000	4	5.0000	-1	10.000	-5	20.000	1	50.000	0				
Isopropylbenzene			0.5000	-3	2.0000	-8	5.0000	2	10.000	-14	20.000	1	50.000	6	75.000	9	100.00	8
1,1,2,2-Tetrachloroethane			0.5000	-2	2.0000	-4	5.0000	0	10.000	-2	20.000	0	50.000	3	75.000	4	100.00	1
1,2,3-Trichloropropane			0.5000	1	2.0000	3	5.0000	2	10.000	-5	20.000	-3	50.000	0	75.000	2	100.00	0
Propylbenzene			0.5000	1	2.0000	-6	5.0000	5	10.000	-12	20.000	2	50.000	5	75.000	4	100.00	1
Bromobenzene			0.5000	-2	2.0000	-7	5.0000	0	10.000	-9	20.000	-3	50.000	3	75.000	8	100.00	9
1,3,5-Trimethylbenzene			0.5000	-4	2.0000	-5	5.0000	3	10.000	-12	20.000	2	50.000	6	75.000	7	100.00	6
2-Chlorotoluene			0.5000	-4	2.0000	-3	5.0000	4	10.000	-10	20.000	0	50.000	4	75.000	5	100.00	3
4-Chlorotoluene			0.5000	0	2.0000	-3	5.0000	3	10.000	-10	20.000	0	50.000	4	75.000	4	100.00	2
tert-Butylbenzene			0.5000	-1	2.0000	-7	5.0000	2	10.000	-15	20.000	2	50.000	6	75.000	6	100.00	7
1,2,4-Trimethylbenzene			0.5000	-1	2.0000	-6	5.0000	2	10.000	-13	20.000	1	50.000	6	75.000	6	100.00	5
sec-Butylbenzene			0.5000	-1	2.0000	-6	5.0000	4	10.000	-15	20.000	4	50.000	6	75.000	4	100.00	4
para-Isopropyl Toluene			0.5000	-2	2.0000	-7	5.0000	1	10.000	-15	20.000	3	50.000	7	75.000	6	100.00	7
1,3-Dichlorobenzene			0.5000	-2	2.0000	-2	5.0000	2	10.000	-13	20.000	0	50.000	4	75.000	6	100.00	6
1,4-Dichlorobenzene			0.5000	0	2.0000	-2	5.0000	2	10.000	-11	20.000	-1	50.000	3	75.000	5	100.00	5
n-Butylbenzene			0.5000	0	2.0000	-6	5.0000	4	10.000	-15	20.000	4	50.000	7	75.000	3	100.00	3
1,2-Dichlorobenzene			0.5000	0	2.0000	-5	5.0000	1	10.000	-11	20.000	0	50.000	4	75.000	6	100.00	5
1,2-Dibromo-3-Chloropropane			0.5000	7	2.0000	-8	5.0000	-8	10.000	-7	20.000	0	50.000	6	75.000	6	100.00	4
1,2,4-Trichlorobenzene			0.5000	2	2.0000	-5	5.0000	-2	10.000	-14	20.000	1	50.000	6	75.000	5	100.00	6
Hexachlorobutadiene			0.5000	1	2.0000	-9	5.0000	4	10.000	-15	20.000	3	50.000	7	75.000	5	100.00	5
Naphthalene			0.5000	-15	2.0000	-9	5.0000	-1	10.000	-9	20.000	4	50.000	9	75.000	10	100.00	10
1,2,3-Trichlorobenzene			0.5000	-7	2.0000	-7	5.0000	1	10.000	-12	20.000	3	50.000	8	75.000	7	100.00	8
Dibromofluoromethane	50.000	-4	50.000	-4	50.000	-3	50.000	-1	50.000	-1	50.000	1	50.000	4	50.000	4	50.000	5
1,2-Dichloroethane-d4	50.000	-5	50.000	-3	50.000	-2	50.000	-2	50.000	-2	50.000	1	50.000	3	50.000	4	50.000	5
Toluene-d8	50.000	0	50.000	1	50.000	1	50.000	2	50.000	0	50.000	1	50.000	-1	50.000	-2	50.000	-3
Bromofluorobenzene	50.000	1	50.000	3	50.000	1	50.000	2	50.000	1	50.000	0	50.000	-3	50.000	-1	50.000	-5

MCT 10/18/13 [Ethanol]: Combined split peak in multiple levels.

MCT 10/18/13 [Isopropanol]: Corrected baseline noise or negative peak in multiple levels.

MCT 10/18/13 [Acetone]: Corrected baseline noise or negative peak in multiple levels.

MCT 10/18/13 [Vinyl Acetate]: Corrected fronting or tailing peak integration in multiple levels.

MCT 10/18/13 [Vinyl Acetate]: Picked or reassigned peak1PPB (mjh11).

MCT 10/18/13 [1,2-Dichloropropane]: Corrected baseline noise or negative peak1PPB (mjh11).

MCT 10/18/13 [2-Butanone]: Combined split peak in multiple levels.

MCT 10/18/13 [Freon 12]: ICV failed high, >30%, will rerun if hit.

MCT 10/18/13 [Iodomethane]: ICV failed low, <30%, will rerun if hit.

MCT 10/18/13 [Bromoform]: Does not meet 8260C low point requant. High bias >30% at low point. Will RR hits <2ppb.

MCT 10/18/13 [Iodomethane]: Does not meet 8260C low point requant. High bias >30% at low point. Will RR hits <10ppb.

Analyst: MCT Date: 10/18/13 Reviewer: TKM Date: 10/21/13

m=manual integration

X=A: Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating); X=R: Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; QUAD=Quadratic regression

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 250558 MSVOA Water
EPA 8260B

Inst : MSVOA13
Calnum : 943418066001 Cal Date : 17-OCT-2013

ICV 943418066019 (mjh19 18-OCT-2013) stds: S23005 (10000X), S23261 (2500X)
ICV 943418066020 (mjh20 18-OCT-2013) stds: S23411 (10000X), S23288 (10000X), S23417 (10000X), S23261 (2500X)

Analyte	ICV Seqnum	Spiked	Quant	Units	%D	Max	Flags
Freon 12	943418066019	20.00	30.72	ug/L	**54**	30	v+
Chloromethane	943418066019	20.00	24.30	ug/L	**21**	30	!v+
Vinyl Chloride	943418066019	20.00	22.47	ug/L	12	20	
Bromomethane	943418066019	20.00	15.07	ug/L	**-25**	30	!v-
Chloroethane	943418066019	20.00	21.57	ug/L	8	30	
Trichlorofluoromethane	943418066019	20.00	20.74	ug/L	4	30	
Acetone	943418066020	25.00	26.49	ug/L	6	40	
Freon 113	943418066020	25.00	23.85	ug/L	-5	30	
1,1-Dichloroethene	943418066020	25.00	25.14	ug/L	1	20	
Methylene Chloride	943418066020	25.00	26.33	ug/L	5	30	
Carbon Disulfide	943418066020	25.00	26.90	ug/L	8	30	
MTBE	943418066020	25.00	25.16	ug/L	1	30	
trans-1,2-Dichloroethene	943418066020	25.00	26.37	ug/L	5	30	
Vinyl Acetate	943418066020	25.00	30.28	ug/L	**21**	40	!v+
1,1-Dichloroethane	943418066020	25.00	23.90	ug/L	-4	30	
2-Butanone	943418066020	25.00	25.10	ug/L	0	40	
2,2-Dichloropropane	943418066020	25.00	22.36	ug/L	-11	30	
cis-1,2-Dichloroethene	943418066020	25.00	27.13	ug/L	9	30	
Chloroform	943418066020	25.00	23.88	ug/L	-4	20	
Bromochloromethane	943418066020	25.00	24.52	ug/L	-2	30	
1,1,1-Trichloroethane	943418066020	25.00	24.99	ug/L	0	30	
1,1-Dichloropropene	943418066020	25.00	28.16	ug/L	13	30	
Carbon Tetrachloride	943418066020	25.00	24.98	ug/L	0	30	
1,2-Dichloroethane	943418066020	25.00	27.09	ug/L	8	30	
Benzene	943418066020	25.00	26.65	ug/L	7	30	
Trichloroethene	943418066020	25.00	26.64	ug/L	7	30	
1,2-Dichloropropane	943418066020	25.00	26.07	ug/L	4	20	
Bromodichloromethane	943418066020	25.00	26.65	ug/L	7	30	
Dibromomethane	943418066020	25.00	24.93	ug/L	0	30	
4-Methyl-2-Pentanone	943418066020	25.00	26.20	ug/L	5	40	
cis-1,3-Dichloropropene	943418066020	25.00	29.28	ug/L	17	30	
Toluene	943418066020	25.00	26.76	ug/L	7	20	
trans-1,3-Dichloropropene	943418066020	25.00	28.29	ug/L	13	30	
1,1,2-Trichloroethane	943418066020	25.00	27.02	ug/L	8	30	
2-Hexanone	943418066020	25.00	26.75	ug/L	7	40	
1,3-Dichloropropane	943418066020	25.00	27.18	ug/L	9	30	
Tetrachloroethene	943418066020	25.00	24.35	ug/L	-3	30	
Dibromochloromethane	943418066020	25.00	27.74	ug/L	11	30	
1,2-Dibromoethane	943418066020	25.00	27.54	ug/L	10	30	
Chlorobenzene	943418066020	25.00	27.14	ug/L	9	30	
1,1,1,2-Tetrachloroethane	943418066020	25.00	27.68	ug/L	11	30	
Ethylbenzene	943418066020	25.00	27.02	ug/L	8	20	
m,p-Xylenes	943418066020	50.00	54.87	ug/L	10	30	
o-Xylene	943418066020	25.00	27.90	ug/L	12	30	
Styrene	943418066020	25.00	27.10	ug/L	8	30	
Bromoform	943418066020	25.00	24.96	ug/L	0	30	
Isopropylbenzene	943418066020	25.00	27.99	ug/L	12	30	

Analyte	ICV Seqnum	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	943418066020	25.00	26.85	ug/L	7	30	
1,2,3-Trichloropropane	943418066020	25.00	25.79	ug/L	3	30	
Propylbenzene	943418066020	25.00	28.04	ug/L	12	30	
Bromobenzene	943418066020	25.00	25.90	ug/L	4	30	
1,3,5-Trimethylbenzene	943418066020	25.00	28.15	ug/L	13	30	
2-Chlorotoluene	943418066020	25.00	28.66	ug/L	15	30	
4-Chlorotoluene	943418066020	25.00	27.45	ug/L	10	30	
tert-Butylbenzene	943418066020	25.00	28.46	ug/L	14	30	
1,2,4-Trimethylbenzene	943418066020	25.00	27.16	ug/L	9	30	
sec-Butylbenzene	943418066020	25.00	28.68	ug/L	15	30	
para-Isopropyl Toluene	943418066020	25.00	25.66	ug/L	3	30	
1,3-Dichlorobenzene	943418066020	25.00	27.65	ug/L	11	30	
1,4-Dichlorobenzene	943418066020	25.00	26.23	ug/L	5	30	
n-Butylbenzene	943418066020	25.00	27.40	ug/L	10	30	
1,2-Dichlorobenzene	943418066020	25.00	27.84	ug/L	11	30	
1,2-Dibromo-3-Chloropropane	943418066020	25.00	26.47	ug/L	6	30	
1,2,4-Trichlorobenzene	943418066020	25.00	27.03	ug/L	8	30	
Hexachlorobutadiene	943418066020	25.00	26.94	ug/L	8	30	
Naphthalene	943418066020	25.00	28.07	ug/L	12	30	
1,2,3-Trichlorobenzene	943418066020	25.00	27.75	ug/L	11	30	

943418066019: Analyst: MCT Date: 10/18/13 Reviewer: TKM Date: 10/21/13
943418066020: Analyst: MCT Date: 10/18/13 Reviewer: TKM Date: 10/21/13

!=warning +=high bias -=low bias v=ICV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 250558 MSVOA Water
EPA 8260B

Inst : MSVOA02 Run Name : 15PPB IDF : 1.0
Seqnum : 413464100003 File : bki03 Time : 18-NOV-2013 08:42
Cal : 413458513001 Caldate : 14-NOV-2013 Caltype : WATER
Standards: S23517 (33330X), S21354 (33330X), S23518 (33330X), S22790 (33330X), S23570 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.8374	0.8053	15.00	14.42	ug/L	-4	30	0.0500	!v+
Chloromethane	1.2662	1.1835	15.00	14.02	ug/L	-7	30	0.1000	
Vinyl Chloride	0.9743	0.9816	15.00	15.11	ug/L	1	20	0.0500	
Bromomethane	0.6614	0.6250	15.00	14.17	ug/L	-6	30	0.0500	
Chloroethane	0.5936	0.5920	15.00	14.96	ug/L	0	30	0.0500	
Trichlorofluoromethane	1.0088	1.0444	15.00	15.53	ug/L	4	30	0.0500	
Acetone	0.3053	0.2725	15.00	13.39	ug/L	-11	40	0.0500	
Freon 113	0.5124	0.6627	15.00	19.40	ug/L	**29**	30	0.0500	!c+
1,1-Dichloroethene	0.6021	0.6925	15.00	17.25	ug/L	15	20	0.0500	
Methylene Chloride	0.8435	0.8957	15.00	15.93	ug/L	6	30	0.0500	
Carbon Disulfide	1.9048	2.8200	15.00	22.21	ug/L	**48**	30	0.0500	!v+ c+ ***
MTBE	1.8761	1.8604	15.00	14.87	ug/L	-1	30	0.0500	
trans-1,2-Dichloroethene	0.7551	0.8086	15.00	16.06	ug/L	7	30	0.0500	
Vinyl Acetate	0.9650	1.4288	15.00	22.21	ug/L	**48**	40	0.0500	c+ v+ ***
1,1-Dichloroethane	1.3984	1.4583	15.00	15.64	ug/L	4	30	0.1000	
2-Butanone	0.3917	0.3440	15.00	13.17	ug/L	-12	40	0.0500	
2,2-Dichloropropane	0.8836	1.0116	15.00	17.17	ug/L	14	30	0.0500	
cis-1,2-Dichloroethene	0.8887	0.8948	15.00	15.10	ug/L	1	30	0.0500	
Chloroform	1.3481	1.4060	15.00	15.64	ug/L	4	20	0.0500	
Bromochloromethane	0.4535	0.4652	15.00	15.39	ug/L	3	30	0.0500	
1,1,1-Trichloroethane	0.9538	1.0286	15.00	16.18	ug/L	8	30	0.0500	
1,1-Dichloropropene	0.4176	0.4595	15.00	16.50	ug/L	10	30	0.0500	
Carbon Tetrachloride	0.3665	0.4063	15.00	16.63	ug/L	11	30	0.0500	
1,2-Dichloroethane	0.4686	0.4695	15.00	15.03	ug/L	0	30	0.0500	
Benzene	1.4393	1.4728	15.00	15.35	ug/L	2	30	0.0500	
Trichloroethene	0.3788	0.3863	15.00	15.30	ug/L	2	30	0.0500	
1,2-Dichloropropane	0.4355	0.4425	15.00	15.24	ug/L	2	20	0.0500	
Bromodichloromethane	0.5091	0.5128	15.00	15.11	ug/L	1	30	0.0500	
Dibromomethane	0.2992	0.2891	15.00	14.49	ug/L	-3	30	0.0500	
4-Methyl-2-Pentanone	0.3719	0.3225	15.00	13.01	ug/L	-13	40	0.0500	
cis-1,3-Dichloropropene	0.6079	0.6084	15.00	15.01	ug/L	0	30	0.0500	
Toluene	0.9614	0.9872	15.00	15.40	ug/L	3	20	0.0500	
trans-1,3-Dichloropropene	0.5844	0.5946	15.00	15.26	ug/L	2	30	0.0500	
1,1,2-Trichloroethane	0.2301	0.2196	15.00	14.31	ug/L	-5	30	0.0500	
2-Hexanone	0.3091	0.2678	15.00	12.99	ug/L	-13	40	0.0500	
1,3-Dichloropropane	0.6486	0.6250	15.00	14.45	ug/L	-4	30	0.0500	
Tetrachloroethene	0.3504	0.3857	15.00	16.51	ug/L	10	30	0.0500	
Dibromochloromethane	0.4594	0.4512	15.00	14.73	ug/L	-2	30	0.0500	
1,2-Dibromoethane	0.4492	0.4285	15.00	14.31	ug/L	-5	30	0.0500	
Chlorobenzene	1.1134	1.1382	15.00	15.33	ug/L	2	30	0.3000	
1,1,1,2-Tetrachloroethane	0.4079	0.3851	15.00	14.16	ug/L	-6	30	0.0500	
Ethylbenzene	1.7191	1.7910	15.00	15.63	ug/L	4	20	0.0500	
m,p-Xylenes	0.6323	0.6623	30.00	31.42	ug/L	5	30	0.0500	
o-Xylene	0.6436	0.6664	15.00	15.53	ug/L	4	30	0.0500	
Styrene	1.1048	1.1230	15.00	15.25	ug/L	2	30	0.0500	
Bromoform	0.2962	0.2869	15.00	14.53	ug/L	-3	30	0.1000	
Isopropylbenzene	3.4072	3.5287	15.00	15.53	ug/L	4	30	0.0500	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	1.2196	1.1060	15.00	13.60	ug/L	-9	30	0.3000	
1,2,3-Trichloropropane	0.9519	0.9178	15.00	14.46	ug/L	-4	30	0.0500	
Propylbenzene	3.9241	4.1306	15.00	15.79	ug/L	5	30	0.0500	
Bromobenzene	1.0412	1.0463	15.00	15.07	ug/L	0	30	0.0500	
1,3,5-Trimethylbenzene	2.5065	2.5724	15.00	15.39	ug/L	3	30	0.0500	
2-Chlorotoluene	2.8222	2.8890	15.00	15.36	ug/L	2	30	0.0500	
4-Chlorotoluene	2.5438	2.5979	15.00	15.32	ug/L	2	30	0.0500	
tert-Butylbenzene	2.1753	2.2874	15.00	15.77	ug/L	5	30	0.0500	
1,2,4-Trimethylbenzene	2.3817	2.3519	15.00	14.81	ug/L	-1	30	0.0500	
sec-Butylbenzene	3.1288	3.3572	15.00	16.10	ug/L	7	30	0.0500	
para-Isopropyl Toluene	2.1947	2.2795	15.00	15.58	ug/L	4	30	0.0500	
1,3-Dichlorobenzene	1.6130	1.6437	15.00	15.29	ug/L	2	30	0.0500	
1,4-Dichlorobenzene	1.6331	1.6723	15.00	15.36	ug/L	2	30	0.0500	
n-Butylbenzene	1.7116	1.8397	15.00	16.12	ug/L	7	30	0.0500	
1,2-Dichlorobenzene	1.6505	1.6890	15.00	15.35	ug/L	2	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1772	0.1601	15.00	13.55	ug/L	-10	30	0.0500	
1,2,4-Trichlorobenzene	0.5947	0.6295	15.00	15.88	ug/L	6	30	0.0500	
Hexachlorobutadiene	0.3284	0.3825	15.00	17.47	ug/L	16	30	0.0500	
Naphthalene	1.5202	1.5054	15.00	14.85	ug/L	-1	30	0.0500	
1,2,3-Trichlorobenzene	0.6167	0.6396	15.00	15.56	ug/L	4	30	0.0500	
Dibromofluoromethane	0.7866	0.7875	50.00	50.06	ug/L	0	30	0.0500	
1,2-Dichloroethane-d4	0.3371	0.3431	50.00	50.89	ug/L	2	30	0.0500	
Toluene-d8	1.3119	1.3168	50.00	50.18	ug/L	0	30	0.0500	
Bromofluorobenzene	1.0789	1.0501	50.00	48.66	ug/L	-3	30	0.0500	

ISTD (ICAL bke11)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	349648	291136	-16.73	11.61	11.59	-0.02
1,4-Difluorobenzene	714566	585806	-18.02	12.84	12.82	-0.02
Chlorobenzene-d5	626466	510310	-18.54	17.41	17.40	-0.01
1,4-Dichlorobenzene-d4	281251	231411	-17.72	20.79	20.79	0.00

Analyst: MCT Date: 11/19/13 Reviewer: LW Date: 11/19/13

!=warning +=high bias c=CCV v=ICV

CURTIS & TOMPKINS SPIKE USER REPORT FOR 250558 MSVOA Water
EPA 8260B

Inst : MSVOA13 Run Name : QC716309 IDF : 1.0
Seqnum : 943459724016.3 File : mkf16 Time : 15-NOV-2013 13:37
Cal : 943418066001 Caldate : 17-OCT-2013
Standards: S23411 (20000X), S23592 (20000X), S23417 (20000X), S22793 (20000X), S23550 (2500X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.7328	1.1180	10.00	15.26	ug/L	**53**	30	0.0500	c+ u v+ ***
Chloromethane	1.0692	1.0174	10.00	9.515	ug/L	-5	30	0.1000	!v+ u
Vinyl Chloride	1.2596	1.1331	10.00	8.996	ug/L	-10	20	0.0500	u
Bromomethane	0.3911	0.3828	10.00	9.789	ug/L	-2	30	0.0500	!v- u
Chloroethane	0.7273	0.7081	10.00	9.736	ug/L	-3	30	0.0500	u
Trichlorofluoromethane	1.1512	1.1507	10.00	9.996	ug/L	0	30	0.0500	u
Acetone	0.5537	0.4212	12.50	9.510	ug/L	-24	40	0.0500	u
Freon 113	0.5816	0.5598	12.50	12.03	ug/L	-4	30	0.0500	u
1,1-Dichloroethene	0.6148	0.5273	12.50	10.72	ug/L	-14	20	0.0500	u
Methylene Chloride	0.8114	0.7869	12.50	12.12	ug/L	-3	30	0.0500	u
Carbon Disulfide	2.4044	2.3851	12.50	12.40	ug/L	-1	30	0.0500	u
MTBE	3.0493	2.0321	12.50	8.330	ug/L	**-33**	30	0.0500	c- u ***
trans-1,2-Dichloroethene	0.7085	0.6858	12.50	12.10	ug/L	-3	30	0.0500	u
Vinyl Acetate	2.1157	1.7368	12.50	10.26	ug/L	-18	40	0.0500	!v+ u
1,1-Dichloroethane	1.8698	1.5487	12.50	10.35	ug/L	-17	30	0.1000	u
2-Butanone	0.8117	0.5462	12.50	8.412	ug/L	-33	40	0.0500	u
cis-1,2-Dichloroethene	0.7895	0.7569	12.50	11.98	ug/L	-4	30	0.0500	u
2,2-Dichloropropane	1.1665	0.9651	12.50	10.34	ug/L	-17	30	0.0500	u
Chloroform	1.5193	1.3489	12.50	11.10	ug/L	-11	20	0.0500	u
Bromochloromethane	0.2973	0.2867	12.50	12.05	ug/L	-4	30	0.0500	u
1,1,1-Trichloroethane	1.2276	1.0911	12.50	11.11	ug/L	-11	30	0.0500	u
1,1-Dichloropropene	0.6210	0.6119	12.50	12.32	ug/L	-1	30	0.0500	u
Carbon Tetrachloride	0.4756	0.4785	12.50	12.58	ug/L	1	30	0.0500	u
1,2-Dichloroethane	0.7476	0.7459	12.50	12.47	ug/L	0	30	0.0500	u
Benzene	1.9243	1.9142	12.50	12.43	ug/L	-1	30	0.0500	u
Trichloroethene	0.4183	0.4115	12.50	12.30	ug/L	-2	30	0.0500	u
1,2-Dichloropropane	0.5971	0.5244	12.50	10.98	ug/L	-12	20	0.0500	u
Bromodichloromethane	0.5682	0.5609	12.50	12.34	ug/L	-1	30	0.0500	u
Dibromomethane	0.2496	0.2281	12.50	11.43	ug/L	-9	30	0.0500	u
4-Methyl-2-Pentanone	0.8196	0.5905	12.50	9.006	ug/L	-28	40	0.0500	u
cis-1,3-Dichloropropene	0.7435	0.7939	12.50	13.35	ug/L	7	30	0.0500	u
Toluene	2.0036	2.0270	12.50	12.65	ug/L	1	20	0.0500	u
trans-1,3-Dichloropropene	0.7543	0.7307	12.50	12.11	ug/L	-3	30	0.0500	u
1,1,2-Trichloroethane	0.2443	0.2442	12.50	12.50	ug/L	0	30	0.0500	u
2-Hexanone	0.6648	0.4450	12.50	8.367	ug/L	-33	40	0.0500	u
1,3-Dichloropropane	0.8728	0.8679	12.50	12.43	ug/L	-1	30	0.0500	u
Tetrachloroethene	0.3018	0.3010	12.50	12.47	ug/L	0	30	0.0500	u
Dibromochloromethane	0.3470	0.3548	12.50	12.78	ug/L	2	30	0.0500	u
1,2-Dibromoethane	0.3812	0.3666	12.50	12.02	ug/L	-4	30	0.0500	u
Chlorobenzene	1.1454	1.2076	12.50	13.18	ug/L	5	30	0.3000	u
1,1,1,2-Tetrachloroethane	0.3332	0.3614	12.50	13.56	ug/L	8	30	0.0500	u
Ethylbenzene	2.2893	2.3319	12.50	12.73	ug/L	2	20	0.0500	u
m,p-Xylenes	0.7972	0.8239	25.00	25.84	ug/L	3	30	0.0500	u
o-Xylene	0.7738	0.7704	12.50	12.44	ug/L	0	30	0.0500	u
Styrene	1.3391	1.2716	12.50	11.87	ug/L	-5	30	0.0500	u
Bromoform	0.1831	0.1978	12.50	12.84	ug/L	3	30	0.1000	u
Isopropylbenzene	4.5329	4.5344	12.50	12.50	ug/L	0	30	0.0500	u

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	1.4093	1.4228	12.50	12.62	ug/L	1	30	0.3000	u
1,2,3-Trichloropropane	1.6380	1.5789	12.50	12.05	ug/L	-4	30	0.0500	u
Propylbenzene	5.7370	6.0933	12.50	13.28	ug/L	6	30	0.0500	u
Bromobenzene	0.8350	0.8639	12.50	12.93	ug/L	3	30	0.0500	u
1,3,5-Trimethylbenzene	3.6965	3.9203	12.50	13.26	ug/L	6	30	0.0500	u
2-Chlorotoluene	3.8402	4.2536	12.50	13.85	ug/L	11	30	0.0500	u
4-Chlorotoluene	3.6034	3.7744	12.50	13.09	ug/L	5	30	0.0500	u
tert-Butylbenzene	2.9364	3.0652	12.50	13.05	ug/L	4	30	0.0500	u
1,2,4-Trimethylbenzene	3.8770	4.0110	12.50	12.93	ug/L	3	30	0.0500	u
sec-Butylbenzene	4.5757	4.8634	12.50	13.29	ug/L	6	30	0.0500	u
para-Isopropyl Toluene	3.5559	3.4238	12.50	12.04	ug/L	-4	30	0.0500	u
1,3-Dichlorobenzene	1.6035	1.7499	12.50	13.64	ug/L	9	30	0.0500	u
1,4-Dichlorobenzene	1.6891	1.7965	12.50	13.29	ug/L	6	30	0.0500	u
n-Butylbenzene	3.8811	4.0194	12.50	12.95	ug/L	4	30	0.0500	u
1,2-Dichlorobenzene	1.5647	1.6697	12.50	13.34	ug/L	7	30	0.0500	u
1,2-Dibromo-3-Chloropropane	0.3221	0.2783	12.50	10.80	ug/L	-14	30	0.0500	u
1,2,4-Trichlorobenzene	0.8628	0.8282	12.50	12.00	ug/L	-4	30	0.0500	u
Hexachlorobutadiene	0.3767	0.4266	12.50	14.16	ug/L	13	30	0.0500	u
Naphthalene	3.1131	2.7744	12.50	11.14	ug/L	-11	30	0.0500	u
1,2,3-Trichlorobenzene	0.7894	0.7739	12.50	12.26	ug/L	-2	30	0.0500	u
Dibromofluoromethane	0.5855	0.5557	50.00	47.45	ug/L	-5	30	0.0500	u
1,2-Dichloroethane-d4	0.5744	0.5669	50.00	49.34	ug/L	-1	30	0.0500	u
Toluene-d8	1.5739	1.5271	50.00	48.51	ug/L	-3	30	0.0500	u
Bromofluorobenzene	1.3406	1.3224	50.00	49.32	ug/L	-1	30	0.0500	u

ISTD (ICAL mjh16)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	817223	1162733	42.28	11.35	11.35	0.00
1,4-Difluorobenzene	1611114	2163729	34.30	12.19	12.19	0.00
Chlorobenzene-d5	1459594	1994324	36.64	15.02	15.02	0.00
1,4-Dichlorobenzene-d4	661624	893762	35.09	17.06	17.06	0.00

Analyst: MCT Date: 11/19/13 Reviewer: LW Date: 11/20/13

!=warning +=high bias -=low bias c=CCV u=use v=ICV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 250558 MSVOA Water
EPA 8260B

Inst : MSVOA13 IDF : 1.0
Seqnum : 943464144004 File : mki04 Time : 18-NOV-2013 09:11
Cal : 943418066001 Caldate : 17-OCT-2013
Standards: S22433 (33330X), S23293 (33330X), S23611 (33330X), S22004 (33330X), S23550 (2500X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.7328	0.9477	15.00	19.40	ug/L	**29**	30	0.0500	!c+ v+ ***
Chloromethane	1.0692	1.1759	15.00	16.50	ug/L	10	30	0.1000	!v+
Vinyl Chloride	1.2596	1.1738	15.00	13.98	ug/L	-7	20	0.0500	
Bromomethane	0.3911	0.4882	15.00	18.72	ug/L	**25**	30	0.0500	!c+ !v-
Chloroethane	0.7273	0.6721	15.00	13.86	ug/L	-8	30	0.0500	
Trichlorofluoromethane	1.1512	1.2860	15.00	16.76	ug/L	12	30	0.0500	
Acetone	0.5537	0.3149	15.00	8.531	ug/L	**-43**	40	0.0500	c- ***
Freon 113	0.5816	0.6209	15.00	16.01	ug/L	7	30	0.0500	
1,1-Dichloroethene	0.6148	0.4922	15.00	12.01	ug/L	-20	20	0.0500	
Methylene Chloride	0.8114	0.7662	15.00	14.16	ug/L	-6	30	0.0500	
Carbon Disulfide	2.4044	2.5690	15.00	16.03	ug/L	7	30	0.0500	
MTBE	3.0493	2.0422	15.00	10.05	ug/L	**-33**	30	0.0500	c- ***
trans-1,2-Dichloroethene	0.7085	0.6626	15.00	14.03	ug/L	-6	30	0.0500	
Vinyl Acetate	2.1157	1.1958	15.00	8.478	ug/L	**-43**	40	0.0500	!v+ c- ***
1,1-Dichloroethane	1.8698	1.7014	15.00	13.65	ug/L	-9	30	0.1000	
2-Butanone	0.8117	0.4270	15.00	7.890	ug/L	**-47**	40	0.0500	c- ***
2,2-Dichloropropane	1.1665	1.1967	15.00	15.39	ug/L	3	30	0.0500	
cis-1,2-Dichloroethene	0.7895	0.7095	15.00	13.48	ug/L	-10	30	0.0500	
Chloroform	1.5193	1.4814	15.00	14.63	ug/L	-2	20	0.0500	
Bromochloromethane	0.2973	0.3075	15.00	15.52	ug/L	3	30	0.0500	
1,1,1-Trichloroethane	1.2276	1.2105	15.00	14.79	ug/L	-1	30	0.0500	
1,1-Dichloropropene	0.6210	0.5284	15.00	12.76	ug/L	-15	30	0.0500	
Carbon Tetrachloride	0.4756	0.5103	15.00	16.09	ug/L	7	30	0.0500	
1,2-Dichloroethane	0.7476	0.7198	15.00	14.44	ug/L	-4	30	0.0500	
Benzene	1.9243	1.8868	15.00	14.71	ug/L	-2	30	0.0500	
Trichloroethene	0.4183	0.3800	15.00	13.63	ug/L	-9	30	0.0500	
1,2-Dichloropropane	0.5971	0.5163	15.00	12.97	ug/L	-14	20	0.0500	
Bromodichloromethane	0.5682	0.5856	15.00	15.46	ug/L	3	30	0.0500	
Dibromomethane	0.2496	0.2404	15.00	14.45	ug/L	-4	30	0.0500	
4-Methyl-2-Pentanone	0.8196	0.4573	15.00	8.369	ug/L	**-44**	40	0.0500	c- ***
cis-1,3-Dichloropropene	0.7435	0.7228	15.00	14.58	ug/L	-3	30	0.0500	
Toluene	2.0036	1.8830	15.00	14.10	ug/L	-6	20	0.0500	
trans-1,3-Dichloropropene	0.7543	0.6536	15.00	13.00	ug/L	-13	30	0.0500	
1,1,2-Trichloroethane	0.2443	0.2225	15.00	13.66	ug/L	-9	30	0.0500	
2-Hexanone	0.6648	0.3092	15.00	6.975	ug/L	**-53**	40	0.0500	c- ***
1,3-Dichloropropane	0.8728	0.7783	15.00	13.38	ug/L	-11	30	0.0500	
Tetrachloroethene	0.3018	0.3014	15.00	14.98	ug/L	0	30	0.0500	
Dibromochloromethane	0.3470	0.3310	15.00	14.31	ug/L	-5	30	0.0500	
1,2-Dibromoethane	0.3812	0.3161	15.00	12.44	ug/L	-17	30	0.0500	
Chlorobenzene	1.1454	1.1134	15.00	14.58	ug/L	-3	30	0.3000	
1,1,1,2-Tetrachloroethane	0.3332	0.3451	15.00	15.53	ug/L	4	30	0.0500	
Ethylbenzene	2.2893	2.1337	15.00	13.98	ug/L	-7	20	0.0500	
m,p-Xylenes	0.7972	0.7439	30.00	27.99	ug/L	-7	30	0.0500	
o-Xylene	0.7738	0.6695	15.00	12.98	ug/L	-13	30	0.0500	
Styrene	1.3391	1.1747	15.00	13.16	ug/L	-12	30	0.0500	
Bromoform	0.1831	0.1906	15.00	14.63	ug/L	-2	30	0.1000	
Isopropylbenzene	4.5329	3.7827	15.00	12.52	ug/L	-17	30	0.0500	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	1.4093	1.1749	15.00	12.50	ug/L	-17	30	0.3000	
1,2,3-Trichloropropane	1.6380	1.3248	15.00	12.13	ug/L	-19	30	0.0500	
Propylbenzene	5.7370	5.1106	15.00	13.36	ug/L	-11	30	0.0500	
Bromobenzene	0.8350	0.8336	15.00	14.97	ug/L	0	30	0.0500	
1,3,5-Trimethylbenzene	3.6965	3.2662	15.00	13.25	ug/L	-12	30	0.0500	
2-Chlorotoluene	3.8402	3.6418	15.00	14.23	ug/L	-5	30	0.0500	
4-Chlorotoluene	3.6034	3.3534	15.00	13.96	ug/L	-7	30	0.0500	
tert-Butylbenzene	2.9364	2.4300	15.00	12.41	ug/L	-17	30	0.0500	
1,2,4-Trimethylbenzene	3.8770	3.5545	15.00	13.75	ug/L	-8	30	0.0500	
sec-Butylbenzene	4.5757	3.7218	15.00	12.20	ug/L	-19	30	0.0500	
para-Isopropyl Toluene	3.5559	2.9758	15.00	12.55	ug/L	-16	30	0.0500	
1,3-Dichlorobenzene	1.6035	1.5566	15.00	14.56	ug/L	-3	30	0.0500	
1,4-Dichlorobenzene	1.6891	1.6684	15.00	14.82	ug/L	-1	30	0.0500	
n-Butylbenzene	3.8811	3.1263	15.00	12.08	ug/L	-19	30	0.0500	
1,2-Dichlorobenzene	1.5647	1.4713	15.00	14.10	ug/L	-6	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.3221	0.2021	15.00	9.414	ug/L	**-37**	30	0.0500	c- ***
1,2,4-Trichlorobenzene	0.8628	0.6652	15.00	11.56	ug/L	**-23**	30	0.0500	!c-
Hexachlorobutadiene	0.3767	0.3382	15.00	13.46	ug/L	-10	30	0.0500	
Naphthalene	3.1131	1.9828	15.00	9.554	ug/L	**-36**	30	0.0500	c- ***
1,2,3-Trichlorobenzene	0.7894	0.6335	15.00	12.04	ug/L	-20	30	0.0500	
Dibromofluoromethane	0.5855	0.5872	50.00	50.15	ug/L	0	30	0.0500	
1,2-Dichloroethane-d4	0.5744	0.5734	50.00	49.91	ug/L	0	30	0.0500	
Toluene-d8	1.5739	1.5212	50.00	48.33	ug/L	-3	30	0.0500	
Bromofluorobenzene	1.3406	1.2831	50.00	47.85	ug/L	-4	30	0.0500	

ISTD (ICAL mjh16)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	817223	1016178	24.35	11.35	11.35	0.00
1,4-Difluorobenzene	1611114	1897450	17.77	12.19	12.19	0.00
Chlorobenzene-d5	1459594	1788224	22.52	15.02	15.02	0.00
1,4-Dichlorobenzene-d4	661624	802810	21.34	17.06	17.06	0.00

Analyst: MCT Date: 11/18/13 Reviewer: LW Date: 11/19/13

!=warning +=high bias -=low bias c=CCV v=ICV

Logbooks & Sequences

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 413464100

Date : 11/18/13 Reference : bke11
Sequence : MSVOA02 bki Analyzed : 11/14/13 16:27

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	349648	11.61	714566	12.84	626466	17.41	281251	20.79
		LOWER LIMIT	174824	11.11	357283	12.34	313233	16.91	140626	20.29
		UPPER LIMIT	699296	12.11	1429132	13.34	1252932	17.91	562502	21.29
003	CCV	15PPB	291136	11.59	585806	12.82	510310	17.40	231411	20.79
004	BS	QC716593	298675	11.58	596835	12.82	522212	17.40	236635	20.78
005	BSD	QC716594	301784	11.59	602326	12.82	533032	17.39	235593	20.78
007	BLANK	QC716595	289286	11.58	588037	12.81	514814	17.40	213823	20.79
008	SAMPLE	250558-001	287779	11.59	583101	12.82	513613	17.40	211987	20.79
009	SAMPLE	250592-019	287767	11.59	573624	12.82	506031	17.41	210834	20.79
010	SAMPLE	250592-021	288206	11.59	572065	12.82	501351	17.40	212917	20.78
011	SAMPLE	250592-024	282123	11.58	571326	12.82	502139	17.40	207561	20.78
012	SAMPLE	250592-023	276581	11.58	552298	12.82	494795	17.40	204021	20.78
013	SAMPLE	250592-022	277987	11.59	553809	12.82	488836	17.40	201799	20.79
014	SAMPLE	250592-020	272831	11.59	546938	12.82	484480	17.40	200599	20.79
015	SAMPLE	250592-018	270510	11.59	550629	12.82	487623	17.40	199974	20.78
016	SAMPLE	250592-017	275315	11.59	550707	12.82	481184	17.40	199150	20.79
017	SAMPLE	250592-025	273838	11.58	549922	12.82	479021	17.40	199258	20.78
018	SAMPLE	250592-010	265538	11.59	543606	12.82	485165	17.40	195244	20.79
019	SAMPLE	250592-009	265613	11.59	535830	12.82	471936	17.39	196647	20.79
020	SAMPLE	250592-001	262664	11.58	531908	12.82	468547	17.40	195467	20.78
021	SAMPLE	250532-013	250410	11.59	493696	12.82	447397	17.40	192330	20.79
022	SAMPLE	250697-001	244327	11.58	486638	12.81	438254	17.40	187152	20.79

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 943459724

Date : 11/15/13 Reference : mjh16
Sequence : MSVOA13 mkf Analyzed : 10/18/13 01:17

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	817223	11.35	1611114	12.19	1459594	15.02	661624	17.06
		LOWER LIMIT	408612	10.85	805557	11.69	729797	14.52	330812	16.56
		UPPER LIMIT	1634446	11.85	3222228	12.69	2919188	15.52	1323248	17.56
014	CCV/BS	QC716309	1160880	11.35	2046982	12.19	1954988	15.02	965773	17.06
016	CCV/BS	QC716309	1162733	11.35	2163729	12.19	1994324	15.02	893762	17.06
017	BSD	QC716310	1166081	11.35	2198605	12.19	2038617	15.02	915088	17.06
019	BLANK	QC716311	943719	11.36	1937376	12.19	1738248	15.02	752733	17.06
020	SAMPLE	250624-044	916476	11.36	1875821	12.19	1689404	15.02	723761	17.06
021	SAMPLE	250558-011	885970	11.36	1841676	12.19	1655445	15.02	709793	17.06
022	SAMPLE	250538-001	921472	11.35	1828263	12.19	1642213	15.02	703837	17.06
023	SAMPLE	250624-041	938651	11.36	1866225	12.19	1653196	15.02	714275	17.06
024	SAMPLE	250624-043	870065	11.36	1816412	12.19	1605710	15.02	678578	17.06
025	SAMPLE	250624-045	862556	11.36	1814389	12.19	1637323	15.02	691411	17.06
026	SAMPLE	250558-002	846734	11.36	1792330	12.19	1605750	15.02	683186	17.06
027	SAMPLE	250558-004	840499	11.36	1780500	12.19	1589276	15.02	681691	17.06
028	SAMPLE	250558-001	863387	11.36	1817181	12.19	1631178	15.02	706738	17.06
029	SAMPLE	250558-003	855950	11.36	1812396	12.19	1613716	15.02	693092	17.06
030	SAMPLE	250558-005	858978	11.36	1811901	12.19	1615511	15.02	680116	17.06
031	SAMPLE	250558-006	825881	11.36	1770173	12.19	1587718	15.02	679919	17.06
032	SAMPLE	250558-007	839507	11.36	1786879	12.19	1608020	15.02	706109	17.06
033	SAMPLE	250558-009	824479	11.36	1752353	12.19	1574326	15.02	677785	17.06
034	SAMPLE	250558-010	833569	11.36	1778131	12.19	1593720	15.02	679764	17.06
035	SAMPLE	250558-008	848642	11.36	1774762	12.19	1588121	15.02	684607	17.06
036	SAMPLE	250624-025	894462	11.36	1775916	12.19	1620312	15.02	669944	17.06
037	SAMPLE	250624-042	929212	11.36	1818774	12.19	1656342	15.02	703797	17.06
038	SAMPLE	250624-014	909585	11.36	1765178	12.19	1608246	15.02	681299	17.06
039	SAMPLE	250624-040	838177	11.36	1808960	12.19	1587500	15.02	693215	17.06
040	IB		872049	11.36	1808003	12.19	1622352	15.02	721472	17.06
041	IB		875141	11.36	1814969	12.19	1632868	15.02	706432	17.06
042	IB		848146	11.36	1786038	12.19	1616294	15.02	703551	17.06

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 943464144

Date : 11/18/13 Reference : mjh16
Sequence : MSVOA13 mki Analyzed : 10/18/13 01:17

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	817223	11.35	1611114	12.19	1459594	15.02	661624	17.06
		LOWER LIMIT	408612	10.85	805557	11.69	729797	14.52	330812	16.56
		UPPER LIMIT	1634446	11.85	3222228	12.69	2919188	15.52	1323248	17.56
004	CCV		1016178	11.35	1897450	12.19	1788224	15.02	802810	17.06
005	BS	QC716622	1013278	11.35	1890487	12.19	1765033	15.02	804837	17.06
006	BSD	QC716623	1024587	11.35	1912336	12.19	1783344	15.02	815677	17.06
008	BLANK	QC716624	922387	11.35	1863340	12.19	1671825	15.02	740951	17.06
009	SAMPLE	250624-031	908735	11.36	1812641	12.19	1641509	15.02	711445	17.06
010	SAMPLE	250558-008	888699	11.36	1796128	12.19	1611951	15.02	694265	17.06
011	SAMPLE	250710-001	867309	11.36	1788605	12.19	1603067	15.02	709565	17.06
012	SAMPLE	250710-002	860811	11.36	1768934	12.19	1564691	15.02	674374	17.06
013	SAMPLE	250710-003	917403	11.35	1776286	12.19	1579915	15.02	672051	17.06
014	SAMPLE	250710-004	909664	11.35	1743595	12.19	1566004	15.02	670296	17.06
015	SAMPLE	250710-005	876222	11.36	1756058	12.19	1580314	15.02	692885	17.06
016	SAMPLE	250710-007	847456	11.36	1759885	12.19	1559404	15.02	663904	17.06
017	SAMPLE	250710-009	872647	11.35	1757451	12.19	1564399	15.02	684198	17.06
018	SAMPLE	250710-010	823014	11.36	1734538	12.19	1548125	15.02	695686	17.06
019	SAMPLE	250710-011	873944	11.36	1708875	12.19	1529555	15.02	665390	17.06
020	SAMPLE	250710-012	912356	11.35	1744160	12.19	1562095	15.02	670278	17.06
021	SAMPLE	250710-013	829309	11.36	1732944	12.19	1547179	15.02	676773	17.06
022	SAMPLE	250532-017	823409	11.36	1727131	12.19	1546563	15.02	657199	17.06
023	SAMPLE	250624-042	885823	11.35	1722146	12.19	1567706	15.02	654828	17.06
024	SAMPLE	250624-025	873216	11.35	1726218	12.19	1571745	15.02	674651	17.06
025	SAMPLE	250624-032	880003	11.36	1754645	12.19	1588097	15.02	668310	17.06
026	SAMPLE	250624-035	905343	11.36	1742470	12.19	1542004	15.02	659948	17.06
027	SAMPLE	250710-006	898523	11.36	1730956	12.19	1551479	15.02	679087	17.06
028	SAMPLE	250710-008	849810	11.36	1720927	12.19	1520316	15.02	652067	17.06

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 413458513

Instrument : MSVOA02 Begun : 11/14/13 09:53
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	bke01	TUN	BFB			11/14/13 09:53	1.0	1	
002	bke02	IB				11/14/13 11:12	1.0	2	
003	bke03	IB				11/14/13 11:47	1.0	2	
004	bke04	IB	CALIB IB			11/14/13 12:22	1.0	2	
005	bke05	ICAL	.25/.5PPB			11/14/13 12:57	1.0	3 4 5 6 2	
006	bke06	ICAL	.5/1PPB			11/14/13 13:32	1.0	2 3 4 5 6	
007	bke07	ICAL	2PPB			11/14/13 14:07	1.0	3 4 7 8 2	
008	bke08	ICAL	5PPB			11/14/13 14:42	1.0	2 3 4 7 8	
009	bke09	ICAL	10PPB			11/14/13 15:17	1.0	2 3 4 7 8	
010	bke10	ICAL	20PPB			11/14/13 15:52	1.0	2 3 4 7 8	
011	bke11	ICAL	50PPB			11/14/13 16:27	1.0	2 3 4 7 8	
012	bke12	ICAL	75PPB			11/14/13 17:02	1.0	2 3 4 7 8	
013	bke13	ICAL	100PPB			11/14/13 17:37	1.0	2 3 4 7 8	
014	bke14	ICV	GAS			11/14/13 18:13	1.0	9 2	

BO 11/15/13 : Seq. stopped due to A/S error

Analyst: BO Date: 11/15/13 Reviewer: LW Date: 11/18/13

Standards used: 1=S22624 2=S23570 3=S22433 4=S23518 5=S23611 6=S21354 7=S23517 8=S23472 9=S23276

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 413459992

Instrument : MSVOA02 Begun : 11/15/13 10:32
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
003	bkf03	TUN	BFB			11/15/13 10:32	1.0	1	
004	bkf04	CCV	20PPB			11/15/13 10:49	1.0	2 3 4 5 6	
005	bkf05	TUN	BFB			11/15/13 11:49	1.0	1	
006	bkf06	CCV	15PPB			11/15/13 12:05	1.0	2 3 4 5 6	
007	bkf07	ICV	2CLEVE			11/15/13 13:25	1.0	7 6	
008	bkf08	ICV	MIX			11/15/13 14:00	1.0	8 9 10 6	
009	bkf09	IB				11/15/13 15:09	1.0	6	
010	bkf10	BLANK	QC716398	Water	205123	11/15/13 15:44	1.0	6	
011	bkf11	LOD	216939-021	Water	205123	11/15/13 16:19	1.0	11 3 4 5 6	
012	bkf12	LOD	216939-021	Water	205123	11/15/13 16:54	1.0	11 3 4 5 6	
013	bkf13	LOD	216939-021	Water	205123	11/15/13 17:28	1.0	11 3 4 5 6	
014	bkf14	LOD	216939-021	Water	205123	11/15/13 18:02	1.0	11 3 4 5 6	
015	bkf15	LOD	216939-021	Water	205123	11/15/13 18:36	1.0	11 3 4 5 6	
016	bkf16	TUN	BFB			11/15/13 19:14	1.0	1	
017	bkf17	CCV/BS	QC716396	Water	205123	11/15/13 20:11	1.0	8 9 10 12 6	
018	bkf18	BSD	QC716397	Water	205123	11/15/13 20:45	1.0	8 9 10 12 6	
019	bkf19	IB				11/15/13 21:20	1.0	6	
020	bkf20	BLANK	QC716399	Water	205123	11/15/13 21:54	1.0	6	
021	bkf21	SAMPLE	250614-002	Water	205123	11/15/13 22:29	1.0	6	
022	bkf22	SAMPLE	250614-003	Water	205123	11/15/13 23:03	1.0	6	
023	bkf23	SAMPLE	250614-001	Water	205123	11/15/13 23:38	1.0	6	
024	bkf24	SAMPLE	250557-001	Water	205123	11/16/13 00:13	1.0	6	
025	bkf25	SAMPLE	250557-002	Water	205123	11/16/13 00:48	1.0	6	
026	bkf26	SAMPLE	250557-003	Water	205123	11/16/13 01:22	1.0	6	
027	bkf27	SAMPLE	250557-004	Water	205123	11/16/13 01:56	1.0	6	
028	bkf28	SAMPLE	250557-005	Water	205123	11/16/13 02:31	1.0	6	
029	bkf29	SAMPLE	250557-006	Water	205123	11/16/13 03:06	1.0	6	
030	bkf30	SAMPLE	250557-007	Water	205123	11/16/13 03:40	1.0	6	
031	bkf31	SAMPLE	250557-008	Water	205123	11/16/13 04:15	1.0	6	
032	bkf32	SAMPLE	250557-009	Water	205123	11/16/13 04:49	1.0	6	
033	bkf33	SAMPLE	250557-011	Water	205123	11/16/13 05:23	1.0	6	1:TCE=110
034	bkf34	SAMPLE	250557-012	Water	205123	11/16/13 05:58	1.0	6	1:TCE=110
035	bkf35	SAMPLE	250557-013	Water	205123	11/16/13 06:32	1.0	6	
036	bkf36	SAMPLE	250614-004	Water	205123	11/16/13 07:06	1.0	6	
037	bkf37	SAMPLE	250614-005	Water	205123	11/16/13 07:40	1.0	6	<<t
038	bkf38	IB				11/16/13 08:15	1.0	6	<<t
039	bkf39	IB				11/16/13 08:49	1.0	6	<<t
040	bkf40	IB				11/16/13 09:23	1.0	6	<<t

BO 11/18/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 40.

BO 11/18/13 : bkf01, bkf02 are not in LIMS due to the wrong method being used in chemstation

KKM 11/19/13 : Matrix spikes were not performed for this analysis in batch 205123 due to insufficient sample amount.

Analyst: KKM Date: 11/19/13 Reviewer: LW Date: 11/19/13

Standards used: 1=S22624 2=S22433 3=S23518 4=S23611 5=S21354 6=S23570 7=S21043 8=S23599 9=S23592 10=S23417 11=S22790 12=S23276

Flags used: <<t=out of clock

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 413464100

Instrument : MSVOA02 Begun : 11/18/13 07:00
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	bki01	X	IB			11/18/13 07:00	1.0	1	
002	bki02	TUN	BFB			11/18/13 08:06	1.0	2	
003	bki03	CCV	15PPB			11/18/13 08:42	1.0	3 4 5 6 1	
004	bki04	BS	QC716593	Water	205176	11/18/13 09:37	1.0	7 8 9 10 1	
005	bki05	BSD	QC716594	Water	205176	11/18/13 10:12	1.0	7 8 9 10 1	
006	bki06	X	IB			11/18/13 10:47	1.0	1	
007	bki07	BLANK	QC716595	Water	205176	11/18/13 11:21	1.0	1	
008	bki08	SAMPLE	250558-001	Water	205176	11/18/13 11:56	1.0	1	
009	bki09	SAMPLE	250592-019	Water	205176	11/18/13 12:30	1.0	1	
010	bki10	SAMPLE	250592-021	Water	205176	11/18/13 13:05	1.0	1	
011	bki11	SAMPLE	250592-024	Water	205176	11/18/13 13:40	16.67	1	
012	bki12	SAMPLE	250592-023	Water	205176	11/18/13 14:14	14.29	1	
013	bki13	SAMPLE	250592-022	Water	205176	11/18/13 14:49	125.0	1	
014	bki14	SAMPLE	250592-020	Water	205176	11/18/13 15:24	200.0	1	
015	bki15	SAMPLE	250592-018	Water	205176	11/18/13 15:59	33.33	1	
016	bki16	SAMPLE	250592-017	Water	205176	11/18/13 16:33	5.0	1	
017	bki17	SAMPLE	250592-025	Water	205176	11/18/13 17:08	5.0	1	1:TCE=110
018	bki18	SAMPLE	250592-010	Water	205176	11/18/13 17:42	7.143	1	
019	bki19	SAMPLE	250592-009	Water	205176	11/18/13 18:17	7.143	1	
020	bki20	SAMPLE	250592-001	Water	205176	11/18/13 18:52	2.0	1	
021	bki21	SAMPLE	250532-013	Water	205176	11/18/13 19:27	3.333	1	
022	bki22	SAMPLE	250697-001	Water	205176	11/18/13 20:02	83.33	1	1:TCE=310
023	bki23	X	IB			11/18/13 20:37	1.0	1	
024	bki24	X	IB			11/18/13 21:13	1.0	1	
025	bki25	X	IB			11/18/13 21:48	1.0	1	
026	bki26	X	IB			11/18/13 22:23	1.0	1	

MCT 11/19/13 : Matrix spikes were not performed for this analysis in batch 205176 due to insufficient sample amount.

MCT 11/19/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 26.

Analyst: MCT Date: 11/19/13 Reviewer: LW Date: 11/19/13

Standards used: 1=S23570 2=S22624 3=S23517 4=S21354 5=S23518 6=S22790 7=S23417 8=S23276 9=S23592 10=S23599

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 943418066

Instrument : MSVOA13 Begun : 10/17/13 07:46
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	mjh01	IB	IB			10/17/13 07:46	1.0	1	?t
002	mjh02	IB	IB			10/17/13 08:14	1.0	1	?t
003	mjh03	TUN	BFB			10/17/13 10:54	1.0	2	
004	mjh04	TUN	BFB			10/17/13 11:38	1.0	2	
005	mjh05	TUN	BFB			10/17/13 20:02	1.0	2	
006	mjh06	IB	IB			10/17/13 20:25	1.0	1	
007	mjh07	IB	IB			10/17/13 20:54	1.0	1	
008	mjh08	IB	IB			10/17/13 21:24	1.0	1	
009	mjh09	IB	CALIB IB			10/17/13 21:54	1.0	1	
010	mjh10	ICAL	.25/.5PPB			10/17/13 22:24	1.0	3 4 5 6 1	
011	mjh11	ICAL	0.5/1PPB			10/17/13 22:53	1.0	3 4 5 6 1	
012	mjh12	ICAL	2PPB			10/17/13 23:21	1.0	3 4 5 6 1	
013	mjh13	ICAL	5PPB			10/17/13 23:50	1.0	3 4 5 6 1	
014	mjh14	ICAL	10PPB			10/18/13 00:19	1.0	3 4 5 6 1	
015	mjh15	ICAL	20PPB			10/18/13 00:48	1.0	3 4 5 6 1	
016	mjh16	ICAL	50PPB			10/18/13 01:17	1.0	3 4 5 6 1	
017	mjh17	ICAL	75PPB			10/18/13 01:46	1.0	3 4 5 6 1	
018	mjh18	ICAL	100PPB			10/18/13 02:16	1.0	3 4 5 6 1	
019	mjh19	ICV	20PPB			10/18/13 02:45	1.0	7 1	
020	mjh20	ICV	25PPB			10/18/13 03:13	1.0	8 9 10 1	
021	mjh21	IB	IB			10/18/13 03:42	1.0	1	
022	mjh22	IB	IB			10/18/13 04:11	1.0	1	
023	mjh23	IB	IB			10/18/13 04:39	1.0	1	

MCT 10/18/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 23.

Analyst: MCT Date: 10/18/13 Reviewer: SJD Date: 10/18/13

Standards used: 1=S23261 2=S22624 3=S22433 4=S23293 5=S23280 6=S22004 7=S23005 8=S23411 9=S23288 10=S23417

Flags used: ?t=missing tune

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 943459724

Instrument : MSVOA13 Begun : 11/15/13 06:04
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	mkf01	X	IB			11/15/13 06:04	1.0	1	
002	mkf02	X	IB			11/15/13 06:32	1.0	1	
003	mkf03	TUN	BFB			11/15/13 07:01	1.0	2	t
004	mkf04	TUN	BFB			11/15/13 07:19	1.0	2	t
005	mkf05	TUN	BFB			11/15/13 07:31	1.0	2	t
006	mkf06	TUN	BFB			11/15/13 08:05	1.0	2	t
007	mkf07	TUN	BFB			11/15/13 08:16	1.0	2	t
008	mkf08	TUN	BFB			11/15/13 08:32	1.0	2	t
009	mkf09	TUN	BFB			11/15/13 08:41	1.0	2	t
010	mkf10	TUN	BFB			11/15/13 08:52	1.0	2	t
011	mkf11	TUN	BFB			11/15/13 09:05	1.0	2	t
012	mkf12	TUN	BFB			11/15/13 09:30	1.0	2	
013	mkf13	X				11/15/13 09:53	1.0	3 4 5 6 1	cc- cs
014	mkf14	CCV/BS	QC716309	Water	205101	11/15/13 10:39	1.0	7 8 9 10 1	cc-
015	mkf15	TUN	BFB			11/15/13 13:13	1.0	2	
016	mkf16	CCV/BS	QC716309	Water	205101	11/15/13 13:37	1.0	7 8 9 10 1	
017	mkf17	BSD	QC716310	Water	205101	11/15/13 14:19	1.0	7 8 9 10 1	
018	mkf18	X	IB			11/15/13 14:46	1.0	1	
019	mkf19	BLANK	QC716311	Water	205101	11/15/13 15:14	1.0	1	
020	mkf20	SAMPLE	250624-044	Water	205101	11/15/13 15:42	1.0	1	
021	mkf21	SAMPLE	250558-011	Water	205101	11/15/13 16:09	1.0	1	
022	mkf22	SAMPLE	250538-001	Water	205101	11/15/13 16:36	1.0	1	
023	mkf23	SAMPLE	250624-041	Water	205101	11/15/13 17:03	1.0	1	
024	mkf24	SAMPLE	250624-043	Water	205101	11/15/13 17:31	1.0	1	
025	mkf25	SAMPLE	250624-045	Water	205101	11/15/13 17:58	1.0	1	
026	mkf26	SAMPLE	250558-002	Water	205101	11/15/13 18:25	1.0	1	
027	mkf27	SAMPLE	250558-004	Water	205101	11/15/13 18:52	1.0	1	
028	mkf28	SAMPLE	250558-001	Water	205101	11/15/13 19:20	1.0	1	
029	mkf29	SAMPLE	250558-003	Water	205101	11/15/13 19:47	1.0	1	
030	mkf30	SAMPLE	250558-005	Water	205101	11/15/13 20:15	1.0	1	
031	mkf31	SAMPLE	250558-006	Water	205101	11/15/13 20:42	1.0	1	
032	mkf32	SAMPLE	250558-007	Water	205101	11/15/13 21:10	1.0	1	
033	mkf33	SAMPLE	250558-009	Water	205101	11/15/13 21:37	1.0	1	
034	mkf34	SAMPLE	250558-010	Water	205101	11/15/13 22:04	1.0	1	
035	mkf35	SAMPLE	250558-008	Water	205101	11/15/13 22:31	2.0	1	
036	mkf36	SAMPLE	250624-025	Water	205101	11/15/13 22:59	7.143	1	1:PCE=100
037	mkf37	SAMPLE	250624-042	Water	205101	11/15/13 23:26	40.0	1	1:PCE=120
038	mkf38	SAMPLE	250624-014	Water	205101	11/15/13 23:53	50.0	1	
039	mkf39	SAMPLE	250624-040	Water	205101	11/16/13 00:21	3.333	1	
040	mkf40	IB				11/16/13 00:49	1.0	1	
041	mkf41	IB				11/16/13 01:17	1.0	1	<<t
042	mkf42	IB				11/16/13 01:44	1.0	1	<<t

MCT 11/15/13 : Adjusted tune : file mkf05,mkf07,mkf09,mkf11.

MCT 11/18/13 : Adjusted tune : file mkf15.

MCT 11/18/13 : Matrix spikes were not performed for this analysis in batch 205101 due to insufficient sample amount.

MCT 11/18/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 42.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 943459724

Instrument : MSVOA13 Begun : 11/15/13 06:04
Method : EPA 8260B SOP Version : TVH_8260B_rv1

Analyst: MCT Date: 11/18/13 Reviewer: LW Date: 11/18/13

Standards used: 1=S23550 2=S22624 3=S22433 4=S23293 5=S23611 6=S22004 7=S23411 8=S23592 9=S23417 10=S22793

Flags used: -=low bias <<t=out of clock cc=CCV CCC failure cs=CCV SPCC failure t=tune failure

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 943464144

Instrument : MSVOA13 Begun : 11/18/13 07:44
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	mki01	X	HIGH GASES			11/18/13 07:44	1.0	1	
002	mki02	X	IB			11/18/13 08:11	1.0	1	
003	mki03	TUN	BFB			11/18/13 08:45	1.0	2	
004	mki04	CCV				11/18/13 09:11	1.0	3 4 5 6 1	
005	mki05	BS	QC716622	Water	205183	11/18/13 09:58	1.0	7 8 9 10 1	spk
006	mki06	BSD	QC716623	Water	205183	11/18/13 10:25	1.0	7 8 9 10 1	
007	mki07	X	IB			11/18/13 10:53	1.0	1	
008	mki08	BLANK	QC716624	Water	205183	11/18/13 11:21	1.0	1	
009	mki09	SAMPLE	250624-031	Water	205183	11/18/13 11:48	1.0	1	
010	mki10	SAMPLE	250558-008	Water	205183	11/18/13 12:16	1.0	1	1:TCE=110
011	mki11	SAMPLE	250710-001	Water	205183	11/18/13 12:43	1.0	1	
012	mki12	SAMPLE	250710-002	Water	205183	11/18/13 13:11	1.0	1	
013	mki13	SAMPLE	250710-003	Water	205183	11/18/13 13:38	1.0	1	
014	mki14	SAMPLE	250710-004	Water	205183	11/18/13 14:07	1.0	1	
015	mki15	SAMPLE	250710-005	Water	205183	11/18/13 14:34	1.0	1	
016	mki16	SAMPLE	250710-007	Water	205183	11/18/13 15:02	1.0	1	
017	mki17	SAMPLE	250710-009	Water	205183	11/18/13 15:30	1.0	1	
018	mki18	SAMPLE	250710-010	Water	205183	11/18/13 15:58	1.0	1	
019	mki19	SAMPLE	250710-011	Water	205183	11/18/13 16:25	1.0	1	
020	mki20	SAMPLE	250710-012	Water	205183	11/18/13 16:53	1.0	1	
021	mki21	SAMPLE	250710-013	Water	205183	11/18/13 17:20	1.0	1	
022	mki22	SAMPLE	250532-017	Water	205183	11/18/13 17:48	10.0	1	
023	mki23	SAMPLE	250624-042	Water	205183	11/18/13 18:16	100.0	1	
024	mki24	SAMPLE	250624-025	Water	205183	11/18/13 18:43	10.0	1	
025	mki25	SAMPLE	250624-032	Water	205183	11/18/13 19:12	25.0	1	
026	mki26	SAMPLE	250624-035	Water	205183	11/18/13 19:40	62.50	1	
027	mki27	SAMPLE	250710-006	Water	205183	11/18/13 20:09	2.0	1	
028	mki28	SAMPLE	250710-008	Water	205183	11/18/13 20:37	2.0	1	
029	mki29	X	IB			11/18/13 21:06	1.0	1	
030	mki30	X	IB			11/18/13 21:33	1.0	1	
031	mki31	X	IB			11/18/13 22:02	1.0	1	
032	mki32	X	IB			11/18/13 22:30	1.0	1	

MCT 11/19/13 : Matrix spikes were not performed for this analysis in batch 205183 due to insufficient sample amount.

MCT 11/19/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 32.

Analyst: MCT Date: 11/19/13 Reviewer: LW Date: 11/19/13

Standards used: 1=S23550 2=S22624 3=S22433 4=S23293 5=S23611 6=S22004 7=S23411 8=S23592 9=S23417 10=S22793

Flags used: spk=5% spike rule

MSVOA WATER Prepsheet Curtis & Tompkins, Ltd.

Date: 11/15/13 **Batch #:** 205101

	Sample ID	Vial	pH <2	pH (if >2)	HS?	Dil'n flask	MS#	RR	DF	Comments	20 % ccv	hold	due	init date
1	250538-1	B	✓				B		1X					
2	250624-14	A	✓			2			50X					~~7A 11/15~~
3	-25	B	✓			3			7.14X					↓
4	-40	B	✓			2			3.3X	~~farmer~~				11/15
5	-41		✓						1X					
6	-42		✓			4			40X					
7	-43		✓						1X					
8	-44	A	✓						↓	EB				
9	-45	A	✓						↓					
10	250558-1	A	✓			~~4~~ 11/15			1X					
11	-2	A	✓						↓					
12	-3	B	✓						↓					
13	-4	↓	✓						↓					
14	-5	↓	✓						↓					
15	-6	↓	✓						↓					
16	-7	↓	✓						↓					
17	-8	↓	✓			5			2X					
18	-9	↓	✓						1X					
19	-10	A	✓						↓					
20	-11	B	✓						↓	TB				
21														
22														

MSVOA WATER Prepsheet Curtis & Tompkins, Ltd.

Date: 11/18/13 **Batch #:** 205176

	Sample ID	Vial	pH <2	pH (if >2)	HS?	Dil'n flask	MS#	RR	DF	Comments	20 % ccv	hold	due	init date
1	205558-4	B	✓				2	1	1X	WTBE lift, CO				
2	592-17	A	✓			5			5X					ZIA 11/18
3	-18	↓	✓			6			33.3X					↓
4	-19	B	✓						1X					
5	-20		✓			7			200X					ZIA 11/18
6	-21	↓	✓						1X					
7	-22	A	✓			8			125X					ZIA 11/18
8	-23		✓			9			14.2X					
9	-24		✓			10			16.7X					
10	-25	↓	✓			7			5X					
11	-1	B	✓			4			2X	CO.				
12	-9		✓			5			7.14X	OD				
13	-10	↓	✓			6			7.14X	OD				↓
14	532-13	B	✓			2		1	3.3X	CO				
15	-14	↓	✓			3		1	2X	↓ Does not need rerun.				↓
16	697-1	B	✓			7	↓		83.3X					MS 11/18
17														
18														
19														
20														
21														
22														

MSVOA WATER Prepsheet Curtis & Tompkins, Ltd.

Date: 11/18/13 **Batch #:** 205183

	Sample ID	Vial	pH <2	pH (if >2)	HS?	Dil'n flask	MS#	RR	DF	Comments	20 % ccv	hold	due	init date
1	250710-1	B	✓				B		1X					
2	-2	A	✓											
3	-3	B	✓											
4	-4	A	✓											
5	-5		✓											
6	-6		✓			5			2X					MLS 11/18
7	-7		✓						1X					
8	-8		✓			6			2X					MLS 11/18
9	-9		✓						1X					
10	-10		✓											
11	-11		✓											
12	-12	B	✓											
13	-13	A	✓											
14	558-8	C	✓					1	1X	OD				
15	624-31	B	✓					1	1X	OD				
16	-32	C	✓			1		1	25X	PCE > LR				ZIA 11/18
17	-35	C	✓			2		1	62.5X	cis-1,2-DCE > LR				
18	-25		✓			3		1	10X	PCE > LR				
19	-42		✓			4		1	100X					
20	532-17	B	✓			1		1	10X	1,1-DCE, TCE > LR				
21	697-1	B	✓						83.3X	→ SHUT OFF → MOVED TO MS2				
22														

Laboratory Job Number 250558

ANALYTICAL REPORT

Metals

Matrix: Water

Curtis & Tompkins, Ltd.

Chromium

Lab #:	250558	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Batch#:	204934
Matrix:	Water	Sampled:	11/05/13
Units:	ug/L	Received:	11/06/13
Diln Fac:	1.000	Prepared:	11/11/13

Field ID	Type	Lab ID	Result	RL	MDL	Analyzed
AST-INF	SAMPLE	250558-001	75	5.0	0.69	11/12/13
AST-EFF	SAMPLE	250558-002	67	5.0	0.63	11/12/13
GAC-02 INF	SAMPLE	250558-003	21	5.0	0.69	11/13/13
GAC-02 EFF	SAMPLE	250558-004	2.2 J	5.0	0.69	11/13/13
E-07R	SAMPLE	250558-005	41	5.0	0.69	11/13/13
E-12	SAMPLE	250558-008	32	5.0	0.69	11/13/13
E-17	SAMPLE	250558-009	140	5.0	0.69	11/13/13
E-117	SAMPLE	250558-010	140	5.0	0.69	11/13/13
	BLANK	QC715643	ND	5.0	0.69	11/12/13

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Chromium

Lab #:	250558	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Sampled:	11/05/13
Matrix:	Water	Received:	11/06/13
Units:	ug/L	Prepared:	11/11/13
Diln Fac:	1.000	Analyzed:	11/12/13
Batch#:	204934		

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
	BS		QC715644		200.0	203.9	102	80-120		
	BSD		QC715645		200.0	201.6	101	80-120	1	20
GAC-03	MS	250555-005	QC715646	84.35	200.0	306.2	111	80-120		
GAC-03	MSD	250555-005	QC715647		200.0	275.2	95	80-120	11	20
NE-02	MS	250555-006	QC715648	8.727	200.0	220.9	106	80-120		
NE-02	MSD	250555-006	QC715649		200.0	221.6	106	80-120	0	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Chromium

Lab #:	250558	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	NE-02	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	204934
MSS Lab ID:	250555-006	Sampled:	11/05/13
Lab ID:	QC715650	Received:	11/06/13
Matrix:	Water	Analyzed:	11/12/13

MSS Result	MSS RL	Result	RL	% Diff	Lim
8.727	5.000	9.172 J	25.00	NC	10

J= Estimated value
NC= Not Calculated
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Chromium

Lab #:	250558	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	NE-02	Diln Fac:	1.000
Type:	Post Digest Spike	Batch#:	204934
MSS Lab ID:	250555-006	Sampled:	11/05/13
Lab ID:	QC715651	Received:	11/06/13
Matrix:	Water	Analyzed:	11/12/13

MSS Result	Spiked	Result	%REC	Limits
8.727	200.0	221.5	106	75-125

REPORTING SUMMARY FOR 250558 METALS Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CR	
250558-001	MET08	11/12/13 12:33	1.0	+	
250558-002	MET09	11/12/13 16:28	1.0	+	
250558-003	MET08	11/13/13 09:03	1.0	+	
250558-004	MET08	11/13/13 09:07	1.0	+	
250558-005	MET08	11/13/13 09:12	1.0	+	
250558-008	MET08	11/13/13 09:17	1.0	+	
250558-009	MET08	11/13/13 09:22	1.0	+	
250558-010	MET08	11/13/13 09:26	1.0	+	
QC715643	MET08	11/12/13 10:52	1.0	+	
QC715644	MET08	11/12/13 10:57	1.0	+	
QC715645	MET08	11/12/13 11:01	1.0	+	
QC715646	MET08	11/12/13 11:10	1.0	+	
QC715647	MET08	11/12/13 11:14	1.0	+	
QC715648	MET08	11/12/13 11:23	1.0	+	
QC715649	MET08	11/12/13 11:27	1.0	+	
QC715650	MET08	11/12/13 11:31	5.0	+	
QC715651	MET08	11/12/13 11:48	1.0	+	

ICP Data

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 93455411

Instrument : MET09 Begun : 11/12/13 06:11
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	met09_sn	ICALBLK				11/12/13 06:11	1.0		
002	met09_sn	ICAL	CRI5.1			11/12/13 06:16	1.0	1	
003	met09_sn	ICAL	CS100			11/12/13 06:21	1.0	2	
004	met09_sn	ICAL	CS1K			11/12/13 06:26	1.0	3	
005	met09_sn	ICAL	CS10K			11/12/13 06:30	1.0	4	
006	met09_sn	ICAL	CS100K			11/12/13 06:36	1.0	5	
007	met09_sn	XICV				11/12/13 06:43	1.0	6	
008	met09_sn	ICV				11/12/13 06:48	1.0	6	
009	met09_sn	XCRI				11/12/13 07:00	1.0	7	
010	met09_sn	CRI				11/12/13 07:13	1.0	7	
011	met09_sn	ICB				11/12/13 07:22	1.0		
012	met09_sn	ICSA				11/12/13 07:27	1.0	8	10:AL=500000
013	met09_sn	ICSAB				11/12/13 07:47	1.0	9	5:AL=500000
014	met09_sn	BLANK	QC715524	WET DI Leachate	204907	11/12/13 07:55	1.0		
015	met09_sn	BS	QC715525	WET DI Leachate	204907	11/12/13 08:00	1.0		
016	met09_sn	BSD	QC715526	WET DI Leachate	204907	11/12/13 08:05	1.0		
017	met09_sn	MSS	250569-001	WET DI Leachate	204907	11/12/13 08:12	1.0		2:CA=400000
018	met09_sn	MS	QC715527	WET DI Leachate	204907	11/12/13 08:21	1.0		
019	met09_sn	MSD	QC715528	WET DI Leachate	204907	11/12/13 08:29	1.0		
020	met09_sn	BLANK	QC715553	TCLP Leachate	204915	11/12/13 08:36	10.0		1:NA=150000
021	met09_sn	BS	QC715554	TCLP Leachate	204915	11/12/13 08:45	1.0		
022	met09_sn	CCV				11/12/13 08:49	1.0	10	
023	met09_sn	CCB				11/12/13 08:56	1.0		
024	met09_sn	BSD	QC715555	TCLP Leachate	204915	11/12/13 09:01	1.0		
025	met09_sn	MSS	250643-001	TCLP Leachate	204915	11/12/13 09:05	10.0		1:NA=160000
026	met09_sn	MS	QC715556	TCLP Leachate	204915	11/12/13 09:13	10.0		
027	met09_sn	MSD	QC715557	TCLP Leachate	204915	11/12/13 09:21	10.0		
028	met09_sn	BLANK	QC715553	TCLP Leachate	204915	11/12/13 09:29	10.0		1:NA=140000
029	met09_sn	SER	QC715558	TCLP Leachate	204915	11/12/13 09:37	50.0		
030	met09_sn	PDS	QC715559	TCLP Leachate	204915	11/12/13 09:43	10.0	11 12	
031	met09_sn	SAMPLE	250573-001	TCLP Leachate	204915	11/12/13 09:50	10.0		1:NA=160000
032	met09_sn	SAMPLE	250573-002	TCLP Leachate	204915	11/12/13 09:59	10.0		1:NA=180000
033	met09_sn	SAMPLE	250573-005	TCLP Leachate	204915	11/12/13 10:08	10.0		1:NA=160000
034	met09_sn	CCV				11/12/13 10:16	1.0	10	
035	met09_sn	CCB				11/12/13 10:23	1.0		
036	met09_sn	ICSAB				11/12/13 10:28	1.0	9	5:AL=480000
037	met09_sn	SAMPLE	250573-006	TCLP Leachate	204915	11/12/13 10:36	10.0		1:NA=140000
038	met09_sn	SAMPLE	250620-015	TCLP Leachate	204915	11/12/13 10:44	10.0		1:NA=160000
039	met09_sn	?SAMPLE	250648-001		204915	11/12/13 10:53	10.0		
040	met09_sn	?SAMPLE	250648-002		204915	11/12/13 11:02	10.0		
041	met09_sn	?SAMPLE	250648-003		204915	11/12/13 11:10	10.0		
042	met09_sn	BLANK	QC715756	Miscell.	204961	11/12/13 11:19	1.0		
043	met09_sn	BS	QC715757	Miscell.	204961	11/12/13 11:24	1.0		
044	met09_sn	BSD	QC715758	Miscell.	204961	11/12/13 11:28	1.0		
045	met09_sn	MSS	250022-250	Soil	204961	11/12/13 11:32	1.0		3:FE=390000
046	met09_sn	CCV				11/12/13 11:36	1.0	10	
047	met09_sn	CCB				11/12/13 11:43	1.0		
048	met09_sn	MS	QC715759	Soil	204961	11/12/13 11:48	1.0		
049	met09_sn	MSD	QC715760	Soil	204961	11/12/13 11:52	1.0		
050	met09_sn	MSS	250022-250	Soil	204961	11/12/13 12:00	1.0		3:FE=390000
051	met09_sn	SAMPLE	250705-001	Miscell.	204961	11/12/13 12:04	100.0		
052	met09_sn	SAMPLE	250386-001	Filtrate	204713	11/12/13 12:09	1.0		1:CA=110000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 93455411

Instrument : MET09 Begun : 11/12/13 06:11
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
053	met09_sn	BLANK	QC714321	Filtrate	204623	11/12/13 12:14	1.0		
054	met09_sn	BS	QC714322	Filtrate	204623	11/12/13 12:19	1.0		
055	met09_sn	BSD	QC714323	Filtrate	204623	11/12/13 12:23	1.0		
056	met09_sn	MSS	250342-002	Filtrate	204623	11/12/13 12:27	1.0		2:NA=120000
057	met09_sn	MS	QC714324	Filtrate	204623	11/12/13 12:36	1.0		
058	met09_sn	CCV				11/12/13 12:44	1.0	10	
059	met09_sn	CCB				11/12/13 12:50	1.0		
060	met09_sn	MSD	QC714325	Filtrate	204623	11/12/13 12:55	1.0		
061	met09_sn	ICSAB				11/12/13 13:03	1.0	9	5:AL=500000
062	met09_sn	SAMPLE	250342-001	Filtrate	204623	11/12/13 13:11	1.0		2:NA=130000
063	met09_sn	SAMPLE	250342-004	Filtrate	204623	11/12/13 13:19	1.0		2:NA=150000
064	met09_sn	BLANK	QC715530	Soil	204909	11/12/13 13:28	1.0		
065	met09_sn	BS	QC715531	Soil	204909	11/12/13 13:33	1.0		
066	met09_sn	BSD	QC715532	Soil	204909	11/12/13 13:37	1.0		
067	met09_sn	MSS	250671-001	Soil	204909	11/12/13 13:41	1.0		6:MG=960000
068	met09_sn	MS	QC715533	Soil	204909	11/12/13 13:49	1.0		1:MG=1000000
069	met09_sn	MSD	QC715534	Soil	204909	11/12/13 13:57	1.0		
070	met09_sn	CCV				11/12/13 14:04	1.0	10	
071	met09_sn	CCB				11/12/13 14:11	1.0		
072	met09_sn	ICSAB				11/12/13 14:16	1.0	9	5:AL=470000
073	met09_sn	SER	QC715535	Soil	204909	11/12/13 14:24	5.0		
074	met09_sn	PDS	QC715536	Soil	204909	11/12/13 14:28	1.0	11 12	2:MG=960000
075	met09_sn	SAMPLE	250569-001	Soil	204909	11/12/13 14:36	1.0		4:CA=1200000
076	met09_sn	SAMPLE	250672-021	Soil	204909	11/12/13 14:44	1.0		2:FE=280000
077	met09_sn	SAMPLE	250672-022	Soil	204909	11/12/13 14:48	1.0		3:FE=320000
078	met09_sn	SAMPLE	250672-023	Soil	204909	11/12/13 14:52	1.0		5:FE=480000
079	met09_sn	SAMPLE	250672-024	Soil	204909	11/12/13 14:56	1.0		2:MG=600000
080	met09_sn	SAMPLE	250672-025	Soil	204909	11/12/13 15:00	1.0		2:FE=120000
081	met09_sn	SAMPLE	248735-013	Soil	204909	11/12/13 15:04	1.0		5:FE=680000
082	met09_sn	CCV				11/12/13 15:11	1.0	10	
083	met09_sn	CCB				11/12/13 15:18	1.0		
084	met09_sn	SAMPLE	250593-003	Soil	204909	11/12/13 15:23	1.0		6:FE=730000
085	met09_sn	SAMPLE	250605-001	Soil	204909	11/12/13 15:30	1.0		4:CA=270000
086	met09_sn	SAMPLE	250672-025	Soil	204909	11/12/13 15:37	1.0		2:FE=120000
087	met09_sn	SAMPLE	250630-007	Soil	204909	11/12/13 15:41	1.0		4:FE=400000
088	met09_sn	SAMPLE	250648-001	Soil	204909	11/12/13 15:46	1.0		2:FE=290000
089	met09_sn	SAMPLE	250648-002	Soil	204909	11/12/13 15:50	1.0		2:FE=350000
090	met09_sn	SAMPLE	250648-003	Soil	204909	11/12/13 15:54	1.0		2:FE=330000
091	met09_sn	SAMPLE	250665-017	Soil	204909	11/12/13 15:58	1.0		3:FE=410000
092	met09_sn	SAMPLE	250665-018	Soil	204909	11/12/13 16:02	1.0		3:FE=480000
093	met09_sn	SAMPLE	250665-019	Soil	204909	11/12/13 16:06	1.0		4:FE=460000
094	met09_sn	CCV				11/12/13 16:11	1.0	10	
095	met09_sn	CCB				11/12/13 16:17	1.0		
096	met09_sn	SAMPLE	250665-020	Soil	204909	11/12/13 16:22	1.0		3:FE=450000
097	met09_sn	SAMPLE	250558-002	Water	204934	11/12/13 16:28	1.0		3:NA=360000
098	met09_sn	ICSAB				11/12/13 16:37	1.0	9	5:AL=480000
099	met09_sn	XSAMPLE	250558-003	Water	204934	11/12/13 16:44	1.0		1:CA=200000
100	met09_sn	XSAMPLE	250558-004	Water	204934	11/12/13 16:49	1.0		1:CA=200000
101	met09_sn	XSAMPLE	250558-008	Water	204934	11/12/13 16:55	1.0		
102	met09_sn	XSAMPLE	250558-009	Water	204934	11/12/13 17:03	1.0		
103	met09_sn	XSAMPLE	250558-010	Water	204934	11/12/13 17:12	1.0		
104	met09_sn	XSAMPLE	250557-005	Filtrate	204944	11/12/13 17:21	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 93455411

Instrument : MET09 Begun : 11/12/13 06:11
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
105	met09_sn	CCV				11/12/13 17:29	1.0	10	
106	met09_sn	CCB				11/12/13 17:36	1.0		
107	met09_sn	XSAMPLE	250557-006	Filtrate	204944	11/12/13 17:41	1.0		
108	met09_sn	XSAMPLE	250557-007	Filtrate	204944	11/12/13 17:50	1.0		
109	met09_sn	XSAMPLE	250557-008	Filtrate	204944	11/12/13 17:59	1.0		
110	met09_sn	XSAMPLE	250557-009	Filtrate	204944	11/12/13 18:07	1.0		
111	met09_sn	XSAMPLE	250557-011	Filtrate	204944	11/12/13 18:16	1.0		
112	met09_sn	XSAMPLE	250557-012	Filtrate	204944	11/12/13 18:25	1.0		
113	met09_sn	XSAMPLE	250557-013	Filtrate	204944	11/12/13 18:33	1.0		
114	met09_sn	XSAMPLE	250590-002	Filtrate	204944	11/12/13 18:42	1.0		
115	met09_sn	CCV				11/12/13 18:47	1.0	10	
116	met09_sn	CCB				11/12/13 18:54	1.0		

NT 11/13/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 116.

CRT 11/12/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 38 through 72.

Standards used: 1=S23297 2=S23299 3=S23298 4=S23300 5=S23301 6=S23304 7=S23306 8=S23302 9=S23303 10=S23305 11=S23461 12=S23462

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 93455411

Date : 11/12/13 Reference : met09_sn
Sequence : MET09 11/12/13 Analyzed : 11/12/13 06:16

#	Type	Sample ID	Y A
		ICAL STD	3026395
		LOWER LIMIT	907918
		UPPER LIMIT	6052789
011	ICB		3022316
012	ICSA		2775162
013	ICSAB		2777443
014	BLANK	QC715524	3137421
015	BS	QC715525	3030284
016	BSD	QC715526	3073668
017	MSS	250569-001	3081294
018	MS	QC715527	3068171
019	MSD	QC715528	3117892
020	BLANK	QC715553	3141162
021	BS	QC715554	3168287
022	CCV		3159380
023	CCB		3167586
024	BSD	QC715555	3157608
025	MSS	250643-001	3102352
026	MS	QC715556	3096269
027	MSD	QC715557	3109837
028	BLANK	QC715553	3121879
029	SER	QC715558	3149039
030	PDS	QC715559	3096463
034	CCV		3215552
035	CCB		3146795
036	ICSAB		2887165
038	SAMPLE	250620-015	3205463
042	BLANK	QC715756	3200056
043	BS	QC715757	3155088
044	BSD	QC715758	3132578
046	CCV		3150420
047	CCB		3120470
048	MS	QC715759	3152861
049	MSD	QC715760	3201330
051	SAMPLE	250705-001	3153764
052	SAMPLE	250386-001	3189387
053	BLANK	QC714321	3232021
054	BS	QC714322	3166595
055	BSD	QC714323	3179866
056	MSS	250342-002	3135726
057	MS	QC714324	3116004
058	CCV		3126823
059	CCB		3145816
060	MSD	QC714325	3103555
061	ICSAB		2831361
062	SAMPLE	250342-001	3133086
063	SAMPLE	250342-004	3186909
064	BLANK	QC715530	3146939
065	BS	QC715531	3211229
066	BSD	QC715532	3183699
068	MS	QC715533	3017986

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 93455411

Date : 11/12/13 Reference : met09_sn
Sequence : MET09 11/12/13 Analyzed : 11/12/13 06:16

#	Type	Sample ID	Y A
069	MSD	QC715534	2962142
070	CCV		3181240
071	CCB		3174117
072	ICSAB		2895331
073	SER	QC715535	3083839
074	PDS	QC715536	2974319
075	SAMPLE	250569-001	2908083
076	SAMPLE	250672-021	3253105
077	SAMPLE	250672-022	3293408
078	SAMPLE	250672-023	3293381
079	SAMPLE	250672-024	3047548
080	SAMPLE	250672-025	3182212
082	CCV		3149468
083	CCB		3179577
084	SAMPLE	250593-003	3174563
085	SAMPLE	250605-001	3173886
086	SAMPLE	250672-025	3071636
087	SAMPLE	250630-007	3095014
088	SAMPLE	250648-001	3183230
089	SAMPLE	250648-002	3265453
090	SAMPLE	250648-003	3298563
091	SAMPLE	250665-017	3168301
092	SAMPLE	250665-018	3214185
093	SAMPLE	250665-019	3142098
094	CCV		3107891
095	CCB		3110409
096	SAMPLE	250665-020	3167635
097	SAMPLE	250558-002	3022538
098	ICSAB		2863694
105	CCV		3102445
106	CCB		3087606
115	CCV		3050527
116	CCB		3103171

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 250558 METALS Water: EPA 6010B

Inst : MET09 Reviewer : ---
Calnum : 93455411001 Date : 12-NOV-2013 06:11
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	met09_sn	93455411002	CRI5.1	12-NOV-2013 06:16	S23297
L2	met09_sn	93455411003	CS100	12-NOV-2013 06:21	S23299
L3	met09_sn	93455411004	CS1K	12-NOV-2013 06:26	S23298
L4	met09_sn	93455411005	CS10K	12-NOV-2013 06:30	S23300
L5	met09_sn	93455411006	CS100K	12-NOV-2013 06:36	S23301

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Chromium	A	138.68	165.50	159.34	155.98		LOR0	0.00000	0.00641		154.87	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Chromium	A	5.0000	-11	100.00	6	1000.0	2	10000	0		

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 250558 METALS Water
EPA 6010B

Inst : MET09
Calnum : 93455411001 Cal Date : 12-NOV-2013

ICV 93455411008 (12-NOV-2013) stds: S23304

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Chromium	A	5000	4878	ug/L	-2	10	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250558 METALS Water
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93455411011.1 File : met09_sn Time : 12-NOV-2013 07:22
Cal : 93455411001 Caldate : 12-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.252	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3026395	3022316	-0.13

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR 250558 METALS Water
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93455411012.1 File : met09_sn Time : 12-NOV-2013 07:27
Cal : 93455411001 Caldate : 12-NOV-2013
Standards: S23302

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	18970	ug/L	95
Copper	A	20000	20020	ug/L	100
Manganese	A	20000	17490	ug/L	87
Nickel	A	20000	17440	ug/L	87
Vanadium	A	20000	19860	ug/L	99
Aluminum	R	500000	497600	ug/L	100
Calcium	R	500000	471200	ug/L	94
Iron	R	200000	186600	ug/L	93
Magnesium	R	500000	452600	ug/L	91
Titanium	R	20000	19970	ug/L	100

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3026395	2775162	-8.30

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 250558 METALS Water
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93455411072.1 File : met09_sn Time : 12-NOV-2013 14:16
Cal : 93455411001 Caldate : 12-NOV-2013
Standards: S23303

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	481.5	ug/L	-4	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3026395	2895331	-4.33

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 250558 METALS Water
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93455411094.1 File : met09_sn Time : 12-NOV-2013 16:11
Cal : 93455411001 Caldate : 12-NOV-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	154.87	153.88	5000	4932	ug/L	-1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3026395	3107891	2.69

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250558 METALS Water
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93455411095.1 File : met09_sn Time : 12-NOV-2013 16:17
Cal : 93455411001 Caldate : 12-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.252	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3026395	3110409	2.78

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 250558 METALS Water
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93455411098.2 File : met09_sn Time : 12-NOV-2013 16:37
Cal : 93455411001 Caldate : 12-NOV-2013
Standards: S23303

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	481.7	ug/L	-4	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3026395	2863694	-5.38

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 250558 METALS Water
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93455411105.1 File : met09_sn Time : 12-NOV-2013 17:29
Cal : 93455411001 Caldate : 12-NOV-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	154.87	155.80	5000	4993	ug/L	0	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3026395	3102445	2.51

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250558 METALS Water
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93455411106.1 File : met09_sn Time : 12-NOV-2013 17:36
Cal : 93455411001 Caldate : 12-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.252	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3026395	3087606	2.02

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83455475

Instrument : MET08 Begun : 11/12/13 07:15
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	met08_sn_6010	ICALBLK				11/12/13 07:15	1.0		
002	met08_sn_6010	ICAL	CRI5.1			11/12/13 07:20	1.0	1	
003	met08_sn_6010	ICAL	CS100			11/12/13 07:25	1.0	2	
004	met08_sn_6010	ICAL	CS1K			11/12/13 07:29	1.0	3	
005	met08_sn_6010	ICAL	CS10K			11/12/13 07:33	1.0	4	
006	met08_sn_6010	ICAL	CS100K			11/12/13 07:40	1.0	5	
007	met08_sn_6010	XICV				11/12/13 07:47	1.0	6	
008	met08_sn_6010	ICV				11/12/13 07:53	1.0	6	
009	met08_sn_6010	XCRI				11/12/13 08:00	1.0	7	
010	met08_sn_6010	XCRI				11/12/13 08:09	1.0	7	
011	met08_sn_6010	CRI				11/12/13 08:15	1.0	7	
012	met08_sn_6010	ICB				11/12/13 08:20	1.0		
013	met08_sn_6010	ICSA				11/12/13 08:25	1.0	8	10:AL=510000
014	met08_sn_6010	ICSAB				11/12/13 08:43	1.0	9	5:AL=500000
015	met08_sn_6010	BLANK	QC715684	Filtrate	204944	11/12/13 08:49	1.0		
016	met08_sn_6010	BLANK	QC715689	Filtrate	204944	11/12/13 08:53	1.0		
017	met08_sn_6010	BS	QC715685	Filtrate	204944	11/12/13 08:58	1.0		
018	met08_sn_6010	BSD	QC715686	Filtrate	204944	11/12/13 09:03	1.0		
019	met08_sn_6010	MSS	250590-001	Filtrate	204944	11/12/13 09:07	1.0		1:NA=180000
020	met08_sn_6010	MS	QC715687	Filtrate	204944	11/12/13 09:12	1.0		1:NA=190000
021	met08_sn_6010	MSD	QC715688	Filtrate	204944	11/12/13 09:16	1.0		1:NA=200000
022	met08_sn_6010	SAMPLE	250703-001	Filtrate	204944	11/12/13 09:20	1.0		
023	met08_sn_6010	CCV				11/12/13 09:28	1.0	10	
024	met08_sn_6010	CCB				11/12/13 09:34	1.0		
025	met08_sn_6010	BLANK	QC715684	Filtrate	204944	11/12/13 09:39	1.0		
026	met08_sn_6010	BLANK	QC715684	Filtrate	204944	11/12/13 09:44	1.0		
027	met08_sn_6010	SAMPLE	250703-002	Filtrate	204944	11/12/13 09:49	1.0		1:NA=420000
028	met08_sn_6010	SAMPLE	250703-003	Filtrate	204944	11/12/13 09:54	1.0		1:NA=180000
029	met08_sn_6010	SAMPLE	250703-004	Filtrate	204944	11/12/13 09:59	1.0		1:NA=360000
030	met08_sn_6010	SAMPLE	250703-005	Filtrate	204944	11/12/13 10:03	1.0		2:NA=560000
031	met08_sn_6010	SAMPLE	250703-006	Filtrate	204944	11/12/13 10:11	1.0		2:NA=370000
032	met08_sn_6010	SAMPLE	250557-002	Filtrate	204944	11/12/13 10:15	1.0		2:NA=290000
033	met08_sn_6010	SAMPLE	250557-003	Filtrate	204944	11/12/13 10:20	1.0		2:NA=250000
034	met08_sn_6010	SAMPLE	250557-004	Filtrate	204944	11/12/13 10:25	1.0		2:NA=270000
035	met08_sn_6010	CCV				11/12/13 10:30	1.0	10	
036	met08_sn_6010	CCB				11/12/13 10:37	1.0		
037	met08_sn_6010	ICSAB				11/12/13 10:42	1.0	9	5:AL=510000
038	met08_sn_6010	BLANK	QC715643	Water	204934	11/12/13 10:52	1.0		
039	met08_sn_6010	BS	QC715644	Water	204934	11/12/13 10:57	1.0		
040	met08_sn_6010	BSD	QC715645	Water	204934	11/12/13 11:01	1.0		
041	met08_sn_6010	MSS	250555-005	Water	204934	11/12/13 11:06	1.0		2:CA=230000
042	met08_sn_6010	MS	QC715646	Water	204934	11/12/13 11:10	1.0		1:CA=250000
043	met08_sn_6010	MSD	QC715647	Water	204934	11/12/13 11:14	1.0		1:CA=220000
044	met08_sn_6010	MSS	250555-006	Water	204934	11/12/13 11:18	1.0		2:NA=470000
045	met08_sn_6010	MS	QC715648	Water	204934	11/12/13 11:23	1.0		
046	met08_sn_6010	MSD	QC715649	Water	204934	11/12/13 11:27	1.0		
047	met08_sn_6010	SER	QC715650	Water	204934	11/12/13 11:31	5.0		
048	met08_sn_6010	CCV				11/12/13 11:36	1.0	10	
049	met08_sn_6010	CCB				11/12/13 11:43	1.0		
050	met08_sn_6010	PDS	QC715651	Water	204934	11/12/13 11:48	1.0	11 12	
051	met08_sn_6010	SAMPLE	250704-001	Water	204934	11/12/13 11:53	1.0		2:CA=170000
052	met08_sn_6010	SAMPLE	250555-001	Water	204934	11/12/13 12:00	1.0		3:CA=280000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83455475

Instrument : MET08 Begun : 11/12/13 07:15
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
053	met08_sn_6010	SAMPLE	250704-001	Water	204934	11/12/13 12:04	100.0		
054	met08_sn_6010	SAMPLE	250555-002	Water	204934	11/12/13 12:09	1.0		3:CA=260000
055	met08_sn_6010	SAMPLE	250555-003	Water	204934	11/12/13 12:13	1.0		3:CA=240000
056	met08_sn_6010	SAMPLE	250555-004	Water	204934	11/12/13 12:19	1.0		3:CA=240000
057	met08_sn_6010	SAMPLE	250555-007	Water	204934	11/12/13 12:24	1.0		2:NA=430000
058	met08_sn_6010	SAMPLE	250555-008	Water	204934	11/12/13 12:28	1.0		3:NA=380000
059	met08_sn_6010	SAMPLE	250558-001	Water	204934	11/12/13 12:33	1.0		3:NA=420000
060	met08_sn_6010	CCV				11/12/13 12:38	1.0	10	
061	met08_sn_6010	CCB				11/12/13 12:45	1.0		
062	met08_sn_6010	ICSAB				11/12/13 12:50	1.0	9	5:MG=550000
063	met08_sn_6010	X	RINSE			11/12/13 12:56	1.0		
064	met08_sn_6010	XCCV				11/12/13 12:59	1.0	10	
065	met08_sn_6010	XCCB				11/12/13 13:06	1.0		
066	met08_sn_6010	XCRI				11/12/13 13:43	1.0	7	

NT 11/12/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 37.

CRT 11/12/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 38 through 62.

Standards used: 1=S23297 2=S23299 3=S23298 4=S23300 5=S23301 6=S23304 7=S23306 8=S23302 9=S23303 10=S23305 11=S21652 12=S21653

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83455475

Date : 11/12/13 Reference : met08_sn_6010
Sequence : MET08 11/12/13 Analyzed : 11/12/13 07:20

#	Type	Sample ID	Y A
		ICAL STD	2247081
		LOWER LIMIT	674124
		UPPER LIMIT	4494162
012	ICB		2306766
013	ICSA		2066582
014	ICSAB		2113326
015	BLANK	QC715684	2513069
016	BLANK	QC715689	2309782
017	BS	QC715685	2319667
018	BSD	QC715686	2351028
019	MSS	250590-001	2156240
020	MS	QC715687	2252018
021	MSD	QC715688	2237303
022	SAMPLE	250703-001	2133498
023	CCV		2291704
024	CCB		2274111
025	BLANK	QC715684	2328636
026	BLANK	QC715684	2338005
027	SAMPLE	250703-002	2207087
028	SAMPLE	250703-003	2126821
029	SAMPLE	250703-004	2147927
030	SAMPLE	250703-005	2054284
031	SAMPLE	250703-006	2130707
032	SAMPLE	250557-002	2037300
033	SAMPLE	250557-003	2042260
034	SAMPLE	250557-004	2058917
035	CCV		2293107
036	CCB		2265647
037	ICSAB		2046511
038	BLANK	QC715643	2318513
039	BS	QC715644	2332923
040	BSD	QC715645	2301971
041	MSS	250555-005	2170759
042	MS	QC715646	2110806
043	MSD	QC715647	2137412
044	MSS	250555-006	1987780
045	MS	QC715648	2047130
046	MSD	QC715649	2064432
047	SER	QC715650	2065642
048	CCV		2189217
049	CCB		2139455
050	PDS	QC715651	2035340
051	SAMPLE	250704-001	2187874
052	SAMPLE	250555-001	2093684
053	SAMPLE	250704-001	2125731
054	SAMPLE	250555-002	2074355
055	SAMPLE	250555-003	1945359
056	SAMPLE	250555-004	1966418
057	SAMPLE	250555-007	2010761
058	SAMPLE	250555-008	2081811
059	SAMPLE	250558-001	1902816

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83455475

Date : 11/12/13 Reference : met08_sn_6010
Sequence : MET08 11/12/13 Analyzed : 11/12/13 07:20

#	Type	Sample ID	Y A
060	CCV		2179439
061	CCB		2113282
062	ICSAB		1935892

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 250558 METALS Water: EPA 6010B

Inst : MET08 Reviewer : ---
Calnum : 83455475001 Date : 12-NOV-2013 07:15
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	met08_sn_6010	83455475002	CRI5.1	12-NOV-2013 07:20	S23297
L2	met08_sn_6010	83455475003	CS100	12-NOV-2013 07:25	S23299
L3	met08_sn_6010	83455475004	CS1K	12-NOV-2013 07:29	S23298
L4	met08_sn_6010	83455475005	CS10K	12-NOV-2013 07:33	S23300
L5	met08_sn_6010	83455475006	CS100K	12-NOV-2013 07:40	S23301

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Chromium	A	100.78	93.394	96.805	95.571		LOR0	0.00000	0.01046		96.637	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Chromium	A	5.0000	5	100.00	-2	1000.0	1	10000	0		

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 250558 METALS Water
EPA 6010B

Inst : MET08
Calnum : 83455475001 Cal Date : 12-NOV-2013

ICV 83455475008 (12-NOV-2013) stds: S23304

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Chromium	A	5000	4949	ug/L	-1	10	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250558 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83455475012.1 File : met08_sn_6010 Time : 12-NOV-2013 08:20
Cal : 83455475001 Caldate : 12-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2247081	2306766	2.66

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR 250558 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83455475013.1 File : met08_sn_6010 Time : 12-NOV-2013 08:25
Cal : 83455475001 Caldate : 12-NOV-2013
Standards: S23302

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19030	ug/L	95
Copper	A	20000	19890	ug/L	99
Manganese	A	20000	17950	ug/L	90
Nickel	A	20000	17580	ug/L	88
Vanadium	A	20000	19240	ug/L	96
Aluminum	R	500000	507000	ug/L	101
Calcium	R	500000	495100	ug/L	99
Iron	R	200000	195900	ug/L	98
Magnesium	R	500000	499000	ug/L	100
Titanium	R	20000	19810	ug/L	99

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2247081	2066582	-8.03

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 250558 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83455475035.2 File : met08_sn_6010 Time : 12-NOV-2013 10:30
Cal : 83455475001 Caldate : 12-NOV-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	96.637	94.222	5000	4929	ug/L	-1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2247081	2293107	2.05

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250558 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83455475036.2 File : met08_sn_6010 Time : 12-NOV-2013 10:37
Cal : 83455475001 Caldate : 12-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2247081	2265647	0.83

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 250558 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83455475037.2 File : met08_sn_6010 Time : 12-NOV-2013 10:42
Cal : 83455475001 Caldate : 12-NOV-2013
Standards: S23303

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	496.2	ug/L	-1	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2247081	2046511	-8.93

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 250558 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83455475048.1 File : met08_sn_6010 Time : 12-NOV-2013 11:36
Cal : 83455475001 Caldate : 12-NOV-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	96.637	99.555	5000	5208	ug/L	4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2247081	2189217	-2.58

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250558 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83455475049.1 File : met08_sn_6010 Time : 12-NOV-2013 11:43
Cal : 83455475001 Caldate : 12-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2247081	2139455	-4.79

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 250558 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83455475060.1 File : met08_sn_6010 Time : 12-NOV-2013 12:38
Cal : 83455475001 Caldate : 12-NOV-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	96.637	101.14	5000	5290	ug/L	6	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2247081	2179439	-3.01

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250558 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83455475061.1 File : met08_sn_6010 Time : 12-NOV-2013 12:45
Cal : 83455475001 Caldate : 12-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2247081	2113282	-5.95

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 250558 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83455475062.1 File : met08_sn_6010 Time : 12-NOV-2013 12:50
Cal : 83455475001 Caldate : 12-NOV-2013
Standards: S23303

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	530.2	ug/L	6	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2247081	1935892	-13.85

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83456844

Instrument : MET08 Begun : 11/13/13 06:04
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	met08_sn_6010	ICALBLK				11/13/13 06:04	1.0		
002	met08_sn_6010	ICAL	CRI5.1			11/13/13 06:09	1.0	1	
003	met08_sn_6010	ICAL	CS100			11/13/13 06:14	1.0	2	
004	met08_sn_6010	ICAL	CS1K			11/13/13 06:18	1.0	3	
005	met08_sn_6010	ICAL	CS10K			11/13/13 06:22	1.0	4	
006	met08_sn_6010	ICAL	CS100K			11/13/13 06:29	1.0	5	
007	met08_sn_6010	XICV				11/13/13 06:36	1.0	6	
008	met08_sn_6010	ICV				11/13/13 06:40	1.0	6	
009	met08_sn_6010	XCRI				11/13/13 06:56	1.0	7	
010	met08_sn_6010	CRI				11/13/13 07:06	1.0	7	
011	met08_sn_6010	ICB				11/13/13 07:12	1.0		
012	met08_sn_6010	ICSA				11/13/13 07:17	1.0	8	10:AL=500000
013	met08_sn_6010	ICSAB				11/13/13 07:42	1.0	9	5:CA=490000
014	met08_sn_6010	SAMPLE	250573-005	WET Leachate	204921	11/13/13 07:48	10.0		1:NA=160000
015	met08_sn_6010	SAMPLE	250573-006	WET Leachate	204921	11/13/13 07:56	10.0		1:NA=160000
016	met08_sn_6010	MSS	250590-001	Filtrate	204944	11/13/13 08:00	100.0		
017	met08_sn_6010	SAMPLE	250590-002	Filtrate	204944	11/13/13 08:05	1.0		
018	met08_sn_6010	SAMPLE	250557-005	Filtrate	204944	11/13/13 08:10	1.0		2:NA=300000
019	met08_sn_6010	SAMPLE	250557-006	Filtrate	204944	11/13/13 08:15	1.0		2:NA=330000
020	met08_sn_6010	SAMPLE	250557-007	Filtrate	204944	11/13/13 08:20	1.0		2:NA=390000
021	met08_sn_6010	SAMPLE	250557-008	Filtrate	204944	11/13/13 08:26	1.0		2:NA=390000
022	met08_sn_6010	CCV				11/13/13 08:31	1.0	10	
023	met08_sn_6010	CCB				11/13/13 08:38	1.0		
024	met08_sn_6010	SAMPLE	250557-009	Filtrate	204944	11/13/13 08:43	1.0		2:CA=320000
025	met08_sn_6010	SAMPLE	250557-011	Filtrate	204944	11/13/13 08:48	1.0		2:NA=230000
026	met08_sn_6010	SAMPLE	250557-012	Filtrate	204944	11/13/13 08:53	1.0		2:NA=240000
027	met08_sn_6010	SAMPLE	250557-013	Filtrate	204944	11/13/13 08:58	1.0		2:NA=260000
028	met08_sn_6010	SAMPLE	250558-003	Water	204934	11/13/13 09:03	1.0		1:CA=200000
029	met08_sn_6010	SAMPLE	250558-004	Water	204934	11/13/13 09:07	1.0		1:CA=210000
030	met08_sn_6010	SAMPLE	250558-005	Water	204934	11/13/13 09:12	1.0		2:NA=340000
031	met08_sn_6010	SAMPLE	250558-008	Water	204934	11/13/13 09:17	1.0		3:CA=300000
032	met08_sn_6010	SAMPLE	250558-009	Water	204934	11/13/13 09:22	1.0		3:CA=380000
033	met08_sn_6010	SAMPLE	250558-010	Water	204934	11/13/13 09:26	1.0		3:CA=390000
034	met08_sn_6010	CCV				11/13/13 09:30	1.0	10	
035	met08_sn_6010	CCB				11/13/13 09:37	1.0		
036	met08_sn_6010	MSS	250671-001	Soil	204909	11/13/13 09:42	100.0		
037	met08_sn_6010	ICSAB				11/13/13 09:46	1.0	9	5:MG=480000
038	met08_sn_6010	SER	QC715535	Soil	204909	11/13/13 09:52	500.0		
039	met08_sn_6010	PDS	QC715536	Soil	204909	11/13/13 09:57	100.0	11 12	
040	met08_sn_6010	SAMPLE	248735-013	Soil	204909	11/13/13 10:01	100.0		
041	met08_sn_6010	CCV				11/13/13 10:05	1.0	10	
042	met08_sn_6010	CCB				11/13/13 10:12	1.0		
043	met08_sn_6010	ICSAB				11/13/13 10:17	1.0	9	5:MG=480000
044	met08_sn_6010	SAMPLE	248996-003	Soil	203360	11/13/13 10:28	1.0		5:CA=1000000
045	met08_sn_6010	X	RINSE			11/13/13 10:31	1.0		
046	met08_sn_6010	SAMPLE	248996-004	Soil	203360	11/13/13 10:35	1.0		4:FE=890000
047	met08_sn_6010	X	RINSE			11/13/13 10:42	1.0		
048	met08_sn_6010	SAMPLE	248996-005	Soil	203360	11/13/13 10:46	1.0		5:CA=1500000
049	met08_sn_6010	X	RINSE			11/13/13 10:49	1.0		
050	met08_sn_6010	SAMPLE	248996-006	Soil	203360	11/13/13 10:53	1.0		4:FE=850000
051	met08_sn_6010	X	RINSE			11/13/13 11:00	1.0		
052	met08_sn_6010	CCV				11/13/13 11:04	1.0	10	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83456844

Instrument : MET08 Begun : 11/13/13 06:04
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
053	met08_sn_6010	XCCB				11/13/13 11:10	1.0		
054	met08_sn_6010	CCB				11/13/13 11:13	1.0		
055	met08_sn_6010	SAMPLE	248996-007	Soil	203360	11/13/13 11:17	1.0		4:FE=960000
056	met08_sn_6010	X	RINSE			11/13/13 11:24	1.0		
057	met08_sn_6010	SAMPLE	248996-008	Soil	203360	11/13/13 11:28	1.0		3:FE=970000
058	met08_sn_6010	X	RINSE			11/13/13 11:35	1.0		
059	met08_sn_6010	SAMPLE	248996-009	Soil	203360	11/13/13 11:39	1.0		3:FE=980000
060	met08_sn_6010	X	RINSE			11/13/13 11:45	1.0		
061	met08_sn_6010	SAMPLE	248996-010	Soil	203360	11/13/13 11:49	1.0		6:CA=2000000
062	met08_sn_6010	X	RINSE			11/13/13 11:53	1.0		
063	met08_sn_6010	SAMPLE	248996-011	Soil	203360	11/13/13 11:57	1.0		4:FE=1000000
064	met08_sn_6010	X	RINSE			11/13/13 12:04	1.0		
065	met08_sn_6010	CCV				11/13/13 12:08	1.0	10	
066	met08_sn_6010	XCCB				11/13/13 12:14	1.0		
067	met08_sn_6010	CCB				11/13/13 12:17	1.0		
068	met08_sn_6010	ICSAB				11/13/13 12:21	1.0	9	5:MG=500000
069	met08_sn_6010	SAMPLE	248996-012	Soil	203360	11/13/13 12:28	1.0		5:CA=1300000
070	met08_sn_6010	X	RINSE			11/13/13 12:35	1.0		
071	met08_sn_6010	SAMPLE	248996-013	Soil	203360	11/13/13 12:39	1.0		4:FE=1000000
072	met08_sn_6010	X	RINSE			11/13/13 12:46	1.0		
073	met08_sn_6010	SAMPLE	248996-015	Soil	203360	11/13/13 12:50	1.0		3:FE=1000000
074	met08_sn_6010	X	RINSE			11/13/13 12:57	1.0		
075	met08_sn_6010	SAMPLE	248996-016	Soil	203360	11/13/13 13:00	1.0		5:CA=2100000
076	met08_sn_6010	X	RINSE			11/13/13 13:04	1.0		
077	met08_sn_6010	SAMPLE	248996-017	Soil	203360	11/13/13 13:08	1.0		3:FE=900000
078	met08_sn_6010	X	RINSE			11/13/13 13:14	1.0		
079	met08_sn_6010	CCV				11/13/13 13:18	1.0	10	
080	met08_sn_6010	XCCB				11/13/13 13:25	1.0		
081	met08_sn_6010	CCB				11/13/13 13:28	1.0		
082	met08_sn_6010	SAMPLE	248996-018	Soil	203360	11/13/13 13:32	1.0		3:CA=4000000
083	met08_sn_6010	X	RINSE			11/13/13 13:35	1.0		
084	met08_sn_6010	SAMPLE	248996-019	Soil	203360	11/13/13 13:39	1.0		3:FE=910000
085	met08_sn_6010	X	RINSE			11/13/13 13:43	1.0		
086	met08_sn_6010	SAMPLE	248996-020	Soil	203360	11/13/13 13:47	1.0		4:CA=4100000
087	met08_sn_6010	X	RINSE			11/13/13 13:50	1.0		
088	met08_sn_6010	SAMPLE	248996-021	Soil	203360	11/13/13 13:54	1.0		6:FE=960000
089	met08_sn_6010	X	RINSE			11/13/13 14:01	1.0		
090	met08_sn_6010	X	RINSE			11/13/13 14:05	1.0		
091	met08_sn_6010	CCV				11/13/13 14:09	1.0	10	
092	met08_sn_6010	XCCB				11/13/13 14:15	1.0		
093	met08_sn_6010	CCB				11/13/13 14:18	1.0		
094	met08_sn_6010	XICSAB				11/13/13 14:22	1.0	9	
095	met08_sn_6010	ICSAB				11/13/13 14:32	1.0	9	5:AL=480000

NT 11/13/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 43.

CRT 11/13/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 44 through 81.

Standards used: 1=S23297 2=S23299 3=S23298 4=S23300 5=S23301 6=S23304 7=S23306 8=S23302 9=S23303 10=S23305 11=S23461 12=S23462

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83456844

Date : 11/13/13 Reference : met08_sn_6010
Sequence : MET08 11/13/13 Analyzed : 11/13/13 06:09

#	Type	Sample ID	Y A
		ICAL STD	1948759
		LOWER LIMIT	584628
		UPPER LIMIT	3897517
011	ICB		1986734
012	ICSA		1841428
013	ICSAB		1893728
016	MSS	250590-001	2018312
017	SAMPLE	250590-002	1962395
018	SAMPLE	250557-005	1866518
019	SAMPLE	250557-006	1862934
020	SAMPLE	250557-007	1848669
021	SAMPLE	250557-008	1847530
022	CCV		2095872
023	CCB		2035965
024	SAMPLE	250557-009	1877507
025	SAMPLE	250557-011	1929698
026	SAMPLE	250557-012	1934650
027	SAMPLE	250557-013	1893430
028	SAMPLE	250558-003	1989527
029	SAMPLE	250558-004	1932624
030	SAMPLE	250558-005	1885864
031	SAMPLE	250558-008	1959893
032	SAMPLE	250558-009	1920895
033	SAMPLE	250558-010	1951563
034	CCV		2143005
035	CCB		2049361
037	ICSAB		1913018
038	SER	QC715535	2179526
039	PDS	QC715536	2084534
041	CCV		2146834
042	CCB		2064498
043	ICSAB		1885578
052	CCV		2174509
054	CCB		2166588
065	CCV		2146079
067	CCB		2118602
068	ICSAB		1902545
079	CCV		2079948
081	CCB		2059399
091	CCV		2081590
093	CCB		2094609
095	ICSAB		1874306

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 250558 METALS Water: EPA 6010B

Inst : MET08 Reviewer : ---
Calnum : 83456844001 Date : 13-NOV-2013 06:04
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	met08_sn_6010	83456844002	CRI5.1	13-NOV-2013 06:09	S23297
L2	met08_sn_6010	83456844003	CS100	13-NOV-2013 06:14	S23299
L3	met08_sn_6010	83456844004	CS1K	13-NOV-2013 06:18	S23298
L4	met08_sn_6010	83456844005	CS10K	13-NOV-2013 06:22	S23300
L5	met08_sn_6010	83456844006	CS100K	13-NOV-2013 06:29	S23301

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Chromium	A	98.600	93.413	94.641	91.065		LOR0	0.00000	0.01098		94.430	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Chromium	A	5.0000	8	100.00	3	1000.0	4	10000	0		

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 250558 METALS Water
EPA 6010B

Inst : MET08
Calnum : 83456844001 Cal Date : 13-NOV-2013

ICV 83456844008 (13-NOV-2013) stds: S23304

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Chromium	A	5000	4915	ug/L	-2	10	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250558 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83456844011.2 File : met08_sn_6010 Time : 13-NOV-2013 07:12
Cal : 83456844001 Caldate : 13-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1948759	1986734	1.95

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR 250558 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83456844012.2 File : met08_sn_6010 Time : 13-NOV-2013 07:17
Cal : 83456844001 Caldate : 13-NOV-2013
Standards: S23302

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19240	ug/L	96
Copper	A	20000	20240	ug/L	101
Manganese	A	20000	17690	ug/L	88
Nickel	A	20000	17900	ug/L	90
Vanadium	A	20000	19510	ug/L	98
Aluminum	R	500000	497900	ug/L	100
Calcium	R	500000	479500	ug/L	96
Iron	R	200000	191300	ug/L	96
Magnesium	R	500000	497600	ug/L	100
Titanium	R	20000	20260	ug/L	101

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1948759	1841428	-5.51

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 250558 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83456844013.2 File : met08_sn_6010 Time : 13-NOV-2013 07:42
Cal : 83456844001 Caldate : 13-NOV-2013
Standards: S23303

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	486.6	ug/L	-3	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1948759	1893728	-2.82

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 250558 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83456844022.2 File : met08_sn_6010 Time : 13-NOV-2013 08:31
Cal : 83456844001 Caldate : 13-NOV-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	94.430	87.602	5000	4808	ug/L	-4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1948759	2095872	7.55

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250558 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83456844023.2 File : met08_sn_6010 Time : 13-NOV-2013 08:38
Cal : 83456844001 Caldate : 13-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1948759	2035965	4.47

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 250558 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83456844034.1 File : met08_sn_6010 Time : 13-NOV-2013 09:30
Cal : 83456844001 Caldate : 13-NOV-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	94.430	87.076	5000	4779	ug/L	-4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1948759	2143005	9.97

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250558 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83456844035.1 File : met08_sn_6010 Time : 13-NOV-2013 09:37
Cal : 83456844001 Caldate : 13-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1948759	2049361	5.16

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 250558 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83456844037.2 File : met08_sn_6010 Time : 13-NOV-2013 09:46
Cal : 83456844001 Caldate : 13-NOV-2013
Standards: S23303

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	481.3	ug/L	-4	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1948759	1913018	-1.83

SAMPLE PREPARATION SUMMARY

Batch # : 204934
Started By : NCD
Method : 3010A
Spike #1 ID : S21652

Prep Date : 11-NOV-2013 19:30
SOP Version : 3010A_icp_rv15
Spike #2 ID : S21653

Analysis : ICAP
Finished By : NCD
Units : mL

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
250555-001		Water	50	50	1	1.0						CR	
250555-002		Water	50	50	1	1.0						CR	
250555-003		Water	50	50	1	1.0						CR	
250555-004		Water	50	50	1	1.0						CR	
250555-005		Water	50	50	1	1.0						CR	
250555-006		Water	50	50	1	1.0						CR	
250555-007		Water	50	50	1	1.0						CR	
250555-008		Water	50	50	1	1.0						CR	
250558-001		Water	50	50	1	1.0						CR	
250558-002		Water	50	50	1	1.0						CR	
250558-003		Water	50	50	1	1.0						CR	
250558-004		Water	50	50	1	1.0						CR	
250558-005		Water	50	50	1	1.0						CR	
250558-008		Water	50	50	1	1.0						CR	
250558-009		Water	50	50	1	1.0						CR	
250558-010		Water	50	50	1	1.0						CR	
250704-001		Water	50	50	1	1.0						T22/ICP	added at 18:32
QC715643	BLANK	Water	50	50	1	1.0							
QC715644	BS	Water	50	50	1	1.0		.5	.5				
QC715645	BSD	Water	50	50	1	1.0		.5	.5				
QC715646	MS	Water	50	50	1	1.0		.5	.5				
QC715647	MSD	Water	50	50	1	1.0		.5	.5				
QC715648	MS	Water	50	50	1	1.0		.5	.5				
QC715649	MSD	Water	50	50	1	1.0		.5	.5				
QC715650	SER	Water	50	50	1	1.0							
QC715651	PDS	Water	50	50	1	1.0							

Analyst: CRT Date: 11/12/13 Reviewer: PRW Date: 11/12/13

Curtis & Tompkins, Ltd.

Water Digestion for ICP

BK3498

LIMS Batch #: 204934
Digested by: NCD
Date Digested: 11/1/2013

Digestion Method
☒ EPA 3010a for ICP
☐ EPA 200.7
☐ _____

Page 38

Lvl.	Sample #	Container ID	Volume Sample(mL)	Final Volume (mL)	Filtered? (y/n)	ID Π	Comments
	BLK 715613		☑ 50 ☐	☑ 50 ☐	n	✓	
	BS 44		☑ 50 ☐	☑ 50 ☐		✓	
	BSD 45		☑ 50 ☐	☑ 50 ☐		✓	
III	250555-005	L	☑ 50 ☐	☑ 50 ☐		✓	MS
5	-005		☑ 50 ☐	☑ 50 ☐		✓	MSD
	-006	J	☑ 50 ☐	☑ 50 ☐		✓	MS
	-006		☑ 50 ☐	☑ 50 ☐		✓	MSD
	-001	D	☑ 50 ☐	☑ 50 ☐		✓	
	-002		☑ 50 ☐	☑ 50 ☐		✓	
10	-003		☑ 50 ☐	☑ 50 ☐		✓	
	-004		☑ 50 ☐	☑ 50 ☐		✓	
	-005	L	☑ 50 ☐	☑ 50 ☐		✓	
	-006	J	☑ 50 ☐	☑ 50 ☐		✓	
	-007	D	☑ 50 ☐	☑ 50 ☐		✓	
15	-008		☑ 50 ☐	☑ 50 ☐		✓	
III	250558-001	D	☑ 50 ☐	☑ 50 ☐		✓	
	-002		☑ 50 ☐	☑ 50 ☐		✓	
	-003		☑ 50 ☐	☑ 50 ☐		✓	
	-004		☑ 50 ☐	☑ 50 ☐		✓	
20	-005		☑ 50 ☐	☑ 50 ☐		✓	
	-006		☑ 50 ☐	☑ 50 ☐		✓	
	-007		☑ 50 ☐	☑ 50 ☐		✓	
	-010		☑ 50 ☐	☑ 50 ☐		✓	
II	250704-001	A	☑ 50 ☐	☑ 50 ☐	no	✓	added 18:32
			☐ 50 ☐	☐ 50 ☐			

	Reagent ID or LIMS #	Initials / Date
Digestion tubes, lot #	169172	NCD 11/1/2013
0.5 mL of spike solution (Std1) was added to all spikes	S21653	
0.5 mL of spike solution (Std2) was added to all spikes	S21652	
Digestion Temperature (°C), Block and Probe Location	95°C A6	
Digestion begun at (time)	14:10	
☑ Conc. HNO3 or ☐ 1:1 HNO3	L12065	
1:1 HCl	40272-103115	
digestion ended at (time)	19:30	
☐ filtered thru' Whatman # 541	—	
Relinquished to ICP group	ICAP	

Preп Chemist / Date 11/1/2013

Continued from page _____
Continued on page _____

Reviewed Online / See LIMS

Laboratory Job Number 250558

ANALYTICAL REPORT

Metals

Matrix: Filtrate

Curtis & Tompkins, Ltd.

Dissolved Chromium

Lab #:	250558	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Diln Fac:	1.000
Matrix:	Filtrate	Sampled:	11/05/13
Units:	ug/L	Received:	11/06/13

Field ID	Type	Lab ID	Result	RL	MDL	Batch#	Prepared	Analyzed
AST-INF	SAMPLE	250558-001	70	5.0	0.69	204858	11/07/13	11/15/13
AST-EFF	SAMPLE	250558-002	61	5.0	0.69	204858	11/07/13	11/15/13
GAC-02 INF	SAMPLE	250558-003	6.1	5.0	0.69	204858	11/07/13	11/15/13
GAC-02 EFF	SAMPLE	250558-004	2.3 J	5.0	0.69	204858	11/07/13	11/15/13
E-07R	SAMPLE	250558-005	17	5.0	0.69	205201	11/18/13	11/19/13
E-12	SAMPLE	250558-008	1.4 J	5.0	0.69	204858	11/07/13	11/15/13
E-17	SAMPLE	250558-009	2.4 J	5.0	0.69	204858	11/07/13	11/15/13
E-117	SAMPLE	250558-010	2.1 J	5.0	0.69	204858	11/07/13	11/15/13
	BLANK	QC715293	ND	5.0	0.69	204858	11/07/13	11/15/13
	BLANK	QC715305	ND	5.0	0.69	204858	11/07/13	11/15/13
	BLANK	QC716691	2.5 J	5.0	0.69	205201	11/18/13	11/19/13

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Batch QC Report

Dissolved Chromium

Lab #:	250558	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Diln Fac:	1.000
Matrix:	Filtrate	Sampled:	11/05/13
Units:	ug/L	Received:	11/06/13

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Batch#	Prepared	Analyzed
	BS		QC715294		200.0	197.9	99	80-120			204858	11/07/13	11/15/13
	BSD		QC715295		200.0	190.3	95	80-120	4	20	204858	11/07/13	11/15/13
GAC-03	MS	250555-005	QC715296	4.539	200.0	205.4	100	74-120			204858	11/07/13	11/15/13
GAC-03	MSD	250555-005	QC715297		200.0	207.0	101	74-120	1	20	204858	11/07/13	11/15/13
NE-02	MS	250555-006	QC715298	4.203	200.0	207.5	102	74-120			204858	11/07/13	11/15/13
NE-02	MSD	250555-006	QC715299		200.0	207.2	102	74-120	0	20	204858	11/07/13	11/15/13
	BS		QC716692		200.0	204.6	102	80-120			205201	11/18/13	11/19/13
	BSD		QC716693		200.0	192.2	96	80-120	6	20	205201	11/18/13	11/19/13
E-07R	MS	250558-005	QC716694	17.15	200.0	224.8	104	74-120			205201	11/18/13	11/19/13
E-07R	MSD	250558-005	QC716695		200.0	228.8	106	74-120	2	20	205201	11/18/13	11/19/13

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Chromium

Lab #:	250558	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	NE-02	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	204858
MSS Lab ID:	250555-006	Sampled:	11/05/13
Lab ID:	QC715300	Received:	11/06/13
Matrix:	Filtrate	Analyzed:	11/15/13

MSS Result	MSS RL	Result	RL	% Diff	Lim
4.203	5.000	4.783 J	25.00	NC	10

J= Estimated value
NC= Not Calculated
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Chromium

Lab #:	250558	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	NE-02	Diln Fac:	1.000
Type:	Post Digest Spike	Batch#:	204858
MSS Lab ID:	250555-006	Sampled:	11/05/13
Lab ID:	QC715301	Received:	11/06/13
Matrix:	Filtrate	Analyzed:	11/15/13

MSS Result	Spiked	Result	%REC	Limits
4.203	200.0	204.5	100	75-125

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Chromium

Lab #:	250558	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	E-07R	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	205201
MSS Lab ID:	250558-005	Sampled:	11/05/13
Lab ID:	QC716696	Received:	11/06/13
Matrix:	Filtrate	Analyzed:	11/19/13

MSS Result	MSS RL	Result	RL	% Diff	Lim
17.15	5.000	15.19 J	25.00	NC	10

J= Estimated value
NC= Not Calculated
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Chromium

Lab #:	250558	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	E-07R	Diln Fac:	1.000
Type:	Post Digest Spike	Batch#:	205201
MSS Lab ID:	250558-005	Sampled:	11/05/13
Lab ID:	QC716697	Received:	11/06/13
Matrix:	Filtrate	Analyzed:	11/19/13

MSS Result	Spiked	Result	%REC	Limits
17.15	2,000	1,996	99	75-125

REPORTING SUMMARY FOR 250558 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CR
250558-001	MET08	11/15/13 20:19	1.0	+
250558-002	MET08	11/15/13 20:46	1.0	+
250558-003	MET08	11/15/13 20:51	1.0	+
250558-004	MET08	11/15/13 20:57	1.0	+
250558-005	MET08	11/19/13 13:40	1.0	+
250558-008	MET08	11/15/13 21:02	1.0	+
250558-009	MET08	11/15/13 21:07	1.0	+
250558-010	MET08	11/15/13 21:12	1.0	+
QC715293	MET08	11/15/13 18:18	1.0	+
QC715294	MET08	11/15/13 18:28	1.0	+
QC715295	MET08	11/15/13 18:32	1.0	+
QC715296	MET08	11/15/13 18:42	1.0	+
QC715297	MET08	11/15/13 18:46	1.0	+
QC715298	MET08	11/15/13 18:55	1.0	+
QC715299	MET08	11/15/13 19:35	1.0	+
QC715300	MET08	11/15/13 19:39	5.0	+
QC715301	MET08	11/15/13 19:44	1.0	+
QC715305	MET08	11/15/13 18:23	1.0	+
QC716691	MET08	11/19/13 13:05	1.0	
QC716691	MET08	11/19/13 14:41	1.0	+
QC716692	MET08	11/19/13 13:25	1.0	+
QC716693	MET08	11/19/13 13:36	1.0	+
QC716694	MET08	11/19/13 13:45	1.0	+
QC716695	MET08	11/19/13 13:49	1.0	+
QC716696	MET08	11/19/13 13:54	5.0	+
QC716697	MET08	11/19/13 13:59	1.0	
QC716697	MET08	11/19/13 16:28	1.0	+

ICP Data

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83459709

Instrument : MET08 Begun : 11/15/13 05:49
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	met08_sn_6010	ICALBLK				11/15/13 05:49	1.0		
002	met08_sn_6010	ICAL	CRI5.1			11/15/13 05:54	1.0	1	
003	met08_sn_6010	ICAL	CS100			11/15/13 05:59	1.0	2	
004	met08_sn_6010	ICAL	CS1K			11/15/13 06:03	1.0	3	
005	met08_sn_6010	ICAL	CS10K			11/15/13 06:07	1.0	4	
006	met08_sn_6010	ICAL	CS100K			11/15/13 06:14	1.0	5	
007	met08_sn_6010	XICV				11/15/13 06:21	1.0	6	
008	met08_sn_6010	ICV				11/15/13 06:26	1.0	6	
009	met08_sn_6010	XCRI				11/15/13 06:43	1.0	7	
010	met08_sn_6010	CRI				11/15/13 06:55	1.0	7	
011	met08_sn_6010	ICB				11/15/13 07:01	1.0		
012	met08_sn_6010	ICSA				11/15/13 07:06	1.0	8	10:MG=510000
013	met08_sn_6010	ICSAB				11/15/13 07:23	1.0	9	5:AL=470000
014	met08_sn_6010	BLANK	QC715356	Water	204870	11/15/13 07:30	1.0		
015	met08_sn_6010	BLANK	QC716157	Water	205067	11/15/13 07:34	1.0		
016	met08_sn_6010	MSS	250768-001	Water	205067	11/15/13 07:39	1.0		
017	met08_sn_6010	MSS	250579-003	Filtrate	204895	11/15/13 07:43	100.0		
018	met08_sn_6010	SAMPLE	250579-006	Filtrate	204895	11/15/13 07:48	100.0		
019	met08_sn_6010	SAMPLE	250511-003	Filtrate	204895	11/15/13 07:53	1.0		2:NA=280000
020	met08_sn_6010	SAMPLE	250511-004	Filtrate	204895	11/15/13 07:58	1.0		2:NA=340000
021	met08_sn_6010	SAMPLE	250511-006	Filtrate	204895	11/15/13 08:03	1.0		2:NA=340000
022	met08_sn_6010	ICSAB				11/15/13 08:08	1.0	9	5:MG=480000
023	met08_sn_6010	CCV				11/15/13 08:15	1.0	10	
024	met08_sn_6010	CCB				11/15/13 08:22	1.0		
025	met08_sn_6010	SAMPLE	250511-007	Filtrate	204895	11/15/13 08:27	1.0		2:NA=290000
026	met08_sn_6010	SAMPLE	250379-001	Filtrate	204713	11/15/13 08:32	1.0		
027	met08_sn_6010	SAMPLE	250379-002	Filtrate	204713	11/15/13 08:36	1.0		
028	met08_sn_6010	SAMPLE	250379-003	Filtrate	204713	11/15/13 08:40	1.0		
029	met08_sn_6010	SAMPLE	250379-004	Filtrate	204713	11/15/13 08:44	1.0		
030	met08_sn_6010	SAMPLE	250379-005	Filtrate	204713	11/15/13 08:48	1.0		
031	met08_sn_6010	SAMPLE	250379-006	Filtrate	204713	11/15/13 08:52	1.0		
032	met08_sn_6010	CCV				11/15/13 08:59	1.0	10	
033	met08_sn_6010	CCB				11/15/13 09:05	1.0		
034	met08_sn_6010	BLANK	QC715843	Water	204986	11/15/13 09:10	1.0		
035	met08_sn_6010	BS	QC715844	Water	204986	11/15/13 09:15	1.0		
036	met08_sn_6010	BSD	QC715845	Water	204986	11/15/13 09:19	1.0		
037	met08_sn_6010	MSS	250628-001	Water	204986	11/15/13 09:23	1.0		
038	met08_sn_6010	MS	QC715846	Water	204986	11/15/13 09:28	1.0		
039	met08_sn_6010	MSD	QC715847	Water	204986	11/15/13 09:32	1.0		
040	met08_sn_6010	SAMPLE	250628-002	Water	204986	11/15/13 09:36	1.0		
041	met08_sn_6010	SAMPLE	250628-003	Water	204986	11/15/13 09:41	1.0		
042	met08_sn_6010	SAMPLE	250628-004	Water	204986	11/15/13 09:45	1.0		
043	met08_sn_6010	ICSAB				11/15/13 09:49	1.0	9	5:MG=470000
044	met08_sn_6010	CCV				11/15/13 09:56	1.0	10	
045	met08_sn_6010	CCB				11/15/13 10:03	1.0		
046	met08_sn_6010	SAMPLE	250384-002	Filtrate	204713	11/15/13 10:08	1.0		
047	met08_sn_6010	SAMPLE	250384-003	Filtrate	204713	11/15/13 10:12	1.0		1:NA=140000
048	met08_sn_6010	SAMPLE	250326-001	Filtrate	204623	11/15/13 10:16	1.0		1:MG=100000
049	met08_sn_6010	SAMPLE	250326-002	Filtrate	204623	11/15/13 10:25	1.0		
050	met08_sn_6010	SAMPLE	250326-003	Filtrate	204623	11/15/13 10:29	1.0		
051	met08_sn_6010	SAMPLE	250326-004	Filtrate	204623	11/15/13 10:33	1.0		1:NA=520000
052	met08_sn_6010	SAMPLE	250326-005	Filtrate	204623	11/15/13 10:40	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83459709

Instrument : MET08 Begun : 11/15/13 05:49
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
053	met08_sn_6010	SAMPLE	250326-006	Filtrate	204623	11/15/13 10:45	1.0		1:NA=100000
054	met08_sn_6010	SAMPLE	250327-001	Filtrate	204623	11/15/13 10:49	1.0		
055	met08_sn_6010	SAMPLE	250327-002	Filtrate	204623	11/15/13 10:53	1.0		
056	met08_sn_6010	CCV				11/15/13 10:57	1.0	10	
057	met08_sn_6010	CCB				11/15/13 11:04	1.0		
058	met08_sn_6010	ICSAB				11/15/13 11:09	1.0	9	5:MG=480000
059	met08_sn_6010	SAMPLE	250327-003	Filtrate	204623	11/15/13 11:15	1.0		
060	met08_sn_6010	SAMPLE	250327-004	Filtrate	204623	11/15/13 11:20	1.0		
061	met08_sn_6010	SAMPLE	250623-005	Water	204986	11/15/13 11:24	1.0		1:CA=140000
062	met08_sn_6010	SAMPLE	250623-006	Water	204986	11/15/13 11:29	1.0		1:CA=160000
063	met08_sn_6010	SAMPLE	250623-007	Water	204986	11/15/13 11:34	1.0		3:NA=120000
064	met08_sn_6010	SAMPLE	250623-008	Water	204986	11/15/13 11:38	1.0		
065	met08_sn_6010	SAMPLE	250623-009	Water	204986	11/15/13 11:43	1.0		1:CA=180000
066	met08_sn_6010	SAMPLE	250623-010	Water	204986	11/15/13 11:48	1.0		1:CA=170000
067	met08_sn_6010	SAMPLE	250642-008	Water	204986	11/15/13 11:53	1.0		2:NA=270000
068	met08_sn_6010	SAMPLE	250642-009	Water	204986	11/15/13 11:58	1.0		2:NA=250000
069	met08_sn_6010	CCV				11/15/13 12:02	1.0	10	
070	met08_sn_6010	CCB				11/15/13 12:09	1.0		
071	met08_sn_6010	SAMPLE	250642-010	Water	204986	11/15/13 12:14	1.0		2:NA=240000
072	met08_sn_6010	SAMPLE	250642-011	Water	204986	11/15/13 12:18	1.0		2:NA=320000
073	met08_sn_6010	BLANK	QC715998	Water	205030	11/15/13 12:23	1.0		
074	met08_sn_6010	BS	QC715999	Water	205030	11/15/13 12:28	1.0		
075	met08_sn_6010	BSD	QC716000	Water	205030	11/15/13 12:33	1.0		
076	met08_sn_6010	MSS	250707-002	Water	205030	11/15/13 12:37	1.0		1:NA=170000
077	met08_sn_6010	MS	QC716001	Water	205030	11/15/13 12:41	1.0		
078	met08_sn_6010	MSD	QC716002	Water	205030	11/15/13 12:45	1.0		
079	met08_sn_6010	SAMPLE	250666-012	Water	205030	11/15/13 12:49	1.0		1:CA=140000
080	met08_sn_6010	SAMPLE	250666-014	Water	205030	11/15/13 12:53	1.0		1:CA=100000
081	met08_sn_6010	CCV				11/15/13 12:57	1.0	10	
082	met08_sn_6010	CCB				11/15/13 13:04	1.0		
083	met08_sn_6010	ICSAB				11/15/13 13:16	1.0	9	5:AL=480000
084	met08_sn_6010	SAMPLE	250666-019	Water	205030	11/15/13 13:23	1.0		1:CA=140000
085	met08_sn_6010	SAMPLE	250666-032	Water	205030	11/15/13 13:28	1.0		1:CA=160000
086	met08_sn_6010	MSS	248949-002	Filtrate	203053	11/15/13 13:33	100.0		
087	met08_sn_6010	SER	QC707733	Filtrate	203053	11/15/13 13:38	500.0		
088	met08_sn_6010	PDS	QC707734	Filtrate	203053	11/15/13 13:43	100.0	11 12	
089	met08_sn_6010	CCV				11/15/13 13:47	1.0	10	
090	met08_sn_6010	CCB				11/15/13 13:54	1.0		
091	met08_sn_6010	ICSAB				11/15/13 13:59	1.0	9	5:AL=490000
092	met08_sn_6010	BLANK	QC715076	Filtrate	204807	11/15/13 14:20	1.0		
093	met08_sn_6010	BS	QC715077	Filtrate	204807	11/15/13 14:25	1.0		
094	met08_sn_6010	BSD	QC715078	Filtrate	204807	11/15/13 14:29	1.0		
095	met08_sn_6010	MSS	250520-002	Filtrate	204807	11/15/13 14:33	1.0		3:MG=690000
096	met08_sn_6010	MS	QC715079	Filtrate	204807	11/15/13 14:40	1.0		3:MG=690000
097	met08_sn_6010	MSD	QC715080	Filtrate	204807	11/15/13 14:47	1.0		3:MG=690000
098	met08_sn_6010	SAMPLE	250458-004	Filtrate	204807	11/15/13 14:54	10.0		
099	met08_sn_6010	SAMPLE	250459-002	Filtrate	204807	11/15/13 14:59	100.0		
100	met08_sn_6010	SAMPLE	250459-003	Filtrate	204807	11/15/13 15:03	10.0		
101	met08_sn_6010	BLANK	QC715652	Water	204935	11/15/13 15:07	1.0		
102	met08_sn_6010	CCV				11/15/13 15:12	1.0	10	
103	met08_sn_6010	CCB				11/15/13 15:19	1.0		
104	met08_sn_6010	BS	QC715653	Water	204935	11/15/13 15:24	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83459709

Instrument : MET08 Begun : 11/15/13 05:49
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
105	met08_sn_6010	BSD	QC715654	Water	204935	11/15/13 15:28	1.0		
106	met08_sn_6010	MSS	250604-001	Water	204935	11/15/13 15:33	1.0		3:CA=240000
107	met08_sn_6010	MS	QC715655	Water	204935	11/15/13 15:37	1.0		
108	met08_sn_6010	MSD	QC715656	Water	204935	11/15/13 15:41	1.0		
109	met08_sn_6010	SER	QC715657	Water	204935	11/15/13 15:45	5.0		
110	met08_sn_6010	PDS	QC715658	Water	204935	11/15/13 15:50	1.0	11 12	
111	met08_sn_6010	SAMPLE	250604-002	Water	204935	11/15/13 15:54	1.0		3:CA=350000
112	met08_sn_6010	SAMPLE	250604-003	Water	204935	11/15/13 15:58	1.0		3:CA=290000
113	met08_sn_6010	SAMPLE	250604-004	Water	204935	11/15/13 16:02	1.0		3:CA=490000
114	met08_sn_6010	CCV				11/15/13 16:07	1.0	10	
115	met08_sn_6010	CCB				11/15/13 16:13	1.0		
116	met08_sn_6010	ICSAB				11/15/13 16:18	1.0	9	5:AL=500000
117	met08_sn_6010	SAMPLE	250604-005	Water	204935	11/15/13 16:25	1.0		3:CA=270000
118	met08_sn_6010	SAMPLE	250604-006	Water	204935	11/15/13 16:30	1.0		3:CA=510000
119	met08_sn_6010	SAMPLE	250604-007	Water	204935	11/15/13 16:34	1.0		2:CA=230000
120	met08_sn_6010	SAMPLE	250604-008	Water	204935	11/15/13 16:39	1.0		1:CA=230000
121	met08_sn_6010	SAMPLE	250604-009	Water	204935	11/15/13 16:43	1.0		2:NA=160000
122	met08_sn_6010	SAMPLE	250604-010	Water	204935	11/15/13 16:47	1.0		2:CA=220000
123	met08_sn_6010	SAMPLE	250604-011	Water	204935	11/15/13 16:51	1.0		3:CA=500000
124	met08_sn_6010	SAMPLE	250604-012	Water	204935	11/15/13 16:56	1.0		3:CA=530000
125	met08_sn_6010	SAMPLE	250604-013	Water	204935	11/15/13 17:00	1.0		2:CA=340000
126	met08_sn_6010	SAMPLE	250604-014	Water	204935	11/15/13 17:04	1.0		1:NA=140000
127	met08_sn_6010	CCV				11/15/13 17:08	1.0	10	
128	met08_sn_6010	CCB				11/15/13 17:15	1.0		
129	met08_sn_6010	SAMPLE	250604-015	Water	204935	11/15/13 17:20	1.0		3:CA=420000
130	met08_sn_6010	SAMPLE	250557-004	Water	204935	11/15/13 17:24	1.0		2:NA=300000
131	met08_sn_6010	SAMPLE	250557-005	Water	204935	11/15/13 17:29	1.0		2:NA=320000
132	met08_sn_6010	SAMPLE	250557-006	Water	204935	11/15/13 17:33	1.0		2:NA=370000
133	met08_sn_6010	SAMPLE	250557-011	Water	204935	11/15/13 17:37	1.0		2:NA=280000
134	met08_sn_6010	SAMPLE	250557-012	Water	204935	11/15/13 17:42	1.0		2:NA=260000
135	met08_sn_6010	CCV				11/15/13 17:47	1.0	10	
136	met08_sn_6010	CCB				11/15/13 17:54	1.0		
137	met08_sn_6010	ICSAB				11/15/13 18:00	1.0	9	5:AL=500000
138	met08_sn_6010	BLANK	QC715293	Filtrate	204858	11/15/13 18:18	1.0		
139	met08_sn_6010	BLANK	QC715305	Filtrate	204858	11/15/13 18:23	1.0		
140	met08_sn_6010	BS	QC715294	Filtrate	204858	11/15/13 18:28	1.0		
141	met08_sn_6010	BSD	QC715295	Filtrate	204858	11/15/13 18:32	1.0		
142	met08_sn_6010	MSS	250555-005	Filtrate	204858	11/15/13 18:36	1.0		2:CA=230000
143	met08_sn_6010	MS	QC715296	Filtrate	204858	11/15/13 18:42	1.0		3:CA=230000
144	met08_sn_6010	MSD	QC715297	Filtrate	204858	11/15/13 18:46	1.0		3:CA=230000
145	met08_sn_6010	MSS	250555-006	Filtrate	204858	11/15/13 18:50	1.0		2:NA=430000
146	met08_sn_6010	MS	QC715298	Filtrate	204858	11/15/13 18:55	1.0		2:NA=410000
147	met08_sn_6010	X	RINSE			11/15/13 18:59	1.0		
148	met08_sn_6010	CCV				11/15/13 19:04	1.0	10	
149	met08_sn_6010	XCCB				11/15/13 19:11	1.0		
150	met08_sn_6010	XCCB				11/15/13 19:15	1.0		
151	met08_sn_6010	XMSD	QC715299	Filtrate	204858	11/15/13 19:20	1.0		
152	met08_sn_6010	CCB				11/15/13 19:30	1.0		
153	met08_sn_6010	MSD	QC715299	Filtrate	204858	11/15/13 19:35	1.0		2:NA=420000
154	met08_sn_6010	SER	QC715300	Filtrate	204858	11/15/13 19:39	5.0		
155	met08_sn_6010	PDS	QC715301	Filtrate	204858	11/15/13 19:44	1.0	11 12	2:NA=430000
156	met08_sn_6010	SAMPLE	250555-001	Filtrate	204858	11/15/13 19:48	1.0		2:CA=250000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83459709

Instrument : MET08 Begun : 11/15/13 05:49
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
157	met08_sn_6010	SAMPLE	250555-002	Filtrate	204858	11/15/13 19:53	1.0		2:CA=250000
158	met08_sn_6010	SAMPLE	250555-003	Filtrate	204858	11/15/13 19:58	1.0		3:CA=210000
159	met08_sn_6010	SAMPLE	250555-004	Filtrate	204858	11/15/13 20:03	1.0		3:CA=210000
160	met08_sn_6010	SAMPLE	250555-007	Filtrate	204858	11/15/13 20:08	1.0		2:NA=370000
161	met08_sn_6010	SAMPLE	250555-008	Filtrate	204858	11/15/13 20:13	1.0		3:NA=310000
162	met08_sn_6010	SAMPLE	250558-001	Filtrate	204858	11/15/13 20:19	1.0		3:NA=370000
163	met08_sn_6010	CCV				11/15/13 20:24	1.0	10	
164	met08_sn_6010	CCB				11/15/13 20:30	1.0		
165	met08_sn_6010	ICSAB				11/15/13 20:36	1.0	9	5:AL=490000
166	met08_sn_6010	MSS	250520-002	Filtrate	204807	11/15/13 20:42	100.0		
167	met08_sn_6010	SAMPLE	250558-002	Filtrate	204858	11/15/13 20:46	1.0		3:NA=380000
168	met08_sn_6010	SAMPLE	250558-003	Filtrate	204858	11/15/13 20:51	1.0		1:CA=210000
169	met08_sn_6010	SAMPLE	250558-004	Filtrate	204858	11/15/13 20:57	1.0		1:CA=210000
170	met08_sn_6010	SAMPLE	250558-008	Filtrate	204858	11/15/13 21:02	1.0		3:CA=310000
171	met08_sn_6010	SAMPLE	250558-009	Filtrate	204858	11/15/13 21:07	1.0		3:CA=410000
172	met08_sn_6010	SAMPLE	250558-010	Filtrate	204858	11/15/13 21:12	1.0		3:CA=410000
173	met08_sn_6010	SAMPLE	250458-004	Filtrate	204807	11/15/13 21:17	1.0		3:CA=370000
174	met08_sn_6010	SAMPLE	250459-002	Filtrate	204807	11/15/13 21:22	1.0		2:CA=1300000
175	met08_sn_6010	X	RINSE			11/15/13 21:29	1.0		
176	met08_sn_6010	CCV				11/15/13 21:34	1.0	10	
177	met08_sn_6010	CCB				11/15/13 21:41	1.0		
178	met08_sn_6010	ICSAB				11/15/13 21:46	1.0	9	5:AL=490000

NT 11/15/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 46.

CRT 11/15/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 47 through 152.

CRT 11/15/13 : On runs 149-151, the CCB ran out. Reran the CCB and the sample right after.

NT 11/18/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 153 through 178.

Standards used: 1=S23297 2=S23299 3=S23298 4=S23300 5=S23301 6=S23304 7=S23306 8=S23302 9=S23303 10=S23305 11=S21652 12=S21653

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83459709

Date : 11/15/13 Reference : met08_sn_6010
Sequence : MET08 11/15/13 Analyzed : 11/15/13 05:54

#	Type	Sample ID	Y A
		ICAL STD	2065785
		LOWER LIMIT	619735
		UPPER LIMIT	4131569
011	ICB		2129551
012	ICSA		1994872
013	ICSAB		2046299
014	BLANK	QC715356	2300113
015	BLANK	QC716157	2304930
016	MSS	250768-001	2239605
017	MSS	250579-003	2184211
018	SAMPLE	250579-006	2185478
019	SAMPLE	250511-003	2049248
020	SAMPLE	250511-004	2043652
021	SAMPLE	250511-006	2027462
022	ICSAB		2044295
023	CCV		2257518
024	CCB		2181511
025	SAMPLE	250511-007	2018916
026	SAMPLE	250379-001	2295006
027	SAMPLE	250379-002	2301270
028	SAMPLE	250379-003	2212824
029	SAMPLE	250379-004	2296476
030	SAMPLE	250379-005	2274283
031	SAMPLE	250379-006	2192185
032	CCV		2276241
033	CCB		2131510
034	BLANK	QC715843	2251756
035	BS	QC715844	2291151
036	BSD	QC715845	2244896
037	MSS	250628-001	2230051
038	MS	QC715846	2248098
039	MSD	QC715847	2222664
040	SAMPLE	250628-002	2220970
041	SAMPLE	250628-003	2300305
042	SAMPLE	250628-004	2300290
043	ICSAB		2016421
044	CCV		2245136
045	CCB		2172114
046	SAMPLE	250384-002	2226531
047	SAMPLE	250384-003	2265831
048	SAMPLE	250326-001	1969022
049	SAMPLE	250326-002	2235903
050	SAMPLE	250326-003	2238259
051	SAMPLE	250326-004	2142553
052	SAMPLE	250326-005	2173072
053	SAMPLE	250326-006	2275497
054	SAMPLE	250327-001	2352859
055	SAMPLE	250327-002	2295938
056	CCV		2271951
057	CCB		2168558
058	ICSAB		2038074

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83459709

Date : 11/15/13 Reference : met08_sn_6010
Sequence : MET08 11/15/13 Analyzed : 11/15/13 05:54

#	Type	Sample ID	Y A
059	SAMPLE	250327-003	2353937
060	SAMPLE	250327-004	2312666
067	SAMPLE	250642-008	2027719
068	SAMPLE	250642-009	2095119
069	CCV		2290395
070	CCB		2146425
071	SAMPLE	250642-010	2080330
072	SAMPLE	250642-011	1940039
073	BLANK	QC715998	2165388
074	BS	QC715999	2171140
075	BSD	QC716000	2186836
076	MSS	250707-002	2180818
077	MS	QC716001	2125599
078	MSD	QC716002	2150244
081	CCV		2231767
082	CCB		2104616
083	ICSAB		1994881
086	MSS	248949-002	2119093
087	SER	QC707733	2098197
088	PDS	QC707734	2150478
089	CCV		2195065
090	CCB		2115381
091	ICSAB		1961043
092	BLANK	QC715076	2253287
093	BS	QC715077	2228275
094	BSD	QC715078	2231275
095	MSS	250520-002	1967107
096	MS	QC715079	1935785
097	MSD	QC715080	1985658
098	SAMPLE	250458-004	2049322
099	SAMPLE	250459-002	2217280
100	SAMPLE	250459-003	2217223
101	BLANK	QC715652	2140472
102	CCV		2163130
103	CCB		2102941
104	BS	QC715653	2175803
105	BSD	QC715654	2191825
106	MSS	250604-001	2027645
107	MS	QC715655	2026391
108	MSD	QC715656	2007350
109	SER	QC715657	2003971
110	PDS	QC715658	2010278
111	SAMPLE	250604-002	2013094
112	SAMPLE	250604-003	1997160
113	SAMPLE	250604-004	1927170
114	CCV		2198032
115	CCB		2087419
116	ICSAB		1956127
117	SAMPLE	250604-005	1981718
118	SAMPLE	250604-006	1990176
119	SAMPLE	250604-007	2109792
120	SAMPLE	250604-008	2097561

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83459709

Date : 11/15/13 Reference : met08_sn_6010
Sequence : MET08 11/15/13 Analyzed : 11/15/13 05:54

#	Type	Sample ID	Y A
121	SAMPLE	250604-009	2050980
122	SAMPLE	250604-010	2089321
123	SAMPLE	250604-011	1893063
124	SAMPLE	250604-012	1996009
125	SAMPLE	250604-013	2032613
126	SAMPLE	250604-014	2118142
127	CCV		2188148
128	CCB		2068751
129	SAMPLE	250604-015	2014194
130	SAMPLE	250557-004	2037204
131	SAMPLE	250557-005	2056471
132	SAMPLE	250557-006	2033006
133	SAMPLE	250557-011	1932232
134	SAMPLE	250557-012	2019809
135	CCV		2207137
136	CCB		2130979
137	ICSAB		1984153
138	BLANK	QC715293	2176097
139	BLANK	QC715305	2136852
140	BS	QC715294	2208129
141	BSD	QC715295	2227555
142	MSS	250555-005	2000762
143	MS	QC715296	2043213
144	MSD	QC715297	2060212
145	MSS	250555-006	1939439
146	MS	QC715298	2061465
148	CCV		2193916
152	CCB		2126993
153	MSD	QC715299	2067140
154	SER	QC715300	2032847
155	PDS	QC715301	2012353
156	SAMPLE	250555-001	1993182
157	SAMPLE	250555-002	1997615
158	SAMPLE	250555-003	1985928
159	SAMPLE	250555-004	1993065
160	SAMPLE	250555-007	1944187
161	SAMPLE	250555-008	1946275
162	SAMPLE	250558-001	1928421
163	CCV		2178562
164	CCB		2121721
165	ICSAB		2026238
166	MSS	250520-002	2250956
167	SAMPLE	250558-002	1940215
168	SAMPLE	250558-003	2033731
169	SAMPLE	250558-004	2011608
170	SAMPLE	250558-008	1921411
171	SAMPLE	250558-009	1925087
172	SAMPLE	250558-010	1898815
173	SAMPLE	250458-004	1909060
174	SAMPLE	250459-002	1839463
176	CCV		2155835
177	CCB		2026486

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83459709

Date : 11/15/13 Reference : met08_sn_6010
Sequence : MET08 11/15/13 Analyzed : 11/15/13 05:54

#	Type	Sample ID	Y	A
178	ICSAB		1976393	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 250558 METALS Filtrate: EPA 6010B

Inst : MET08 Reviewer : ---
Calnum : 83459709001 Date : 15-NOV-2013 05:49
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	met08_sn_6010	83459709002	CRI5.1	15-NOV-2013 05:54	S23297
L2	met08_sn_6010	83459709003	CS100	15-NOV-2013 05:59	S23299
L3	met08_sn_6010	83459709004	CS1K	15-NOV-2013 06:03	S23298
L4	met08_sn_6010	83459709005	CS10K	15-NOV-2013 06:07	S23300
L5	met08_sn_6010	83459709006	CS100K	15-NOV-2013 06:14	S23301

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Chromium	A	103.52	98.093	96.632	92.335		LOR0	0.00000	0.01083		97.645	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Chromium	A	5.0000	12	100.00	6	1000.0	5	10000	0		

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 250558 METALS Filtrate
EPA 6010B

Inst : MET08
Calnum : 83459709001 Cal Date : 15-NOV-2013

ICV 83459709008 (15-NOV-2013) stds: S23304

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Chromium	A	5000	5076	ug/L	2	10	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250558 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83459709011.2 File : met08_sn_6010 Time : 15-NOV-2013 07:01
Cal : 83459709001 Caldate : 15-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2065785	2129551	3.09

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR 250558 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83459709012.2 File : met08_sn_6010 Time : 15-NOV-2013 07:06
Cal : 83459709001 Caldate : 15-NOV-2013
Standards: S23302

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19420	ug/L	97
Copper	A	20000	20900	ug/L	104
Manganese	A	20000	18450	ug/L	92
Nickel	A	20000	18440	ug/L	92
Vanadium	A	20000	19450	ug/L	97
Aluminum	R	500000	508400	ug/L	102
Calcium	R	500000	491000	ug/L	98
Iron	R	200000	193800	ug/L	97
Magnesium	R	500000	508700	ug/L	102
Titanium	R	20000	21110	ug/L	106

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2065785	1994872	-3.43

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 250558 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83459709135.1 File : met08_sn_6010 Time : 15-NOV-2013 17:47
Cal : 83459709001 Caldate : 15-NOV-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	97.645	94.192	5000	5098	ug/L	2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2065785	2207137	6.84

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250558 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83459709136.1 File : met08_sn_6010 Time : 15-NOV-2013 17:54
Cal : 83459709001 Caldate : 15-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2065785	2130979	3.16

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 250558 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83459709137.1 File : met08_sn_6010 Time : 15-NOV-2013 18:00
Cal : 83459709001 Caldate : 15-NOV-2013
Standards: S23303

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	510.5	ug/L	2	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2065785	1984153	-3.95

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 250558 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83459709148.2 File : met08_sn_6010 Time : 15-NOV-2013 19:04
Cal : 83459709001 Caldate : 15-NOV-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	97.645	95.100	5000	5147	ug/L	3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2065785	2193916	6.20

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250558 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83459709152.2 File : met08_sn_6010 Time : 15-NOV-2013 19:30
Cal : 83459709001 Caldate : 15-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2065785	2126993	2.96

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 250558 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83459709163.2 File : met08_sn_6010 Time : 15-NOV-2013 20:24
Cal : 83459709001 Caldate : 15-NOV-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	97.645	93.045	5000	5036	ug/L	1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2065785	2178562	5.46

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250558 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83459709164.2 File : met08_sn_6010 Time : 15-NOV-2013 20:30
Cal : 83459709001 Caldate : 15-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2065785	2121721	2.71

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 250558 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83459709165.2 File : met08_sn_6010 Time : 15-NOV-2013 20:36
Cal : 83459709001 Caldate : 15-NOV-2013
Standards: S23303

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	507.2	ug/L	1	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2065785	2026238	-1.91

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 250558 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83459709176.1 File : met08_sn_6010 Time : 15-NOV-2013 21:34
Cal : 83459709001 Caldate : 15-NOV-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	97.645	91.692	5000	4963	ug/L	-1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2065785	2155835	4.36

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250558 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83459709177.1 File : met08_sn_6010 Time : 15-NOV-2013 21:41
Cal : 83459709001 Caldate : 15-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	[3.301]	5.000	1.372	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2065785	2026486	-1.90

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 250558 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83459709178.1 File : met08_sn_6010 Time : 15-NOV-2013 21:46
Cal : 83459709001 Caldate : 15-NOV-2013
Standards: S23303

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	508.9	ug/L	2	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2065785	1976393	-4.33

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83465579

Instrument : MET08 Begun : 11/19/13 07:39
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	met08_sn_6010	ICALBLK				11/19/13 07:39	1.0		
002	met08_sn_6010	ICAL	CRI5.1			11/19/13 07:44	1.0	1	
003	met08_sn_6010	ICAL	CS100			11/19/13 07:49	1.0	2	
004	met08_sn_6010	ICAL	CS1K			11/19/13 07:53	1.0	3	
005	met08_sn_6010	ICAL	CS10K			11/19/13 07:58	1.0	4	
006	met08_sn_6010	ICAL	CS100K			11/19/13 08:04	1.0	5	
007	met08_sn_6010	ICV				11/19/13 08:11	1.0	6	
008	met08_sn_6010	XCRI				11/19/13 08:18	1.0	7	
009	met08_sn_6010	CRI				11/19/13 08:25	1.0	7	
010	met08_sn_6010	ICB				11/19/13 08:32	1.0		
011	met08_sn_6010	ICSA				11/19/13 08:37	1.0	8	10:AL=510000
012	met08_sn_6010	ICSAB				11/19/13 09:18	1.0	9	5:AL=500000
013	met08_sn_6010	BLANK	QC716662	Water	205195	11/19/13 09:25	1.0		
014	met08_sn_6010	BS	QC716663	Water	205195	11/19/13 09:29	1.0		
015	met08_sn_6010	BSD	QC716664	Water	205195	11/19/13 09:33	1.0		
016	met08_sn_6010	MSS	250814-001	Water	205195	11/19/13 09:37	1.0		3:FE=430000
017	met08_sn_6010	MS	QC716665	Water	205195	11/19/13 09:40	1.0		
018	met08_sn_6010	MSD	QC716666	Water	205195	11/19/13 09:43	1.0		
019	met08_sn_6010	SER	QC716667	Water	205195	11/19/13 09:47	5.0		
020	met08_sn_6010	PDS	QC716668	Water	205195	11/19/13 09:51	1.0	10 11	
021	met08_sn_6010	CCV				11/19/13 09:54	1.0	12	
022	met08_sn_6010	X				11/19/13 10:01	1.0		
023	met08_sn_6010	CCB				11/19/13 10:05	1.0		
024	met08_sn_6010	BLANK	QC716662	Water	205195	11/19/13 10:10	1.0		
025	met08_sn_6010	SAMPLE	250799-001	Water	205195	11/19/13 10:14	1.0		
026	met08_sn_6010	SAMPLE	250829-001	Water	205195	11/19/13 10:18	1.0		2:NA=400000
027	met08_sn_6010	SAMPLE	250874-001	Water	205195	11/19/13 10:26	1.0		
028	met08_sn_6010	MS	QC716665	Water	205195	11/19/13 10:30	1.0		
029	met08_sn_6010	MSD	QC716666	Water	205195	11/19/13 10:36	1.0		
030	met08_sn_6010	BLANK	QC716676	Soil	205197	11/19/13 10:39	1.0		
031	met08_sn_6010	BS	QC716677	Soil	205197	11/19/13 10:44	1.0		
032	met08_sn_6010	BSD	QC716678	Soil	205197	11/19/13 10:48	1.0		
033	met08_sn_6010	MSS	250774-001	Soil	205197	11/19/13 10:52	1.0		6:MG=3100000
034	met08_sn_6010	CCV				11/19/13 10:55	1.0	12	
035	met08_sn_6010	X				11/19/13 11:02	1.0		
036	met08_sn_6010	CCB				11/19/13 11:06	1.0		
037	met08_sn_6010	MS	QC716679	Soil	205197	11/19/13 11:11	1.0		5:MG=3000000
038	met08_sn_6010	ICSAB				11/19/13 11:15	1.0	9	5:MG=500000
039	met08_sn_6010	MSD	QC716680	Soil	205197	11/19/13 11:21	1.0		6:MG=2400000
040	met08_sn_6010	SER	QC716681	Soil	205197	11/19/13 11:25	5.0		
041	met08_sn_6010	MSS	250774-001	Soil	205197	11/19/13 11:28	1.0		6:MG=3100000
042	met08_sn_6010	PDS	QC716682	Soil	205197	11/19/13 11:31	1.0	13 14	
043	met08_sn_6010	SAMPLE	250774-002	Soil	205197	11/19/13 11:34	1.0		7:MG=2700000
044	met08_sn_6010	SAMPLE	250774-003	Soil	205197	11/19/13 11:38	1.0		6:MG=2800000
045	met08_sn_6010	SAMPLE	250774-004	Soil	205197	11/19/13 11:41	1.0		5:MG=3100000
046	met08_sn_6010	SAMPLE	250774-005	Soil	205197	11/19/13 11:44	1.0		6:MG=2900000
047	met08_sn_6010	SAMPLE	250774-006	Soil	205197	11/19/13 11:48	1.0		5:MG=3000000
048	met08_sn_6010	CCV				11/19/13 11:51	1.0	12	
049	met08_sn_6010	X				11/19/13 11:58	1.0		
050	met08_sn_6010	CCB				11/19/13 12:20	1.0		
051	met08_sn_6010	SAMPLE	250803-001	Soil	205197	11/19/13 12:24	1.0		5:FE=400000
052	met08_sn_6010	SAMPLE	250819-018	Soil	205197	11/19/13 12:28	1.0		6:FE=670000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83465579

Instrument : MET08 Begun : 11/19/13 07:39
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
053	met08_sn_6010	SAMPLE	250819-019	Soil	205197	11/19/13 12:34	1.0		5:FE=660000
054	met08_sn_6010	SAMPLE	250819-020	Soil	205197	11/19/13 12:41	1.0		5:FE=560000
055	met08_sn_6010	SAMPLE	250774-002	Soil	205197	11/19/13 12:48	1.0		7:MG=2700000
056	met08_sn_6010	SAMPLE	250774-003	Soil	205197	11/19/13 12:51	1.0		6:MG=2700000
057	met08_sn_6010	SAMPLE	250774-005	Soil	205197	11/19/13 12:55	1.0		6:MG=2900000
058	met08_sn_6010	SAMPLE	250774-006	Soil	205197	11/19/13 12:58	1.0		5:MG=3100000
059	met08_sn_6010	X	RINSE			11/19/13 13:01	1.0		
060	met08_sn_6010	BLANK	QC716691	Filtrate	205201	11/19/13 13:05	1.0		
061	met08_sn_6010	CCV				11/19/13 13:09	1.0	12	
062	met08_sn_6010	X				11/19/13 13:16	1.0		
063	met08_sn_6010	CCB				11/19/13 13:20	1.0		
064	met08_sn_6010	BS	QC716692	Filtrate	205201	11/19/13 13:25	1.0		
065	met08_sn_6010	ICSAB				11/19/13 13:29	1.0	9	5:AL=520000
066	met08_sn_6010	BSD	QC716693	Filtrate	205201	11/19/13 13:36	1.0		
067	met08_sn_6010	MSS	250558-005	Filtrate	205201	11/19/13 13:40	1.0		2:NA=360000
068	met08_sn_6010	MS	QC716694	Filtrate	205201	11/19/13 13:45	1.0		
069	met08_sn_6010	MSD	QC716695	Filtrate	205201	11/19/13 13:49	1.0		
070	met08_sn_6010	SER	QC716696	Filtrate	205201	11/19/13 13:54	5.0		
071	met08_sn_6010	PDS	QC716697	Filtrate	205201	11/19/13 13:59	1.0	13 14	
072	met08_sn_6010	SAMPLE	250776-001	Filtrate	205201	11/19/13 14:04	1.0		1:MG=480000
073	met08_sn_6010	SAMPLE	250776-002	Filtrate	205201	11/19/13 14:10	1.0		2:MG=380000
074	met08_sn_6010	SAMPLE	250776-003	Filtrate	205201	11/19/13 14:17	1.0		1:MG=220000
075	met08_sn_6010	CCV				11/19/13 14:25	1.0	12	
076	met08_sn_6010	X				11/19/13 14:32	1.0		
077	met08_sn_6010	CCB				11/19/13 14:36	1.0		
078	met08_sn_6010	BLANK	QC716691	Filtrate	205201	11/19/13 14:41	1.0		
079	met08_sn_6010	SAMPLE	250776-004	Filtrate	205201	11/19/13 14:46	1.0		2:MG=180000
080	met08_sn_6010	SAMPLE	250776-005	Filtrate	205201	11/19/13 14:53	1.0		2:MG=170000
081	met08_sn_6010	SAMPLE	250781-001	Filtrate	205201	11/19/13 15:00	1.0		1:NA=140000
082	met08_sn_6010	SAMPLE	250781-002	Filtrate	205201	11/19/13 15:08	1.0		
083	met08_sn_6010	SAMPLE	250781-003	Filtrate	205201	11/19/13 15:13	1.0		
084	met08_sn_6010	SAMPLE	250803-001	Soil	205197	11/19/13 15:18	1.0		5:FE=410000
085	met08_sn_6010	SAMPLE	250819-018	Soil	205197	11/19/13 15:21	1.0		6:FE=700000
086	met08_sn_6010	SAMPLE	250819-019	Soil	205197	11/19/13 15:28	1.0		5:FE=700000
087	met08_sn_6010	SAMPLE	250776-004	Filtrate	205201	11/19/13 15:35	1.0		2:MG=170000
088	met08_sn_6010	CCV				11/19/13 15:42	1.0	12	
089	met08_sn_6010	X				11/19/13 15:49	1.0		
090	met08_sn_6010	CCB				11/19/13 15:53	1.0		
091	met08_sn_6010	SAMPLE	250819-020	Soil	205197	11/19/13 15:58	1.0		5:FE=570000
092	met08_sn_6010	ICSAB				11/19/13 16:05	1.0	9	5:AL=540000
093	met08_sn_6010	SAMPLE	250776-001	Filtrate	205201	11/19/13 16:12	1.0		1:MG=480000
094	met08_sn_6010	SAMPLE	250776-002	Filtrate	205201	11/19/13 16:18	1.0		2:MG=380000
095	met08_sn_6010	PDS	QC716682	Soil	205197	11/19/13 16:25	1.0	13 14	1:MG=3100000
096	met08_sn_6010	PDS	QC716697	Filtrate	205201	11/19/13 16:28	1.0	13 14	
097	met08_sn_6010	BLANK	QC716085	Soil	205052	11/19/13 16:32	1.0		
098	met08_sn_6010	BS	QC716086	Soil	205052	11/19/13 16:37	1.0		
099	met08_sn_6010	BSD	QC716087	Soil	205052	11/19/13 16:41	1.0		
100	met08_sn_6010	MSS	250773-003	Soil	205052	11/19/13 16:45	1.0		6:MG=490000
101	met08_sn_6010	SAMPLE	250734-015	Soil	205160	11/19/13 16:48	1.0		6:FE=280000
102	met08_sn_6010	CCV				11/19/13 16:55	1.0	12	
103	met08_sn_6010	X				11/19/13 17:02	1.0		
104	met08_sn_6010	CCB				11/19/13 17:04	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83465579

Instrument : MET08 Begun : 11/19/13 07:39
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
105	met08_sn_6010	MS	QC716088	Soil	205052	11/19/13 17:10	1.0		
106	met08_sn_6010	MSD	QC716089	Soil	205052	11/19/13 17:13	1.0		
107	met08_sn_6010	SER	QC716090	Soil	205052	11/19/13 17:16	5.0		
108	met08_sn_6010	PDS	QC716091	Soil	205052	11/19/13 17:20	1.0	13 14	6:MG=510000
109	met08_sn_6010	SAMPLE	250773-001	Soil	205052	11/19/13 17:23	1.0		5:MG=2600000
110	met08_sn_6010	SAMPLE	250773-002	Soil	205052	11/19/13 17:27	1.0		7:MG=2600000
111	met08_sn_6010	SAMPLE	250773-004	Soil	205052	11/19/13 17:30	1.0		5:MG=580000
112	met08_sn_6010	SAMPLE	250773-005	Soil	205052	11/19/13 17:33	1.0		7:MG=2500000
113	met08_sn_6010	SAMPLE	250773-006	Soil	205052	11/19/13 17:37	1.0		6:MG=1000000
114	met08_sn_6010	SAMPLE	250773-007	Soil	205052	11/19/13 17:40	1.0		7:MG=2600000
115	met08_sn_6010	CCV				11/19/13 17:43	1.0	12	
116	met08_sn_6010	XCCB				11/19/13 17:50	1.0		
117	met08_sn_6010	CCB				11/19/13 17:53	1.0		
118	met08_sn_6010	SAMPLE	250773-008	Soil	205052	11/19/13 17:57	1.0		4:MG=1400000
119	met08_sn_6010	ICSAB				11/19/13 18:00	1.0	9	5:AL=540000
120	met08_sn_6010	SAMPLE	250773-009	Soil	205052	11/19/13 18:07	1.0		4:MG=560000
121	met08_sn_6010	SAMPLE	250773-010	Soil	205052	11/19/13 18:10	1.0		7:MG=2200000
122	met08_sn_6010	SAMPLE	250773-011	Soil	205052	11/19/13 18:13	1.0		6:MG=490000
123	met08_sn_6010	SAMPLE	250773-012	Soil	205052	11/19/13 18:17	1.0		5:MG=860000
124	met08_sn_6010	SAMPLE	250773-013	Soil	205052	11/19/13 18:23	1.0		7:MG=1300000
125	met08_sn_6010	SAMPLE	250773-014	Soil	205052	11/19/13 18:27	1.0		6:MG=1600000
126	met08_sn_6010	CCV				11/19/13 18:30	1.0	12	
127	met08_sn_6010	XCCB				11/19/13 18:37	1.0		
128	met08_sn_6010	CCB				11/19/13 18:40	1.0		
129	met08_sn_6010	ICSAB				11/19/13 18:44	1.0	9	5:AL=530000
130	met08_sn_6010	CCV				11/19/13 19:15	1.0	12	
131	met08_sn_6010	XCCB				11/19/13 19:22	1.0		
132	met08_sn_6010	CCB				11/19/13 19:26	1.0		
133	met08_sn_6010	ICSAB				11/19/13 19:31	1.0	9	5:AL=530000
134	met08_sn_6010	SAMPLE	250773-002	Soil	205052	11/19/13 19:54	1.0		7:MG=2500000
135	met08_sn_6010	CCV				11/19/13 19:57	1.0	12	
136	met08_sn_6010	XCCB				11/19/13 20:04	1.0		
137	met08_sn_6010	CCB				11/19/13 20:08	1.0		
138	met08_sn_6010	ICSAB				11/19/13 20:13	1.0	9	5:AL=530000

NT 11/19/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 12.

AH 11/19/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 13 through 104.

CRT 11/19/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 105 through 133.

Standards used: 1=S23297 2=S23299 3=S23298 4=S23300 5=S23301 6=S23304 7=S23306 8=S23302 9=S23303 10=S21652 11=S21653 12=S23305 13=S23461 14=S23462

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83465579

Date : 11/19/13 Reference : met08_sn_6010
Sequence : MET08 11/19/13 Analyzed : 11/19/13 07:44

#	Type	Sample ID	Y A
		ICAL STD	2337834
		LOWER LIMIT	701350
		UPPER LIMIT	4675668
010	ICB		2344135
011	ICSA		2117252
012	ICSAB		2140489
013	BLANK	QC716662	2594184
014	BS	QC716663	2465090
015	BSD	QC716664	2437937
016	MSS	250814-001	2387588
017	MS	QC716665	2388721
018	MSD	QC716666	2364605
019	SER	QC716667	2410770
020	PDS	QC716668	2420199
021	CCV		2381723
023	CCB		2354682
024	BLANK	QC716662	2596389
025	SAMPLE	250799-001	2517674
026	SAMPLE	250829-001	2276323
027	SAMPLE	250874-001	2418966
028	MS	QC716665	2452831
029	MSD	QC716666	2382688
030	BLANK	QC716676	2432354
031	BS	QC716677	2367711
032	BSD	QC716678	2361490
034	CCV		2402702
036	CCB		2370071
037	MS	QC716679	2031356
038	ICSAB		2123352
039	MSD	QC716680	2060463
040	SER	QC716681	2301043
042	PDS	QC716682	1996292
048	CCV		2379849
050	CCB		2497456
051	SAMPLE	250803-001	2347433
052	SAMPLE	250819-018	2317941
053	SAMPLE	250819-019	2359799
054	SAMPLE	250819-020	2303272
060	BLANK	QC716691	2465981
061	CCV		2348058
063	CCB		2303313
064	BS	QC716692	2351798
065	ICSAB		2090546
066	BSD	QC716693	2359395
067	MSS	250558-005	2071645
068	MS	QC716694	2123068
069	MSD	QC716695	2122653
070	SER	QC716696	2153528
071	PDS	QC716697	1992803
072	SAMPLE	250776-001	2045771
073	SAMPLE	250776-002	2068774

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83465579

Date : 11/19/13 Reference : met08_sn_6010
Sequence : MET08 11/19/13 Analyzed : 11/19/13 07:44

#	Type	Sample ID	Y A
074	SAMPLE	250776-003	2051813
075	CCV		2309903
077	CCB		2273507
078	BLANK	QC716691	2290734
079	SAMPLE	250776-004	2118689
080	SAMPLE	250776-005	2056148
081	SAMPLE	250781-001	2211154
082	SAMPLE	250781-002	2157346
083	SAMPLE	250781-003	2180144
084	SAMPLE	250803-001	2234360
085	SAMPLE	250819-018	2263823
086	SAMPLE	250819-019	2254442
087	SAMPLE	250776-004	2054242
088	CCV		2336883
090	CCB		2220416
091	SAMPLE	250819-020	2246467
092	ICSAB		2029639
093	SAMPLE	250776-001	2049513
094	SAMPLE	250776-002	2027488
095	PDS	QC716682	1909288
096	PDS	QC716697	2154131
097	BLANK	QC716085	3123885
098	BS	QC716086	2236709
099	BSD	QC716087	2196438
101	SAMPLE	250734-015	2373251
102	CCV		2317779
104	CCB		2253976
105	MS	QC716088	2101198
106	MSD	QC716089	2087189
107	SER	QC716090	2201275
108	PDS	QC716091	2134414
115	CCV		2283515
117	CCB		2347853
119	ICSAB		2037523
126	CCV		2260986
128	CCB		2340718
129	ICSAB		2030056
130	CCV		2298867
132	CCB		2209960
133	ICSAB		2004360
135	CCV		2287035
137	CCB		2151018
138	ICSAB		2010896

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 250558 METALS Filtrate: EPA 6010B

Inst : MET08 Reviewer : ---
Calnum : 83465579001 Date : 19-NOV-2013 07:39
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	met08_sn_6010	83465579002	CRI5.1	19-NOV-2013 07:44	S23297
L2	met08_sn_6010	83465579003	CS100	19-NOV-2013 07:49	S23299
L3	met08_sn_6010	83465579004	CS1K	19-NOV-2013 07:53	S23298
L4	met08_sn_6010	83465579005	CS10K	19-NOV-2013 07:58	S23300
L5	met08_sn_6010	83465579006	CS100K	19-NOV-2013 08:04	S23301

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Chromium	A	107.42	105.01	104.58	100.23		LOR0	0.00000	0.00997		104.31	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Chromium	A	5.0000	7	100.00	5	1000.0	4	10000	0		

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 250558 METALS Filtrate
EPA 6010B

Inst : MET08
Calnum : 83465579001 Cal Date : 19-NOV-2013

ICV 83465579007 (19-NOV-2013) stds: S23304

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Chromium	A	5000	5078	ug/L	2	10	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250558 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83465579010.3 File : met08_sn_6010 Time : 19-NOV-2013 08:32
Cal : 83465579001 Caldate : 19-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2337834	2344135	0.27

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR 250558 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83465579011.3 File : met08_sn_6010 Time : 19-NOV-2013 08:37
Cal : 83465579001 Caldate : 19-NOV-2013
Standards: S23302

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	20070	ug/L	100
Copper	A	20000	21030	ug/L	105
Manganese	A	20000	19340	ug/L	97
Nickel	A	20000	18970	ug/L	95
Vanadium	A	20000	20000	ug/L	100
Aluminum	R	500000	511900	ug/L	102
Calcium	R	500000	498300	ug/L	100
Iron	R	200000	195900	ug/L	98
Magnesium	R	500000	508700	ug/L	102
Titanium	R	20000	21580	ug/L	108

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2337834	2117252	-9.44

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 250558 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83465579038.2 File : met08_sn_6010 Time : 19-NOV-2013 11:15
Cal : 83465579001 Caldate : 19-NOV-2013
Standards: S23303

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	540.4	ug/L	8	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2337834	2123352	-9.17

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 250558 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83465579061.2 File : met08_sn_6010 Time : 19-NOV-2013 13:09
Cal : 83465579001 Caldate : 19-NOV-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	104.31	105.22	5000	5246	ug/L	5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2337834	2348058	0.44

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250558 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83465579063.2 File : met08_sn_6010 Time : 19-NOV-2013 13:20
Cal : 83465579001 Caldate : 19-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2337834	2303313	-1.48

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 250558 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83465579065.1 File : met08_sn_6010 Time : 19-NOV-2013 13:29
Cal : 83465579001 Caldate : 19-NOV-2013
Standards: S23303

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	533.3	ug/L	7	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2337834	2090546	-10.58

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 250558 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83465579075.1 File : met08_sn_6010 Time : 19-NOV-2013 14:25
Cal : 83465579001 Caldate : 19-NOV-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	104.31	105.43	5000	5257	ug/L	5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2337834	2309903	-1.19

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250558 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83465579077.1 File : met08_sn_6010 Time : 19-NOV-2013 14:36
Cal : 83465579001 Caldate : 19-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2337834	2273507	-2.75

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 250558 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83465579088.2 File : met08_sn_6010 Time : 19-NOV-2013 15:42
Cal : 83465579001 Caldate : 19-NOV-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	104.31	105.63	5000	5267	ug/L	5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2337834	2336883	-0.04

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250558 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83465579090.2 File : met08_sn_6010 Time : 19-NOV-2013 15:53
Cal : 83465579001 Caldate : 19-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2337834	2220416	-5.02

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 250558 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83465579092.2 File : met08_sn_6010 Time : 19-NOV-2013 16:05
Cal : 83465579001 Caldate : 19-NOV-2013
Standards: S23303

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	544.0	ug/L	9	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2337834	2029639	-13.18

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 250558 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83465579102.2 File : met08_sn_6010 Time : 19-NOV-2013 16:55
Cal : 83465579001 Caldate : 19-NOV-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	104.31	107.08	5000	5339	ug/L	7	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2337834	2317779	-0.86

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250558 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83465579104.2 File : met08_sn_6010 Time : 19-NOV-2013 17:04
Cal : 83465579001 Caldate : 19-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2337834	2253976	-3.59

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 250558 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83465579119.1 File : met08_sn_6010 Time : 19-NOV-2013 18:00
Cal : 83465579001 Caldate : 19-NOV-2013
Standards: S23303

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	555.9	ug/L	11	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2337834	2037523	-12.85

SAMPLE PREPARATION SUMMARY

Batch # : 204858
Started By : NCD
Method : 3010A
Spike #1 ID : S21652

Prep Date : 07-NOV-2013 15:30
SOP Version : 3010A_icp_rv15
Spike #2 ID : S21653

Analysis : ICAP
Finished By : NCD
Units : mL

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
250555-001		Filtrate	50	50	1	1.0						CR	
250555-002		Filtrate	50	50	1	1.0						CR	
250555-003		Filtrate	50	50	1	1.0						CR	
250555-004		Filtrate	50	50	1	1.0						CR	
250555-005		Filtrate	50	50	1	1.0						CR	
250555-006		Filtrate	50	50	1	1.0						CR	
250555-007		Filtrate	50	50	1	1.0						CR	
250555-008		Filtrate	50	50	1	1.0						CR	
250558-001		Filtrate	50	50	1	1.0						CR	
250558-002		Filtrate	50	50	1	1.0						CR	
250558-003		Filtrate	50	50	1	1.0						CR	
250558-004		Filtrate	50	50	1	1.0						CR	
250558-005		Filtrate	50	50	1	1.0						(rebatched)	
250558-008		Filtrate	50	50	1	1.0						CR	
250558-009		Filtrate	50	50	1	1.0						CR	
250558-010		Filtrate	50	50	1	1.0						CR	
QC715293	BLANK	Filtrate	50	50	1	1.0							
QC715294	BS	Filtrate	50	50	1	1.0		.5	.5				
QC715295	BSD	Filtrate	50	50	1	1.0		.5	.5				
QC715296	MS	Filtrate	50	50	1	1.0		.5	.5				
QC715297	MSD	Filtrate	50	50	1	1.0		.5	.5				
QC715298	MS	Filtrate	50	50	1	1.0		.5	.5				
QC715299	MSD	Filtrate	50	50	1	1.0		.5	.5				
QC715300	SER	Filtrate	50	50	1	1.0							
QC715301	PDS	Filtrate	50	50	1	1.0							
QC715305	BLANK	Filtrate	50	50	1	1.0							

Analyst: NT Date: 11/18/13 Reviewer: PRW Date: 11/18/13

Water Digestion for ICP

Curtis & Tompkins, Ltd.

LIMS Batch #: 204858
Digested by: NCD
Date Digested: 11/7/2013

Digestion Method
☑ EPA 3010a for ICP
☐ EPA 200.7
☑ Filtrate prep

BK3498
Page 33

Vl.	Sample #	Container ID	Volume Sample(mL)	Final Volume (mL)	Filtered? (y/n)	ID Π	Comments
	BLK		☑ 50	☑ 50	NO	/	BLK filter 250555
	BS		☑ 50	☑ 50	↓	/	
	BSD		☑ 50	☑ 50		/	
III	250555-005	O	☑ 50	☑ 50		/	MS
5	-005	↓	☑ 50	☑ 50		/	MSD
	-006	M	☑ 50	☑ 50		/	MS
	-006	↓	☑ 50	☑ 50		/	MSD
	-001	E	☑ 50	☑ 50		/	
	-002		☑ 50	☑ 50		/	
10	-003		☑ 50	☑ 50		/	
	-004	↓	☑ 50	☑ 50		/	
	-005	O	☑ 50	☑ 50		/	
	-006	M	☑ 50	☑ 50		/	
	-007	E	☑ 50	☑ 50		/	
15	-008	↓	☑ 50	☑ 50		/	
III	250558-001	E	☑ 50	☑ 50		/	
	-002		☑ 50	☑ 50		/	
	-003		☑ 50	☑ 50		/	
	-004		☑ 50	☑ 50		/	
20	-005		☑ 50	☑ 50		/	
	-006		☑ 50	☑ 50		/	
	-009		☑ 50	☑ 50		/	
	-010	↓	☑ 50	☑ 50	↓	/	
	BLK2		☑ 50	☑ 50	NO	/	BLK filter 250558
			☐ 50	☐ 50			

	Reagent ID or LIMS #	Initials / Date
Digestion tubes, lot #	Accuflow	NCD 11/07/2013
0.5 mL of spike solution (Std1) was added to all spikes	S21653	
0.5 mL of spike solution (Std2) was added to all spikes	S21652	
Digestion Temperature (°C), Block and Probe Location	—	—
Digestion begun at (time)	15:30	
☐ Conc. HNO3 or ☑ 1:1 HNO3	21587	
1:1 HCl	102772 - 103113	
digestion ended at (time)	—	
☐ filtered thru' Whatman # 541	—	
Relinquished to ICP group	ICAP	↓

11/07/2013
Prep Chemist / Date

Continued from page _____.
Continued on page _____.

Reviewed Online / See LIMS

SAMPLE PREPARATION SUMMARY

Batch # : 205201
Started By : NCD
Method : 3010A
Spike #1 ID : S21653

Prep Date : 18-NOV-2013 14:40
SOP Version : 3010A_icp_rv15
Spike #2 ID : S21652

Analysis : ICAP
Finished By : NCD
Units : mL

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
250558-005		Filtrate	50	50	1	1.0						CR	
250776-001		Filtrate	50	50	1	1.0						FE, T22/ICP	
250776-002		Filtrate	50	50	1	1.0						FE, T22/ICP	
250776-003		Filtrate	50	50	1	1.0						FE, T22/ICP	
250776-004		Filtrate	50	50	1	1.0						FE, T22/ICP	
250776-005		Filtrate	50	50	1	1.0						FE, T22/ICP	
250781-001		Filtrate	50	50	1	1.0						T22/ICP	
250781-002		Filtrate	50	50	1	1.0						T22/ICP	
250781-003		Filtrate	50	50	1	1.0						T22/ICP	
QC716691	BLANK	Filtrate	50	50	1	1.0							
QC716692	BS	Filtrate	50	50	1	1.0		.5	.5				
QC716693	BSD	Filtrate	50	50	1	1.0		.5	.5				
QC716694	MS	Filtrate	50	50	1	1.0		.5	.5				
QC716695	MSD	Filtrate	50	50	1	1.0		.5	.5				
QC716696	SER	Filtrate	50	50	1	1.0							
QC716697	PDS	Filtrate	50	50	1	1.0							

Analyst: CRT Date: 11/19/13 Reviewer: PRW Date: 11/20/13

Curtis & Tompkins, Ltd.

Water Digestion for ICP

BK3498

Page 52

LIMS Batch #: 205201
Digested by: WCP
Date Digested: 11/18/2013

Digestion Method
☒ EPA 3010a for ICP
☐ EPA 200.7
☒ Filtrate prep

Lvl.	Sample #	Container ID	Volume Sample(mL)	Final Volume (mL)	Filtered? (y/n)	ID Π	Comments
	BSIK 716691		50	50	N		Dlk filtr 250558
	BS 92		50	50			
	BSD 93		50	50			
II	250558-005 MS	E	50	50			
5	-005 MSD		50	50			
	-005		50	50			
I	250776-001	G	50	50			Verified pH<2
	-002		50	50			
	-003		50	50			
	-004		50	50			
10	-005		50	50			
	250781-001	G	50	50			
	-002		50	50			
	-003		50	50			
15			50	50			
			50	50			
			50	50			
			50	50			
			50	50			
			50	50			
20			50	50			
			50	50			
			50	50			
			50	50			
			50	50			
			50	50			

11/18/2013 WCP

	Reagent ID or LIMS #	Initials / Date
Digestion tubes, lot #	Accuflow	WCP 11/18/2013
0.5 mL of spike solution (Std1) was added to all spikes	S21653	
0.5 mL of spike solution (Std2) was added to all spikes	S21652	
Digestion Temperature (°C), Block and Probe Location	—	—
Digestion begun at (time)	14:00	
☐ Conc. HNO3 or ☒ 1:1 HNO3	21587	
1:1 HCl	40272-105115	
digestion ended at (time)		
☐ Filtered thru' Whatman # 541		
Relinquished to ICP group	IAP	

11/18/2013
Prep Chemist / Date

Continued from page _____
Continued on page _____

Reviewed Online / See LIMS

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 250604
ANALYTICAL REPORT

Haley & Aldrich 400 East Van Buren Street Phoenix, CA 85004	Project : 39049-103 Location : PGA South Level : III

Sample ID	Lab ID
GMW-01	250604-001
GMW-02	250604-002
GMW-09MC	250604-003
COG-05	250604-004
E-102	250604-005
GMW-13UC	250604-006
GMW-14UC	250604-007
GMW-15UC	250604-008
GMW-16UC	250604-009
GMW-17UC	250604-010
GMW-18UC	250604-011
GMW-19LC	250604-012
GMW-20LC	250604-013
GMW-25LC	250604-014
GMW-26LC	250604-015
TRIP BLANKS	250604-016

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Isabelle Choy Date: 11/22/2013

Isabelle Choy
Project Manager
isabelle.choy@ctberk.com

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**250604**
Client:	**Haley & Aldrich**
Project:	**39049-103**
Location:	**PGA South**
Request Date:	**11/07/13**
Samples Received:	**11/07/13**

This data package contains sample and QC results for sixteen water samples, requested for the above referenced project on 11/07/13. See attached cooler receipt form for any sample receipt problems or discrepancies.

Volatile Organics by GC/MS (EPA 8260B):
High response was observed for 1,2-dichlorobenzene in the CCV analyzed 11/16/13 14:35; this analyte was not detected at or above the RL in the associated samples.

No other analytical problems were encountered.

Metals (EPA 6010B) Water:
No analytical problems were encountered.

Metals (EPA 6010B) Filtrate:
No analytical problems were encountered.

Chain of Custody

CHAIN OF CUSTODY

Chain of Custody # _____

Curtis & Tompkins Laboratories
ENVIRONMENTAL ANALYTICAL TESTING LABORATORY
In Business Since 1878

2323 Fifth Street
Berkeley, CA 94710

Phone (510) 486-0900
Fax (510) 486-0532

C&T LOGIN # 2506004

Project No: 39049-103
Project Name: PGAS
Project P. O. No: 39049-103
EDD Format: Report Level ☐ II ☐ III ☐ IV
Turnaround Time: ☐ RUSH _____ ☒ Standard

Sampler: Mark Argell
Report To: Paula Chang
Company: H&A
Telephone: 602-760-2418
Email: pchang@haleyaldrich.com

Lab No.	Sample ID.	Sampling: Date Collected	Sampling: Time Collected	Matrix: Water	Matrix: Solid	# of Containers	Chemical Preservative: HCl	H2SO4	HNO3	NaOH	None	ANALYTICAL REQUEST: 8260B Halogenated only	6010B Total chromium	6010B w/ filtered & preserved dissolved chromium
1	GMW-01	11-6-13	1130	X		5	X		X			X	X	X
2	GMW-02		1145	X		5	X		X			X	X	X
3	GMW-09MC		1200	X		5	X		X			X	X	X
4	CO6-05		1100	X		5	X		X			X	X	X
5	E-102		1020	X		5	X		X			X	X	X
6	GMW-13uC		0630	X		5	X		X			X	X	X
7	GMW-14uC		0645	X		5	X		X			X	X	X
8	GMW-15uC		1000	X		5	X		X			X	X	X
9	GMW-16uC		0945	X		5	X		X			X	X	X
10	GMW-17uC		0725	X		5	X		X			X	X	X
11	GMW-18uC		0700	X		5	X		X			X	X	X
12	GMW-19LC		0755	X		5	X		X			X	X	X
13	GMW-20LC		0915	X		5	X		X			X	X	X

Notes: Lab filter + preserve 6010B dissolved chromium upon receipt

SAMPLE RECEIPT
☐ Intact
☐ Cold
☐ On Ice
☐ Ambient

RELINQUISHED BY:			RECEIVED BY:		
11-6-13 Mark Argell	DATE:	TIME:	Tina Rankin	DATE: 11/7/13	TIME: 1000
	DATE:	TIME:		DATE:	TIME:
	DATE:	TIME:		DATE:	TIME:

CHAIN OF CUSTODY

Chain of Custody # _____

Curtis & Tompkins Laboratories
ENVIRONMENTAL ANALYTICAL TESTING LABORATORY
In Business Since 1878

2323 Fifth Street
Berkeley, CA 94710

Phone (510) 486-0900
Fax (510) 486-0532

C&T LOGIN # 250604

Project No: 39049-103
Project Name: PGAS
Project P. O. No: 39049-103
EDD Format: Report Level ☐ II ☐ III ☐ IV
Turnaround Time: ☐ RUSH _____ ☒ Standard

Sampler: Mark Argell
Report To: Paula Chang
Company: H&A
Telephone: 602-760-2418
Email: pchang@haleyaldrich.com

ANALYTICAL REQUEST

Lab No.	Sample ID.	Date Collected	Time Collected	Water	Solid	# of Containers	HCl	H2SO4	HNO3	NaOH	None	Halogenated only 8260B	Total Chromium 6010B	Dissolved Chromium 6010B
14	6MW-25LC	11-6-13	0900	X		5	X		X			X	X	X
15	6MW-26LC	11-6-13	0830	X		5	X		X			X	X	X
16	Trip Blanks			X		3	X		~~X~~			X		
~~4~~	Temp Blank			X		1				X				

Notes: Lab filter & preserve 6010B dissolved chromium upon receipt

SAMPLE RECEIPT
☐ Intact
☐ Cold
☐ On Ice
☐ Ambient

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
[signature]	11-6-13		Lina Raikar	11/7/13	~~1000~~

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 250604 Date Received 11/7/13 Number of coolers 1
Client H&A Project PGAS (39049-103)

Date Opened 11/7/13 By (print) TR (sign) Tina Raikea
Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc) FEDEX (YES) NO
   Shipping info 8034 7753 1782

2A. Were custody seals present? .... ☒YES (circle) (on cooler) on samples ☐ NO
   How many 2 Name Signature Date 11/6/13
2B. Were custody seals intact upon arrival? (YES) NO N/A
3. Were custody papers dry and intact when received? (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) (YES) NO
6. Indicate the packing in cooler: (if other, describe)

☐ Bubble Wrap ☒ Foam blocks ☒ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) 3.0

☐ Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES (NO)
   If YES, what time were they transferred to freezer?
9. Did all bottles arrive unbroken/unopened? (YES) NO
10. Are there any missing / extra samples? YES (NO)
11. Are samples in the appropriate containers for indicated tests? (YES) NO
12. Are sample labels present, in good condition and complete? (YES) NO
13. Do the sample labels agree with custody papers? (YES) NO
14. Was sufficient amount of sample sent for tests requested? (YES) NO
15. Are the samples appropriately preserved? (YES) NO N/A
16. Did you check preservatives for all bottles for each sample? (YES) NO N/A
17. Did you document your preservative check? (YES) NO N/A
18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO (N/A)
19. Did you change the hold time in LIMS for preserved terracores? YES NO (N/A)
20. Are bubbles > 6mm absent in VOA samples? (YES) NO N/A
21. Was the client contacted concerning this sample delivery? YES (NO)
   If YES, Who was called? By Date:

COMMENTS

Rev 10, 11/11

Curtis & Tompkins Sample Preservation for 250604

Sample	pH: <2	>9	>12	Other
-001a	[ ]	[ ]	[ ]	____
b	[ ]	[ ]	[ ]	____
c	[ ]	[ ]	[ ]	____
d	[X]	[ ]	[ ]	____
e	[ ]	[ ]	[ ]	____
-002a	[ ]	[ ]	[ ]	____
b	[ ]	[ ]	[ ]	____
c	[ ]	[ ]	[ ]	____
d	[X]	[ ]	[ ]	____
e	[ ]	[ ]	[ ]	____
-003a	[ ]	[ ]	[ ]	____
b	[ ]	[ ]	[ ]	____
c	[ ]	[ ]	[ ]	____
d	[X]	[ ]	[ ]	____
e	[ ]	[ ]	[ ]	____
-004a	[ ]	[ ]	[ ]	____
b	[ ]	[ ]	[ ]	____
c	[ ]	[ ]	[ ]	____
d	[X]	[ ]	[ ]	____
e	[ ]	[ ]	[ ]	____
-005a	[ ]	[ ]	[ ]	____
b	[ ]	[ ]	[ ]	____
c	[ ]	[ ]	[ ]	____
d	[X]	[ ]	[ ]	____
e	[ ]	[ ]	[ ]	____

Sample	pH: <2	>9	>12	Other
-006a	[ ]	[ ]	[ ]	____
b	[ ]	[ ]	[ ]	____
c	[ ]	[ ]	[ ]	____
d	[X]	[ ]	[ ]	____
e	[ ]	[ ]	[ ]	____
-007a	[ ]	[ ]	[ ]	____
b	[ ]	[ ]	[ ]	____
c	[ ]	[ ]	[ ]	____
d	[X]	[ ]	[ ]	____
e	[ ]	[ ]	[ ]	____
-008a	[ ]	[ ]	[ ]	____
b	[ ]	[ ]	[ ]	____
c	[ ]	[ ]	[ ]	____
d	[X]	[ ]	[ ]	____
e	[ ]	[ ]	[ ]	____
-009a	[ ]	[ ]	[ ]	____
b	[ ]	[ ]	[ ]	____
c	[ ]	[ ]	[ ]	____
d	[X]	[ ]	[ ]	____
e	[ ]	[ ]	[ ]	____
-010a	[ ]	[ ]	[ ]	____
b	[ ]	[ ]	[ ]	____
c	[ ]	[ ]	[ ]	____
d	[X]	[ ]	[ ]	____
e	[ ]	[ ]	[ ]	____

Sample	pH: <2	>9	>12	Other
-011a	[ ]	[ ]	[ ]	____
b	[ ]	[ ]	[ ]	____
c	[ ]	[ ]	[ ]	____
d	[X]	[ ]	[ ]	____
e	[ ]	[ ]	[ ]	____
-012a	[ ]	[ ]	[ ]	____
b	[ ]	[ ]	[ ]	____
c	[ ]	[ ]	[ ]	____
d	[X]	[ ]	[ ]	____
e	[ ]	[ ]	[ ]	____
-013a	[ ]	[ ]	[ ]	____
b	[ ]	[ ]	[ ]	____
c	[ ]	[ ]	[ ]	____
d	[X]	[ ]	[ ]	____
e	[ ]	[ ]	[ ]	____
-014a	[ ]	[ ]	[ ]	____
b	[ ]	[ ]	[ ]	____
c	[ ]	[ ]	[ ]	____
d	[X]	[ ]	[ ]	____
e	[ ]	[ ]	[ ]	____
-015a	[ ]	[ ]	[ ]	____
b	[ ]	[ ]	[ ]	____
c	[ ]	[ ]	[ ]	____
d	[X]	[ ]	[ ]	____
e	[ ]	[ ]	[ ]	____

Analyst: JR

Date: 11/7/13

Page 1 of 1

Laboratory Job Number 250604

ANALYTICAL REPORT

Volatile Organics by GC/MS

Matrix: Water

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	250604	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GMW-01	Batch#:	205154
Lab ID:	250604-001	Sampled:	11/06/13
Matrix:	Water	Received:	11/07/13
Units:	ug/L	Analyzed:	11/16/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	98	76-138
Toluene-d8	108	80-120
Bromofluorobenzene	111	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	250604	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GMW-02	Batch#:	205154
Lab ID:	250604-002	Sampled:	11/06/13
Matrix:	Water	Received:	11/07/13
Units:	ug/L	Analyzed:	11/16/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	1.5 J	2.0	0.2
1,1-Dichloroethene	0.8	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.5 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	0.9	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	49	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	0.4 J	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	97	76-138
Toluene-d8	103	80-120
Bromofluorobenzene	110	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	250604	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GMW-09MC	Batch#:	205154
Lab ID:	250604-003	Sampled:	11/06/13
Matrix:	Water	Received:	11/07/13
Units:	ug/L	Analyzed:	11/16/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	100	76-138
Toluene-d8	104	80-120
Bromofluorobenzene	109	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	250604	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	COG-05	Batch#:	205154
Lab ID:	250604-004	Sampled:	11/06/13
Matrix:	Water	Received:	11/07/13
Units:	ug/L	Analyzed:	11/16/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	2.8	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	101	76-138
Toluene-d8	104	80-120
Bromofluorobenzene	111	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	250604	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	E-102	Batch#:	205154
Lab ID:	250604-005	Sampled:	11/06/13
Matrix:	Water	Received:	11/07/13
Units:	ug/L	Analyzed:	11/16/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	1.1 J	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.1 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	0.1 J	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	3.0	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	104	76-138
Toluene-d8	102	80-120
Bromofluorobenzene	107	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	250604	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GMW-13UC	Batch#:	205154
Lab ID:	250604-006	Sampled:	11/06/13
Matrix:	Water	Received:	11/07/13
Units:	ug/L	Analyzed:	11/16/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	2.4	2.0	0.2
1,1-Dichloroethene	1.8	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	0.1 J	0.5	0.1
Chloroform	0.8 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	1.3	0.5	0.1
1,2-Dichloroethane	0.3 J	0.5	0.1
Trichloroethene	59	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	0.2 J	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	102	76-138
Toluene-d8	107	80-120
Bromofluorobenzene	114	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	250604	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GMW-14UC	Batch#:	205154
Lab ID:	250604-007	Sampled:	11/06/13
Matrix:	Water	Received:	11/07/13
Units:	ug/L	Analyzed:	11/16/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	3.8	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	100	76-138
Toluene-d8	107	80-120
Bromofluorobenzene	113	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	250604	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GMW-15UC	Batch#:	205154
Lab ID:	250604-008	Sampled:	11/06/13
Matrix:	Water	Received:	11/07/13
Units:	ug/L	Analyzed:	11/16/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.2 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	0.1 J	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	106	76-138
Toluene-d8	107	80-120
Bromofluorobenzene	108	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	250604	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GMW-16UC	Batch#:	205154
Lab ID:	250604-009	Sampled:	11/06/13
Matrix:	Water	Received:	11/07/13
Units:	ug/L	Analyzed:	11/16/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	6.4	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	104	76-138
Toluene-d8	105	80-120
Bromofluorobenzene	112	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	250604	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GMW-17UC	Batch#:	205154
Lab ID:	250604-010	Sampled:	11/06/13
Matrix:	Water	Received:	11/07/13
Units:	ug/L	Analyzed:	11/16/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.2 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	0.4 J	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	14	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	98	76-138
Toluene-d8	104	80-120
Bromofluorobenzene	109	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	250604	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GMW-18UC	Batch#:	205154
Lab ID:	250604-011	Sampled:	11/06/13
Matrix:	Water	Received:	11/07/13
Units:	ug/L	Analyzed:	11/16/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	2.5	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	101	76-138
Toluene-d8	106	80-120
Bromofluorobenzene	111	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	250604	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GMW-19LC	Batch#:	205154
Lab ID:	250604-012	Sampled:	11/06/13
Matrix:	Water	Received:	11/07/13
Units:	ug/L	Analyzed:	11/17/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	0.1 J	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.3 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	0.4 J	0.5	0.1
1,2-Dichloroethane	0.5 J	0.5	0.1
Trichloroethene	15	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	103	76-138
Toluene-d8	105	80-120
Bromofluorobenzene	106	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	250604	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GMW-20LC	Batch#:	205154
Lab ID:	250604-013	Sampled:	11/06/13
Matrix:	Water	Received:	11/07/13
Units:	ug/L	Analyzed:	11/17/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	1.9	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	99	76-138
Toluene-d8	104	80-120
Bromofluorobenzene	113	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	250604	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GMW-25LC	Batch#:	205162
Lab ID:	250604-014	Sampled:	11/06/13
Matrix:	Water	Received:	11/07/13
Units:	ug/L	Analyzed:	11/17/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.3
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	20	0.2
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.2
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	99	76-138
Toluene-d8	108	80-120
Bromofluorobenzene	103	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	250604	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GMW-26LC	Batch#:	205162
Lab ID:	250604-015	Sampled:	11/06/13
Matrix:	Water	Received:	11/07/13
Units:	ug/L	Analyzed:	11/17/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.3
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	20	0.2
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.2
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.1 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	1.7	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	0.3 J	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	0.8	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	1.2	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	99	76-138
Toluene-d8	106	80-120
Bromofluorobenzene	103	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	250604	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	TRIP BLANKS	Batch#:	205162
Lab ID:	250604-016	Sampled:	11/06/13
Matrix:	Water	Received:	11/07/13
Units:	ug/L	Analyzed:	11/17/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.3
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	20	0.2
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.2
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.1 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	101	76-138
Toluene-d8	106	80-120
Bromofluorobenzene	104	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	250604	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	205154
Units:	ug/L	Analyzed:	11/16/13
Diln Fac:	1.000		

Type: BS Lab ID: QC716497

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	12.91	103	77-132
Trichloroethene	12.50	14.05	112	80-120
Chlorobenzene	12.50	14.88	119	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	97	76-138
Toluene-d8	102	80-120
Bromofluorobenzene	106	80-125

Type: BSD Lab ID: QC716498

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	11.22	90	77-132	14	20
Trichloroethene	12.50	12.94	104	80-120	8	20
Chlorobenzene	12.50	14.19	114	80-120	5	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	99	76-138
Toluene-d8	106	80-120
Bromofluorobenzene	105	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	250604	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC716499	Batch#:	205154
Matrix:	Water	Analyzed:	11/16/13
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	99	76-138
Toluene-d8	107	80-120
Bromofluorobenzene	110	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	250604	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC716540	Batch#:	205162
Matrix:	Water	Analyzed:	11/17/13
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.3
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	20	0.2
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.2
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	97	76-138
Toluene-d8	106	80-120
Bromofluorobenzene	104	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	250604	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	205162
Units:	ug/L	Analyzed:	11/17/13
Diln Fac:	1.000		

Type: BS Lab ID: QC716541

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	18.75	20.56	110	77-132
Trichloroethene	18.75	19.45	104	80-120
Chlorobenzene	18.75	20.93	112	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	96	76-138
Toluene-d8	108	80-120
Bromofluorobenzene	102	80-125

Type: BSD Lab ID: QC716542

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	18.75	18.91	101	77-132	8	20
Trichloroethene	18.75	18.63	99	80-120	4	20
Chlorobenzene	18.75	19.26	103	80-120	8	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	97	76-138
Toluene-d8	105	80-120
Bromofluorobenzene	103	80-125

RPD= Relative Percent Difference

Initial & Continuing Calibration Data

CURTIS & TOMPKINS BFB TUNE FOR 250604 MSVOA Water
EPA 8260B

Inst : MSVOA08 Run Name : BFB IDF : 1.0
Seqnum : 473373617005 File : hig05 Time : 16-SEP-2013 13:44

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	14427	23.80	
75	30% - 60% of mass 95	26850	44.29	
95		60618	100.00	
96	5% - 9% of mass 95	4148	6.84	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	36882	60.84	
175	5% - 9% of mass 174	2791	7.57	
176	> 95% and < 101% of mass 174	35904	97.35	
177	5% - 9% of mass 176	2540	7.07	

Analyst: MJB Date: 09/17/13 Reviewer: LW Date: 09/18/13

CURTIS & TOMPKINS BFB TUNE FOR 250604 MSVOA Water
EPA 8260B

Inst : MSVOA08 Run Name : BFB IDF : 1.0
Seqnum : 473462887002 File : hkh02 Time : 17-NOV-2013 11:24

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	11161	23.73	
75	30% - 60% of mass 95	20946	44.54	
95		47024	100.00	
96	5% - 9% of mass 95	3428	7.29	
173	< 2% of mass 174	200	0.76	
174	> 50% and < 100% of mass 95	26220	55.76	
175	5% - 9% of mass 174	1754	6.69	
176	> 95% and < 101% of mass 174	25721	98.10	
177	5% - 9% of mass 176	1660	6.45	

Analyst: TEW Date: 11/18/13 Reviewer: LW Date: 11/18/13

CURTIS & TOMPKINS BFB TUNE FOR 250604 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : BFB IDF : 1.0
Seqnum : 483409438006 File : ijb06 Time : 11-OCT-2013 14:18

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	22946	27.13	
75	30% - 60% of mass 95	43258	51.15	
95		84578	100.00	
96	5% - 9% of mass 95	5331	6.30	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	56437	66.73	
175	5% - 9% of mass 174	4257	7.54	
176	> 95% and < 101% of mass 174	55994	99.22	
177	5% - 9% of mass 176	3723	6.65	

Analyst: BO Date: 10/15/13 Reviewer: LW Date: 10/16/13

CURTIS & TOMPKINS BFB TUNE FOR 250604 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : BFB IDF : 1.0
Seqnum : 483461478003 File : ikg03 Time : 16-NOV-2013 13:20

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	20095	22.02	
75	30% - 60% of mass 95	43410	47.56	
95		91269	100.00	
96	5% - 9% of mass 95	6495	7.12	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	67104	73.52	
175	5% - 9% of mass 174	5236	7.80	
176	> 95% and < 101% of mass 174	65453	97.54	
177	5% - 9% of mass 176	4378	6.69	

Analyst: TEW Date: 11/17/13 Reviewer: LW Date: 11/18/13

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 250604 MSVOA Water: EPA 8260B

Inst : MSVOA08 Name : 826GOX8
Calnum : 473373617004 Date : 16-SEP-2013 15:24 Type : WATER
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	hig08	473373617008		16-SEP-2013 15:24	S23102 (2000000X), S21950 (1000000X), S21953 (2000000X), S23013 (2000000X), S23235 (5000X)
L2	hig09	473373617009		16-SEP-2013 16:02	S23102 (1000000X), S21950 (500000X), S21953 (1000000X), S23013 (1000000X), S23235 (5000X)
L3	hig10	473373617010		16-SEP-2013 16:39	S23102 (250000X), S21950 (250000X), S21953 (500000X), S23013 (250000X), S23235 (5000X)
L4	hig11	473373617011		16-SEP-2013 17:17	S23102 (100000X), S21950 (100000X), S21953 (200000X), S23013 (100000X), S23235 (5000X)
L5	hig12	473373617012		16-SEP-2013 17:54	S23102 (50000X), S21950 (50000X), S21953 (100000X), S23013 (50000X), S23235 (5000X)
L6	hig13	473373617013		16-SEP-2013 18:31	S23102 (25000X), S21950 (25000X), S21953 (50000X), S23013 (25000X), S23235 (5000X)
L7	hig14	473373617014		16-SEP-2013 19:09	S23102 (10000X), S21950 (10000X), S21953 (20000X), S23013 (10000X), S23235 (5000X)
L8	hig15	473373617015		16-SEP-2013 19:46	S23102 (6667X), S21950 (6667X), S21953 (13330X), S23013 (6667X), S23235 (5000X)
L9	hig16	473373617016		16-SEP-2013 20:29	S23102 (5000X), S21950 (5000X), S21953 (10000X), S23013 (5000X), S23235 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Chloromethane	1.7872	1.6739	1.7760	1.6882	1.6394	1.5377	1.3835	1.2786	1.1751	AVRG		0.64564		1.5488	14	15	0.10	0.99	
Vinyl Chloride	0.9089	0.8933	0.9284	0.9225	0.8745	0.8821	0.8567	0.8018	0.7195	AVRG		1.15567		0.8653	8	15	0.05	0.99	
Bromomethane		0.2738	0.3619	0.3115	0.3314	0.3650	0.4007	0.4168	0.3957	AVRG		2.80035		0.3571	14	15	0.05	0.99	
Chloroethane		0.4701	0.5071	0.4754	0.4424	0.4643	0.4497	0.4177	0.3772	AVRG		2.21990		0.4505	9	15	0.05	0.99	
Trichlorofluoromethane		0.6926	0.6995	0.7301	0.6859	0.7063	0.6912	0.6443	0.6115	AVRG		1.46481		0.6827	5	15	0.05	0.99	
Freon 113		0.4792	0.4818	0.5165	0.3959	0.4886	0.4729	0.4794	0.4438	AVRG		2.12878		0.4698	8	15	0.05	0.99	
1,1-Dichloroethene		0.5763	0.5774	0.5401	0.5263	0.5447	0.5125	0.5096	0.4762	AVRG		1.87654		0.5329	6	15	0.05	0.99	
Methylene Chloride		0.7815	0.7879	0.7534	0.7663	0.7506	0.7019	0.6794	0.6278	AVRG		1.36777		0.7311	8	15	0.05	0.99	
trans-1,2-Dichloroethene		0.6699	0.6756	0.6565	0.6544	0.6493	0.6094	0.5973	0.5501	AVRG		1.58024		0.6328	7	15	0.05	0.99	
1,1-Dichloroethane		1.4345	1.5618	1.4868	1.4782	1.4360	1.3073	1.2527	1.1363	AVRG		0.72114		1.3867	10	15	0.10	0.99	
cis-1,2-Dichloroethene		0.7816	0.8345	0.7503	0.7609	0.7547	0.7074	0.6907	0.6343	AVRG		1.35261		0.7393	8	15	0.05	0.99	
Chloroform		1.4704	1.3235	1.1937	1.1883	1.1815	1.0723	1.0256	0.9390	AVRG		0.85158		1.1743	14	15	0.05	0.99	
1,1,1-Trichloroethane		0.7757	0.8302	0.7946	0.7510	0.7772	0.7361	0.7275	0.6681	AVRG		1.32001		0.7576	6	15	0.05	0.99	
Carbon Tetrachloride		0.3516	0.3594	0.3468	0.3109	0.3405	0.3253	0.3274	0.3084	AVRG		2.99611		0.3338	6	15	0.05	0.99	
1,2-Dichloroethane		0.4541	0.4816	0.4663	0.4955	0.4641	0.4373	0.4223	0.4061	AVRG		2.20551		0.4534	7	15	0.05	0.99	
Trichloroethene		0.3711	0.3611	0.3509	0.3454	0.3360	0.3272	0.3195	0.2975	AVRG		2.95330		0.3386	7	15	0.05	0.99	
1,2-Dichloropropane		0.4628	0.4911	0.4455	0.4692	0.4444	0.4187	0.3924	0.3632	AVRG		2.29397		0.4359	10	15	0.05	0.99	
Bromodichloromethane		0.4738	0.4849	0.4727	0.4928	0.4841	0.4571	0.4401	0.4210	AVRG		2.14676		0.4658	5	15	0.05	0.99	
cis-1,3-Dichloropropene		0.5848	0.6205	0.5899	0.6141	0.5979	0.5560	0.5303	0.5015	AVRG		1.74102		0.5744	7	15	0.05	0.99	
trans-1,3-Dichloropropene		0.6063	0.6837	0.6426	0.6616	0.6497	0.6130	0.5784	0.5647	AVRG		1.59997		0.6250	7	15	0.05	0.99	
1,1,2-Trichloroethane		0.1753	0.2069	0.1948	0.2018	0.1961	0.1913	0.1847	0.1847	AVRG		5.20950		0.1920	5	15	0.05	0.99	
Tetrachloroethene		0.2862	0.2959	0.2788	0.2467	0.2802	0.2683	0.2726	0.2618	AVRG		3.65205		0.2738	6	15	0.05	0.99	
Dibromochloromethane		0.3316	0.3468	0.3430	0.3573	0.3646	0.3560	0.3577	0.3590	AVRG		2.84095		0.3520	3	15	0.05	0.99	
Chlorobenzene		1.0566	1.1186	1.0079	0.9858	0.9994	0.9115	0.8757	0.8123	AVRG		1.02990		0.9710	10	15	0.30	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Bromoform		0.1344	0.1606	0.1550	0.1752	0.1770	0.1833	0.1872	0.1979	AVRG		5.83706		0.1713	12	15	0.10	0.99	
1,1,2,2-Tetrachloroethane		0.8198	0.8310	0.8250	0.8384	0.8485	0.7953	0.7320	0.7672	AVRG		1.23894		0.8071	5	15	0.30	0.99	
1,3-Dichlorobenzene		1.3166	1.4245	1.2938	1.2746	1.3232	1.2429	1.1995	1.1398	AVRG		0.78316		1.2769	7	15	0.05	0.99	
1,4-Dichlorobenzene		1.3843	1.4125	1.3140	1.2849	1.3138	1.2304	1.1718	1.1324	AVRG		0.78095		1.2805	8	15	0.05	0.99	
1,2-Dichlorobenzene		1.3389	1.3944	1.2993	1.2864	1.2932	1.2129	1.1683	1.1354	AVRG		0.78983		1.2661	7	15	0.05	0.99	
1,2-Dichloroethane-d4	0.3714	0.3598	0.3642	0.3671	0.3605	0.3413	0.3224	0.3063	0.2987	AVRG		2.91102		0.3435	8	15	0.05	0.99	
Toluene-d8	1.2439	1.2424	1.2684	1.2573	1.2715	1.2774	1.2656	1.2647	1.2667	AVRG		0.79240		1.2620	1	15	0.05	0.99	
Bromofluorobenzene	1.2573	1.2306	1.2474	1.2519	1.2644	1.2351	1.2591	1.2178	1.2375	AVRG		0.80348		1.2446	1	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Chloromethane	0.5000	15	1.0000	8	2.0000	15	5.0000	9	10.000	6	20.000	-1	50.000	-11	75.000	-17	100.00	**-24**
Vinyl Chloride	0.5000	5	1.0000	3	2.0000	7	5.0000	7	10.000	1	20.000	2	50.000	-1	75.000	-7	100.00	-17
Bromomethane			1.0000	**-23**	2.0000	1	5.0000	-13	10.000	-7	20.000	2	50.000	12	75.000	17	100.00	11
Chloroethane			1.0000	4	2.0000	13	5.0000	6	10.000	-2	20.000	3	50.000	0	75.000	-7	100.00	-16
Trichlorofluoromethane			1.0000	1	2.0000	2	5.0000	7	10.000	0	20.000	3	50.000	1	75.000	-6	100.00	-10
Freon 113			0.5000	2	2.0000	3	5.0000	10	10.000	-16	20.000	4	50.000	1	75.000	2	100.00	-6
1,1-Dichloroethene			0.5000	8	2.0000	8	5.0000	1	10.000	-1	20.000	2	50.000	-4	75.000	-4	100.00	-11
Methylene Chloride			0.5000	7	2.0000	8	5.0000	3	10.000	5	20.000	3	50.000	-4	75.000	-7	100.00	-14
trans-1,2-Dichloroethene			0.5000	6	2.0000	7	5.0000	4	10.000	3	20.000	3	50.000	-4	75.000	-6	100.00	-13
1,1-Dichloroethane			0.5000	3	2.0000	13	5.0000	7	10.000	7	20.000	4	50.000	-6	75.000	-10	100.00	-18
cis-1,2-Dichloroethene			0.5000	6	2.0000	13	5.0000	1	10.000	3	20.000	2	50.000	-4	75.000	-7	100.00	-14
Chloroform			0.5000	**25**	2.0000	13	5.0000	2	10.000	1	20.000	1	50.000	-9	75.000	-13	100.00	-20
1,1,1-Trichloroethane			0.5000	2	2.0000	10	5.0000	5	10.000	-1	20.000	3	50.000	-3	75.000	-4	100.00	-12
Carbon Tetrachloride			0.5000	5	2.0000	8	5.0000	4	10.000	-7	20.000	2	50.000	-3	75.000	-2	100.00	-8
1,2-Dichloroethane			0.5000	0	2.0000	6	5.0000	3	10.000	9	20.000	2	50.000	-4	75.000	-7	100.00	-10
Trichloroethene			0.5000	10	2.0000	7	5.0000	4	10.000	2	20.000	-1	50.000	-3	75.000	-6	100.00	-12
1,2-Dichloropropane			0.5000	6	2.0000	13	5.0000	2	10.000	8	20.000	2	50.000	-4	75.000	-10	100.00	-17
Bromodichloromethane			0.5000	2	2.0000	4	5.0000	1	10.000	6	20.000	4	50.000	-2	75.000	-6	100.00	-10
cis-1,3-Dichloropropene			0.5000	2	2.0000	8	5.0000	3	10.000	7	20.000	4	50.000	-3	75.000	-8	100.00	-13
trans-1,3-Dichloropropene			0.5000	-3	2.0000	9	5.0000	3	10.000	6	20.000	4	50.000	-2	75.000	-7	100.00	-10
1,1,2-Trichloroethane			0.5000	-9	2.0000	8	5.0000	1	10.000	5	20.000	2	50.000	0	75.000	-4	100.00	-4
Tetrachloroethene			0.5000	5	2.0000	8	5.0000	2	10.000	-10	20.000	2	50.000	-2	75.000	0	100.00	-4
Dibromochloromethane			0.5000	-6	2.0000	-1	5.0000	-3	10.000	1	20.000	4	50.000	1	75.000	2	100.00	2
Chlorobenzene			0.5000	9	2.0000	15	5.0000	4	10.000	2	20.000	3	50.000	-6	75.000	-10	100.00	-16
Bromoform			0.5000	**-22**	2.0000	-6	5.0000	-10	10.000	2	20.000	3	50.000	7	75.000	9	100.00	16
1,1,2,2-Tetrachloroethane			0.5000	2	2.0000	3	5.0000	2	10.000	4	20.000	5	50.000	-1	75.000	-9	100.00	-5
1,3-Dichlorobenzene			0.5000	3	2.0000	12	5.0000	1	10.000	0	20.000	4	50.000	-3	75.000	-6	100.00	-11
1,4-Dichlorobenzene			0.5000	8	2.0000	10	5.0000	3	10.000	0	20.000	3	50.000	-4	75.000	-8	100.00	-12
1,2-Dichlorobenzene			0.5000	6	2.0000	10	5.0000	3	10.000	2	20.000	2	50.000	-4	75.000	-8	100.00	-10
1,2-Dichloroethane-d4	50.000	8	50.000	5	50.000	6	50.000	7	50.000	5	50.000	-1	50.000	-6	50.000	-11	50.000	-13
Toluene-d8	50.000	-1	50.000	-2	50.000	1	50.000	0	50.000	1	50.000	1	50.000	0	50.000	0	50.000	0
Bromofluorobenzene	50.000	1	50.000	-1	50.000	0	50.000	1	50.000	2	50.000	-1	50.000	1	50.000	-2	50.000	-1

MJB 09/17/13 [Ethanol]: Corrected baseline noise or negative peak in (hig09).

MJB 09/17/13 [Acetone]: Corrected baseline noise or negative peak in multiple levels.

MJB 09/17/13 [Isopropanol]: Corrected baseline noise or negative peak in (hig09).

MJB 09/17/13 [n-Hexane]: Corrected baseline noise or negative peak in (hig09).

MJB 09/17/13 [Vinyl Acetate]: Corrected baseline noise or negative peak in (hig09).

MJB 09/17/13 [2-Butanone]: Corrected baseline noise or negative peak in (hig09).

MJB 09/17/13 [Iodomethane]: Fails ICV but will run single point if necessary.

MJB 09/17/13 [2-Chloroethylvinylether]: ICV fails low do not run samples for this analyte.

Analyst: MJB Date: 09/17/13 Reviewer: LW Date: 09/18/13

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 250604 MSVOA Water
EPA 8260B

Inst : MSVOA08 Name : 826GOX8
Calnum : 473373617004 Cal Date : 16-SEP-2013 Type : WATER

ICV 473373617017 (hig17 16-SEP-2013) stds: S22435 (10000X), S23235 (5000X)
ICV 473373617018 (hig18 16-SEP-2013) stds: S22975 (10000X), S22927 (10000X), S23157 (10000X), S23235 (5000X)

Analyte	ICV Seqnum	Spiked	Quant	Units	%D	Max	Flags
Chloromethane	473373617017	20.00	16.99	ug/L	-15	30	
Vinyl Chloride	473373617017	20.00	18.24	ug/L	-9	20	
Bromomethane	473373617017	20.00	18.55	ug/L	-7	30	
Chloroethane	473373617017	20.00	19.12	ug/L	-4	30	
Trichlorofluoromethane	473373617017	20.00	17.65	ug/L	-12	30	
Freon 113	473373617018	25.00	26.55	ug/L	6	30	
1,1-Dichloroethene	473373617018	25.00	26.62	ug/L	6	20	
Methylene Chloride	473373617018	25.00	26.28	ug/L	5	30	
trans-1,2-Dichloroethene	473373617018	25.00	26.79	ug/L	7	30	
1,1-Dichloroethane	473373617018	25.00	23.62	ug/L	-6	30	
cis-1,2-Dichloroethene	473373617018	25.00	26.18	ug/L	5	30	
Chloroform	473373617018	25.00	23.56	ug/L	-6	20	
1,1,1-Trichloroethane	473373617018	25.00	25.24	ug/L	1	30	
Carbon Tetrachloride	473373617018	25.00	25.31	ug/L	1	30	
1,2-Dichloroethane	473373617018	25.00	27.71	ug/L	11	30	
Trichloroethene	473373617018	25.00	27.66	ug/L	11	30	
1,2-Dichloropropane	473373617018	25.00	26.37	ug/L	5	20	
Bromodichloromethane	473373617018	25.00	26.33	ug/L	5	30	
cis-1,3-Dichloropropene	473373617018	25.00	28.36	ug/L	13	30	
trans-1,3-Dichloropropene	473373617018	25.00	26.26	ug/L	5	30	
1,1,2-Trichloroethane	473373617018	25.00	27.78	ug/L	11	30	
Tetrachloroethene	473373617018	25.00	25.40	ug/L	2	30	
Dibromochloromethane	473373617018	25.00	27.76	ug/L	11	30	
Chlorobenzene	473373617018	25.00	27.55	ug/L	10	30	
Bromoform	473373617018	25.00	28.57	ug/L	14	30	
1,1,2,2-Tetrachloroethane	473373617018	25.00	28.13	ug/L	13	30	
1,3-Dichlorobenzene	473373617018	25.00	27.97	ug/L	12	30	
1,4-Dichlorobenzene	473373617018	25.00	26.60	ug/L	6	30	
1,2-Dichlorobenzene	473373617018	25.00	28.23	ug/L	13	30	

473373617017: Analyst: MJB Date: 09/17/13 Reviewer: LW Date: 09/18/13
473373617018: Analyst: MJB Date: 09/17/13 Reviewer: LW Date: 09/18/13

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 250604 MSVOA Water: EPA 8260B

Inst : MSVOA09 Name : 826GOX9W
Calnum : 483409438001 Date : 11-OCT-2013 16:04 Type : WATER
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	ijb09	483409438009	.25/.5PPB	11-OCT-2013 16:04	S22433 (2000000X), S23293 (2000000X), S23280 (2000000X), S22004 (1000000X), S23235 (5000X)
L2	ijb10	483409438010	0.5/1PPB	11-OCT-2013 16:37	S22433 (1000000X), S23293 (1000000X), S23280 (1000000X), S22004 (500000X), S23235 (5000X)
L3	ijb11	483409438011	2PPB	11-OCT-2013 17:11	S22433 (500000X), S23293 (250000X), S23280 (250000X), S22004 (250000X), S23235 (5000X)
L4	ijb12	483409438012	5PPB	11-OCT-2013 17:45	S22433 (200000X), S23293 (100000X), S23280 (100000X), S22004 (100000X), S23235 (5000X)
L5	ijb13	483409438013	10PPB	11-OCT-2013 18:19	S22433 (100000X), S23293 (50000X), S23280 (50000X), S22004 (50000X), S23235 (5000X)
L6	ijb14	483409438014	20PPB	11-OCT-2013 18:53	S22433 (50000X), S23293 (25000X), S23280 (25000X), S22004 (25000X), S23235 (5000X)
L7	ijb15	483409438015	50PPB	11-OCT-2013 19:27	S22433 (20000X), S23293 (10000X), S23280 (10000X), S22004 (10000X), S23235 (5000X)
L8	ijb16	483409438016	75PPB	11-OCT-2013 20:01	S22433 (13330X), S23293 (6667X), S23280 (6667X), S22004 (6667X), S23235 (5000X)
L9	ijb17	483409438017	100PPB	11-OCT-2013 20:35	S22433 (10000X), S23293 (5000X), S23280 (5000X), S22004 (5000X), S23235 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Chloromethane	0.8705	0.8911	0.9223	0.8647	0.7695	0.8514	0.8243	0.7792	0.7131	AVRG		1.20223		0.8318	8	15	0.10	0.99	
Vinyl Chloride	0.4496	0.4541	0.5042	0.5041	0.4222	0.5659	0.5679	0.5261	0.4848	AVRG		2.00941		0.4977	10	15	0.05	0.99	
Bromomethane		0.2818	0.3047	0.2879	0.2670	0.3236	0.3184	0.3224	0.2945	AVRG		3.33290		0.3000	7	15	0.05	0.99	
Chloroethane		0.3119	0.3110	0.3285	0.2880	0.3443	0.3409	0.3223	0.2907	AVRG		3.15253		0.3172	7	15	0.05	0.99	
Trichlorofluoromethane		0.3792	0.4824	0.4739	0.3753	0.5490	0.6100			QUAD	0.74785	1.94468	-0.01090	0.4783	0.997	15	0.05	0.99	
Freon 113			0.2296	0.2033	0.2022	0.2869	0.2946	0.2991	0.2768	LINR	0.92046	3.44959		0.2561	0.996	15	0.05	0.99	
1,1-Dichloroethene		0.3009	0.2759	0.2519	0.2418	0.3151	0.3196	0.3131	0.2921	AVRG		3.46270		0.2888	10	15	0.05	0.99	
Methylene Chloride		0.4588	0.4200	0.4382	0.3944	0.4523	0.4177	0.4073	0.3863	AVRG		2.37042		0.4219	6	15	0.05	0.99	
trans-1,2-Dichloroethene		0.3709	0.3498	0.3244	0.3135	0.3935	0.3662	0.3560	0.3339	AVRG		2.84877		0.3510	8	15	0.05	0.99	
1,1-Dichloroethane		0.8205	0.8632	0.8497	0.8090	0.9336	0.8814	0.8325	0.7420	AVRG		1.18838		0.8415	7	15	0.10	0.99	
cis-1,2-Dichloroethene		0.4001	0.4045	0.4152	0.3806	0.4480	0.4233	0.4075	0.3849	AVRG		2.45097		0.4080	5	15	0.05	0.99	
Chloroform		0.9328	0.7780	0.7782	0.7215	0.8129	0.7683	0.7390	0.6808	AVRG		1.28793		0.7764	10	15	0.05	0.99	
1,1,1-Trichloroethane		0.5850	0.5259	0.4889	0.4607	0.5771	0.5693	0.5596	0.5210	AVRG		1.86589		0.5359	8	15	0.05	0.99	
Carbon Tetrachloride		0.2668	0.2366	0.2192	0.2111	0.2947	0.3011	0.3026	0.2949	AVRG		3.76112		0.2659	14	15	0.05	0.99	
1,2-Dichloroethane		0.3270	0.3399	0.3574	0.3328	0.3717	0.3586	0.3442	0.3429	AVRG		2.88339		0.3468	4	15	0.05	0.99	
Trichloroethene		0.2172	0.2174	0.2226	0.2035	0.2535	0.2484	0.2486	0.2397	AVRG		4.32246		0.2313	8	15	0.05	0.99	
1,2-Dichloropropane		0.3045	0.3067	0.3206	0.3001	0.3407	0.3215	0.2983	0.2906	AVRG		3.22186		0.3104	5	15	0.05	0.99	
Bromodichloromethane		0.3409	0.3478	0.3654	0.3473	0.3905	0.3791	0.3598	0.3588	AVRG		2.76851		0.3612	5	15	0.05	0.99	
cis-1,3-Dichloropropene		0.4107	0.3885	0.4330	0.3903	0.4353	0.4223	0.4138	0.4010	AVRG		2.42810		0.4118	4	15	0.05	0.99	
trans-1,3-Dichloropropene		0.3807	0.3836	0.4010	0.3756	0.4325	0.4185	0.3908	0.4062	AVRG		2.50876		0.3986	5	15	0.05	0.99	
1,1,2-Trichloroethane		0.1236	0.1168	0.1151	0.1130	0.1275	0.1272	0.1173	0.1266	AVRG		8.27341		0.1209	5	15	0.05	0.99	
Tetrachloroethene		0.2028	0.1901	0.1814	0.1680	0.2262	0.2349	0.2383	0.2364	AVRG		4.76735		0.2098	13	15	0.05	0.99	
Dibromochloromethane		0.2357	0.2367	0.2396	0.2342	0.2703	0.2747	0.2580	0.2804	AVRG		3.94180		0.2537	8	15	0.05	0.99	
Chlorobenzene		0.6722	0.6310	0.6518	0.5982	0.7059	0.6816	0.6625	0.6630	AVRG		1.51913		0.6583	5	15	0.30	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Bromoform		0.1172	0.1270	0.1315	0.1331	0.1526	0.1619	0.1559	0.1753	AVRG		6.92911		0.1443	14	15	0.10	0.99	
1,1,2,2-Tetrachloroethane		0.5730	0.5214	0.4916	0.4679	0.5060	0.4944	0.4623	0.4765	AVRG		2.00345		0.4991	7	15	0.30	0.99	
1,3-Dichlorobenzene		0.8894	0.8532	0.8707	0.7883	0.9228	0.8768	0.8891	0.8620	AVRG		1.15069		0.8690	4	15	0.05	0.99	
1,4-Dichlorobenzene		0.8827	0.8446	0.8977	0.8050	0.9357	0.8980	0.8872	0.8719	AVRG		1.13914		0.8779	4	15	0.05	0.99	
1,2-Dichlorobenzene		0.7849	0.7748	0.7806	0.7419	0.8414	0.8357	0.8278	0.8053	AVRG		1.25150		0.7990	4	15	0.05	0.99	
1,2-Dichloroethane-d4	0.3746	0.3677	0.3887	0.3787	0.3831	0.3705	0.3532	0.3405	0.3447	AVRG		2.72591		0.3668	5	15	0.05	0.99	
Toluene-d8	1.2936	1.2952	1.2965	1.3021	1.2856	1.3267	1.3093	1.2808	1.2888	AVRG		0.77064		1.2976	1	15	0.05	0.99	
Bromofluorobenzene	1.1231	1.1038	1.1162	1.0727	1.0510	1.0463	1.0192	1.0216	0.9895	AVRG		0.94305		1.0604	4	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Chloromethane	0.5000	5	1.0000	7	2.0000	11	5.0000	4	10.000	-7	20.000	2	50.000	-1	75.000	-6	100.00	-14
Vinyl Chloride	0.5000	-10	1.0000	-9	2.0000	1	5.0000	1	10.000	-15	20.000	14	50.000	14	75.000	6	100.00	-3
Bromomethane			1.0000	-6	2.0000	2	5.0000	-4	10.000	-11	20.000	8	50.000	6	75.000	7	100.00	-2
Chloroethane			1.0000	-2	2.0000	-2	5.0000	4	10.000	-9	20.000	9	50.000	7	75.000	2	100.00	-8
Trichlorofluoromethane			1.0000	**48**	2.0000	**31**	5.0000	6	10.000	**-21**	20.000	4	50.000	0				
Freon 113					2.0000	**25**	5.0000	-11	10.000	**-21**	20.000	4	50.000	3	75.000	4	100.00	-4
1,1-Dichloroethene			0.5000	4	2.0000	-4	5.0000	-13	10.000	-16	20.000	9	50.000	11	75.000	8	100.00	1
Methylene Chloride			0.5000	9	2.0000	0	5.0000	4	10.000	-7	20.000	7	50.000	-1	75.000	-3	100.00	-8
trans-1,2-Dichloroethene			0.5000	6	2.0000	0	5.0000	-8	10.000	-11	20.000	12	50.000	4	75.000	1	100.00	-5
1,1-Dichloroethane			0.5000	-2	2.0000	3	5.0000	1	10.000	-4	20.000	11	50.000	5	75.000	-1	100.00	-12
cis-1,2-Dichloroethene			0.5000	-2	2.0000	-1	5.0000	2	10.000	-7	20.000	10	50.000	4	75.000	0	100.00	-6
Chloroform			0.5000	20	2.0000	0	5.0000	0	10.000	-7	20.000	5	50.000	-1	75.000	-5	100.00	-12
1,1,1-Trichloroethane			0.5000	9	2.0000	-2	5.0000	-9	10.000	-14	20.000	8	50.000	6	75.000	4	100.00	-3
Carbon Tetrachloride			0.5000	0	2.0000	-11	5.0000	-18	10.000	**-21**	20.000	11	50.000	13	75.000	14	100.00	11
1,2-Dichloroethane			0.5000	-6	2.0000	-2	5.0000	3	10.000	-4	20.000	7	50.000	3	75.000	-1	100.00	-1
Trichloroethene			0.5000	-6	2.0000	-6	5.0000	-4	10.000	-12	20.000	10	50.000	7	75.000	7	100.00	4
1,2-Dichloropropane			0.5000	-2	2.0000	-1	5.0000	3	10.000	-3	20.000	10	50.000	4	75.000	-4	100.00	-6
Bromodichloromethane			0.5000	-6	2.0000	-4	5.0000	1	10.000	-4	20.000	8	50.000	5	75.000	0	100.00	-1
cis-1,3-Dichloropropene			0.5000	0	2.0000	-6	5.0000	5	10.000	-5	20.000	6	50.000	3	75.000	0	100.00	-3
trans-1,3-Dichloropropene			0.5000	-4	2.0000	-4	5.0000	1	10.000	-6	20.000	9	50.000	5	75.000	-2	100.00	2
1,1,2-Trichloroethane			0.5000	2	2.0000	-3	5.0000	-5	10.000	-7	20.000	5	50.000	5	75.000	-3	100.00	5
Tetrachloroethene			0.5000	-3	2.0000	-9	5.0000	-14	10.000	-20	20.000	8	50.000	12	75.000	14	100.00	13
Dibromochloromethane			0.5000	-7	2.0000	-7	5.0000	-6	10.000	-8	20.000	7	50.000	8	75.000	2	100.00	11
Chlorobenzene			0.5000	2	2.0000	-4	5.0000	-1	10.000	-9	20.000	7	50.000	4	75.000	1	100.00	1
Bromoform			0.5000	-19	2.0000	-12	5.0000	-9	10.000	-8	20.000	6	50.000	12	75.000	8	100.00	**21**
1,1,2,2-Tetrachloroethane			0.5000	15	2.0000	4	5.0000	-2	10.000	-6	20.000	1	50.000	-1	75.000	-7	100.00	-5
1,3-Dichlorobenzene			0.5000	2	2.0000	-2	5.0000	0	10.000	-9	20.000	6	50.000	1	75.000	2	100.00	-1
1,4-Dichlorobenzene			0.5000	1	2.0000	-4	5.0000	2	10.000	-8	20.000	7	50.000	2	75.000	1	100.00	-1
1,2-Dichlorobenzene			0.5000	-2	2.0000	-3	5.0000	-2	10.000	-7	20.000	5	50.000	5	75.000	4	100.00	1
1,2-Dichloroethane-d4	50.000	2	50.000	0	50.000	6	50.000	3	50.000	4	50.000	1	50.000	-4	50.000	-7	50.000	-6
Toluene-d8	50.000	0	50.000	0	50.000	0	50.000	0	50.000	-1	50.000	2	50.000	1	50.000	-1	50.000	-1
Bromofluorobenzene	50.000	6	50.000	4	50.000	5	50.000	1	50.000	-1	50.000	-1	50.000	-4	50.000	-4	50.000	-7

LW 10/16/13 [Freon 12]: Does not meet 8260C requant criteria - rerun hits < 2ppb

LW 10/16/13 [Trichlorofluoromethane]: Does not meet 8260C requant criteria - rerun hits < 5 ppb

LW 10/16/13 [Iodomethane]: Not reportable due to ICV failure

LW 10/16/13 [Trifluorotoluene]: Not reportable due to very high bias at the low end. Do not use instrument for methanol extracts.

Analyst: BO Date: 10/15/13 Reviewer: LW Date: 10/16/13

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; LINR=Linear regression; QUAD=Quadratic regression

483409438001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 250604 MSVOA Water
EPA 8260B

Inst : MSVOA09 Name : 826GOX9W
Calnum : 483409438001 Cal Date : 11-OCT-2013 Type : WATER

ICV 483409438018 (ijb18 11-OCT-2013) stds: S23005 (10000X), S23235 (5000X)
ICV 483409438020 (ijb20 11-OCT-2013) stds: S23411 (10000X), S23288 (10000X), S23417 (10000X), S23235 (5000X)

Analyte	ICV Seqnum	Spiked	Quant	Units	%D	Max	Flags
Chloromethane	483409438018	20.00	21.63	ug/L	8	30	
Vinyl Chloride	483409438018	20.00	21.90	ug/L	10	20	
Bromomethane	483409438018	20.00	16.58	ug/L	-17	30	
Chloroethane	483409438018	20.00	21.54	ug/L	8	30	
Trichlorofluoromethane	483409438018	20.00	21.90	ug/L	9	30	
Freon 113	483409438020	25.00	22.48	ug/L	-10	30	
1,1-Dichloroethene	483409438020	25.00	25.41	ug/L	2	20	
Methylene Chloride	483409438020	25.00	25.55	ug/L	2	30	
trans-1,2-Dichloroethene	483409438020	25.00	26.03	ug/L	4	30	
1,1-Dichloroethane	483409438020	25.00	23.87	ug/L	-5	30	
cis-1,2-Dichloroethene	483409438020	25.00	26.64	ug/L	7	30	
Chloroform	483409438020	25.00	23.34	ug/L	-7	20	
1,1,1-Trichloroethane	483409438020	25.00	24.86	ug/L	-1	30	
Carbon Tetrachloride	483409438020	25.00	25.85	ug/L	3	30	
1,2-Dichloroethane	483409438020	25.00	27.38	ug/L	10	30	
Trichloroethene	483409438020	25.00	28.11	ug/L	12	30	
1,2-Dichloropropane	483409438020	25.00	26.06	ug/L	4	20	
Bromodichloromethane	483409438020	25.00	26.21	ug/L	5	30	
cis-1,3-Dichloropropene	483409438020	25.00	28.76	ug/L	15	30	
trans-1,3-Dichloropropene	483409438020	25.00	27.39	ug/L	10	30	
1,1,2-Trichloroethane	483409438020	25.00	27.38	ug/L	10	30	
Tetrachloroethene	483409438020	25.00	25.05	ug/L	0	30	
Dibromochloromethane	483409438020	25.00	27.49	ug/L	10	30	
Chlorobenzene	483409438020	25.00	27.76	ug/L	11	30	
Bromoform	483409438020	25.00	26.23	ug/L	5	30	
1,1,2,2-Tetrachloroethane	483409438020	25.00	26.04	ug/L	4	30	
1,3-Dichlorobenzene	483409438020	25.00	26.41	ug/L	6	30	
1,4-Dichlorobenzene	483409438020	25.00	25.58	ug/L	2	30	
1,2-Dichlorobenzene	483409438020	25.00	27.46	ug/L	10	30	

483409438018: Analyst: BO Date: 10/15/13 Reviewer: LW Date: 10/16/13
483409438020: Analyst: BO Date: 10/15/13 Reviewer: LW Date: 10/16/13

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 250604 MSVOA Water
EPA 8260B

Inst : MSVOA08 Run Name : 35PPB IDF : 1.0
Seqnum : 473462887003 File : hkh03 Time : 17-NOV-2013 11:49
Cal : 473373617004 Caldate : 16-SEP-2013 Caltype : WATER
Standards: S23517 (14290X), S21354 (14290X), S23518 (14290X), S22790 (28570X), S23582 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Chloromethane	1.5488	1.4078	35.00	31.81	ug/L	-9	30	0.1000	
Vinyl Chloride	0.8653	1.0286	35.00	41.61	ug/L	19	20	0.0500	
Bromomethane	0.3571	0.4083	35.00	40.02	ug/L	14	30	0.0500	
Chloroethane	0.4505	0.5379	35.00	41.79	ug/L	19	30	0.0500	
Trichlorofluoromethane	0.6827	0.8719	35.00	44.70	ug/L	**28**	30	0.0500	!c+
Freon 113	0.4698	0.4803	35.00	35.78	ug/L	2	30	0.0500	
1,1-Dichloroethene	0.5329	0.5095	35.00	33.47	ug/L	-4	20	0.0500	
Methylene Chloride	0.7311	0.7693	35.00	36.83	ug/L	5	30	0.0500	
trans-1,2-Dichloroethene	0.6328	0.6811	35.00	37.67	ug/L	8	30	0.0500	
1,1-Dichloroethane	1.3867	1.4335	35.00	36.18	ug/L	3	30	0.1000	
cis-1,2-Dichloroethene	0.7393	0.7764	35.00	36.76	ug/L	5	30	0.0500	
Chloroform	1.1743	1.2077	35.00	36.00	ug/L	3	20	0.0500	
1,1,1-Trichloroethane	0.7576	0.7952	35.00	36.74	ug/L	5	30	0.0500	
Carbon Tetrachloride	0.3338	0.2991	35.00	31.37	ug/L	-10	30	0.0500	
1,2-Dichloroethane	0.4534	0.4233	35.00	32.67	ug/L	-7	30	0.0500	
Trichloroethene	0.3386	0.3323	35.00	34.35	ug/L	-2	30	0.0500	
1,2-Dichloropropane	0.4359	0.4406	35.00	35.37	ug/L	1	20	0.0500	
Bromodichloromethane	0.4658	0.4596	35.00	34.53	ug/L	-1	30	0.0500	
cis-1,3-Dichloropropene	0.5744	0.5755	35.00	35.07	ug/L	0	30	0.0500	
trans-1,3-Dichloropropene	0.6250	0.5234	35.00	29.31	ug/L	-16	30	0.0500	
1,1,2-Trichloroethane	0.1920	0.1787	35.00	32.58	ug/L	-7	30	0.0500	
Tetrachloroethene	0.2738	0.2789	35.00	35.65	ug/L	2	30	0.0500	
Dibromochloromethane	0.3520	0.2950	35.00	29.33	ug/L	-16	30	0.0500	
Chlorobenzene	0.9710	0.9805	35.00	35.34	ug/L	1	30	0.3000	
Bromoform	0.1713	0.1524	35.00	31.13	ug/L	-11	30	0.1000	
1,1,2,2-Tetrachloroethane	0.8071	0.7778	35.00	33.73	ug/L	-4	30	0.3000	
1,3-Dichlorobenzene	1.2769	1.4042	35.00	38.49	ug/L	10	30	0.0500	
1,4-Dichlorobenzene	1.2805	1.3723	35.00	37.51	ug/L	7	30	0.0500	
1,2-Dichlorobenzene	1.2661	1.3178	35.00	36.43	ug/L	4	30	0.0500	
1,2-Dichloroethane-d4	0.3435	0.3283	50.00	47.78	ug/L	-4	30	0.0500	
Toluene-d8	1.2620	1.3520	50.00	53.56	ug/L	7	30	0.0500	
Bromofluorobenzene	1.2446	1.2768	50.00	51.29	ug/L	3	30	0.0500	

ISTD (ICAL hig14)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1573241	1296079	-17.62	10.46	10.42	-0.04
1,4-Difluorobenzene	2978603	2535792	-14.87	11.67	11.64	-0.03
Chlorobenzene-d5	2420625	2144171	-11.42	16.11	16.08	-0.03
1,4-Dichlorobenzene-d4	1118443	989674	-11.51	18.94	18.91	-0.03

Analyst: TEW Date: 11/18/13 Reviewer: LW Date: 11/18/13

!=warning +=high bias c=CCV

CURTIS & TOMPKINS SPIKE USER REPORT FOR 250604 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : QC716497 IDF : 1.0
Seqnum : 483461478005.2 File : ikg05 Time : 16-NOV-2013 14:35
Cal : 483409438001 Caldate : 11-OCT-2013 Caltype : WATER
Standards: S23417 (20000X), S23276 (20000X), S23592 (20000X), S23599 (20000X), S23582 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Chloromethane	0.8318	0.8335	10.00	10.02	ug/L	0	30	0.1000	u
Vinyl Chloride	0.4977	0.5963	10.00	11.98	ug/L	20	20	0.0500	u
Bromomethane	0.3000	0.2189	10.00	7.296	ug/L	-27	30	0.0500	m u
Chloroethane	0.3172	0.3260	10.00	10.28	ug/L	3	30	0.0500	u
Trichlorofluoromethane	0.4783	0.6124	10.00	12.25	ug/L	22	30	0.0500	u
Freon 113	0.2561	0.2510	12.50	11.74	ug/L	-6	30	0.0500	u
1,1-Dichloroethene	0.2888	0.2982	12.50	12.91	ug/L	3	20	0.0500	u
Methylene Chloride	0.4219	0.4204	12.50	12.46	ug/L	0	30	0.0500	u
trans-1,2-Dichloroethene	0.3510	0.3554	12.50	12.66	ug/L	1	30	0.0500	u
1,1-Dichloroethane	0.8415	0.7610	12.50	11.30	ug/L	-10	30	0.1000	u
cis-1,2-Dichloroethene	0.4080	0.4194	12.50	12.85	ug/L	3	30	0.0500	u
Chloroform	0.7764	0.6988	12.50	11.25	ug/L	-10	20	0.0500	u
1,1,1-Trichloroethane	0.5359	0.5262	12.50	12.27	ug/L	-2	30	0.0500	u
Carbon Tetrachloride	0.2659	0.2863	12.50	13.46	ug/L	8	30	0.0500	u
1,2-Dichloroethane	0.3468	0.3647	12.50	13.15	ug/L	5	30	0.0500	u
Trichloroethene	0.2313	0.2600	12.50	14.05	ug/L	12	30	0.0500	u
1,2-Dichloropropane	0.3104	0.3255	12.50	13.11	ug/L	5	20	0.0500	u
Bromodichloromethane	0.3612	0.3563	12.50	12.33	ug/L	-1	30	0.0500	u
cis-1,3-Dichloropropene	0.4118	0.4412	12.50	13.39	ug/L	7	30	0.0500	u
trans-1,3-Dichloropropene	0.3986	0.4437	12.50	13.91	ug/L	11	30	0.0500	u
1,1,2-Trichloroethane	0.1209	0.1360	12.50	14.06	ug/L	13	30	0.0500	u
Tetrachloroethene	0.2098	0.2294	12.50	13.67	ug/L	9	30	0.0500	u
Dibromochloromethane	0.2537	0.2841	12.50	14.00	ug/L	12	30	0.0500	u
Chlorobenzene	0.6583	0.7838	12.50	14.88	ug/L	19	30	0.3000	u
Bromoform	0.1443	0.1471	12.50	12.74	ug/L	2	30	0.1000	u
1,1,2,2-Tetrachloroethane	0.4991	0.5637	12.50	14.12	ug/L	13	30	0.3000	u
1,3-Dichlorobenzene	0.8690	1.0809	12.50	15.55	ug/L	24	30	0.0500	u
1,4-Dichlorobenzene	0.8779	1.0457	12.50	14.89	ug/L	19	30	0.0500	u
1,2-Dichlorobenzene	0.7990	1.0574	12.50	16.54	ug/L	**32**	30	0.0500	c+ u ***
1,2-Dichloroethane-d4	0.3668	0.3543	50.00	48.29	ug/L	-3	30	0.0500	u
Toluene-d8	1.2976	1.3262	50.00	51.10	ug/L	2	30	0.0500	u
Bromofluorobenzene	1.0604	1.1233	50.00	52.97	ug/L	6	30	0.0500	u

ISTD (ICAL ijb15)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1237355	1657047	33.92	11.36	11.35	-0.01
1,4-Difluorobenzene	1939729	2380785	22.74	12.63	12.62	-0.01
Chlorobenzene-d5	1609744	1793303	11.40	16.90	16.90	0.00
1,4-Dichlorobenzene-d4	833427	830592	-0.34	19.35	19.34	-0.01

DAR 11/16/13 [Bromomethane]: Corrected fronting or tailing peak integration. [general version]

TEW 11/17/13 : ID changed in LIMS by DAR to CCV/BS. [general version]

5% spike rule

Analyst: TEW Date: 11/18/13 Reviewer: LW Date: 11/18/13

+=high bias c=CCV m=manual integration u=use

Logbooks & Sequences

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 473462887

Date : 11/17/13 Reference : hig14
Sequence : MSVOA08 hkh Analyzed : 09/16/13 19:09

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	1573241	10.46	2978603	11.67	2420625	16.11	1118443	18.94
		LOWER LIMIT	786621	9.96	1489302	11.17	1210313	15.61	559222	18.44
		UPPER LIMIT	3146482	10.96	5957206	12.17	4841250	16.61	2236886	19.44
003	CCV	35PPB	1296079	10.42	2535792	11.64	2144171	16.08	989674	18.91
004	BS	QC716541	1350247	10.43	2608200	11.63	2200336	16.08	1020258	18.91
005	BSD	QC716542	1378135	10.43	2619237	11.63	2267756	16.08	1025895	18.91
007	BLANK	QC716540	1379363	10.43	2604553	11.64	2210980	16.08	1000385	18.91
008	SAMPLE	250604-016	1309707	10.43	2503265	11.64	2164826	16.08	967118	18.92
009	SAMPLE	250604-015	1324428	10.42	2563042	11.63	2166896	16.08	976791	18.91
010	SAMPLE	250604-014	1322440	10.43	2511114	11.64	2132181	16.08	972939	18.91
011	SAMPLE	250624-017	1286735	10.42	2423115	11.64	2093768	16.09	947191	18.92
012	SAMPLE	250624-023	1348576	10.42	2516883	11.63	2158841	16.08	988328	18.91
013	SAMPLE	250592-007	1238128	10.43	2321535	11.64	2005638	16.08	906729	18.91
014	SAMPLE	250624-016	1364160	10.42	2592146	11.64	2197478	16.09	1018775	18.92
015	SAMPLE	250592-013	1323766	10.43	2500608	11.64	2158894	16.09	981183	18.92
016	SAMPLE	250814-001	1342842	10.42	2539564	11.64	2193530	16.09	1036885	18.92
017	SAMPLE	250592-011	1354409	10.43	2548425	11.64	2170703	16.09	1029298	18.92
018	SAMPLE	250592-015	1363811	10.43	2518227	11.64	2171829	16.08	1013011	18.92
019	SAMPLE	250592-016	1334166	10.43	2489783	11.64	2167532	16.09	990335	18.92
020	SAMPLE	250592-012	1319707	10.43	2491500	11.64	2131783	16.09	1002568	18.92
021	SAMPLE	250592-014	1313910	10.43	2457771	11.64	2103091	16.09	972832	18.92

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 483461478

Date : 11/16/13 Reference : ijb15
Sequence : MSVOA09 ikg Analyzed : 10/11/13 19:27

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	1237355	11.36	1939729	12.63	1609744	16.90	833427	19.35
		LOWER LIMIT	618678	10.86	969865	12.13	804872	16.40	416714	18.85
		UPPER LIMIT	2474710	11.86	3879458	13.13	3219488	17.40	1666854	19.85
004	CCV		1326150	11.35	2054373	12.61	1489640	16.90	686998	19.34
005	CCV/BS	QC716497	1657047	11.35	2380785	12.62	1793303	16.90	830592	19.34
006	BSD	QC716498	1675844	11.36	2409350	12.62	1751368	16.90	832568	19.35
008	BLANK	QC716499	1674578	11.37	2415956	12.63	1749669	16.90	802229	19.35
009	SAMPLE	250645-002	1686375	11.36	2442965	12.63	1793162	16.91	800200	19.35
010	SAMPLE	250645-003	1547416	11.36	2422179	12.63	1775142	16.91	807054	19.35
011	SAMPLE	250604-001	1603240	11.36	2467279	12.63	1705507	16.90	803902	19.35
012	SAMPLE	250604-002	1565311	11.36	2363157	12.63	1733870	16.90	778392	19.35
013	SAMPLE	250604-003	1633078	11.36	2366281	12.63	1774229	16.90	805765	19.35
014	SAMPLE	250604-004	1637356	11.35	2356908	12.63	1688595	16.90	784406	19.35
015	SAMPLE	250604-005	1573125	11.35	2353641	12.63	1745767	16.90	785378	19.35
016	SAMPLE	250604-006	1571364	11.36	2318933	12.62	1673874	16.90	770929	19.35
017	SAMPLE	250604-007	1599720	11.36	2388003	12.62	1698552	16.90	772823	19.35
018	SAMPLE	250604-008	1586356	11.36	2310169	12.62	1654954	16.90	793060	19.35
019	SAMPLE	250604-009	1568556	11.35	2300964	12.62	1727709	16.90	783520	19.35
020	SAMPLE	250604-010	1522284	11.36	2243463	12.62	1664661	16.90	760813	19.35
021	SAMPLE	250604-011	1560303	11.36	2334211	12.62	1642358	16.90	788664	19.35
022	SAMPLE	250604-012	1505742	11.35	2235393	12.62	1646212	16.90	770105	19.35
023	SAMPLE	250604-013	1564151	11.36	2297850	12.62	1689387	16.90	761267	19.35
024	IB		1503701	11.35	2196746	12.62	1560539	16.90	727571	19.35
025	IB		1579794	11.35	2331464	12.62	1665338	16.90	767388	19.34
026	IB		1582341	11.35	2277071	12.62	1649913	16.90	773100	19.35

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 473373617

Instrument : MSVOA08 Begun : 09/16/13 10:57
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
002	hig02	X	IB			09/16/13 10:57	1.0	1	
003	hig03	X	IB			09/16/13 13:00	1.0	1	
004	hig04	TUN	BFB			09/16/13 13:28	1.0	2	t
005	hig05	TUN	BFB			09/16/13 13:44	1.0	2	
006	hig06	X	IB			09/16/13 14:09	1.0	1	
007	hig07	IB	CALIB			09/16/13 14:47	1.0	1	
008	hig08	ICAL				09/16/13 15:24	1.0	3 4 5 6 1	
009	hig09	ICAL				09/16/13 16:02	1.0	3 4 5 6 1	
010	hig10	ICAL				09/16/13 16:39	1.0	3 4 5 6 1	
011	hig11	ICAL				09/16/13 17:17	1.0	3 4 5 6 1	
012	hig12	ICAL				09/16/13 17:54	1.0	3 4 5 6 1	
013	hig13	ICAL				09/16/13 18:31	1.0	3 4 5 6 1	
014	hig14	ICAL				09/16/13 19:09	1.0	3 4 5 6 1	
015	hig15	ICAL				09/16/13 19:46	1.0	3 4 5 6 1	
016	hig16	ICAL				09/16/13 20:29	1.0	3 4 5 6 1	
017	hig17	ICV				09/16/13 21:07	1.0	7 1	
018	hig18	ICV				09/16/13 21:46	1.0	8 9 10 1	
019	hig19	X	IB			09/16/13 22:26	1.0	1	
020	hig20	X	IB			09/16/13 23:05	1.0	1	

MJB 09/17/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 20.

Analyst: MJB Date: 09/17/13 Reviewer: LW Date: 09/18/13

Standards used: 1=S23235 2=S22624 3=S23102 4=S21950 5=S21953 6=S23013 7=S22435 8=S22975 9=S22927 10=S23157

Flags used: t=tune failure

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 473462887

Instrument : MSVOA08 Begun : 11/17/13 10:47
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	hkh01	X	IB			11/17/13 10:47	1.0	1	
002	hkh02	TUN	BFB			11/17/13 11:24	1.0	2	
003	hkh03	CCV	35PPB			11/17/13 11:49	1.0	3 4 5 6 1	
004	hkh04	BS	QC716541	Water	205162	11/17/13 12:23	1.0	7 8 9 10 1	
005	hkh05	BSD	QC716542	Water	205162	11/17/13 12:58	1.0	7 8 9 10 1	
006	hkh06	X	IB			11/17/13 13:32	1.0	1	
007	hkh07	BLANK	QC716540	Water	205162	11/17/13 14:07	1.0	1	
008	hkh08	SAMPLE	250604-016	Water	205162	11/17/13 14:41	1.0	1	
009	hkh09	SAMPLE	250604-015	Water	205162	11/17/13 15:16	1.0	1	
010	hkh10	SAMPLE	250604-014	Water	205162	11/17/13 15:51	1.0	1	
011	hkh11	SAMPLE	250624-017	Water	205162	11/17/13 16:25	1.0	1	2:ISOPROH=1400
012	hkh12	SAMPLE	250624-023	Water	205162	11/17/13 17:00	1.0	1	
013	hkh13	SAMPLE	250592-007	Water	205162	11/17/13 17:34	1.0	1	
014	hkh14	SAMPLE	250624-016	Water	205162	11/17/13 18:09	3.333	1	
015	hkh15	SAMPLE	250592-013	Water	205162	11/17/13 18:44	7.143	1	
016	hkh16	SAMPLE	250814-001	Water	205162	11/17/13 19:19	20.0	1	headspace > 1 mL
017	hkh17	SAMPLE	250592-011	Water	205162	11/17/13 19:53	25.0	1	
018	hkh18	SAMPLE	250592-015	Water	205162	11/17/13 20:28	33.33	1	
019	hkh19	SAMPLE	250592-016	Water	205162	11/17/13 21:03	200.0	1	
020	hkh20	SAMPLE	250592-012	Water	205162	11/17/13 21:38	333.3	1	
021	hkh21	SAMPLE	250592-014	Water	205162	11/17/13 22:12	333.3	1	
022	hkh22	X	IB			11/17/13 22:47	1.0	1	

TEW 11/18/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 22.

TEW 11/18/13 : Matrix spikes were not performed for this analysis in batch 205162 due to insufficient sample amount.

Analyst: TEW Date: 11/18/13 Reviewer: LW Date: 11/18/13

Standards used: 1=S23582 2=S22624 3=S23517 4=S21354 5=S23518 6=S22790 7=S23417 8=S23592 9=S23276 10=S23599

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 483409438

Instrument : MSVOA09 Begun : 10/11/13 07:58
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	ijb01	X	IB			10/11/13 07:58	1.0	1	
002	ijb02	TUN	BFB			10/11/13 11:06	1.0	2	
003	ijb03	CCV	20PPB			10/11/13 11:22	1.0	3 4 5 6 1	cc+
004	ijb04	X	IB			10/11/13 12:28	1.0	1	
005	ijb05	X	IB			10/11/13 13:02	1.0	1	
006	ijb06	TUN	BFB			10/11/13 14:18	1.0	2	
007	ijb07	X	IB			10/11/13 14:56	1.0	1	
008	ijb08	IB	CALIB IB			10/11/13 15:30	1.0	1	
009	ijb09	ICAL	.25/.5PPB			10/11/13 16:04	1.0	3 4 5 6 1	
010	ijb10	ICAL	0.5/1PPB			10/11/13 16:37	1.0	3 4 5 6 1	
011	ijb11	ICAL	2PPB			10/11/13 17:11	1.0	3 4 5 6 1	
012	ijb12	ICAL	5PPB			10/11/13 17:45	1.0	3 4 5 6 1	
013	ijb13	ICAL	10PPB			10/11/13 18:19	1.0	3 4 5 6 1	
014	ijb14	ICAL	20PPB			10/11/13 18:53	1.0	3 4 5 6 1	
015	ijb15	ICAL	50PPB			10/11/13 19:27	1.0	3 4 5 6 1	
016	ijb16	ICAL	75PPB			10/11/13 20:01	1.0	3 4 5 6 1	
017	ijb17	ICAL	100PPB			10/11/13 20:35	1.0	3 4 5 6 1	
018	ijb18	ICV	20PPB			10/11/13 21:09	1.0	7 1	
019	ijb19	ICV	40PPB			10/11/13 21:43	1.0	8 1	
020	ijb20	ICV	25PPB			10/11/13 22:17	1.0	9 10 11 1	
021	ijb21	X	IB			10/11/13 22:51	1.0	1	
022	ijb22	X	IB			10/11/13 23:25	1.0	1	
023	ijb23	X	IB			10/11/13 23:59	1.0	1	

BO 10/15/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 23.

Analyst: BO Date: 10/15/13 Reviewer: LW Date: 10/16/13

Standards used: 1=S23235 2=S22624 3=S22433 4=S23293 5=S23280 6=S22004 7=S23005 8=S17234 9=S23411 10=S23288 11=S23417

Flags used: +=high bias cc=CCV CCC failure

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 483461478

Instrument : MSVOA09 Begun : 11/16/13 11:18
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	ikg01	X	HIGH GASES			11/16/13 11:18	1.0	1	
002	ikg02	X	IB			11/16/13 11:52	1.0	1	
003	ikg03	TUN	BFB			11/16/13 13:20	1.0	2	
004	ikg04	CCV				11/16/13 14:01	1.0	3 4 5 6 1	cc+
005	ikg05	CCV/BS	QC716497	Water	205154	11/16/13 14:35	1.0	7 8 9 10 1	spk
006	ikg06	BSD	QC716498	Water	205154	11/16/13 15:09	1.0	7 8 9 10 1	
007	ikg07	X	IB			11/16/13 15:43	1.0	1	
008	ikg08	BLANK	QC716499	Water	205154	11/16/13 16:17	1.0	1	
009	ikg09	SAMPLE	250645-002	Water	205154	11/16/13 16:50	1.0	1	
010	ikg10	SAMPLE	250645-003	Water	205154	11/16/13 17:24	1.0	1	
011	ikg11	SAMPLE	250604-001	Water	205154	11/16/13 17:58	1.0	1	spk
012	ikg12	SAMPLE	250604-002	Water	205154	11/16/13 18:32	1.0	1	spk
013	ikg13	SAMPLE	250604-003	Water	205154	11/16/13 19:05	1.0	1	spk
014	ikg14	SAMPLE	250604-004	Water	205154	11/16/13 19:39	1.0	1	spk
015	ikg15	SAMPLE	250604-005	Water	205154	11/16/13 20:13	1.0	1	spk
016	ikg16	SAMPLE	250604-006	Water	205154	11/16/13 20:47	1.0	1	spk
017	ikg17	SAMPLE	250604-007	Water	205154	11/16/13 21:21	1.0	1	spk
018	ikg18	SAMPLE	250604-008	Water	205154	11/16/13 21:55	1.0	1	spk
019	ikg19	SAMPLE	250604-009	Water	205154	11/16/13 22:29	1.0	1	spk
020	ikg20	SAMPLE	250604-010	Water	205154	11/16/13 23:03	1.0	1	spk
021	ikg21	SAMPLE	250604-011	Water	205154	11/16/13 23:37	1.0	1	spk
022	ikg22	SAMPLE	250604-012	Water	205154	11/17/13 00:10	1.0	1	spk
023	ikg23	SAMPLE	250604-013	Water	205154	11/17/13 00:44	1.0	1	spk
024	ikg24	IB				11/17/13 01:18	1.0	1	
025	ikg25	IB				11/17/13 01:52	1.0	1	<<t
026	ikg26	IB				11/17/13 02:26	1.0	1	<<t

TEW 11/17/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 26.

TEW 11/17/13 : Matrix spikes were not performed for this analysis in batch 205154 due to insufficient sample amount.

Analyst: TEW Date: 11/17/13 Reviewer: LW Date: 11/18/13

Standards used: 1=S23582 2=S22624 3=S23517 4=S21354 5=S23518 6=S22433 7=S23417 8=S23276 9=S23592 10=S23599

Flags used: +=high bias <<t=out of clock cc=CCV CCC failure spk=5% spike rule

Page 1 of 1

MSVOA WATER Prepsheet Curtis & Tompkins, Ltd.

Date: 11/16/13 **Batch #:** 205154

	Sample ID	Vial	pH <2	pH (if >2)	HS?	Dil'n flask	MS#	RR	DF	Comments	20 % ccv	hold	due	init date
1	250645-2	A	X						1x					UG
2	-3	A	X											
(A) 3	250604-1		X											
4	2		X											
5	3		X											
6	4		X											
7	5		X											
8	6		X											
9	7		X											
10	8		X											
11	9		X											
12	10		X											
13	11		X											
14	12		X											
15	13		X											
16														
17														
18														
19														
20														
21														
22														

MSVOA WATER Prepsheet Curtis & Tompkins, Ltd.

Date: 11-17-13 **Batch #:** 205162

	Sample ID	Vial	pH <2	pH (if >2)	HS?	Dil'n flask	MS#	RR	DF	Comments	20 % ccv	hold	due	init date
1	250592-7	E	✓				8	1	1x	Fr113 hit w/ ct		11-19	11-12	TEW
2	-11	B	X			4		1	25x	OD				
17 3	-12		X			5		1	333x	Fr113 hit w/ ct & TCE > LR				
4	-13		X			6		1	7.14x					
5	-14		X			7		1	333x					
6	-15		X			8		1	33.3x					
7	-16		X			9		1	200x	& cis-1,2-DCE & TCE > LR				
18 8	250624-16	C	X		LV	10		1	3.33x	PCE > LR		11-19	11-13	
9	-17	B	✓					1	1x	✓ CO				
10	-23		✓					1		Bromthn < RL w/ C-				
20 11	250814-1	C	X		~~LV~~	1		1	20x	FOAM CS2 hit w/ ct HS = 2.5mL		11-20	11-19	
12	250604-14	A	✓						1x					
13	-15		✓											
14	-16		✓							TB				
15														
16														
17														
18														
19														
20														
21														
22														

Laboratory Job Number 250604

ANALYTICAL REPORT

Metals

Matrix: Water

Curtis & Tompkins, Ltd.

Chromium

Lab #:	250604	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Sampled:	11/06/13
Matrix:	Water	Received:	11/07/13
Units:	ug/L	Prepared:	11/11/13
Diln Fac:	1.000	Analyzed:	11/15/13
Batch#:	204935		

Field ID	Type	Lab ID	Result	RL	MDL
GMW-01	SAMPLE	250604-001	19	5.0	0.69
GMW-02	SAMPLE	250604-002	190	5.0	0.69
GMW-09MC	SAMPLE	250604-003	7,300	5.0	0.69
COG-05	SAMPLE	250604-004	83	5.0	0.69
E-102	SAMPLE	250604-005	15	5.0	0.69
GMW-13UC	SAMPLE	250604-006	460	5.0	0.69
GMW-14UC	SAMPLE	250604-007	23	5.0	0.69
GMW-15UC	SAMPLE	250604-008	8.0	5.0	0.69
GMW-16UC	SAMPLE	250604-009	17	5.0	0.69
GMW-17UC	SAMPLE	250604-010	47	5.0	0.69
GMW-18UC	SAMPLE	250604-011	15	5.0	0.69
GMW-19LC	SAMPLE	250604-012	55	5.0	0.69
GMW-20LC	SAMPLE	250604-013	37	5.0	0.69
GMW-25LC	SAMPLE	250604-014	24	5.0	0.69
GMW-26LC	SAMPLE	250604-015	8.7	5.0	0.69
	BLANK	QC715652	ND	5.0	0.69

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Chromium

Lab #:	250604	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Batch#:	204935
Field ID:	GMW-01	Sampled:	11/06/13
MSS Lab ID:	250604-001	Received:	11/07/13
Matrix:	Water	Prepared:	11/11/13
Units:	ug/L	Analyzed:	11/15/13
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC715653		200.0	214.2	107	80-120		
BSD	QC715654		200.0	229.8	115	80-120	7	20
MS	QC715655	19.34	200.0	238.4	110	80-120		
MSD	QC715656		200.0	241.3	111	80-120	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Chromium

Lab #:	250604	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	GMW-01	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	204935
MSS Lab ID:	250604-001	Sampled:	11/06/13
Lab ID:	QC715657	Received:	11/07/13
Matrix:	Water	Analyzed:	11/15/13

MSS Result	MSS RL	Result	RL	% Diff	Lim
19.34	5.000	21.35 J	25.00	NC	10

J= Estimated value
NC= Not Calculated
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Chromium

Lab #:	250604	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	GMW-01	Diln Fac:	1.000
Type:	Post Digest Spike	Batch#:	204935
MSS Lab ID:	250604-001	Sampled:	11/06/13
Lab ID:	QC715658	Received:	11/07/13
Matrix:	Water	Analyzed:	11/15/13

MSS Result	Spiked	Result	%REC	Limits
19.34	200.0	221.8	101	75-125

REPORTING SUMMARY FOR 250604 METALS Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CR	
250604-001	MET08	11/15/13 15:33	1.0	+	
250604-002	MET08	11/15/13 15:54	1.0	+	
250604-003	MET08	11/15/13 15:58	1.0	+	
250604-004	MET08	11/15/13 16:02	1.0	+	
250604-005	MET08	11/15/13 16:25	1.0	+	
250604-006	MET08	11/15/13 16:30	1.0	+	
250604-007	MET08	11/15/13 16:34	1.0	+	
250604-008	MET08	11/15/13 16:39	1.0	+	
250604-009	MET08	11/15/13 16:43	1.0	+	
250604-010	MET08	11/15/13 16:47	1.0	+	
250604-011	MET08	11/15/13 16:51	1.0	+	
250604-012	MET08	11/15/13 16:56	1.0	+	
250604-013	MET08	11/15/13 17:00	1.0	+	
250604-014	MET08	11/15/13 17:04	1.0	+	
250604-015	MET08	11/15/13 17:20	1.0	+	
QC715652	MET08	11/15/13 15:07	1.0	+	
QC715653	MET08	11/15/13 15:24	1.0	+	
QC715654	MET08	11/15/13 15:28	1.0	+	
QC715655	MET08	11/15/13 15:37	1.0	+	
QC715656	MET08	11/15/13 15:41	1.0	+	
QC715657	MET08	11/15/13 15:45	5.0	+	
QC715658	MET08	11/15/13 15:50	1.0	+	

ICP Data

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83459709

Instrument : MET08 Begun : 11/15/13 05:49
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	met08_sn_6010	ICALBLK				11/15/13 05:49	1.0		
002	met08_sn_6010	ICAL	CRI5.1			11/15/13 05:54	1.0	1	
003	met08_sn_6010	ICAL	CS100			11/15/13 05:59	1.0	2	
004	met08_sn_6010	ICAL	CS1K			11/15/13 06:03	1.0	3	
005	met08_sn_6010	ICAL	CS10K			11/15/13 06:07	1.0	4	
006	met08_sn_6010	ICAL	CS100K			11/15/13 06:14	1.0	5	
007	met08_sn_6010	XICV				11/15/13 06:21	1.0	6	
008	met08_sn_6010	ICV				11/15/13 06:26	1.0	6	
009	met08_sn_6010	XCRI				11/15/13 06:43	1.0	7	
010	met08_sn_6010	CRI				11/15/13 06:55	1.0	7	
011	met08_sn_6010	ICB				11/15/13 07:01	1.0		
012	met08_sn_6010	ICSA				11/15/13 07:06	1.0	8	10:MG=510000
013	met08_sn_6010	ICSAB				11/15/13 07:23	1.0	9	5:AL=470000
014	met08_sn_6010	BLANK	QC715356	Water	204870	11/15/13 07:30	1.0		
015	met08_sn_6010	BLANK	QC716157	Water	205067	11/15/13 07:34	1.0		
016	met08_sn_6010	MSS	250768-001	Water	205067	11/15/13 07:39	1.0		
017	met08_sn_6010	MSS	250579-003	Filtrate	204895	11/15/13 07:43	100.0		
018	met08_sn_6010	SAMPLE	250579-006	Filtrate	204895	11/15/13 07:48	100.0		
019	met08_sn_6010	SAMPLE	250511-003	Filtrate	204895	11/15/13 07:53	1.0		2:NA=280000
020	met08_sn_6010	SAMPLE	250511-004	Filtrate	204895	11/15/13 07:58	1.0		2:NA=340000
021	met08_sn_6010	SAMPLE	250511-006	Filtrate	204895	11/15/13 08:03	1.0		2:NA=340000
022	met08_sn_6010	ICSAB				11/15/13 08:08	1.0	9	5:MG=480000
023	met08_sn_6010	CCV				11/15/13 08:15	1.0	10	
024	met08_sn_6010	CCB				11/15/13 08:22	1.0		
025	met08_sn_6010	SAMPLE	250511-007	Filtrate	204895	11/15/13 08:27	1.0		2:NA=290000
026	met08_sn_6010	SAMPLE	250379-001	Filtrate	204713	11/15/13 08:32	1.0		
027	met08_sn_6010	SAMPLE	250379-002	Filtrate	204713	11/15/13 08:36	1.0		
028	met08_sn_6010	SAMPLE	250379-003	Filtrate	204713	11/15/13 08:40	1.0		
029	met08_sn_6010	SAMPLE	250379-004	Filtrate	204713	11/15/13 08:44	1.0		
030	met08_sn_6010	SAMPLE	250379-005	Filtrate	204713	11/15/13 08:48	1.0		
031	met08_sn_6010	SAMPLE	250379-006	Filtrate	204713	11/15/13 08:52	1.0		
032	met08_sn_6010	CCV				11/15/13 08:59	1.0	10	
033	met08_sn_6010	CCB				11/15/13 09:05	1.0		
034	met08_sn_6010	BLANK	QC715843	Water	204986	11/15/13 09:10	1.0		
035	met08_sn_6010	BS	QC715844	Water	204986	11/15/13 09:15	1.0		
036	met08_sn_6010	BSD	QC715845	Water	204986	11/15/13 09:19	1.0		
037	met08_sn_6010	MSS	250628-001	Water	204986	11/15/13 09:23	1.0		
038	met08_sn_6010	MS	QC715846	Water	204986	11/15/13 09:28	1.0		
039	met08_sn_6010	MSD	QC715847	Water	204986	11/15/13 09:32	1.0		
040	met08_sn_6010	SAMPLE	250628-002	Water	204986	11/15/13 09:36	1.0		
041	met08_sn_6010	SAMPLE	250628-003	Water	204986	11/15/13 09:41	1.0		
042	met08_sn_6010	SAMPLE	250628-004	Water	204986	11/15/13 09:45	1.0		
043	met08_sn_6010	ICSAB				11/15/13 09:49	1.0	9	5:MG=470000
044	met08_sn_6010	CCV				11/15/13 09:56	1.0	10	
045	met08_sn_6010	CCB				11/15/13 10:03	1.0		
046	met08_sn_6010	SAMPLE	250384-002	Filtrate	204713	11/15/13 10:08	1.0		
047	met08_sn_6010	SAMPLE	250384-003	Filtrate	204713	11/15/13 10:12	1.0		1:NA=140000
048	met08_sn_6010	SAMPLE	250326-001	Filtrate	204623	11/15/13 10:16	1.0		1:MG=100000
049	met08_sn_6010	SAMPLE	250326-002	Filtrate	204623	11/15/13 10:25	1.0		
050	met08_sn_6010	SAMPLE	250326-003	Filtrate	204623	11/15/13 10:29	1.0		
051	met08_sn_6010	SAMPLE	250326-004	Filtrate	204623	11/15/13 10:33	1.0		1:NA=520000
052	met08_sn_6010	SAMPLE	250326-005	Filtrate	204623	11/15/13 10:40	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83459709

Instrument : MET08 Begun : 11/15/13 05:49
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
053	met08_sn_6010	SAMPLE	250326-006	Filtrate	204623	11/15/13 10:45	1.0		1:NA=100000
054	met08_sn_6010	SAMPLE	250327-001	Filtrate	204623	11/15/13 10:49	1.0		
055	met08_sn_6010	SAMPLE	250327-002	Filtrate	204623	11/15/13 10:53	1.0		
056	met08_sn_6010	CCV				11/15/13 10:57	1.0	10	
057	met08_sn_6010	CCB				11/15/13 11:04	1.0		
058	met08_sn_6010	ICSAB				11/15/13 11:09	1.0	9	5:MG=480000
059	met08_sn_6010	SAMPLE	250327-003	Filtrate	204623	11/15/13 11:15	1.0		
060	met08_sn_6010	SAMPLE	250327-004	Filtrate	204623	11/15/13 11:20	1.0		
061	met08_sn_6010	SAMPLE	250623-005	Water	204986	11/15/13 11:24	1.0		1:CA=140000
062	met08_sn_6010	SAMPLE	250623-006	Water	204986	11/15/13 11:29	1.0		1:CA=160000
063	met08_sn_6010	SAMPLE	250623-007	Water	204986	11/15/13 11:34	1.0		3:NA=120000
064	met08_sn_6010	SAMPLE	250623-008	Water	204986	11/15/13 11:38	1.0		
065	met08_sn_6010	SAMPLE	250623-009	Water	204986	11/15/13 11:43	1.0		1:CA=180000
066	met08_sn_6010	SAMPLE	250623-010	Water	204986	11/15/13 11:48	1.0		1:CA=170000
067	met08_sn_6010	SAMPLE	250642-008	Water	204986	11/15/13 11:53	1.0		2:NA=270000
068	met08_sn_6010	SAMPLE	250642-009	Water	204986	11/15/13 11:58	1.0		2:NA=250000
069	met08_sn_6010	CCV				11/15/13 12:02	1.0	10	
070	met08_sn_6010	CCB				11/15/13 12:09	1.0		
071	met08_sn_6010	SAMPLE	250642-010	Water	204986	11/15/13 12:14	1.0		2:NA=240000
072	met08_sn_6010	SAMPLE	250642-011	Water	204986	11/15/13 12:18	1.0		2:NA=320000
073	met08_sn_6010	BLANK	QC715998	Water	205030	11/15/13 12:23	1.0		
074	met08_sn_6010	BS	QC715999	Water	205030	11/15/13 12:28	1.0		
075	met08_sn_6010	BSD	QC716000	Water	205030	11/15/13 12:33	1.0		
076	met08_sn_6010	MSS	250707-002	Water	205030	11/15/13 12:37	1.0		1:NA=170000
077	met08_sn_6010	MS	QC716001	Water	205030	11/15/13 12:41	1.0		
078	met08_sn_6010	MSD	QC716002	Water	205030	11/15/13 12:45	1.0		
079	met08_sn_6010	SAMPLE	250666-012	Water	205030	11/15/13 12:49	1.0		1:CA=140000
080	met08_sn_6010	SAMPLE	250666-014	Water	205030	11/15/13 12:53	1.0		1:CA=100000
081	met08_sn_6010	CCV				11/15/13 12:57	1.0	10	
082	met08_sn_6010	CCB				11/15/13 13:04	1.0		
083	met08_sn_6010	ICSAB				11/15/13 13:16	1.0	9	5:AL=480000
084	met08_sn_6010	SAMPLE	250666-019	Water	205030	11/15/13 13:23	1.0		1:CA=140000
085	met08_sn_6010	SAMPLE	250666-032	Water	205030	11/15/13 13:28	1.0		1:CA=160000
086	met08_sn_6010	MSS	248949-002	Filtrate	203053	11/15/13 13:33	100.0		
087	met08_sn_6010	SER	QC707733	Filtrate	203053	11/15/13 13:38	500.0		
088	met08_sn_6010	PDS	QC707734	Filtrate	203053	11/15/13 13:43	100.0	11 12	
089	met08_sn_6010	CCV				11/15/13 13:47	1.0	10	
090	met08_sn_6010	CCB				11/15/13 13:54	1.0		
091	met08_sn_6010	ICSAB				11/15/13 13:59	1.0	9	5:AL=490000
092	met08_sn_6010	BLANK	QC715076	Filtrate	204807	11/15/13 14:20	1.0		
093	met08_sn_6010	BS	QC715077	Filtrate	204807	11/15/13 14:25	1.0		
094	met08_sn_6010	BSD	QC715078	Filtrate	204807	11/15/13 14:29	1.0		
095	met08_sn_6010	MSS	250520-002	Filtrate	204807	11/15/13 14:33	1.0		3:MG=690000
096	met08_sn_6010	MS	QC715079	Filtrate	204807	11/15/13 14:40	1.0		3:MG=690000
097	met08_sn_6010	MSD	QC715080	Filtrate	204807	11/15/13 14:47	1.0		3:MG=690000
098	met08_sn_6010	SAMPLE	250458-004	Filtrate	204807	11/15/13 14:54	10.0		
099	met08_sn_6010	SAMPLE	250459-002	Filtrate	204807	11/15/13 14:59	100.0		
100	met08_sn_6010	SAMPLE	250459-003	Filtrate	204807	11/15/13 15:03	10.0		
101	met08_sn_6010	BLANK	QC715652	Water	204935	11/15/13 15:07	1.0		
102	met08_sn_6010	CCV				11/15/13 15:12	1.0	10	
103	met08_sn_6010	CCB				11/15/13 15:19	1.0		
104	met08_sn_6010	BS	QC715653	Water	204935	11/15/13 15:24	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83459709

Instrument : MET08 Begun : 11/15/13 05:49
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
105	met08_sn_6010	BSD	QC715654	Water	204935	11/15/13 15:28	1.0		
106	met08_sn_6010	MSS	250604-001	Water	204935	11/15/13 15:33	1.0		3:CA=240000
107	met08_sn_6010	MS	QC715655	Water	204935	11/15/13 15:37	1.0		
108	met08_sn_6010	MSD	QC715656	Water	204935	11/15/13 15:41	1.0		
109	met08_sn_6010	SER	QC715657	Water	204935	11/15/13 15:45	5.0		
110	met08_sn_6010	PDS	QC715658	Water	204935	11/15/13 15:50	1.0	11 12	
111	met08_sn_6010	SAMPLE	250604-002	Water	204935	11/15/13 15:54	1.0		3:CA=350000
112	met08_sn_6010	SAMPLE	250604-003	Water	204935	11/15/13 15:58	1.0		3:CA=290000
113	met08_sn_6010	SAMPLE	250604-004	Water	204935	11/15/13 16:02	1.0		3:CA=490000
114	met08_sn_6010	CCV				11/15/13 16:07	1.0	10	
115	met08_sn_6010	CCB				11/15/13 16:13	1.0		
116	met08_sn_6010	ICSAB				11/15/13 16:18	1.0	9	5:AL=500000
117	met08_sn_6010	SAMPLE	250604-005	Water	204935	11/15/13 16:25	1.0		3:CA=270000
118	met08_sn_6010	SAMPLE	250604-006	Water	204935	11/15/13 16:30	1.0		3:CA=510000
119	met08_sn_6010	SAMPLE	250604-007	Water	204935	11/15/13 16:34	1.0		2:CA=230000
120	met08_sn_6010	SAMPLE	250604-008	Water	204935	11/15/13 16:39	1.0		1:CA=230000
121	met08_sn_6010	SAMPLE	250604-009	Water	204935	11/15/13 16:43	1.0		2:NA=160000
122	met08_sn_6010	SAMPLE	250604-010	Water	204935	11/15/13 16:47	1.0		2:CA=220000
123	met08_sn_6010	SAMPLE	250604-011	Water	204935	11/15/13 16:51	1.0		3:CA=500000
124	met08_sn_6010	SAMPLE	250604-012	Water	204935	11/15/13 16:56	1.0		3:CA=530000
125	met08_sn_6010	SAMPLE	250604-013	Water	204935	11/15/13 17:00	1.0		2:CA=340000
126	met08_sn_6010	SAMPLE	250604-014	Water	204935	11/15/13 17:04	1.0		1:NA=140000
127	met08_sn_6010	CCV				11/15/13 17:08	1.0	10	
128	met08_sn_6010	CCB				11/15/13 17:15	1.0		
129	met08_sn_6010	SAMPLE	250604-015	Water	204935	11/15/13 17:20	1.0		3:CA=420000
130	met08_sn_6010	SAMPLE	250557-004	Water	204935	11/15/13 17:24	1.0		2:NA=300000
131	met08_sn_6010	SAMPLE	250557-005	Water	204935	11/15/13 17:29	1.0		2:NA=320000
132	met08_sn_6010	SAMPLE	250557-006	Water	204935	11/15/13 17:33	1.0		2:NA=370000
133	met08_sn_6010	SAMPLE	250557-011	Water	204935	11/15/13 17:37	1.0		2:NA=280000
134	met08_sn_6010	SAMPLE	250557-012	Water	204935	11/15/13 17:42	1.0		2:NA=260000
135	met08_sn_6010	CCV				11/15/13 17:47	1.0	10	
136	met08_sn_6010	CCB				11/15/13 17:54	1.0		
137	met08_sn_6010	ICSAB				11/15/13 18:00	1.0	9	5:AL=500000
138	met08_sn_6010	BLANK	QC715293	Filtrate	204858	11/15/13 18:18	1.0		
139	met08_sn_6010	BLANK	QC715305	Filtrate	204858	11/15/13 18:23	1.0		
140	met08_sn_6010	BS	QC715294	Filtrate	204858	11/15/13 18:28	1.0		
141	met08_sn_6010	BSD	QC715295	Filtrate	204858	11/15/13 18:32	1.0		
142	met08_sn_6010	MSS	250555-005	Filtrate	204858	11/15/13 18:36	1.0		2:CA=230000
143	met08_sn_6010	MS	QC715296	Filtrate	204858	11/15/13 18:42	1.0		1:CA=230000
144	met08_sn_6010	MSD	QC715297	Filtrate	204858	11/15/13 18:46	1.0		1:CA=230000
145	met08_sn_6010	MSS	250555-006	Filtrate	204858	11/15/13 18:50	1.0		2:NA=430000
146	met08_sn_6010	MS	QC715298	Filtrate	204858	11/15/13 18:55	1.0		
147	met08_sn_6010	X	RINSE			11/15/13 18:59	1.0		
148	met08_sn_6010	CCV				11/15/13 19:04	1.0	10	
149	met08_sn_6010	XCCB				11/15/13 19:11	1.0		
150	met08_sn_6010	XCCB				11/15/13 19:15	1.0		
151	met08_sn_6010	XMSD	QC715299	Filtrate	204858	11/15/13 19:20	1.0		
152	met08_sn_6010	CCB				11/15/13 19:30	1.0		
153	met08_sn_6010	MSD	QC715299	Filtrate	204858	11/15/13 19:35	1.0		
154	met08_sn_6010	SER	QC715300	Filtrate	204858	11/15/13 19:39	5.0		
155	met08_sn_6010	PDS	QC715301	Filtrate	204858	11/15/13 19:44	1.0	11 12	
156	met08_sn_6010	SAMPLE	250555-001	Filtrate	204858	11/15/13 19:48	1.0		2:CA=250000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83459709

Instrument : MET08 Begun : 11/15/13 05:49
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
157	met08_sn_6010	SAMPLE	250555-002	Filtrate	204858	11/15/13 19:53	1.0		2:CA=250000
158	met08_sn_6010	SAMPLE	250555-003	Filtrate	204858	11/15/13 19:58	1.0		3:CA=210000
159	met08_sn_6010	SAMPLE	250555-004	Filtrate	204858	11/15/13 20:03	1.0		3:CA=210000
160	met08_sn_6010	SAMPLE	250555-007	Filtrate	204858	11/15/13 20:08	1.0		2:NA=370000
161	met08_sn_6010	SAMPLE	250555-008	Filtrate	204858	11/15/13 20:13	1.0		3:NA=310000
162	met08_sn_6010	SAMPLE	250558-001	Filtrate	204858	11/15/13 20:19	1.0		3:NA=370000
163	met08_sn_6010	CCV				11/15/13 20:24	1.0	10	
164	met08_sn_6010	CCB				11/15/13 20:30	1.0		
165	met08_sn_6010	ICSAB				11/15/13 20:36	1.0	9	5:AL=490000
166	met08_sn_6010	MSS	250520-002	Filtrate	204807	11/15/13 20:42	100.0		
167	met08_sn_6010	SAMPLE	250558-002	Filtrate	204858	11/15/13 20:46	1.0		3:NA=380000
168	met08_sn_6010	SAMPLE	250558-003	Filtrate	204858	11/15/13 20:51	1.0		1:CA=210000
169	met08_sn_6010	SAMPLE	250558-004	Filtrate	204858	11/15/13 20:57	1.0		1:CA=210000
170	met08_sn_6010	SAMPLE	250558-008	Filtrate	204858	11/15/13 21:02	1.0		3:CA=310000
171	met08_sn_6010	SAMPLE	250558-009	Filtrate	204858	11/15/13 21:07	1.0		3:CA=410000
172	met08_sn_6010	SAMPLE	250558-010	Filtrate	204858	11/15/13 21:12	1.0		3:CA=410000
173	met08_sn_6010	SAMPLE	250458-004	Filtrate	204807	11/15/13 21:17	1.0		3:CA=370000
174	met08_sn_6010	SAMPLE	250459-002	Filtrate	204807	11/15/13 21:22	1.0		2:CA=1300000
175	met08_sn_6010	X	RINSE			11/15/13 21:29	1.0		
176	met08_sn_6010	CCV				11/15/13 21:34	1.0	10	
177	met08_sn_6010	CCB				11/15/13 21:41	1.0		
178	met08_sn_6010	ICSAB				11/15/13 21:46	1.0	9	5:AL=490000

NT 11/15/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 46.

CRT 11/15/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 47 through 152.

CRT 11/15/13 : On runs 149-151, the CCB ran out. Reran the CCB and the sample right after.

NT 11/18/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 153 through 178.

Standards used: 1=S23297 2=S23299 3=S23298 4=S23300 5=S23301 6=S23304 7=S23306 8=S23302 9=S23303 10=S23305 11=S21652 12=S21653

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83459709

Date : 11/15/13 Reference : met08_sn_6010
Sequence : MET08 11/15/13 Analyzed : 11/15/13 05:54

#	Type	Sample ID	Y A
		ICAL STD	2065785
		LOWER LIMIT	619735
		UPPER LIMIT	4131569
011	ICB		2129551
012	ICSA		1994872
013	ICSAB		2046299
014	BLANK	QC715356	2300113
015	BLANK	QC716157	2304930
016	MSS	250768-001	2239605
017	MSS	250579-003	2184211
018	SAMPLE	250579-006	2185478
019	SAMPLE	250511-003	2049248
020	SAMPLE	250511-004	2043652
021	SAMPLE	250511-006	2027462
022	ICSAB		2044295
023	CCV		2257518
024	CCB		2181511
025	SAMPLE	250511-007	2018916
026	SAMPLE	250379-001	2295006
027	SAMPLE	250379-002	2301270
028	SAMPLE	250379-003	2212824
029	SAMPLE	250379-004	2296476
030	SAMPLE	250379-005	2274283
031	SAMPLE	250379-006	2192185
032	CCV		2276241
033	CCB		2131510
034	BLANK	QC715843	2251756
035	BS	QC715844	2291151
036	BSD	QC715845	2244896
037	MSS	250628-001	2230051
038	MS	QC715846	2248098
039	MSD	QC715847	2222664
040	SAMPLE	250628-002	2220970
041	SAMPLE	250628-003	2300305
042	SAMPLE	250628-004	2300290
043	ICSAB		2016421
044	CCV		2245136
045	CCB		2172114
046	SAMPLE	250384-002	2226531
047	SAMPLE	250384-003	2265831
048	SAMPLE	250326-001	1969022
049	SAMPLE	250326-002	2235903
050	SAMPLE	250326-003	2238259
051	SAMPLE	250326-004	2142553
052	SAMPLE	250326-005	2173072
053	SAMPLE	250326-006	2275497
054	SAMPLE	250327-001	2352859
055	SAMPLE	250327-002	2295938
056	CCV		2271951
057	CCB		2168558
058	ICSAB		2038074

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83459709

Date : 11/15/13 Reference : met08_sn_6010
Sequence : MET08 11/15/13 Analyzed : 11/15/13 05:54

#	Type	Sample ID	Y A
059	SAMPLE	250327-003	2353937
060	SAMPLE	250327-004	2312666
067	SAMPLE	250642-008	2027719
068	SAMPLE	250642-009	2095119
069	CCV		2290395
070	CCB		2146425
071	SAMPLE	250642-010	2080330
072	SAMPLE	250642-011	1940039
073	BLANK	QC715998	2165388
074	BS	QC715999	2171140
075	BSD	QC716000	2186836
076	MSS	250707-002	2180818
077	MS	QC716001	2125599
078	MSD	QC716002	2150244
081	CCV		2231767
082	CCB		2104616
083	ICSAB		1994881
086	MSS	248949-002	2119093
087	SER	QC707733	2098197
088	PDS	QC707734	2150478
089	CCV		2195065
090	CCB		2115381
091	ICSAB		1961043
092	BLANK	QC715076	2253287
093	BS	QC715077	2228275
094	BSD	QC715078	2231275
095	MSS	250520-002	1967107
096	MS	QC715079	1935785
097	MSD	QC715080	1985658
098	SAMPLE	250458-004	2049322
099	SAMPLE	250459-002	2217280
100	SAMPLE	250459-003	2217223
101	BLANK	QC715652	2140472
102	CCV		2163130
103	CCB		2102941
104	BS	QC715653	2175803
105	BSD	QC715654	2191825
106	MSS	250604-001	2027645
107	MS	QC715655	2026391
108	MSD	QC715656	2007350
109	SER	QC715657	2003971
110	PDS	QC715658	2010278
111	SAMPLE	250604-002	2013094
112	SAMPLE	250604-003	1997160
113	SAMPLE	250604-004	1927170
114	CCV		2198032
115	CCB		2087419
116	ICSAB		1956127
117	SAMPLE	250604-005	1981718
118	SAMPLE	250604-006	1990176
119	SAMPLE	250604-007	2109792
120	SAMPLE	250604-008	2097561

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83459709

Date : 11/15/13 Reference : met08_sn_6010
Sequence : MET08 11/15/13 Analyzed : 11/15/13 05:54

#	Type	Sample ID	Y A
121	SAMPLE	250604-009	2050980
122	SAMPLE	250604-010	2089321
123	SAMPLE	250604-011	1893063
124	SAMPLE	250604-012	1996009
125	SAMPLE	250604-013	2032613
126	SAMPLE	250604-014	2118142
127	CCV		2188148
128	CCB		2068751
129	SAMPLE	250604-015	2014194
130	SAMPLE	250557-004	2037204
131	SAMPLE	250557-005	2056471
132	SAMPLE	250557-006	2033006
133	SAMPLE	250557-011	1932232
134	SAMPLE	250557-012	2019809
135	CCV		2207137
136	CCB		2130979
137	ICSAB		1984153
138	BLANK	QC715293	2176097
139	BLANK	QC715305	2136852
140	BS	QC715294	2208129
141	BSD	QC715295	2227555
142	MSS	250555-005	2000762
143	MS	QC715296	2043213
144	MSD	QC715297	2060212
145	MSS	250555-006	1939439
146	MS	QC715298	2061465
148	CCV		2193916
152	CCB		2126993
153	MSD	QC715299	2067140
154	SER	QC715300	2032847
155	PDS	QC715301	2012353
156	SAMPLE	250555-001	1993182
157	SAMPLE	250555-002	1997615
158	SAMPLE	250555-003	1985928
159	SAMPLE	250555-004	1993065
160	SAMPLE	250555-007	1944187
161	SAMPLE	250555-008	1946275
162	SAMPLE	250558-001	1928421
163	CCV		2178562
164	CCB		2121721
165	ICSAB		2026238
166	MSS	250520-002	2250956
167	SAMPLE	250558-002	1940215
168	SAMPLE	250558-003	2033731
169	SAMPLE	250558-004	2011608
170	SAMPLE	250558-008	1921411
171	SAMPLE	250558-009	1925087
172	SAMPLE	250558-010	1898815
173	SAMPLE	250458-004	1909060
174	SAMPLE	250459-002	1839463
176	CCV		2155835
177	CCB		2026486

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83459709

Date : 11/15/13 Reference : met08_sn_6010
Sequence : MET08 11/15/13 Analyzed : 11/15/13 05:54

#	Type	Sample ID	Y	A
178	ICSAB		1976393	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 250604 METALS Water: EPA 6010B

Inst : MET08 Reviewer : ---
Calnum : 83459709001 Date : 15-NOV-2013 05:49
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	met08_sn_6010	83459709002	CRI5.1	15-NOV-2013 05:54	S23297
L2	met08_sn_6010	83459709003	CS100	15-NOV-2013 05:59	S23299
L3	met08_sn_6010	83459709004	CS1K	15-NOV-2013 06:03	S23298
L4	met08_sn_6010	83459709005	CS10K	15-NOV-2013 06:07	S23300
L5	met08_sn_6010	83459709006	CS100K	15-NOV-2013 06:14	S23301

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Chromium	A	103.52	98.093	96.632	92.335		LOR0	0.00000	0.01083		97.645	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Chromium	A	5.0000	12	100.00	6	1000.0	5	10000	0		

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 250604 METALS Water
EPA 6010B

Inst : MET08
Calnum : 83459709001 Cal Date : 15-NOV-2013

ICV 83459709008 (15-NOV-2013) stds: S23304

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Chromium	A	5000	5076	ug/L	2	10	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250604 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83459709011.2 File : met08_sn_6010 Time : 15-NOV-2013 07:01
Cal : 83459709001 Caldate : 15-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2065785	2129551	3.09

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR 250604 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83459709012.2 File : met08_sn_6010 Time : 15-NOV-2013 07:06
Cal : 83459709001 Caldate : 15-NOV-2013
Standards: S23302

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19420	ug/L	97
Copper	A	20000	20900	ug/L	104
Manganese	A	20000	18450	ug/L	92
Nickel	A	20000	18440	ug/L	92
Vanadium	A	20000	19450	ug/L	97
Aluminum	R	500000	508400	ug/L	102
Calcium	R	500000	491000	ug/L	98
Iron	R	200000	193800	ug/L	97
Magnesium	R	500000	508700	ug/L	102
Titanium	R	20000	21110	ug/L	106

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2065785	1994872	-3.43

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 250604 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83459709089.1 File : met08_sn_6010 Time : 15-NOV-2013 13:47
Cal : 83459709001 Caldate : 15-NOV-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	97.645	93.001	5000	5034	ug/L	1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2065785	2195065	6.26

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250604 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83459709090.1 File : met08_sn_6010 Time : 15-NOV-2013 13:54
Cal : 83459709001 Caldate : 15-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	[1.412]	5.000	1.372	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2065785	2115381	2.40

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 250604 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83459709091.1 File : met08_sn_6010 Time : 15-NOV-2013 13:59
Cal : 83459709001 Caldate : 15-NOV-2013
Standards: S23303

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	503.5	ug/L	1	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2065785	1961043	-5.07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 250604 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83459709102.1 File : met08_sn_6010 Time : 15-NOV-2013 15:12
Cal : 83459709001 Caldate : 15-NOV-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	97.645	93.633	5000	5068	ug/L	1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2065785	2163130	4.71

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250604 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83459709103.1 File : met08_sn_6010 Time : 15-NOV-2013 15:19
Cal : 83459709001 Caldate : 15-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2065785	2102941	1.80

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 250604 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83459709114.1 File : met08_sn_6010 Time : 15-NOV-2013 16:07
Cal : 83459709001 Caldate : 15-NOV-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	97.645	94.159	5000	5096	ug/L	2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2065785	2198032	6.40

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250604 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83459709115.1 File : met08_sn_6010 Time : 15-NOV-2013 16:13
Cal : 83459709001 Caldate : 15-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	[1.805]	5.000	1.372	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2065785	2087419	1.05

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 250604 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83459709116.1 File : met08_sn_6010 Time : 15-NOV-2013 16:18
Cal : 83459709001 Caldate : 15-NOV-2013
Standards: S23303

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	505.5	ug/L	1	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2065785	1956127	-5.31

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 250604 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83459709127.1 File : met08_sn_6010 Time : 15-NOV-2013 17:08
Cal : 83459709001 Caldate : 15-NOV-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	97.645	94.687	5000	5125	ug/L	2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2065785	2188148	5.92

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250604 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83459709128.1 File : met08_sn_6010 Time : 15-NOV-2013 17:15
Cal : 83459709001 Caldate : 15-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2065785	2068751	0.14

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 250604 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83459709135.1 File : met08_sn_6010 Time : 15-NOV-2013 17:47
Cal : 83459709001 Caldate : 15-NOV-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	97.645	94.192	5000	5098	ug/L	2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2065785	2207137	6.84

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250604 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83459709136.1 File : met08_sn_6010 Time : 15-NOV-2013 17:54
Cal : 83459709001 Caldate : 15-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.372	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2065785	2130979	3.16

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 250604 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83459709137.1 File : met08_sn_6010 Time : 15-NOV-2013 18:00
Cal : 83459709001 Caldate : 15-NOV-2013
Standards: S23303

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	510.5	ug/L	2	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2065785	1984153	-3.95

SAMPLE PREPARATION SUMMARY

Batch # : 204935 Analysis : ICAP
Started By : NCD Prep Date : 11-NOV-2013 19:30 Finished By : NCD
Method : 3010A SOP Version : 3010A_icp_rv15 Units : mL
Spike #1 ID : S21653 Spike #2 ID : S21652

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
250557-004		Water	50	50	1	1.0						B	
250557-005		Water	50	50	1	1.0						B	
250557-006		Water	50	50	1	1.0						B	
250557-011		Water	50	50	1	1.0						B	
250557-012		Water	50	50	1	1.0						B	
250604-001		Water	50	50	1	1.0						CR	
250604-002		Water	50	50	1	1.0						CR	
250604-003		Water	50	50	1	1.0						CR	
250604-004		Water	50	50	1	1.0						CR	
250604-005		Water	50	50	1	1.0						CR	
250604-006		Water	50	50	1	1.0						CR	
250604-007		Water	50	50	1	1.0						CR	
250604-008		Water	50	50	1	1.0						CR	
250604-009		Water	50	50	1	1.0						CR	
250604-010		Water	50	50	1	1.0						CR	
250604-011		Water	50	50	1	1.0						CR	
250604-012		Water	50	50	1	1.0						CR	
250604-013		Water	50	50	1	1.0						CR	
250604-014		Water	50	50	1	1.0						CR	
250604-015		Water	50	50	1	1.0						CR	
QC715652	BLANK	Water	50	50	1	1.0							
QC715653	BS	Water	50	50	1	1.0		.5	.5				
QC715654	BSD	Water	50	50	1	1.0		.5	.5				
QC715655	MS	Water	50	50	1	1.0		.5	.5				
QC715656	MSD	Water	50	50	1	1.0		.5	.5				
QC715657	SER	Water	50	50	1	1.0							
QC715658	PDS	Water	50	50	1	1.0							

Analyst: CRT Date: 11/15/13 Reviewer: PRW Date: 11/18/13

Water Digestion for ICP

Curtis & Tompkins, Ltd.

LIMS Batch #: 201935
Digested by: NW
Date Digested: 11/11/2013

Digestion Method
☒ EPA 3010a for ICP
☐ EPA 200.7
☐ _____

BK3498
Page 39

Lvl.	Sample #	Container ID	Volume Sample(mL)	Final Volume (mL)	Filtered? (y/n)	ID Π	Comments
	BLK 715652		☑ 50 ☐	☑ 50 ☐	NO	✓	
	BS 53		☑ 50 ☐	☑ 50 ☐		✓	
	BSD 54		☑ 50 ☐	☑ 50 ☐		✓	
III	250604-001	D	☑ 50 ☐	☑ 50 ☐		✓	MS
5	-001		☑ 50 ☐	☑ 50 ☐		✓	MSD
	-001		☑ 50 ☐	☑ 50 ☐		✓	
	-002		☑ 50 ☐	☑ 50 ☐		✓	
	-003		☑ 50 ☐	☑ 50 ☐		✓	
	-004		☑ 50 ☐	☑ 50 ☐		✓	
10	-005		☑ 50 ☐	☑ 50 ☐		✓	
	-006		☑ 50 ☐	☑ 50 ☐		✓	
	-007		☑ 50 ☐	☑ 50 ☐		✓	
	-008		☑ 50 ☐	☑ 50 ☐		✓	
	-009		☑ 50 ☐	☑ 50 ☐		✓	
15	-010		☑ 50 ☐	☑ 50 ☐		✓	
	-011		☑ 50 ☐	☑ 50 ☐		✓	
	-012		☑ 50 ☐	☑ 50 ☐		✓	
	-013		☑ 50 ☐	☑ 50 ☐		✓	
	-014		☑ 50 ☐	☑ 50 ☐		✓	
20	-015		☑ 50 ☐	☑ 50 ☐		✓	
II	250557-001	J	☑ 50 ☐	☑ 50 ☐	NO	✓	
	-005	F	☑ 50 ☐	☑ 50 ☐		✓	Verified pH<2
	-006	G	☑ 50 ☐	☑ 50 ☐		✓	
	-011		☑ 50 ☐	☑ 50 ☐		✓	Verified pH<2
	-012		☑ 50 ☐	☑ 50 ☐		✓	

	Reagent ID or LIMS #	Initials / Date
Digestion tubes, lot #	169172	NW 11/11/2013
0.5 mL of spike solution (Std1) was added to all spikes	S21653	
0.5 mL of spike solution (Std2) was added to all spikes	S21652	
Digestion Temperature (°C), Block and Probe Location	95°C | A6	
Digestion begun at (time)	12:05	
☑ Conc. HNO3 or ☐ 1:1 HNO3	L12065	
1:1 HCl	46272-103113	
digestion ended at (time)	1:30	
☐ filtered thru' Whatman # 541	—	
Relinquished to ICP group	ICAP	

11/11/2013
Prep Chemist / Date

Continued from page _____.
Continued on page _____.

Reviewed Online / See LIMS

Laboratory Job Number 250604

ANALYTICAL REPORT

Metals

Matrix: Filtrate

Curtis & Tompkins, Ltd.

Dissolved Chromium

Lab #:	250604	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Batch#:	204896
Matrix:	Filtrate	Sampled:	11/06/13
Units:	ug/L	Received:	11/07/13
Diln Fac:	1.000	Prepared:	11/08/13

Field ID	Type	Lab ID	Result	RL	MDL	Analyzed
GMW-01	SAMPLE	250604-001	1.3 J	5.0	0.63	11/15/13
GMW-02	SAMPLE	250604-002	70	5.0	0.63	11/15/13
GMW-09MC	SAMPLE	250604-003	8.4	5.0	0.63	11/15/13
COG-05	SAMPLE	250604-004	ND	5.0	0.63	11/15/13
E-102	SAMPLE	250604-005	8.0	5.0	0.63	11/15/13
GMW-13UC	SAMPLE	250604-006	50	5.0	0.63	11/15/13
GMW-14UC	SAMPLE	250604-007	3.9 J	5.0	0.63	11/15/13
GMW-15UC	SAMPLE	250604-008	ND	5.0	0.63	11/15/13
GMW-16UC	SAMPLE	250604-009	5.4	5.0	0.63	11/15/13
GMW-17UC	SAMPLE	250604-010	9.5	5.0	0.63	11/15/13
GMW-18UC	SAMPLE	250604-011	8.3	5.0	0.63	11/15/13
GMW-19LC	SAMPLE	250604-012	24	5.0	0.63	11/15/13
GMW-20LC	SAMPLE	250604-013	6.0	5.0	0.63	11/15/13
GMW-25LC	SAMPLE	250604-014	17	5.0	0.63	11/15/13
GMW-26LC	SAMPLE	250604-015	1.2 J	5.0	0.63	11/16/13
	BLANK	QC715463	ND	5.0	0.63	11/15/13

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Chromium

Lab #:	250604	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Batch#:	204896
Field ID:	GMW-01	Sampled:	11/06/13
MSS Lab ID:	250604-001	Received:	11/07/13
Matrix:	Filtrate	Prepared:	11/08/13
Units:	ug/L	Analyzed:	11/15/13
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC715464		200.0	188.4	94	80-120		
BSD	QC715465		200.0	197.3	99	80-120	5	20
MS	QC715466	1.350	200.0	190.9	95	74-120		
MSD	QC715467		200.0	188.1	93	74-120	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Chromium

Lab #:	250604	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	GMW-01	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	204896
MSS Lab ID:	250604-001	Sampled:	11/06/13
Lab ID:	QC715468	Received:	11/07/13
Matrix:	Filtrate	Analyzed:	11/15/13

MSS Result	MSS RL	Result	RL	% Diff	Lim
1.350	5.000	ND	25.00	NC	10

NC= Not Calculated
ND= Not Detected at or above MDL
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Chromium

Lab #:	250604	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	GMW-01	Diln Fac:	1.000
Type:	Post Digest Spike	Batch#:	204896
MSS Lab ID:	250604-001	Sampled:	11/06/13
Lab ID:	QC715469	Received:	11/07/13
Matrix:	Filtrate	Analyzed:	11/15/13

MSS Result	Spiked	Result	%REC	Limits
1.350	200.0	180.4	90	75-125

REPORTING SUMMARY FOR 250604 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CR
250604-001	MET09	11/15/13 21:39	1.0	+
250604-002	MET09	11/15/13 22:15	1.0	+
250604-003	MET09	11/15/13 22:21	1.0	+
250604-004	MET09	11/15/13 22:29	1.0	+
250604-005	MET09	11/15/13 22:50	1.0	+
250604-006	MET09	11/15/13 22:55	1.0	+
250604-007	MET09	11/15/13 23:04	1.0	+
250604-008	MET09	11/15/13 23:09	1.0	+
250604-009	MET09	11/15/13 23:14	1.0	+
250604-010	MET09	11/15/13 23:23	1.0	+
250604-011	MET09	11/15/13 23:31	1.0	+
250604-012	MET09	11/15/13 23:40	1.0	+
250604-013	MET09	11/15/13 23:49	1.0	+
250604-014	MET09	11/15/13 23:54	1.0	+
250604-015	MET09	11/16/13 00:14	1.0	+
QC715463	MET09	11/15/13 21:06	1.0	+
QC715464	MET09	11/15/13 21:23	1.0	+
QC715465	MET09	11/15/13 21:27	1.0	+
QC715466	MET09	11/15/13 21:47	1.0	+
QC715467	MET09	11/15/13 21:55	1.0	+
QC715468	MET09	11/15/13 22:03	5.0	+
QC715469	MET09	11/15/13 22:08	1.0	+

ICP Data

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 93459709

Instrument : MET09 Begun : 11/15/13 05:49
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	met09_sn	ICALBLK				11/15/13 05:49	1.0		
002	met09_sn	ICAL	CRI5.1			11/15/13 05:54	1.0	1	
003	met09_sn	ICAL	CS100			11/15/13 05:59	1.0	2	
004	met09_sn	ICAL	CS1K			11/15/13 06:03	1.0	3	
005	met09_sn	ICAL	CS10K			11/15/13 06:08	1.0	4	
006	met09_sn	ICAL	CS100K			11/15/13 06:14	1.0	5	
007	met09_sn	XICV				11/15/13 06:21	1.0	6	
008	met09_sn	ICV				11/15/13 06:26	1.0	6	
009	met09_sn	XCRI				11/15/13 06:43	1.0	7	
010	met09_sn	CRI				11/15/13 06:55	1.0	7	
011	met09_sn	ICB				11/15/13 07:01	1.0		
012	met09_sn	ICSA				11/15/13 07:06	1.0	8	10:AL=490000
013	met09_sn	ICSAB				11/15/13 07:23	1.0	9	5:AL=470000
014	met09_sn	BLANK	QC716201	Soil	205077	11/15/13 07:31	1.0		
015	met09_sn	BS	QC716202	Soil	205077	11/15/13 07:36	1.0		
016	met09_sn	BSD	QC716203	Soil	205077	11/15/13 07:40	1.0		
017	met09_sn	MSS	250770-001	Soil	205077	11/15/13 07:44	1.0		5:FE=420000
018	met09_sn	MS	QC716204	Soil	205077	11/15/13 07:48	1.0		
019	met09_sn	MSD	QC716205	Soil	205077	11/15/13 07:52	1.0		
020	met09_sn	SER	QC716206	Soil	205077	11/15/13 07:57	5.0		
021	met09_sn	PDS	QC716207	Soil	205077	11/15/13 08:01	1.0	10 11	1:FE=430000
022	met09_sn	CCV				11/15/13 08:05	1.0	12	
023	met09_sn	CCB				11/15/13 08:12	1.0		
024	met09_sn	SAMPLE	250786-001	Soil	205077	11/15/13 08:17	1.0		2:FE=380000
025	met09_sn	SAMPLE	250787-001	Soil	205077	11/15/13 08:21	1.0		5:FE=400000
026	met09_sn	BLANK	QC716282	Wipe	205094	11/15/13 08:29	1.0		
027	met09_sn	BS	QC716283	Wipe	205094	11/15/13 08:34	1.0		
028	met09_sn	BSD	QC716284	Wipe	205094	11/15/13 08:38	1.0		
029	met09_sn	SAMPLE	250708-001	Wipe	205094	11/15/13 08:42	1.0		2:FE=270000
030	met09_sn	SAMPLE	250708-002	Wipe	205094	11/15/13 08:50	1.0		4:FE=110000
031	met09_sn	SAMPLE	250708-003	Wipe	205094	11/15/13 08:57	1.0		2:NA=120000
032	met09_sn	BLANK	QC716082	Soil	205051	11/15/13 09:05	1.0		
033	met09_sn	BS	QC716083	Soil	205051	11/15/13 09:10	1.0		
034	met09_sn	CCV				11/15/13 09:14	1.0	12	
035	met09_sn	CCB				11/15/13 09:21	1.0		
036	met09_sn	BSD	QC716084	Soil	205051	11/15/13 09:26	1.0		
037	met09_sn	ICSAB				11/15/13 09:30	1.0	9	5:AL=480000
038	met09_sn	SAMPLE	250668-001	Soil	205051	11/15/13 09:38	1.0		4:FE=530000
039	met09_sn	SAMPLE	249125-004	Filtrate	203053	11/15/13 09:46	10.0		
040	met09_sn	BLANK	QC715954	SPLP Leachate	205016	11/15/13 09:51	1.0		
041	met09_sn	BS	QC715955	SPLP Leachate	205016	11/15/13 09:56	1.0		
042	met09_sn	BSD	QC715956	SPLP Leachate	205016	11/15/13 10:00	1.0		
043	met09_sn	MSS	250641-001	SPLP Leachate	205016	11/15/13 10:04	1.0		
044	met09_sn	MS	QC715957	SPLP Leachate	205016	11/15/13 10:08	1.0		
045	met09_sn	MSD	QC715958	SPLP Leachate	205016	11/15/13 10:12	1.0		
046	met09_sn	SAMPLE	250641-002	SPLP Leachate	205016	11/15/13 10:16	1.0		
047	met09_sn	CCV				11/15/13 10:21	1.0	12	
048	met09_sn	CCB				11/15/13 10:27	1.0		
049	met09_sn	SAMPLE	250641-003	SPLP Leachate	205016	11/15/13 10:33	1.0		
050	met09_sn	SAMPLE	250641-004	SPLP Leachate	205016	11/15/13 10:37	1.0		
051	met09_sn	SAMPLE	250787-001	Soil	205077	11/15/13 10:41	100.0		
052	met09_sn	BLANK	QC716277	TCLP Leachate	205093	11/15/13 10:45	10.0		1:NA=170000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 93459709

Instrument : MET09 Begun : 11/15/13 05:49
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
053	met09_sn	BS	QC716278	TCLP Leachate	205093	11/15/13 10:54	1.0		
054	met09_sn	BSD	QC716279	TCLP Leachate	205093	11/15/13 10:58	1.0		
055	met09_sn	MSS	250764-001	TCLP Leachate	205093	11/15/13 11:02	10.0		1:NA=170000
056	met09_sn	MS	QC716280	TCLP Leachate	205093	11/15/13 11:11	10.0		
057	met09_sn	MSD	QC716281	TCLP Leachate	205093	11/15/13 11:18	10.0		
058	met09_sn	SAMPLE	250770-001	TCLP Leachate	205093	11/15/13 11:26	10.0		1:NA=170000
059	met09_sn	CCV				11/15/13 11:35	1.0	12	
060	met09_sn	CCB				11/15/13 11:41	1.0		
061	met09_sn	?SAMPLE	250711-001		205093	11/15/13 11:46	10.0		
062	met09_sn	ICSAB				11/15/13 11:55	1.0	9	5:AL=480000
063	met09_sn	BLANK	QC714971	TCLP Leachate	204778	11/15/13 12:03	10.0		1:NA=150000
064	met09_sn	BS	QC714972	TCLP Leachate	204778	11/15/13 12:11	1.0		
065	met09_sn	BSD	QC714973	TCLP Leachate	204778	11/15/13 12:16	1.0		
066	met09_sn	MSS	250491-001	TCLP Leachate	204778	11/15/13 12:20	10.0		1:NA=140000
067	met09_sn	MS	QC714974	TCLP Leachate	204778	11/15/13 12:28	10.0		
068	met09_sn	MSD	QC714975	TCLP Leachate	204778	11/15/13 12:36	10.0		
069	met09_sn	SER	QC714976	TCLP Leachate	204778	11/15/13 12:44	50.0		
070	met09_sn	PDS	QC714977	TCLP Leachate	204778	11/15/13 12:49	10.0	10 11	
071	met09_sn	SAMPLE	250492-001	TCLP Leachate	204778	11/15/13 12:56	10.0		1:NA=150000
072	met09_sn	CCV				11/15/13 13:05	1.0	12	
073	met09_sn	CCB				11/15/13 13:12	1.0		
074	met09_sn	SAMPLE	250496-001	TCLP Leachate	204778	11/15/13 13:17	10.0		1:NA=150000
075	met09_sn	SAMPLE	250496-002	TCLP Leachate	204778	11/15/13 13:26	10.0		1:NA=140000
076	met09_sn	SAMPLE	250496-003	TCLP Leachate	204778	11/15/13 13:34	10.0		1:NA=140000
077	met09_sn	SAMPLE	250496-004	TCLP Leachate	204778	11/15/13 13:43	10.0		1:NA=160000
078	met09_sn	SAMPLE	250496-005	TCLP Leachate	204778	11/15/13 13:52	10.0		1:NA=150000
079	met09_sn	MS	QC716204	Soil	205077	11/15/13 14:00	1.0		
080	met09_sn	MSD	QC716205	Soil	205077	11/15/13 14:05	1.0		
081	met09_sn	SAMPLE	250708-001	Wipe	205094	11/15/13 14:09	100.0		
082	met09_sn	SAMPLE	250708-002	Wipe	205094	11/15/13 14:14	100.0		
083	met09_sn	SAMPLE	250708-003	Wipe	205094	11/15/13 14:19	100.0		
084	met09_sn	CCV				11/15/13 14:24	1.0	12	
085	met09_sn	CCB				11/15/13 14:31	1.0		
086	met09_sn	ICSAB				11/15/13 14:36	1.0	9	5:AL=480000
087	met09_sn	SAMPLE	248996-036	Soil	203361	11/15/13 15:02	1.0		3:CA=3400000
088	met09_sn	SAMPLE	248996-037	Soil	203361	11/15/13 15:16	1.0		3:FE=780000
089	met09_sn	SAMPLE	248996-038	Soil	203361	11/15/13 15:28	1.0		5:FE=760000
090	met09_sn	SAMPLE	248996-039	Soil	203361	11/15/13 15:40	1.0		4:FE=770000
091	met09_sn	SAMPLE	248996-040	Soil	203361	11/15/13 15:52	1.0		5:CA=920000
092	met09_sn	X	RINSE			11/15/13 16:04	1.0		
093	met09_sn	X	RINSE			11/15/13 16:18	1.0		
094	met09_sn	CCV				11/15/13 16:32	1.0	12	
095	met09_sn	CCB				11/15/13 16:44	1.0		
096	met09_sn	ICSAB				11/15/13 16:58	1.0	9	5:AL=470000
097	met09_sn	BLANK	QC715848	Filtrate	204987	11/15/13 19:00	1.0		
098	met09_sn	BS	QC715849	Filtrate	204987	11/15/13 19:05	1.0		
099	met09_sn	BSD	QC715850	Filtrate	204987	11/15/13 19:10	1.0		
100	met09_sn	MSS	250614-004	Filtrate	204987	11/15/13 19:14	1.0		3:CA=2400000
101	met09_sn	MS	QC715851	Filtrate	204987	11/15/13 19:22	1.0		
102	met09_sn	MSD	QC715852	Filtrate	204987	11/15/13 19:29	1.0		
103	met09_sn	SAMPLE	250614-006	Filtrate	204987	11/15/13 19:37	1.0		3:CA=310000
104	met09_sn	SAMPLE	250614-007	Filtrate	204987	11/15/13 19:46	1.0		3:CA=390000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 93459709

Instrument : MET09 Begun : 11/15/13 05:49
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
105	met09_sn	CCV				11/15/13 19:55	1.0	12	
106	met09_sn	CCB				11/15/13 20:01	1.0		
107	met09_sn	SAMPLE	250614-008	Filtrate	204987	11/15/13 20:07	10.0		1:CA=160000
108	met09_sn	SAMPLE	250629-001	Filtrate	204987	11/15/13 20:12	1.0		1:NA=250000
109	met09_sn	SAMPLE	250629-002	Filtrate	204987	11/15/13 20:20	1.0		
110	met09_sn	SAMPLE	250629-003	Filtrate	204987	11/15/13 20:29	1.0		1:NA=130000
111	met09_sn	SAMPLE	250629-004	Filtrate	204987	11/15/13 20:38	1.0		
112	met09_sn	MSS	248996-002	Soil	203361	11/15/13 20:43	100.0		
113	met09_sn	X	RINSE			11/15/13 20:47	1.0		
114	met09_sn	SAMPLE	250614-008	Filtrate	204987	11/15/13 20:52	1.0		4:CA=1500000
115	met09_sn	X	RINSE			11/15/13 21:01	1.0		
116	met09_sn	BLANK	QC715463	Filtrate	204896	11/15/13 21:06	1.0		
117	met09_sn	CCV				11/15/13 21:11	1.0	12	
118	met09_sn	CCB				11/15/13 21:17	1.0		
119	met09_sn	BS	QC715464	Filtrate	204896	11/15/13 21:23	1.0		
120	met09_sn	BSD	QC715465	Filtrate	204896	11/15/13 21:27	1.0		
121	met09_sn	ICSAB				11/15/13 21:31	1.0	9	5:AL=470000
122	met09_sn	MSS	250604-001	Filtrate	204896	11/15/13 21:39	1.0		2:CA=170000
123	met09_sn	MS	QC715466	Filtrate	204896	11/15/13 21:47	1.0		1:CA=180000
124	met09_sn	MSD	QC715467	Filtrate	204896	11/15/13 21:55	1.0		
125	met09_sn	SER	QC715468	Filtrate	204896	11/15/13 22:03	5.0		
126	met09_sn	PDS	QC715469	Filtrate	204896	11/15/13 22:08	1.0	13 14	2:CA=170000
127	met09_sn	SAMPLE	250604-002	Filtrate	204896	11/15/13 22:15	1.0		1:CA=240000
128	met09_sn	SAMPLE	250604-003	Filtrate	204896	11/15/13 22:21	1.0		2:CA=220000
129	met09_sn	SAMPLE	250604-004	Filtrate	204896	11/15/13 22:29	1.0		3:CA=310000
130	met09_sn	CCV				11/15/13 22:38	1.0	12	
131	met09_sn	CCB				11/15/13 22:45	1.0		
132	met09_sn	SAMPLE	250604-005	Filtrate	204896	11/15/13 22:50	1.0		1:CA=180000
133	met09_sn	SAMPLE	250604-006	Filtrate	204896	11/15/13 22:55	1.0		2:CA=330000
134	met09_sn	SAMPLE	250604-007	Filtrate	204896	11/15/13 23:04	1.0		1:CA=170000
135	met09_sn	SAMPLE	250604-008	Filtrate	204896	11/15/13 23:09	1.0		1:CA=170000
136	met09_sn	SAMPLE	250604-009	Filtrate	204896	11/15/13 23:14	1.0		2:NA=130000
137	met09_sn	SAMPLE	250604-010	Filtrate	204896	11/15/13 23:23	1.0		2:CA=160000
138	met09_sn	SAMPLE	250604-011	Filtrate	204896	11/15/13 23:31	1.0		3:CA=400000
139	met09_sn	SAMPLE	250604-012	Filtrate	204896	11/15/13 23:40	1.0		3:CA=380000
140	met09_sn	SAMPLE	250604-013	Filtrate	204896	11/15/13 23:49	1.0		1:CA=220000
141	met09_sn	SAMPLE	250604-014	Filtrate	204896	11/15/13 23:54	1.0		1:NA=110000
142	met09_sn	CCV				11/16/13 00:02	1.0	12	
143	met09_sn	CCB				11/16/13 00:09	1.0		
144	met09_sn	SAMPLE	250604-015	Filtrate	204896	11/16/13 00:14	1.0		2:CA=220000
145	met09_sn	CCV				11/16/13 00:23	1.0	12	
146	met09_sn	CCB				11/16/13 00:30	1.0		
147	met09_sn	ICSAB				11/16/13 00:35	1.0	9	5:AL=460000

NT 11/15/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 62.

CRT 11/15/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 63 through 96.

PRW 11/22/13 : Runs 97-147 were not verified.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 93459709

Instrument : MET09 Begun : 11/15/13 05:49
Method : EPA 6010B SOP Version : icp metals_rv9

Standards used: 1=S23297 2=S23299 3=S23298 4=S23300 5=S23301 6=S23304 7=S23306 8=S23302 9=S23303 10=S23461 11=S23462 12=S23305 13=S21652 14=S21653

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 93459709

Date : 11/15/13 Reference : met09_sn
Sequence : MET09 11/15/13 Analyzed : 11/15/13 05:54

#	Type	Sample ID	Y A
		ICAL STD	4071441
		LOWER LIMIT	1221432
		UPPER LIMIT	8142882
011	ICB		4069512
012	ICSA		3468560
013	ICSAB		3471123
014	BLANK	QC716201	4167572
015	BS	QC716202	4002130
016	BSD	QC716203	4000818
017	MSS	250770-001	3846244
018	MS	QC716204	3939206
019	MSD	QC716205	3887122
020	SER	QC716206	3934440
021	PDS	QC716207	3890721
022	CCV		4010928
023	CCB		4109388
024	SAMPLE	250786-001	4198325
025	SAMPLE	250787-001	4010752
026	BLANK	QC716282	4190669
027	BS	QC716283	3999944
028	BSD	QC716284	3985523
029	SAMPLE	250708-001	3790612
030	SAMPLE	250708-002	4045013
031	SAMPLE	250708-003	3957233
032	BLANK	QC716082	4136778
033	BS	QC716083	3954330
034	CCV		4031499
035	CCB		4157444
036	BSD	QC716084	3978966
037	ICSAB		3492312
038	SAMPLE	250668-001	3984782
039	SAMPLE	249125-004	4067963
040	BLANK	QC715954	4035466
041	BS	QC715955	4020017
042	BSD	QC715956	4016036
043	MSS	250641-001	4093387
044	MS	QC715957	3969651
045	MSD	QC715958	3980018
046	SAMPLE	250641-002	4066248
047	CCV		4033925
048	CCB		4147440
049	SAMPLE	250641-003	4060898
050	SAMPLE	250641-004	4080222
051	SAMPLE	250787-001	4120313
052	BLANK	QC716277	3918652
053	BS	QC716278	4015239
054	BSD	QC716279	4032379
055	MSS	250764-001	3904158
056	MS	QC716280	3888902
057	MSD	QC716281	3921838
058	SAMPLE	250770-001	3894051

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 93459709

Date : 11/15/13 Reference : met09_sn
Sequence : MET09 11/15/13 Analyzed : 11/15/13 05:54

#	Type	Sample ID	Y A
059	CCV		4018929
060	CCB		4128745
062	ICSAB		3539021
063	BLANK	QC714971	4018771
064	BS	QC714972	4050492
065	BSD	QC714973	4045823
067	MS	QC714974	3978925
068	MSD	QC714975	3968453
069	SER	QC714976	4078122
070	PDS	QC714977	3914607
072	CCV		4079191
073	CCB		4144560
079	MS	QC716204	4047150
080	MSD	QC716205	4049254
081	SAMPLE	250708-001	4185965
082	SAMPLE	250708-002	4167704
083	SAMPLE	250708-003	4157201
084	CCV		4068308
085	CCB		4153625
086	ICSAB		3552305
094	CCV		4114326
095	CCB		4186109
096	ICSAB		3535879
097	BLANK	QC715848	4371580
098	BS	QC715849	4170622
099	BSD	QC715850	4160249
100	MSS	250614-004	3090706
101	MS	QC715851	3066657
102	MSD	QC715852	3077080
103	SAMPLE	250614-006	3834135
104	SAMPLE	250614-007	3828204
105	CCV		4205800
106	CCB		4182752
107	SAMPLE	250614-008	4020350
108	SAMPLE	250629-001	4066207
109	SAMPLE	250629-002	3901337
110	SAMPLE	250629-003	4055477
111	SAMPLE	250629-004	4260501
114	SAMPLE	250614-008	3467194
116	BLANK	QC715463	4317931
117	CCV		4152429
118	CCB		4200527
119	BS	QC715464	4201262
120	BSD	QC715465	4214217
121	ICSAB		3619921
122	MSS	250604-001	3992111
123	MS	QC715466	3934664
124	MSD	QC715467	3925002
125	SER	QC715468	4197657
126	PDS	QC715469	3964671
127	SAMPLE	250604-002	3977680
128	SAMPLE	250604-003	3970784

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 93459709

Date : 11/15/13 Reference : met09_sn
Sequence : MET09 11/15/13 Analyzed : 11/15/13 05:54

#	Type	Sample ID	Y A
129	SAMPLE	250604-004	3922563
130	CCV		4193930
131	CCB		4383120
132	SAMPLE	250604-005	4054120
133	SAMPLE	250604-006	4018356
134	SAMPLE	250604-007	4066016
135	SAMPLE	250604-008	4115902
136	SAMPLE	250604-009	4060525
137	SAMPLE	250604-010	4099489
138	SAMPLE	250604-011	3837269
139	SAMPLE	250604-012	4001583
140	SAMPLE	250604-013	4030427
141	SAMPLE	250604-014	4189041
142	CCV		4298437
143	CCB		4344912
144	SAMPLE	250604-015	4028804
145	CCV		4202188
146	CCB		4369600
147	ICSAB		3711684

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 250604 METALS Filtrate: EPA 6010B

Inst : MET09 Reviewer : ---
Calnum : 93459709001 Date : 15-NOV-2013 05:49
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	met09_sn	93459709002	CRI5.1	15-NOV-2013 05:54	S23297
L2	met09_sn	93459709003	CS100	15-NOV-2013 05:59	S23299
L3	met09_sn	93459709004	CS1K	15-NOV-2013 06:03	S23298
L4	met09_sn	93459709005	CS10K	15-NOV-2013 06:08	S23300
L5	met09_sn	93459709006	CS100K	15-NOV-2013 06:14	S23301

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Chromium	A	189.32	200.47	203.55	195.79		LOR0	0.00000	0.00511		197.28	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Chromium	A	5.0000	-3	100.00	2	1000.0	4	10000	0		

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 250604 METALS Filtrate
EPA 6010B

Inst : MET09
Calnum : 93459709001 Cal Date : 15-NOV-2013

ICV 93459709008 (15-NOV-2013) stds: S23304

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Chromium	A	5000	4918	ug/L	-2	10	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250604 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93459709011.1 File : met09_sn Time : 15-NOV-2013 07:01
Cal : 93459709001 Caldate : 15-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.252	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4071441	4069512	-0.05

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR 250604 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93459709012.1 File : met09_sn Time : 15-NOV-2013 07:06
Cal : 93459709001 Caldate : 15-NOV-2013
Standards: S23302

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	18640	ug/L	93
Copper	A	20000	20070	ug/L	100
Manganese	A	20000	17530	ug/L	88
Nickel	A	20000	16970	ug/L	85
Vanadium	A	20000	19550	ug/L	98
Aluminum	R	500000	492800	ug/L	99
Calcium	R	500000	468900	ug/L	94
Iron	R	200000	186300	ug/L	93
Magnesium	R	500000	456300	ug/L	91
Titanium	R	20000	20900	ug/L	105

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4071441	3468560	-14.81

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 250604 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93459709096.1 File : met09_sn Time : 15-NOV-2013 16:58
Cal : 93459709001 Caldate : 15-NOV-2013
Standards: S23303

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	479.1	ug/L	-4	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4071441	3535879	-13.15

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 250604 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93459709105.1 File : met09_sn Time : 15-NOV-2013 19:55
Cal : 93459709001 Caldate : 15-NOV-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	197.28	185.31	5000	4730	ug/L	-5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4071441	4205800	3.30

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250604 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93459709106.1 File : met09_sn Time : 15-NOV-2013 20:01
Cal : 93459709001 Caldate : 15-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.252	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4071441	4182752	2.73

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 250604 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93459709117.1 File : met09_sn Time : 15-NOV-2013 21:11
Cal : 93459709001 Caldate : 15-NOV-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	197.28	186.59	5000	4763	ug/L	-5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4071441	4152429	1.99

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250604 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93459709118.1 File : met09_sn Time : 15-NOV-2013 21:17
Cal : 93459709001 Caldate : 15-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.252	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4071441	4200527	3.17

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 250604 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93459709121.1 File : met09_sn Time : 15-NOV-2013 21:31
Cal : 93459709001 Caldate : 15-NOV-2013
Standards: S23303

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	475.8	ug/L	-5	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4071441	3619921	-11.09

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 250604 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93459709130.1 File : met09_sn Time : 15-NOV-2013 22:38
Cal : 93459709001 Caldate : 15-NOV-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	197.28	183.53	5000	4685	ug/L	-6	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4071441	4193930	3.01

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250604 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93459709131.1 File : met09_sn Time : 15-NOV-2013 22:45
Cal : 93459709001 Caldate : 15-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.252	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4071441	4383120	7.66

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 250604 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93459709142.1 File : met09_sn Time : 16-NOV-2013 00:02
Cal : 93459709001 Caldate : 15-NOV-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	197.28	182.95	5000	4670	ug/L	-7	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4071441	4298437	5.58

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250604 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93459709143.1 File : met09_sn Time : 16-NOV-2013 00:09
Cal : 93459709001 Caldate : 15-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.252	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4071441	4344912	6.72

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 250604 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93459709145.1 File : met09_sn Time : 16-NOV-2013 00:23
Cal : 93459709001 Caldate : 15-NOV-2013
Standards: S23305

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	197.28	184.98	5000	4722	ug/L	-6	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4071441	4202188	3.21

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 250604 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93459709146.1 File : met09_sn Time : 16-NOV-2013 00:30
Cal : 93459709001 Caldate : 15-NOV-2013

Analyte	Ch	Quant	IQL	2X MDL	Units	Flags
Chromium	A	ND	5.000	1.252	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4071441	4369600	7.32

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 250604 METALS Filtrate
EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 93459709147.1 File : met09_sn Time : 16-NOV-2013 00:35
Cal : 93459709001 Caldate : 15-NOV-2013
Standards: S23303

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	467.9	ug/L	-6	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	4071441	3711684	-8.84

SAMPLE PREPARATION SUMMARY

Batch # : 204896 Analysis : ICAP
Started By : NCD Prep Date : 08-NOV-2013 15:10 Finished By : NCD
Method : 3010A SOP Version : 3010A_icp_rv15 Units : mL
Spike #1 ID : S21653 Spike #2 ID : S21652

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
250604-001		Filtrate	50	50	1	1.0						CR	
250604-002		Filtrate	50	50	1	1.0						CR	
250604-003		Filtrate	50	50	1	1.0						CR	
250604-004		Filtrate	50	50	1	1.0						CR	
250604-005		Filtrate	50	50	1	1.0						CR	
250604-006		Filtrate	50	50	1	1.0						CR	
250604-007		Filtrate	50	50	1	1.0						CR	
250604-008		Filtrate	50	50	1	1.0						CR	
250604-009		Filtrate	50	50	1	1.0						CR	
250604-010		Filtrate	50	50	1	1.0						CR	
250604-011		Filtrate	50	50	1	1.0						CR	
250604-012		Filtrate	50	50	1	1.0						CR	
250604-013		Filtrate	50	50	1	1.0						CR	
250604-014		Filtrate	50	50	1	1.0						CR	
250604-015		Filtrate	50	50	1	1.0						CR	
QC715463	BLANK	Filtrate	50	50	1	1.0							
QC715464	BS	Filtrate	50	50	1	1.0		.5	.5				
QC715465	BSD	Filtrate	50	50	1	1.0		.5	.5				
QC715466	MS	Filtrate	50	50	1	1.0		.5	.5				
QC715467	MSD	Filtrate	50	50	1	1.0		.5	.5				
QC715468	SER	Filtrate	50	50	1	1.0							
QC715469	PDS	Filtrate	50	50	1	1.0							

Analyst: JDB Date: 11/22/13 Reviewer: PRW Date: 11/22/13

Water Digestion for ICP

Curtis & Tompkins, Ltd.

LIMS Batch #: 204896
Digested by: NCO
Date Digested: 11/08/2013

Digestion Method
☒ EPA 3010a for ICP
☐ EPA 200.7
☒ filtrate prep

BK3498
Page 36

Lvl.	Sample #	Container ID		Volume Sample(mL)	Final Volume (mL)	Filtered? (y/n)	ID Π	Comments
	BLK	715465		☑ 50 ☐	☑ 50 ☐	no	—	BLK filter 250604.
	BS	64		☑ 50 ☐	☑ 50 ☐		—	
	BSD	65		☑ 50 ☐	☑ 50 ☐		—	
III	250604-001		E	☑ 50 ☐	☑ 50 ☐		—	MS
5	-001			☑ 50 ☐	☑ 50 ☐		—	MSD
	-001			☑ 50 ☐	☑ 50 ☐		—	
	-002			☑ 50 ☐	☑ 50 ☐		—	
	-003			☑ 50 ☐	☑ 50 ☐		—	
	-004			☑ 50 ☐	☑ 50 ☐		—	
10	-005			☑ 50 ☐	☑ 50 ☐		—	
	-006			☑ 50 ☐	☑ 50 ☐		—	
	-007			☑ 50 ☐	☑ 50 ☐		—	
	-008			☑ 50 ☐	☑ 50 ☐		—	
	-009			☑ 50 ☐	☑ 50 ☐		—	
15	-010			☑ 50 ☐	☑ 50 ☐		—	
	-011			☑ 50 ☐	☑ 50 ☐		—	
	-012			☑ 50 ☐	☑ 50 ☐		—	
	-013			☑ 50 ☐	☑ 50 ☐		—	
	-014			☑ 50 ☐	☑ 50 ☐		—	
20	-015			☑ 50 ☐	☑ 50 ☐		—	
				☐ 50 ☐	☐ 50 ☐			
				☐ 50 ☐	☐ 50 ☐			
				☐ 50 ☐	☐ 50 ☐			
				☐ 50 ☐	☐ 50 ☐			
				☐ 50 ☐	☐ 50 ☐			

	Reagent ID or LIMS #	Initials / Date
Digestion tubes, lot #	Accuflow	WM 11/08/2013
0.5 mL of spike solution (Std1) was added to all spikes	S21653	
0.5 mL of spike solution (Std2) was added to all spikes	S21652	
Digestion Temperature (°C), Block and Probe Location	— —	
Digestion begun at (time)	15:10	
☐ Conc. HNO3 or ☑ 1:1 HNO3	71587	
1:1 HCl	40272-103113	
digestion ended at (time)	—	
☐ filtered thru' Whatman # 541	—	
Relinquished to ICP group	IAP	

Prep Chemist / Date 11/08/2013

Continued from page _____.
Continued on page _____.

Reviewed Online / See LIMS

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 251273
ANALYTICAL REPORT

Haley & Aldrich	Project : 39049-103
400 East Van Buren Street	Location : PGA South
Phoenix, CA 85004	Level : III

Sample ID	Lab ID
AST-INF	251273-001
AST-EFF	251273-002
GAC-02 INF	251273-003
GAC-02 EFF	251273-004
E-07R	251273-005
COG-20	251273-006
COG-11	251273-007
E-12	251273-008
E-17	251273-009
E-117	251273-010
TRIP BLANK	251273-011

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Isabelle Choy Date: 12/19/2013

Isabelle Choy
Project Manager
isabelle.choy@ctberk.com

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**251273**
Client:	**Haley & Aldrich**
Project:	**39049-103**
Location:	**PGA South**
Request Date:	**12/03/13**
Samples Received:	**12/03/13**

This data package contains sample and QC results for eleven water samples, requested for the above referenced project on 12/03/13. See attached cooler receipt form for any sample receipt problems or discrepancies.

Volatile Organics by GC/MS (EPA 8260B):

High response was observed for Freon 12 in the ICV analyzed 11/17/13 01:52; this analyte was not detected at or above the RL in the associated samples.

High response was observed for vinyl acetate in the ICV analyzed 11/15/13 14:00; this analyte was not detected at or above the RL in the associated samples.

High responses were observed for carbon disulfide and vinyl acetate in the CCV analyzed 12/04/13 09:09; these analytes were not detected at or above the RL in the associated samples.

High responses were observed for chloromethane and vinyl acetate in the CCV analyzed 12/03/13 15:41; these analytes were not detected at or above the RL in the associated samples.

High surrogate recoveries were observed for dibromofluoromethane in AST-EFF (lab # 251273-002) and the method blank for batch 205691; no target analytes were detected in these samples.

Freon 12, tetrachloroethene, and trichloroethene were detected between the MDL and the RL in the method blank for batch 205734.

No other analytical problems were encountered.

Metals (EPA 6010B) Water:

No analytical problems were encountered.

Metals (EPA 6010B) Filtrate:

No analytical problems were encountered.

Chain of Custody

CHAIN OF CUSTODY

Page 1 of 1

Chain of Custody # _____

Curtis & Tompkins Laboratories
ENVIRONMENTAL ANALYTICAL TESTING LABORATORY
In Business Since 1878

C&T LOGIN # 251273

2323 Fifth Street
Berkeley, CA 94710

Phone (510) 486-0900
Fax (510) 486-0532

Project No: 39049-103
Project Name: P6AS
Project P. O. No: 39049-103
EDD Format: Report Level ☐ II ☐ III ☐ IV
Turnaround Time: ☐ RUSH _____ ☒ Standard

Sampler: Mark Argall
Report To: Paula Chang
Company: H & A
Telephone: 602-760-2418
Email: pchang@haleyaldrich.com

Lab No.	Sample ID.	SAMPLING Date Collected	SAMPLING Time Collected	MATRIX Water	MATRIX Solid	# of Containers	CHEMICAL PRESERVATIVE HCl	H2SO4	HNO3	NaOH	None	8260B Full list	8260B Halogenated only	6010B Total Chrome	6010B Lab filtered & preserved dissolved chrome
1	AST-Inf	12-2-13	0630	X		5	X		X			X		X	X
2	AST-Eff		0645	X		5	X		X			X		X	X
3	GAC-02 Inf		0700	X		5	X		X				X	X	X
4	GAC-02 Eff		0715	X		5	X		X				X	X	X
5	E-07R		0810	X		5	X		X				X	X	X
6	C06-20		1100	X		3	X						X		
7	C06-11		1115	X		3	X						X		
8	E-12		0755	X		5	X		X				X	X	X
9	E-17		0735	X		5	X		X				X	X	X
10	E-117		0735	X		5	X		X				X	X	X
11	Trip Blank			X		3	X					X			
	Temp Blank			X		1									

Notes: Lab filter & preserve 6010B dissolved chrome upon Receipt

SAMPLE RECEIPT
☐ Intact
☐ Cold
☐ On Ice
☐ Ambient

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
[signature]	12-2-13		Jina Rankin	12/3/13	1000

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 251273 Date Received 12/3/13 Number of coolers 1
Client HALEY & ALDRICH Project PGAS (39049-103)

Date Opened 12/3/13 By (print) JR (sign) Tina Raikar
Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc) FEDEX (YES) NO
   Shipping info 8034 7753 1771

2A. Were custody seals present? .... ☒ YES (circle) (on cooler) on samples ☐ NO
   How many _____ Name Signature Date 12/2/13
2B. Were custody seals intact upon arrival? _____ (YES) NO N/A
3. Were custody papers dry and intact when received? _____ (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? _____ (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) (YES) NO
6. Indicate the packing in cooler: (if other, describe) _____

☐ Bubble Wrap ☐ Foam blocks ☒ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) 1.4

☐ Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES (NO)
   If YES, what time were they transferred to freezer? _____
9. Did all bottles arrive unbroken/unopened? _____ (YES) NO
10. Are there any missing / extra samples? _____ YES (NO)
11. Are samples in the appropriate containers for indicated tests? _____ (YES) NO
12. Are sample labels present, in good condition and complete? _____ (YES) NO
13. Do the sample labels agree with custody papers? _____ (YES) NO
14. Was sufficient amount of sample sent for tests requested? _____ (YES) NO
15. Are the samples appropriately preserved? _____ (YES) NO N/A
16. Did you check preservatives for all bottles for each sample? _____ (YES) NO N/A
17. Did you document your preservative check? _____ (YES) NO N/A
18. Did you change the hold time in LIMS for unpreserved VOAs? _____ YES NO (N/A)
19. Did you change the hold time in LIMS for preserved terracores? _____ YES NO (N/A)
20. Are bubbles > 6mm absent in VOA samples? _____ (YES) NO N/A
21. Was the client contacted concerning this sample delivery? _____ YES (NO)
   If YES, Who was called? _____ By _____ Date: _____

COMMENTS

_____

Rev 10, 11/11

Curtis & Tompkins Sample Preservation for 251273

Sample	pH: <2	>9	>12	Other
-001a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____
-002a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____
-003a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____
-004a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____

Sample	pH: <2	>9	>12	Other
-005a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____
-008a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____
-009a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____
-010a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[X]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____

Analyst: JR
Date: 12/3/13

Laboratory Job Number 251273

ANALYTICAL REPORT

Volatile Organics by GC/MS

Matrix: Water

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	AST-INF	Batch#:	205734
Lab ID:	251273-001	Sampled:	12/02/13
Matrix:	Water	Received:	12/03/13
Units:	ug/L	Analyzed:	12/04/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.1
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	0.5
Freon 113	6.8	2.0	0.1
1,1-Dichloroethene	1.8	0.5	0.1
Methylene Chloride	ND	10	0.4
Carbon Disulfide	ND	0.5	0.1
MTBE	0.3 J	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
Vinyl Acetate	ND	10	1.0
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.5
cis-1,2-Dichloroethene	0.2 J	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	0.6	0.5	0.1
Bromochloromethane	ND	0.5	0.2
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	0.2 J	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	34	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.5
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.5
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	2.0	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	AST-INF	Batch#:	205734
Lab ID:	251273-001	Sampled:	12/02/13
Matrix:	Water	Received:	12/03/13
Units:	ug/L	Analyzed:	12/04/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.1
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.5
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.4
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-123
1,2-Dichloroethane-d4	107	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	100	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	AST-EFF	Batch#:	205691
Lab ID:	251273-002	Sampled:	12/02/13
Matrix:	Water	Received:	12/03/13
Units:	ug/L	Analyzed:	12/03/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.1
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.1
Acetone	ND	10	1.4
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.1
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
Vinyl Acetate	ND	10	0.9
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.6
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.4
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.4
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

*= Value outside of QC limits; see narrative
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	AST-EFF	Batch#:	205691
Lab ID:	251273-002	Sampled:	12/02/13
Matrix:	Water	Received:	12/03/13
Units:	ug/L	Analyzed:	12/03/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.1
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.3
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.1
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	139 *	80-123
1,2-Dichloroethane-d4	119	76-138
Toluene-d8	101	80-120
Bromofluorobenzene	94	80-125

*= Value outside of QC limits; see narrative
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GAC-02 INF	Diln Fac:	1.000
Lab ID:	251273-003	Sampled:	12/02/13
Matrix:	Water	Received:	12/03/13
Units:	ug/L		

Analyte	Result	RL	MDL	Batch#	Analyzed
Chloromethane	ND	1.0	0.1	205734	12/04/13
Vinyl Chloride	ND	0.5	0.1	205734	12/04/13
Bromomethane	ND	1.0	0.2	205734	12/04/13
Chloroethane	ND	1.0	0.3	205734	12/04/13
Trichlorofluoromethane	ND	1.0	0.2	205734	12/04/13
Freon 113	0.4 J	2.0	0.1	205734	12/04/13
1,1-Dichloroethene	ND	0.5	0.1	205734	12/04/13
Methylene Chloride	ND	20	0.4	205734	12/04/13
trans-1,2-Dichloroethene	ND	0.5	0.2	205734	12/04/13
1,1-Dichloroethane	ND	0.5	0.1	205734	12/04/13
cis-1,2-Dichloroethene	ND	0.5	0.1	205734	12/04/13
Chloroform	0.2 J	1.0	0.1	205734	12/04/13
1,1,1-Trichloroethane	ND	0.5	0.1	205734	12/04/13
Carbon Tetrachloride	0.1 J	0.5	0.1	205734	12/04/13
1,2-Dichloroethane	ND	0.5	0.1	205734	12/04/13
Trichloroethene	3.7	0.5	0.1	205734	12/04/13
1,2-Dichloropropane	ND	0.5	0.1	205734	12/04/13
Bromodichloromethane	ND	0.5	0.1	205734	12/04/13
cis-1,3-Dichloropropene	ND	0.5	0.1	205734	12/04/13
trans-1,3-Dichloropropene	ND	0.5	0.1	205734	12/04/13
1,1,2-Trichloroethane	ND	0.5	0.1	205734	12/04/13
Tetrachloroethene	ND	0.5	0.1	205691	12/03/13
Dibromochloromethane	ND	0.5	0.1	205734	12/04/13
Chlorobenzene	ND	0.5	0.1	205734	12/04/13
Bromoform	ND	0.5	0.1	205734	12/04/13
1,1,2,2-Tetrachloroethane	ND	0.5	0.1	205734	12/04/13
1,3-Dichlorobenzene	ND	0.5	0.1	205734	12/04/13
1,4-Dichlorobenzene	ND	0.5	0.1	205734	12/04/13
1,2-Dichlorobenzene	ND	0.5	0.1	205734	12/04/13

Surrogate	%REC	Limits	Batch#	Analyzed
1,2-Dichloroethane-d4	107	76-138	205734	12/04/13
Toluene-d8	98	80-120	205734	12/04/13
Bromofluorobenzene	103	80-125	205734	12/04/13

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	GAC-02 EFF	Batch#:	205784
Lab ID:	251273-004	Sampled:	12/02/13
Matrix:	Water	Received:	12/03/13
Units:	ug/L	Analyzed:	12/05/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	88	76-138
Toluene-d8	95	80-120
Bromofluorobenzene	94	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	E-07R	Batch#:	205734
Lab ID:	251273-005	Sampled:	12/02/13
Matrix:	Water	Received:	12/03/13
Units:	ug/L	Analyzed:	12/04/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	0.2 J	1.0	0.2
Freon 113	14	2.0	0.1
1,1-Dichloroethene	4.8	0.5	0.1
Methylene Chloride	ND	20	0.4
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	0.2 J	0.5	0.1
cis-1,2-Dichloroethene	0.4 J	0.5	0.1
Chloroform	0.5 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	64	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	1.5	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	109	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	103	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	COG-20	Batch#:	205784
Lab ID:	251273-006	Sampled:	12/02/13
Matrix:	Water	Received:	12/03/13
Units:	ug/L	Analyzed:	12/05/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.7 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	2.4	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	0.1 J	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	88	76-138
Toluene-d8	96	80-120
Bromofluorobenzene	94	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	COG-11	Batch#:	205734
Lab ID:	251273-007	Sampled:	12/02/13
Matrix:	Water	Received:	12/03/13
Units:	ug/L	Analyzed:	12/04/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	0.2 J	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	20	0.4
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	1.0	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	110	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	103	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	E-12	Batch#:	205895
Lab ID:	251273-008	Sampled:	12/02/13
Matrix:	Water	Received:	12/03/13
Units:	ug/L	Analyzed:	12/09/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	8.9	2.0	0.2
1,1-Dichloroethene	0.8	0.5	0.1
Methylene Chloride	ND	20	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	1.2	0.5	0.1
Chloroform	0.9 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	0.2 J	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	99	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	1.7	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	110	76-138
Toluene-d8	103	80-120
Bromofluorobenzene	105	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	E-17	Batch#:	205734
Lab ID:	251273-009	Sampled:	12/02/13
Matrix:	Water	Received:	12/03/13
Units:	ug/L	Analyzed:	12/04/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	7.6	2.0	0.1
1,1-Dichloroethene	1.9	0.5	0.1
Methylene Chloride	ND	20	0.4
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	0.1 J	0.5	0.1
Chloroform	1.0	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	0.4 J	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	31	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	3.3	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	110	76-138
Toluene-d8	98	80-120
Bromofluorobenzene	103	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	E-117	Batch#:	205734
Lab ID:	251273-010	Sampled:	12/02/13
Matrix:	Water	Received:	12/03/13
Units:	ug/L	Analyzed:	12/04/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	7.9	2.0	0.1
1,1-Dichloroethene	1.8	0.5	0.1
Methylene Chloride	ND	20	0.4
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	0.9 J	1.0	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	0.4 J	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	30	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	3.5	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	111	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	103	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	TRIP BLANK	Batch#:	205784
Lab ID:	251273-011	Sampled:	12/02/13
Matrix:	Water	Received:	12/03/13
Units:	ug/L	Analyzed:	12/05/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.1
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Acetone	ND	10	0.5
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.1
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
Vinyl Acetate	ND	10	0.2
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.2
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.2
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.2
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.2
Bromoform	ND	1.0	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1
2-Chlorotoluene	ND	0.5	0.1

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	TRIP BLANK	Batch#:	205784
Lab ID:	251273-011	Sampled:	12/02/13
Matrix:	Water	Received:	12/03/13
Units:	ug/L	Analyzed:	12/05/13
Diln Fac:	1.000		

Analyte	Result	RL	MDL
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.2
Naphthalene	ND	2.0	0.2
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-123
1,2-Dichloroethane-d4	87	76-138
Toluene-d8	96	80-120
Bromofluorobenzene	93	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	205691
Units:	ug/L	Analyzed:	12/03/13
Diln Fac:	1.000		

Type: BS Lab ID: QC718594

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	9.983	80	77-132
Trichloroethene	12.50	12.09	97	80-120
Chlorobenzene	12.50	13.70	110	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	112	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	95	80-125

Type: BSD Lab ID: QC718595

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	9.563	77	77-132	4	20
Trichloroethene	12.50	11.33	91	80-120	7	20
Chlorobenzene	12.50	13.07	105	80-120	5	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	115	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	96	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	205691
Units:	ug/L	Analyzed:	12/03/13
Diln Fac:	1.000		

Type: BS Lab ID: QC718594

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	9.983	80	77-132
Benzene	12.50	13.55	108	80-122
Trichloroethene	12.50	12.09	97	80-120
Toluene	12.50	12.65	101	80-121
Chlorobenzene	12.50	13.70	110	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	116	80-123
1,2-Dichloroethane-d4	112	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	95	80-125

Type: BSD Lab ID: QC718595

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	9.563	77	77-132	4	20
Benzene	12.50	13.02	104	80-122	4	20
Trichloroethene	12.50	11.33	91	80-120	7	20
Toluene	12.50	12.00	96	80-121	5	20
Chlorobenzene	12.50	13.07	105	80-120	5	20

Surrogate	%REC	Limits
Dibromofluoromethane	120	80-123
1,2-Dichloroethane-d4	115	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	96	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC718596	Batch#:	205691
Matrix:	Water	Analyzed:	12/03/13
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	114	76-138
Toluene-d8	101	80-120
Bromofluorobenzene	98	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC718596	Batch#:	205691
Matrix:	Water	Analyzed:	12/03/13
Units:	ug/L		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.1
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.1
Acetone	ND	10	1.4
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.1
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
Vinyl Acetate	ND	10	0.9
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.6
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.4
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.4
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

*= Value outside of QC limits; see narrative
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC718596	Batch#:	205691
Matrix:	Water	Analyzed:	12/03/13
Units:	ug/L		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.1
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.3
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.1
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	132 *	80-123
1,2-Dichloroethane-d4	114	76-138
Toluene-d8	101	80-120
Bromofluorobenzene	98	80-125

*= Value outside of QC limits; see narrative
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	205734
Units:	ug/L	Analyzed:	12/04/13
Diln Fac:	1.000		

Type: BS Lab ID: QC718766

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	14.52	116	77-132
Trichloroethene	12.50	14.24	114	80-120
Chlorobenzene	12.50	14.03	112	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	106	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	98	80-125

Type: BSD Lab ID: QC718767

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	13.99	112	77-132	4	20
Trichloroethene	12.50	13.53	108	80-120	5	20
Chlorobenzene	12.50	13.97	112	80-120	0	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	106	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	99	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	205734
Units:	ug/L	Analyzed:	12/04/13
Diln Fac:	1.000		

Type: BS Lab ID: QC718766

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	14.52	116	77-132
Benzene	12.50	13.71	110	80-122
Trichloroethene	12.50	14.24	114	80-120
Toluene	12.50	13.72	110	80-121
Chlorobenzene	12.50	14.03	112	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-123
1,2-Dichloroethane-d4	106	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	98	80-125

Type: BSD Lab ID: QC718767

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	13.99	112	77-132	4	20
Benzene	12.50	13.30	106	80-122	3	20
Trichloroethene	12.50	13.53	108	80-120	5	20
Toluene	12.50	13.56	108	80-121	1	20
Chlorobenzene	12.50	13.97	112	80-120	0	20

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-123
1,2-Dichloroethane-d4	106	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	99	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC718768	Batch#:	205734
Matrix:	Water	Analyzed:	12/04/13
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.4
trans-1,2-Dichloroethene	ND	0.5	0.2
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	0.1 J	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	0.1 J	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	108	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	102	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC718768	Batch#:	205734
Matrix:	Water	Analyzed:	12/04/13
Units:	ug/L		

Analyte	Result	RL	MDL
Freon 12	0.1 J	1.0	0.1
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	0.5
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.4
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
Vinyl Acetate	ND	10	1.0
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.5
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.2
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	0.1 J	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.5
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.5
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	0.1 J	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC718768	Batch#:	205734
Matrix:	Water	Analyzed:	12/04/13
Units:	ug/L		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.1
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.5
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.4
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-123
1,2-Dichloroethane-d4	108	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	102	80-125

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	205734
MSS Lab ID:	251252-002	Sampled:	12/02/13
Matrix:	Water	Received:	12/02/13
Units:	ug/L	Analyzed:	12/04/13
Diln Fac:	2.000		

Type: MS Lab ID: QC718837

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.2295	50.00	49.95	100	80-135
Trichloroethene	0.6564	50.00	53.19	105	75-128
Chlorobenzene	<0.2000	50.00	52.29	105	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	111	76-138
Toluene-d8	98	80-120
Bromofluorobenzene	96	80-125

Type: MSD Lab ID: QC718838

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	49.03	98	80-135	2	20
Trichloroethene	50.00	50.80	100	75-128	5	20
Chlorobenzene	50.00	51.29	103	80-120	2	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	110	76-138
Toluene-d8	98	80-120
Bromofluorobenzene	95	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	205734
MSS Lab ID:	251252-002	Sampled:	12/02/13
Matrix:	Water	Received:	12/02/13
Units:	ug/L	Analyzed:	12/04/13
Diln Fac:	2.000		

Type: MS Lab ID: QC718837

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.2295	50.00	49.95	100	80-135
Benzene	<0.2000	50.00	52.61	105	80-120
Trichloroethene	0.6564	50.00	53.19	105	75-128
Toluene	<0.2000	50.00	50.50	101	80-120
Chlorobenzene	<0.2000	50.00	52.29	105	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-123
1,2-Dichloroethane-d4	111	76-138
Toluene-d8	98	80-120
Bromofluorobenzene	96	80-125

Type: MSD Lab ID: QC718838

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	49.03	98	80-135	2	20
Benzene	50.00	50.77	102	80-120	4	20
Trichloroethene	50.00	50.80	100	75-128	5	20
Toluene	50.00	48.74	97	80-120	4	20
Chlorobenzene	50.00	51.29	103	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-123
1,2-Dichloroethane-d4	110	76-138
Toluene-d8	98	80-120
Bromofluorobenzene	95	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	205784
Units:	ug/L	Analyzed:	12/05/13
Diln Fac:	1.000		

Type: BS Lab ID: QC718982

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	26.19	105	77-132
Trichloroethene	25.00	25.72	103	80-120
Chlorobenzene	25.00	26.76	107	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	86	76-138
Toluene-d8	96	80-120
Bromofluorobenzene	94	80-125

Type: BSD Lab ID: QC718983

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	24.84	99	77-132	5	20
Trichloroethene	25.00	24.84	99	80-120	3	20
Chlorobenzene	25.00	25.83	103	80-120	4	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	85	76-138
Toluene-d8	98	80-120
Bromofluorobenzene	93	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	205784
Units:	ug/L	Analyzed:	12/05/13
Diln Fac:	1.000		

Type: BS Lab ID: QC718982

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	26.19	105	77-132
Benzene	25.00	25.14	101	80-122
Trichloroethene	25.00	25.72	103	80-120
Toluene	25.00	25.33	101	80-121
Chlorobenzene	25.00	26.76	107	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-123
1,2-Dichloroethane-d4	86	76-138
Toluene-d8	96	80-120
Bromofluorobenzene	94	80-125

Type: BSD Lab ID: QC718983

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	24.84	99	77-132	5	20
Benzene	25.00	23.89	96	80-122	5	20
Trichloroethene	25.00	24.84	99	80-120	3	20
Toluene	25.00	24.51	98	80-121	3	20
Chlorobenzene	25.00	25.83	103	80-120	4	20

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-123
1,2-Dichloroethane-d4	85	76-138
Toluene-d8	98	80-120
Bromofluorobenzene	93	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC718984	Batch#:	205784
Matrix:	Water	Analyzed:	12/05/13
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	86	76-138
Toluene-d8	96	80-120
Bromofluorobenzene	95	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC718984	Batch#:	205784
Matrix:	Water	Analyzed:	12/05/13
Units:	ug/L		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.1
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Acetone	ND	10	0.5
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.1
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
Vinyl Acetate	ND	10	0.2
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.2
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.2
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.2
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.2
Bromoform	ND	0.5	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1
2-Chlorotoluene	ND	0.5	0.1

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC718984	Batch#:	205784
Matrix:	Water	Analyzed:	12/05/13
Units:	ug/L		

Analyte	Result	RL	MDL
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.2
Naphthalene	ND	2.0	0.2
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-123
1,2-Dichloroethane-d4	86	76-138
Toluene-d8	96	80-120
Bromofluorobenzene	95	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	205784
MSS Lab ID:	251323-006	Sampled:	12/04/13
Matrix:	Water	Received:	12/04/13
Units:	ug/L	Analyzed:	12/05/13
Diln Fac:	1.000		

Type: MS Lab ID: QC719020

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.1268	25.00	24.99	100	80-135
Trichloroethene	<0.1000	25.00	24.58	98	75-128
Chlorobenzene	<0.1000	25.00	25.75	103	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	92	76-138
Toluene-d8	95	80-120
Bromofluorobenzene	92	80-125

Type: MSD Lab ID: QC719021

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	26.17	105	80-135	5	20
Trichloroethene	25.00	25.18	101	75-128	2	20
Chlorobenzene	25.00	26.13	105	80-120	1	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	94	76-138
Toluene-d8	95	80-120
Bromofluorobenzene	92	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	205784
MSS Lab ID:	251323-006	Sampled:	12/04/13
Matrix:	Water	Received:	12/04/13
Units:	ug/L	Analyzed:	12/05/13
Diln Fac:	1.000		

Type: MS Lab ID: QC719020

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.1268	25.00	24.99	100	80-135
Benzene	<0.1000	25.00	24.44	98	80-120
Trichloroethene	<0.1000	25.00	24.58	98	75-128
Toluene	<0.1000	25.00	24.28	97	80-120
Chlorobenzene	<0.1000	25.00	25.75	103	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-123
1,2-Dichloroethane-d4	92	76-138
Toluene-d8	95	80-120
Bromofluorobenzene	92	80-125

Type: MSD Lab ID: QC719021

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	26.17	105	80-135	5	20
Benzene	25.00	25.12	100	80-120	3	20
Trichloroethene	25.00	25.18	101	75-128	2	20
Toluene	25.00	24.73	99	80-120	2	20
Chlorobenzene	25.00	26.13	105	80-120	1	20

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-123
1,2-Dichloroethane-d4	94	76-138
Toluene-d8	95	80-120
Bromofluorobenzene	92	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC719430	Batch#:	205895
Matrix:	Water	Analyzed:	12/09/13
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.2
Trichlorofluoromethane	ND	1.0	0.2
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
cis-1,2-Dichloroethene	ND	0.5	0.1
Chloroform	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.2
Bromodichloromethane	ND	0.5	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	107	76-138
Toluene-d8	105	80-120
Bromofluorobenzene	106	80-125

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 5030B
Project#:	39049-103	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	205895
Units:	ug/L	Analyzed:	12/09/13
Diln Fac:	1.000		

Type: BS Lab ID: QC719431

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	20.00	18.62	93	77-132
Trichloroethene	20.00	20.80	104	80-120
Chlorobenzene	20.00	21.27	106	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	105	76-138
Toluene-d8	102	80-120
Bromofluorobenzene	101	80-125

Type: BSD Lab ID: QC719432

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	20.00	19.19	96	77-132	3	20
Trichloroethene	20.00	21.39	107	80-120	3	20
Chlorobenzene	20.00	21.96	110	80-120	3	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	109	76-138
Toluene-d8	102	80-120
Bromofluorobenzene	102	80-125

RPD= Relative Percent Difference

Initial & Continuing Calibration Data

CURTIS & TOMPKINS BFB TUNE FOR 251273 MSVOA Water
EPA 8260B

Inst : MSVOA02 Run Name : BFB IDF : 1.0
Seqnum : 413458513001 File : bke01 Time : 14-NOV-2013 09:53

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	58285	18.04	
75	30% - 60% of mass 95	138090	42.73	
95		323136	100.00	
96	5% - 9% of mass 95	20970	6.49	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	249237	77.13	
175	5% - 9% of mass 174	18946	7.60	
176	> 95% and < 101% of mass 174	245034	98.31	
177	5% - 9% of mass 176	16480	6.73	

Analyst: BO Date: 11/15/13 Reviewer: LW Date: 11/15/13

CURTIS & TOMPKINS BFB TUNE FOR 251273 MSVOA Water
EPA 8260B

Inst : MSVOA02 Run Name : BFB IDF : 1.0
Seqnum : 413459992005 File : bkf05 Time : 15-NOV-2013 11:49

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	40736	16.18	
75	30% - 60% of mass 95	103544	41.14	
95		251712	100.00	
96	5% - 9% of mass 95	17056	6.78	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	221781	88.11	
175	5% - 9% of mass 174	17133	7.73	
176	> 95% and < 101% of mass 174	215765	97.29	
177	5% - 9% of mass 176	14756	6.84	

Analyst: BO Date: 11/15/13 Reviewer: LW Date: 11/18/13

CURTIS & TOMPKINS BFB TUNE FOR 251273 MSVOA Water
EPA 8260B

Inst : MSVOA02 Run Name : BFB IDF : 1.0
Seqnum : 413487124003 File : bl403 Time : 04-DEC-2013 07:51

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	24408	18.25	
75	30% - 60% of mass 95	57736	43.17	
95		133744	100.00	
96	5% - 9% of mass 95	8697	6.50	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	109157	81.62	
175	5% - 9% of mass 174	7978	7.31	
176	> 95% and < 101% of mass 174	106202	97.29	
177	5% - 9% of mass 176	7003	6.59	

Analyst: MCT Date: 12/04/13 Reviewer: LW Date: 12/05/13

CURTIS & TOMPKINS BFB TUNE FOR 251273 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : BFB IDF : 1.0
Seqnum : 483488653003 File : il503 Time : 05-DEC-2013 09:30

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	24424	22.05	
75	30% - 60% of mass 95	50936	45.99	
95		110752	100.00	
96	5% - 9% of mass 95	7699	6.95	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	83202	75.12	
175	5% - 9% of mass 174	5893	7.08	
176	> 95% and < 101% of mass 174	82621	99.30	
177	5% - 9% of mass 176	5407	6.54	

Analyst: BO Date: 12/06/13 Reviewer: LW Date: 12/06/13

CURTIS & TOMPKINS BFB TUNE FOR 251273 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : BFB IDF : 1.0
Seqnum : 483494623002 File : il902 Time : 09-DEC-2013 12:10

Standards: S23610

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	55218	23.82	
75	30% - 60% of mass 95	113896	49.14	
95		231786	100.00	
96	5% - 9% of mass 95	15242	6.58	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	162704	70.20	
175	5% - 9% of mass 174	12303	7.56	
176	> 95% and < 101% of mass 174	156840	96.40	
177	5% - 9% of mass 176	10372	6.61	

Analyst: TEW Date: 12/10/13 Reviewer: LW Date: 12/10/13

CURTIS & TOMPKINS BFB TUNE FOR 251273 MSVOA Water
EPA 8260B

Inst : MSVOA11 Run Name : BFB IDF : 1.0
Seqnum : 833457042006 File : kkd06 Time : 13-NOV-2013 12:15

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	3457	17.42	
75	30% - 60% of mass 95	9802	49.38	
95		19850	100.00	
96	5% - 9% of mass 95	1462	7.37	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	15899	80.10	
175	5% - 9% of mass 174	1370	8.62	
176	> 95% and < 101% of mass 174	15174	95.44	
177	5% - 9% of mass 176	883	5.82	

Analyst: DJA Date: 11/14/13 Reviewer: LW Date: 11/15/13

CURTIS & TOMPKINS BFB TUNE FOR 251273 MSVOA Water
EPA 8260B

Inst : MSVOA11 Run Name : BFB IDF : 1.0
Seqnum : 833488651005 File : kl505 Time : 05-DEC-2013 09:50

Standards: S22624

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	3087	15.86	
75	30% - 60% of mass 95	9195	47.26	
95		19458	100.00	
96	5% - 9% of mass 95	1508	7.75	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	17491	89.89	
175	5% - 9% of mass 174	1289	7.37	
176	> 95% and < 101% of mass 174	16632	95.09	
177	5% - 9% of mass 176	1258	7.56	

Analyst: DJA Date: 12/05/13 Reviewer: LW Date: 12/06/13

CURTIS & TOMPKINS BFB TUNE FOR 251273 MSVOA Water
EPA 8260B

Inst : MSVOA14 Run Name : BFB IDF : 1.0
Seqnum : 953461780007 File : nkg07 Time : 16-NOV-2013 19:22

Standards: S23610

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	12939	21.73	
75	30% - 60% of mass 95	31091	52.22	
95		59536	100.00	
96	5% - 9% of mass 95	4095	6.88	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	48256	81.05	
175	5% - 9% of mass 174	3455	7.16	
176	> 95% and < 101% of mass 174	47861	99.18	
177	5% - 9% of mass 176	3385	7.07	

Analyst: MCT Date: 11/18/13 Reviewer: LW Date: 11/18/13

CURTIS & TOMPKINS BFB TUNE FOR 251273 MSVOA Water
EPA 8260B

Inst : MSVOA14 Run Name : BFB IDF : 1.0
Seqnum : 953485638017 File : nl317 Time : 03-DEC-2013 15:18

Standards: S23610

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	7095	23.75	
75	30% - 60% of mass 95	15999	53.55	
95		29877	100.00	
96	5% - 9% of mass 95	2220	7.43	
173	< 2% of mass 174	473	1.96	
174	> 50% and < 100% of mass 95	24136	80.78	
175	5% - 9% of mass 174	2156	8.93	
176	> 95% and < 101% of mass 174	23496	97.35	
177	5% - 9% of mass 176	1679	7.15	

Analyst: MCT Date: 12/04/13 Reviewer: LW Date: 12/04/13

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 251273 MSVOA Water: EPA 8260B

Inst : MSVOA02 Name : 826GX02W
Calnum : 413458513001 Date : 14-NOV-2013 12:57 Type : WATER
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	bke05	413458513005	.25/.5PPB	14-NOV-2013 12:57	S22433 (2000000X), S23518 (2000000X), S23611 (2000000X), S21354 (1000000X), S23570 (1000X)
L2	bke06	413458513006	.5/1PPB	14-NOV-2013 13:32	S23570 (1000X), S22433 (1000000X), S23518 (1000000X), S23611 (1000000X), S21354 (500000X)
L3	bke07	413458513007	2PPB	14-NOV-2013 14:07	S22433 (500000X), S23518 (250000X), S23517 (250000X), S23472 (250000X), S23570 (1000X)
L4	bke08	413458513008	5PPB	14-NOV-2013 14:42	S23570 (1000X), S22433 (200000X), S23518 (100000X), S23517 (100000X), S23472 (100000X)
L5	bke09	413458513009	10PPB	14-NOV-2013 15:17	S23570 (1000X), S22433 (100000X), S23518 (50000X), S23517 (50000X), S23472 (50000X)
L6	bke10	413458513010	20PPB	14-NOV-2013 15:52	S23570 (1000X), S22433 (50000X), S23518 (25000X), S23517 (25000X), S23472 (25000X)
L7	bke11	413458513011	50PPB	14-NOV-2013 16:27	S23570 (1000X), S22433 (20000X), S23518 (10000X), S23517 (10000X), S23472 (10000X)
L8	bke12	413458513012	75PPB	14-NOV-2013 17:02	S23570 (1000X), S22433 (13330X), S23518 (6667X), S23517 (6667X), S23472 (6667X)
L9	bke13	413458513013	100PPB	14-NOV-2013 17:37	S23570 (1000X), S22433 (10000X), S23518 (5000X), S23517 (5000X), S23472 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.6022	0.8923	0.8829	0.8647	0.8596	0.8746	0.8480	0.8752	AVRG		1.19412		0.8374	11	15	0.05	0.99	
Chloromethane	1.3761	1.3327	1.4197	1.2611	1.2879	1.2514	1.1730	1.1446	1.1492	AVRG		0.78978		1.2662	8	15	0.10	0.99	
Vinyl Chloride	0.9529	0.9583m	1.0395	0.9506	0.9820	1.0034	0.9573	0.9371	0.9872	AVRG		1.02641		0.9743	3	15	0.05	0.99	
Bromomethane		0.6110	0.7413	0.6857	0.6728	0.6652	0.6317	0.6057	0.6775	AVRG		1.51203		0.6614	7	15	0.05	0.99	
Chloroethane		0.5774	0.7013	0.5995	0.6055	0.5927	0.5623	0.5403	0.5699	AVRG		1.68465		0.5936	8	15	0.05	0.99	
Trichlorofluoromethane		0.8900	1.0495	1.0585	1.0275	1.0414	1.0198	0.9614	1.0219	AVRG		0.99131		1.0088	6	15	0.05	0.99	
Acetone				0.3386	0.3198	0.3081	0.2841	0.3015	0.2799	AVRG		3.27529		0.3053	7	15	0.05	0.99	
Freon 113			0.5601	0.5587	0.4795	0.4211	0.5160	0.5696	0.4820	AVRG		1.95148		0.5124	11	15	0.05	0.99	
1,1-Dichloroethene		0.5737	0.6734	0.6495	0.6177	0.5547	0.5770	0.6012	0.5695	AVRG		1.66085		0.6021	7	15	0.05	0.99	
Methylene Chloride		0.7715	0.8836	0.8708	0.8975	0.8802	0.8049	0.8118	0.8271	AVRG		1.18560		0.8435	5	15	0.05	0.99	
Carbon Disulfide		1.8807	2.0521	2.0080	1.9865	1.8240	1.8139	1.8653	1.8080	AVRG		0.52498		1.9048	5	15	0.05	0.99	
MTBE		1.7276	1.8255	1.9160	2.0369	1.9496	1.8072	1.8818	1.8646	AVRG		0.53301		1.8761	5	15	0.05	0.99	
trans-1,2-Dichloroethene		0.8354	0.7795	0.7839	0.7746	0.7381	0.7065	0.7091	0.7134	AVRG		1.32438		0.7551	6	15	0.05	0.99	
Vinyl Acetate			0.9722	0.9755	1.2121	1.0081	0.8811	0.8418	0.8641	AVRG		1.03628		0.9650	13	15	0.05	0.99	
1,1-Dichloroethane		1.4433	1.4226	1.4640	1.4607	1.3945	1.3153	1.3366	1.3505	AVRG		0.71508		1.3984	4	15	0.10	0.99	
2-Butanone			0.4186	0.4108	0.4036	0.3820	0.3593	0.3981	0.3694	AVRG		2.55301		0.3917	6	15	0.05	0.99	
2,2-Dichloropropane		0.9560	0.9834	0.9511	0.9329	0.8312	0.8024	0.8168	0.7950	AVRG		1.13171		0.8836	9	15	0.05	0.99	
cis-1,2-Dichloroethene		0.8876	0.9324	0.8888	0.9452	0.8969	0.8418	0.8484	0.8684	AVRG		1.12526		0.8887	4	15	0.05	0.99	
Chloroform		1.2858	1.3812	1.3715	1.4539	1.3806	1.2919	1.2994	1.3208	AVRG		0.74177		1.3481	4	15	0.05	0.99	
Bromochloromethane		0.3617	0.4804	0.4554	0.4904	0.4765	0.4499	0.4552	0.4582	AVRG		2.20522		0.4535	9	15	0.05	0.99	
1,1,1-Trichloroethane		0.8771	1.0128	1.0173	0.9974	0.9069	0.9206	0.9711	0.9270	AVRG		1.04847		0.9538	6	15	0.05	0.99	
1,1-Dichloropropene		0.4124	0.4574	0.4371	0.4275	0.3863	0.3996	0.4274	0.3934	AVRG		2.39438		0.4176	6	15	0.05	0.99	
Carbon Tetrachloride		0.2726	0.4167	0.3946	0.3841	0.3414	0.3659	0.3979	0.3591	AVRG		2.72826		0.3665	12	15	0.05	0.99	
1,2-Dichloroethane		0.4745	0.4711	0.4790	0.4914	0.4757	0.4481	0.4586	0.4502	AVRG		2.13414		0.4686	3	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		1.4687	1.5170	1.4677	1.5214	1.4318	1.3476	1.3994	1.3609	AVRG		0.69477		1.4393	5	15	0.05	0.99	
Trichloroethene		0.3737	0.4030	0.3946	0.4049	0.3679	0.3636	0.3507	0.3722	AVRG		2.63985		0.3788	5	15	0.05	0.99	
1,2-Dichloropropane		0.4607	0.4483	0.4328m	0.4531	0.4396m	0.4076m	0.4251	0.4164	AVRG		2.29641		0.4355	4	15	0.05	0.99	
Bromodichloromethane		0.4497	0.5118	0.5064	0.5498	0.5290	0.4987	0.5098	0.5175	AVRG		1.96424		0.5091	6	15	0.05	0.99	
Dibromomethane		0.2933	0.3065	0.2998	0.3154	0.3026	0.2835	0.2948	0.2978	AVRG		3.34203		0.2992	3	15	0.05	0.99	
4-Methyl-2-Pentanone			0.3782	0.3567	0.3671	0.3751	0.3491	0.4123	0.3647	AVRG		2.68908		0.3719	5	15	0.05	0.99	
cis-1,3-Dichloropropene		0.6222	0.5729	0.6093	0.6550	0.6208	0.5748	0.6048	0.6031	AVRG		1.64506		0.6079	4	15	0.05	0.99	
Toluene		0.9102	1.0236	1.0034	1.0211	0.9584	0.9036	0.9401	0.9311	AVRG		1.04011		0.9614	5	15	0.05	0.99	
trans-1,3-Dichloropropene		0.5273	0.5491	0.6007	0.6392	0.6017	0.5740	0.5858	0.5976	AVRG		1.71111		0.5844	6	15	0.05	0.99	
1,1,2-Trichloroethane		0.2169	0.2236	0.2355	0.2499	0.2359	0.2209	0.2275	0.2306	AVRG		4.34593		0.2301	5	15	0.05	0.99	
2-Hexanone			0.3233	0.3046	0.3114	0.3074	0.2800	0.3368	0.3001	AVRG		3.23547		0.3091	6	15	0.05	0.99	
1,3-Dichloropropane		0.5712	0.6402	0.6823	0.6976	0.6787	0.6245	0.6423	0.6519	AVRG		1.54183		0.6486	6	15	0.05	0.99	
Tetrachloroethene		0.3306	0.3907	0.3730	0.3635	0.3248	0.3312	0.3567	0.3327	AVRG		2.85404		0.3504	7	15	0.05	0.99	
Dibromochloromethane		0.4217	0.4290	0.4504	0.4850	0.4693	0.4557	0.4765	0.4878	AVRG		2.17667		0.4594	5	15	0.05	0.99	
1,2-Dibromoethane		0.4190	0.4510	0.4415	0.4787	0.4613	0.4289	0.4568	0.4562	AVRG		2.22637		0.4492	4	15	0.05	0.99	
Chlorobenzene		1.0829	1.1585	1.1411	1.1893	1.1123	1.0547	1.0807	1.0876	AVRG		0.89816		1.1134	4	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.4779	0.4235	0.4107	0.4196	0.3967	0.3715	0.3772	0.3861	AVRG		2.45165		0.4079	8	15	0.05	0.99	
Ethylbenzene		1.5628	1.8422	1.7361	1.8424	1.7268	1.6441	1.7260	1.6722	AVRG		0.58171		1.7191	6	15	0.05	0.99	
m,p-Xylenes	0.6337	0.6076	0.6531	0.6348	0.6721	0.6324	0.6111	0.6327	0.6132	AVRG		1.58156		0.6323	3	15	0.05	0.99	
o-Xylene		0.6225	0.6417	0.6447	0.6787	0.6579	0.6210	0.6448	0.6373	AVRG		1.55381		0.6436	3	15	0.05	0.99	
Styrene		0.9770	1.0709	1.1069	1.1811	1.1522	1.0900	1.1332	1.1273	AVRG		0.90511		1.1048	6	15	0.05	0.99	
Bromoform		0.2459	0.2585	0.2883	0.3168	0.3111	0.3033	0.3240	0.3217	AVRG		3.37603		0.2962	10	15	0.10	0.99	
Isopropylbenzene		3.1495	3.6603	3.5497	3.5732	3.3672	3.2400	3.4407	3.2769	AVRG		0.29350		3.4072	5	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		1.2226	1.2523	1.2352	1.3282	1.2436	1.1104	1.2069	1.1574	AVRG		0.81996		1.2196	5	15	0.30	0.99	
1,2,3-Trichloropropane		1.0373	0.9269m	0.9649	1.0375m	0.9554m	0.8634m	0.9441m	0.8852m	AVRG		1.05057		0.9519	7	15	0.05	0.99	
Propylbenzene		3.6943	4.2309	4.0912	4.1629	3.8199	3.7149	3.9513	3.7273	AVRG		0.25484		3.9241	5	15	0.05	0.99	
Bromobenzene		1.0570	1.0070	1.0670	1.1192	1.0607	0.9748	1.0250	1.0188	AVRG		0.96044		1.0412	4	15	0.05	0.99	
1,3,5-Trimethylbenzene		2.3702	2.4710	2.5594	2.6451	2.5250	2.4313	2.5766	2.4730	AVRG		0.39897		2.5065	4	15	0.05	0.99	
2-Chlorotoluene		2.7976	2.9490	2.9381	3.0411	2.8248	2.6218	2.7242	2.6814	AVRG		0.35433		2.8222	5	15	0.05	0.99	
4-Chlorotoluene		2.5062	2.5351	2.5762	2.7475	2.5658	2.3955	2.5306	2.4932	AVRG		0.39312		2.5438	4	15	0.05	0.99	
tert-Butylbenzene		2.0023	2.3122	2.3027	2.2636	2.1261	2.0771	2.2326	2.0861	AVRG		0.45970		2.1753	5	15	0.05	0.99	
1,2,4-Trimethylbenzene		2.2111	2.2475	2.3531	2.4730	2.4229	2.3481	2.5114	2.4861	AVRG		0.41988		2.3817	5	15	0.05	0.99	
sec-Butylbenzene		2.8408	3.4210	3.3230	3.1808	2.9190	3.0122	3.3112	3.0224	AVRG		0.31961		3.1288	7	15	0.05	0.99	
para-Isopropyl Toluene		2.1425	2.1701	2.1795	2.2238	2.1196	2.1437	2.3611	2.2174	AVRG		0.45564		2.1947	3	15	0.05	0.99	
1,3-Dichlorobenzene		1.6674	1.6453	1.6511	1.6923	1.6110	1.4984	1.5766	1.5619	AVRG		0.61997		1.6130	4	15	0.05	0.99	
1,4-Dichlorobenzene		1.6610	1.6869	1.6848	1.7218	1.6213	1.5195	1.5922	1.5774	AVRG		0.61233		1.6331	4	15	0.05	0.99	
n-Butylbenzene		1.6500	1.6299	1.6665	1.6752	1.6183	1.7368	1.9103	1.8058	AVRG		0.58425		1.7116	6	15	0.05	0.99	
1,2-Dichlorobenzene		1.5537	1.7010	1.6905	1.7476	1.6968	1.5500	1.6383	1.6264	AVRG		0.60586		1.6505	4	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.1470	0.1835	0.1839	0.1903	0.1792	0.1675	0.1891	0.1772	AVRG		5.64275		0.1772	8	15	0.05	0.99	
1,2,4-Trichlorobenzene		0.5986	0.5152	0.5344	0.6044	0.5918	0.5942	0.6568	0.6622	AVRG		1.68155		0.5947	9	15	0.05	0.99	
Hexachlorobutadiene		0.3334	0.3588	0.3544	0.3332	0.2815	0.3150	0.3429	0.3082	AVRG		3.04464		0.3284	8	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene		1.3563	1.2709	1.4086	1.5163	1.5576	1.5526	1.7505	1.7488	AVRG		0.65781		1.5202	11	15	0.05	0.99	
1,2,3-Trichlorobenzene		0.5907	0.5337	0.5643	0.6250	0.6187	0.6251	0.6859	0.6900	AVRG		1.62160		0.6167	9	15	0.05	0.99	
Dibromofluoromethane	0.7823	0.7631	0.7880	0.7916	0.7963	0.8016	0.7973	0.7695	0.7894	AVRG		1.27132		0.7866	2	15	0.05	0.99	
1,2-Dichloroethane-d4	0.3376	0.3391	0.3367	0.3415	0.3453	0.3397	0.3388	0.3310	0.3245	AVRG		2.96616		0.3371	2	15	0.05	0.99	
Toluene-d8	1.3036	1.3039	1.3169	1.3302	1.3193	1.3253	1.2960	1.2865	1.3259	AVRG		0.76223		1.3119	1	15	0.05	0.99	
Bromofluorobenzene	1.0901	1.0990	1.0938	1.0969	1.0761	1.0791	1.0541	1.0577	1.0632	AVRG		0.92689		1.0789	2	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Freon 12			1.0000	**-28**	2.0000	7	5.0000	5	10.000	3	20.000	3	50.000	4	75.000	1	100.00	5
Chloromethane	0.5000	9	1.0000	5	2.0000	12	5.0000	0	10.000	2	20.000	-1	50.000	-7	75.000	-10	100.00	-9
Vinyl Chloride	0.5000	-2	1.0000	-2	2.0000	7	5.0000	-2	10.000	1	20.000	3	50.000	-2	75.000	-4	100.00	1
Bromomethane			1.0000	-8	2.0000	12	5.0000	4	10.000	2	20.000	1	50.000	-4	75.000	-8	100.00	2
Chloroethane			1.0000	-3	2.0000	18	5.0000	1	10.000	2	20.000	0	50.000	-5	75.000	-9	100.00	-4
Trichlorofluoromethane			1.0000	-12	2.0000	4	5.0000	5	10.000	2	20.000	3	50.000	1	75.000	-5	100.00	1
Acetone							5.0000	11	10.000	5	20.000	1	50.000	-7	75.000	-1	100.00	-8
Freon 113					2.0000	9	5.0000	9	10.000	-6	20.000	-18	50.000	1	75.000	11	100.00	-6
1,1-Dichloroethene			0.5000	-5	2.0000	12	5.0000	8	10.000	3	20.000	-8	50.000	-4	75.000	0	100.00	-5
Methylene Chloride			0.5000	-9	2.0000	5	5.0000	3	10.000	6	20.000	4	50.000	-5	75.000	-4	100.00	-2
Carbon Disulfide			0.5000	-1	2.0000	8	5.0000	5	10.000	4	20.000	-4	50.000	-5	75.000	-2	100.00	-5
MTBE			0.5000	-8	2.0000	-3	5.0000	2	10.000	9	20.000	4	50.000	-4	75.000	0	100.00	-1
trans-1,2-Dichloroethene			0.5000	11	2.0000	3	5.0000	4	10.000	3	20.000	-2	50.000	-6	75.000	-6	100.00	-6
Vinyl Acetate					2.0000	1	5.0000	1	10.000	**26**	20.000	4	50.000	-9	75.000	-13	100.00	-10
1,1-Dichloroethane			0.5000	3	2.0000	2	5.0000	5	10.000	4	20.000	0	50.000	-6	75.000	-4	100.00	-3
2-Butanone					2.0000	7	5.0000	5	10.000	3	20.000	-2	50.000	-8	75.000	2	100.00	-6
2,2-Dichloropropane			0.5000	8	2.0000	11	5.0000	8	10.000	6	20.000	-6	50.000	-9	75.000	-8	100.00	-10
cis-1,2-Dichloroethene			0.5000	0	2.0000	5	5.0000	0	10.000	6	20.000	1	50.000	-5	75.000	-5	100.00	-2
Chloroform			0.5000	-5	2.0000	2	5.0000	2	10.000	8	20.000	2	50.000	-4	75.000	-4	100.00	-2
Bromochloromethane			0.5000	-20	2.0000	6	5.0000	0	10.000	8	20.000	5	50.000	-1	75.000	0	100.00	1
1,1,1-Trichloroethane			0.5000	-8	2.0000	6	5.0000	7	10.000	5	20.000	-5	50.000	-3	75.000	2	100.00	-3
1,1-Dichloropropene			0.5000	-1	2.0000	10	5.0000	5	10.000	2	20.000	-8	50.000	-4	75.000	2	100.00	-6
Carbon Tetrachloride			0.5000	**-26**	2.0000	14	5.0000	8	10.000	5	20.000	-7	50.000	0	75.000	9	100.00	-2
1,2-Dichloroethane			0.5000	1	2.0000	1	5.0000	2	10.000	5	20.000	2	50.000	-4	75.000	-2	100.00	-4
Benzene			0.5000	2	2.0000	5	5.0000	2	10.000	6	20.000	-1	50.000	-6	75.000	-3	100.00	-5
Trichloroethene			0.5000	-1	2.0000	6	5.0000	4	10.000	7	20.000	-3	50.000	-4	75.000	-7	100.00	-2
1,2-Dichloropropane			0.5000	6	2.0000	3	5.0000	-1	10.000	4	20.000	1	50.000	-6	75.000	-2	100.00	-4
Bromodichloromethane			0.5000	-12	2.0000	1	5.0000	-1	10.000	8	20.000	4	50.000	-2	75.000	0	100.00	2
Dibromomethane			0.5000	-2	2.0000	2	5.0000	0	10.000	5	20.000	1	50.000	-5	75.000	-1	100.00	0
4-Methyl-2-Pentanone					2.0000	2	5.0000	-4	10.000	-1	20.000	1	50.000	-6	75.000	11	100.00	-2
cis-1,3-Dichloropropene			0.5000	2	2.0000	-6	5.0000	0	10.000	8	20.000	2	50.000	-5	75.000	-1	100.00	-1
Toluene			0.5000	-5	2.0000	6	5.0000	4	10.000	6	20.000	0	50.000	-6	75.000	-2	100.00	-3
trans-1,3-Dichloropropene			0.5000	-10	2.0000	-6	5.0000	3	10.000	9	20.000	3	50.000	-2	75.000	0	100.00	2
1,1,2-Trichloroethane			0.5000	-6	2.0000	-3	5.0000	2	10.000	9	20.000	3	50.000	-4	75.000	-1	100.00	0
2-Hexanone					2.0000	5	5.0000	-1	10.000	1	20.000	-1	50.000	-9	75.000	9	100.00	-3
1,3-Dichloropropane			0.5000	-12	2.0000	-1	5.0000	5	10.000	8	20.000	5	50.000	-4	75.000	-1	100.00	1
Tetrachloroethene			0.5000	-6	2.0000	12	5.0000	6	10.000	4	20.000	-7	50.000	-5	75.000	2	100.00	-5
Dibromochloromethane			0.5000	-8	2.0000	-7	5.0000	-2	10.000	6	20.000	2	50.000	-1	75.000	4	100.00	6
1,2-Dibromoethane			0.5000	-7	2.0000	0	5.0000	-2	10.000	7	20.000	3	50.000	-5	75.000	2	100.00	2
Chlorobenzene			0.5000	-3	2.0000	4	5.0000	2	10.000	7	20.000	0	50.000	-5	75.000	-3	100.00	-2
1,1,1,2-Tetrachloroethane			0.5000	17	2.0000	4	5.0000	1	10.000	3	20.000	-3	50.000	-9	75.000	-8	100.00	-5
Ethylbenzene			0.5000	-9	2.0000	7	5.0000	1	10.000	7	20.000	0	50.000	-4	75.000	0	100.00	-3

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
m,p-Xylenes	0.5000	0	1.0000	-4	4.0000	3	10.000	0	20.000	6	40.000	0	100.00	-3	150.00	0	200.00	-3
o-Xylene			0.5000	-3	2.0000	0	5.0000	0	10.000	5	20.000	2	50.000	-4	75.000	0	100.00	-1
Styrene			0.5000	-12	2.0000	-3	5.0000	0	10.000	7	20.000	4	50.000	-1	75.000	3	100.00	2
Bromoform			0.5000	-17	2.0000	-13	5.0000	-3	10.000	7	20.000	5	50.000	2	75.000	9	100.00	9
Isopropylbenzene			0.5000	-8	2.0000	7	5.0000	4	10.000	5	20.000	-1	50.000	-5	75.000	1	100.00	-4
1,1,2,2-Tetrachloroethane			0.5000	0	2.0000	3	5.0000	1	10.000	9	20.000	2	50.000	-9	75.000	-1	100.00	-5
1,2,3-Trichloropropane			0.5000	9	2.0000	-3	5.0000	1	10.000	9	20.000	0	50.000	-9	75.000	-1	100.00	-7
Propylbenzene			0.5000	-6	2.0000	8	5.0000	4	10.000	6	20.000	-3	50.000	-5	75.000	1	100.00	-5
Bromobenzene			0.5000	2	2.0000	-3	5.0000	2	10.000	7	20.000	2	50.000	-6	75.000	-2	100.00	-2
1,3,5-Trimethylbenzene			0.5000	-5	2.0000	-1	5.0000	2	10.000	6	20.000	1	50.000	-3	75.000	3	100.00	-1
2-Chlorotoluene			0.5000	-1	2.0000	4	5.0000	4	10.000	8	20.000	0	50.000	-7	75.000	-3	100.00	-5
4-Chlorotoluene			0.5000	-1	2.0000	0	5.0000	1	10.000	8	20.000	1	50.000	-6	75.000	-1	100.00	-2
tert-Butylbenzene			0.5000	-8	2.0000	6	5.0000	6	10.000	4	20.000	-2	50.000	-5	75.000	3	100.00	-4
1,2,4-Trimethylbenzene			0.5000	-7	2.0000	-6	5.0000	-1	10.000	4	20.000	2	50.000	-1	75.000	5	100.00	4
sec-Butylbenzene			0.5000	-9	2.0000	9	5.0000	6	10.000	2	20.000	-7	50.000	-4	75.000	6	100.00	-3
para-Isopropyl Toluene			0.5000	-2	2.0000	-1	5.0000	-1	10.000	1	20.000	-3	50.000	-2	75.000	8	100.00	1
1,3-Dichlorobenzene			0.5000	3	2.0000	2	5.0000	2	10.000	5	20.000	0	50.000	-7	75.000	-2	100.00	-3
1,4-Dichlorobenzene			0.5000	2	2.0000	3	5.0000	3	10.000	5	20.000	-1	50.000	-7	75.000	-3	100.00	-3
n-Butylbenzene			0.5000	-4	2.0000	-5	5.0000	-3	10.000	-2	20.000	-5	50.000	1	75.000	12	100.00	6
1,2-Dichlorobenzene			0.5000	-6	2.0000	3	5.0000	2	10.000	6	20.000	3	50.000	-6	75.000	-1	100.00	-1
1,2-Dibromo-3-Chloropropane			0.5000	-17	2.0000	4	5.0000	4	10.000	7	20.000	1	50.000	-5	75.000	7	100.00	0
1,2,4-Trichlorobenzene			0.5000	1	2.0000	-13	5.0000	-10	10.000	2	20.000	0	50.000	0	75.000	10	100.00	11
Hexachlorobutadiene			0.5000	2	2.0000	9	5.0000	8	10.000	1	20.000	-14	50.000	-4	75.000	4	100.00	-6
Naphthalene			0.5000	-11	2.0000	-16	5.0000	-7	10.000	0	20.000	2	50.000	2	75.000	15	100.00	15
1,2,3-Trichlorobenzene			0.5000	-4	2.0000	-13	5.0000	-8	10.000	1	20.000	0	50.000	1	75.000	11	100.00	12
Dibromofluoromethane	50.000	-1	50.000	-3	50.000	0	50.000	1	50.000	1	50.000	2	50.000	1	50.000	-2	50.000	0
1,2-Dichloroethane-d4	50.000	0	50.000	1	50.000	0	50.000	1	50.000	2	50.000	1	50.000	0	50.000	-2	50.000	-4
Toluene-d8	50.000	-1	50.000	-1	50.000	0	50.000	1	50.000	1	50.000	1	50.000	-1	50.000	-2	50.000	1
Bromofluorobenzene	50.000	1	50.000	2	50.000	1	50.000	2	50.000	0	50.000	0	50.000	-2	50.000	-2	50.000	-1

BO 11/18/13 [Vinyl Chloride]: Corrected fronting or tailing peak integration1PPB (bke06).

BO 11/18/13 [Tetramethyl THF]: Corrected automatically drawn baseline1PPB (bke06).

BO 11/18/13 [1,2-Dichloropropane]: Separated from coeluting peak in multiple levels.

BO 11/18/13 [1,2,3-Trichloropropane]: Separated from coeluting peak in multiple levels.

Analyst: BO Date: 11/18/13 Reviewer: LW Date: 11/18/13

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 251273 MSVOA Water
EPA 8260B

Inst : MSVOA02 Name : 826GX02W
Calnum : 413458513001 Cal Date : 14-NOV-2013 Type : WATER

ICV 413458513014 (bke14 14-NOV-2013) stds: S23276 (10000X), S23570 (1000X)
ICV 413459992008 (bkf08 15-NOV-2013) stds: S23599 (20000X), S23592 (20000X), S23417 (20000X), S23570 (1000X)

Analyte	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max	Flags
Freon 12	413458513014	14-NOV-2013	20.00	24.98	ug/L	**25**	30	!v+
Chloromethane	413458513014	14-NOV-2013	20.00	20.02	ug/L	0	30	
Vinyl Chloride	413458513014	14-NOV-2013	20.00	20.47	ug/L	2	20	
Bromomethane	413458513014	14-NOV-2013	20.00	16.57	ug/L	-17	30	
Chloroethane	413458513014	14-NOV-2013	20.00	19.98	ug/L	0	30	
Trichlorofluoromethane	413458513014	14-NOV-2013	20.00	18.42	ug/L	-8	30	
Acetone	413459992008	15-NOV-2013	12.50	11.69	ug/L	-6	40	
Freon 113	413459992008	15-NOV-2013	12.50	13.89	ug/L	11	30	
1,1-Dichloroethene	413459992008	15-NOV-2013	12.50	13.96	ug/L	12	20	
Methylene Chloride	413459992008	15-NOV-2013	12.50	12.89	ug/L	3	30	
Carbon Disulfide	413459992008	15-NOV-2013	12.50	15.43	ug/L	**23**	30	!v+
MTBE	413459992008	15-NOV-2013	12.50	11.96	ug/L	-4	30	
trans-1,2-Dichloroethene	413459992008	15-NOV-2013	12.50	13.18	ug/L	5	30	
Vinyl Acetate	413459992008	15-NOV-2013	12.50	20.88	ug/L	**67**	40	v+
1,1-Dichloroethane	413459992008	15-NOV-2013	12.50	10.89	ug/L	-13	30	
2-Butanone	413459992008	15-NOV-2013	12.50	11.66	ug/L	-7	40	
2,2-Dichloropropane	413459992008	15-NOV-2013	12.50	12.11	ug/L	-3	30	
cis-1,2-Dichloroethene	413459992008	15-NOV-2013	12.50	12.85	ug/L	3	30	
Chloroform	413459992008	15-NOV-2013	12.50	11.14	ug/L	-11	20	
Bromochloromethane	413459992008	15-NOV-2013	12.50	12.25	ug/L	-2	30	
1,1,1-Trichloroethane	413459992008	15-NOV-2013	12.50	11.71	ug/L	-6	30	
1,1-Dichloropropene	413459992008	15-NOV-2013	12.50	13.92	ug/L	11	30	
Carbon Tetrachloride	413459992008	15-NOV-2013	12.50	12.53	ug/L	0	30	
1,2-Dichloroethane	413459992008	15-NOV-2013	12.50	11.89	ug/L	-5	30	
Benzene	413459992008	15-NOV-2013	12.50	12.51	ug/L	0	30	
Trichloroethene	413459992008	15-NOV-2013	12.50	12.74	ug/L	2	30	
1,2-Dichloropropane	413459992008	15-NOV-2013	12.50	11.87	ug/L	-5	20	
Bromodichloromethane	413459992008	15-NOV-2013	12.50	12.09	ug/L	-3	30	
Dibromomethane	413459992008	15-NOV-2013	12.50	11.39	ug/L	-9	30	
4-Methyl-2-Pentanone	413459992008	15-NOV-2013	12.50	12.15	ug/L	-3	40	
cis-1,3-Dichloropropene	413459992008	15-NOV-2013	12.50	13.46	ug/L	8	30	
Toluene	413459992008	15-NOV-2013	12.50	12.80	ug/L	2	20	
trans-1,3-Dichloropropene	413459992008	15-NOV-2013	12.50	13.08	ug/L	5	30	
1,1,2-Trichloroethane	413459992008	15-NOV-2013	12.50	12.72	ug/L	2	30	
2-Hexanone	413459992008	15-NOV-2013	12.50	11.89	ug/L	-5	40	
1,3-Dichloropropane	413459992008	15-NOV-2013	12.50	13.01	ug/L	4	30	
Tetrachloroethene	413459992008	15-NOV-2013	12.50	12.72	ug/L	2	30	
Dibromochloromethane	413459992008	15-NOV-2013	12.50	13.29	ug/L	6	30	
1,2-Dibromoethane	413459992008	15-NOV-2013	12.50	13.26	ug/L	6	30	
Chlorobenzene	413459992008	15-NOV-2013	12.50	13.40	ug/L	7	30	
1,1,1,2-Tetrachloroethane	413459992008	15-NOV-2013	12.50	12.68	ug/L	1	30	
Ethylbenzene	413459992008	15-NOV-2013	12.50	12.80	ug/L	2	20	
m,p-Xylenes	413459992008	15-NOV-2013	25.00	27.01	ug/L	8	30	
o-Xylene	413459992008	15-NOV-2013	12.50	13.86	ug/L	11	30	
Styrene	413459992008	15-NOV-2013	12.50	13.26	ug/L	6	30	
Bromoform	413459992008	15-NOV-2013	12.50	12.71	ug/L	2	30	
Isopropylbenzene	413459992008	15-NOV-2013	12.50	13.61	ug/L	9	30	

Analyte	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	413459992008	15-NOV-2013	12.50	13.16	ug/L	5	30	
1,2,3-Trichloropropane	413459992008	15-NOV-2013	12.50	12.57	ug/L	1	30	m
Propylbenzene	413459992008	15-NOV-2013	12.50	13.17	ug/L	5	30	
Bromobenzene	413459992008	15-NOV-2013	12.50	13.16	ug/L	5	30	
1,3,5-Trimethylbenzene	413459992008	15-NOV-2013	12.50	13.56	ug/L	8	30	
2-Chlorotoluene	413459992008	15-NOV-2013	12.50	13.23	ug/L	6	30	
4-Chlorotoluene	413459992008	15-NOV-2013	12.50	13.01	ug/L	4	30	
tert-Butylbenzene	413459992008	15-NOV-2013	12.50	13.38	ug/L	7	30	
1,2,4-Trimethylbenzene	413459992008	15-NOV-2013	12.50	12.71	ug/L	2	30	
sec-Butylbenzene	413459992008	15-NOV-2013	12.50	13.97	ug/L	12	30	
para-Isopropyl Toluene	413459992008	15-NOV-2013	12.50	12.44	ug/L	0	30	
1,3-Dichlorobenzene	413459992008	15-NOV-2013	12.50	13.55	ug/L	8	30	
1,4-Dichlorobenzene	413459992008	15-NOV-2013	12.50	13.04	ug/L	4	30	
n-Butylbenzene	413459992008	15-NOV-2013	12.50	13.36	ug/L	7	30	
1,2-Dichlorobenzene	413459992008	15-NOV-2013	12.50	13.48	ug/L	8	30	
1,2-Dibromo-3-Chloropropane	413459992008	15-NOV-2013	12.50	13.10	ug/L	5	30	
1,2,4-Trichlorobenzene	413459992008	15-NOV-2013	12.50	13.52	ug/L	8	30	
Hexachlorobutadiene	413459992008	15-NOV-2013	12.50	14.77	ug/L	18	30	
Naphthalene	413459992008	15-NOV-2013	12.50	13.51	ug/L	8	30	
1,2,3-Trichlorobenzene	413459992008	15-NOV-2013	12.50	13.40	ug/L	7	30	

413458513014: Analyst: BO Date: 11/18/13 Reviewer: LW Date: 11/18/13
413459992008: Analyst: BO Date: 11/18/13 Reviewer: LW Date: 11/18/13

!=warning +=high bias m=manual integration v=ICV

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 251273 MSVOA Water: EPA 8260B

Inst : MSVOA09 Name : 826GOX9W
Calnum : 483488653001 Date : 05-DEC-2013 10:32 Type : WATER
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	il505	483488653005	.25/.5PPB	05-DEC-2013 10:32	S22790 (2000000X), S23700 (2000000X), S23701 (2000000X), S21576 (1000000X), S23755 (5000X)
L2	il506	483488653006	0.5/1PPB	05-DEC-2013 11:06	S22790 (1000000X), S23700 (1000000X), S23701 (1000000X), S21576 (500000X), S23755 (5000X)
L3	il507	483488653007	2PPB	05-DEC-2013 11:40	S22790 (500000X), S23700 (250000X), S23701 (250000X), S21576 (250000X), S23755 (5000X)
L4	il508	483488653008	5PPB	05-DEC-2013 12:13	S22790 (200000X), S23700 (100000X), S23701 (100000X), S21576 (100000X), S23755 (5000X)
L5	il509	483488653009	10PPB	05-DEC-2013 12:47	S22790 (100000X), S23700 (50000X), S23701 (50000X), S21576 (50000X), S23755 (5000X)
L6	il510	483488653010	20PPB	05-DEC-2013 13:21	S22790 (50000X), S23700 (25000X), S23701 (25000X), S21576 (25000X), S23755 (5000X)
L7	il511	483488653011	50PPB	05-DEC-2013 13:55	S22790 (20000X), S23700 (10000X), S23701 (10000X), S21576 (10000X), S23755 (5000X)
L8	il512	483488653012	75PPB	05-DEC-2013 14:29	S22790 (13330X), S23700 (6667X), S23701 (6667X), S21576 (6667X), S23755 (5000X)
L9	il513	483488653013	100PPB	05-DEC-2013 15:02	S22790 (10000X), S23700 (5000X), S23701 (5000X), S21576 (5000X), S23755 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.4581m	0.4639m	0.5179	0.4538	0.5500	0.5330	0.5089	0.4707	AVRG		2.02210		0.4945	8	15	0.05	0.99	
Chloromethane	0.7040	0.6392m	0.6792m	0.6699	0.6398	0.5892	0.5770	0.5574	0.5439	AVRG		1.60726		0.6222	9	15	0.10	0.99	
Vinyl Chloride	0.4373m	0.4267m	0.4629m	0.4867	0.4857	0.4732	0.4729	0.4443	0.4318	AVRG		2.18374		0.4579	5	15	0.05	0.99	
Bromomethane		0.2618m	0.2882m	0.2570	0.2639	0.2703	0.2739	0.2707	0.2723	AVRG		3.70711		0.2698	4	15	0.05	0.99	
Chloroethane		0.2648	0.2732m	0.2733m	0.2790	0.2591	0.2558	0.2512	0.2395	AVRG		3.81692		0.2620	5	15	0.05	0.99	
Trichlorofluoromethane		0.4982	0.4947	0.5017	0.4724	0.5206	0.5128	0.5184	0.4895	AVRG		1.99592		0.5010	3	15	0.05	0.99	
Acetone				0.1057	0.1065	0.0947	0.0956	0.0997	0.0947	AVRG		10.0515		0.0995	5	15	0.05	0.99	
Freon 113		0.2203	0.2283	0.2564	0.1438	0.1960	0.2096	0.2307	0.2674	QUAD	-0.1010	5.44381	-0.06361	0.2191	0.999	15	0.05	0.99	
1,1-Dichloroethene		0.2562	0.2781	0.2727	0.2220	0.2379	0.2516	0.2666	0.2847	AVRG		3.86504		0.2587	8	15	0.05	0.99	
Methylene Chloride		0.3289	0.3659	0.3478	0.3423	0.3465	0.3455	0.3556	0.3524	AVRG		2.87257		0.3481	3	15	0.05	0.99	
Carbon Disulfide		1.0569	1.0441	1.0636	0.9305	1.0078	1.0174	1.0556	1.0982	AVRG		0.96686		1.0343	5	15	0.05	0.99	
MTBE		0.7041	0.7665	0.7199	0.7376	0.7390	0.7265	0.7539	0.7138	AVRG		1.36493		0.7326	3	15	0.05	0.99	
trans-1,2-Dichloroethene		0.3095	0.3095	0.3130	0.2897	0.2988	0.2977	0.3171	0.3178	AVRG		3.26114		0.3066	3	15	0.05	0.99	
Vinyl Acetate			0.5552	0.4763	0.5236	0.5165	0.4852	0.4821	0.4408	AVRG		2.01167		0.4971	8	15	0.05	0.99	
1,1-Dichloroethane		0.6299	0.6586	0.6429	0.6252	0.6450	0.6396	0.6416	0.6249	AVRG		1.56626		0.6385	2	15	0.10	0.99	
2-Butanone			0.1345	0.1280	0.1395	0.1283	0.1311	0.1342	0.1278	AVRG		7.58011		0.1319	3	15	0.05	0.99	
2,2-Dichloropropane		0.4086	0.4279	0.4458	0.3824	0.4047	0.4007	0.4022	0.4173	AVRG		2.43191		0.4112	5	15	0.05	0.99	
cis-1,2-Dichloroethene		0.3171	0.3400	0.3356	0.3224	0.3425	0.3473	0.3551	0.3574	AVRG		2.94392		0.3397	4	15	0.05	0.99	
Chloroform		0.5924	0.6018	0.5935	0.5566	0.5824	0.5709	0.5752	0.5540	AVRG		1.72904		0.5784	3	15	0.05	0.99	
Bromochloromethane		0.1487	0.1562	0.1547	0.1578	0.1643	0.1653	0.1653	0.1647	AVRG		6.26464		0.1596	4	15	0.05	0.99	
1,1,1-Trichloroethane		0.4105	0.4254	0.4532	0.3738	0.4057	0.4031	0.4119	0.4084	AVRG		2.43015		0.4115	5	15	0.05	0.99	
1,1-Dichloropropene		0.2601	0.2535	0.2716	0.2211	0.2434	0.2510	0.2699	0.2708	AVRG		3.91867		0.2552	7	15	0.05	0.99	
Carbon Tetrachloride		0.2358	0.2260	0.2472	0.1891	0.2160	0.2247	0.2447	0.2549	AVRG		4.35171		0.2298	9	15	0.05	0.99	
1,2-Dichloroethane		0.2832	0.2824	0.2740	0.2690	0.2691	0.2676	0.2693	0.2553	AVRG		3.68682		0.2712	3	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		0.8489	0.8700	0.8776	0.8240	0.8620	0.8684	0.8790	0.8435	AVRG		1.16391		0.8592	2	15	0.05	0.99	
Trichloroethene		0.2016	0.2018	0.2172	0.1940	0.2065	0.2141	0.2260	0.2256	AVRG		4.74228		0.2109	6	15	0.05	0.99	
1,2-Dichloropropane		0.2426	0.2580	0.2562	0.2479	0.2605	0.2687	0.2779	0.2649	AVRG		3.85210		0.2596	4	15	0.05	0.99	
Bromodichloromethane		0.2441	0.2911	0.2858	0.2884	0.2935	0.3068	0.3145	0.2997	AVRG		3.44255		0.2905	7	15	0.05	0.99	
Dibromomethane		0.1116	0.1336	0.1347	0.1292	0.1339	0.1380	0.1429	0.1356	AVRG		7.55063		0.1324	7	15	0.05	0.99	
4-Methyl-2-Pentanone			0.1833	0.1788	0.1852	0.1822	0.1895	0.2001	0.1823	AVRG		5.37900		0.1859	4	15	0.05	0.99	
cis-1,3-Dichloropropene		0.3072	0.3211	0.3388	0.3300	0.3424	0.3537	0.3635	0.3521	AVRG		2.95332		0.3386	5	15	0.05	0.99	
Toluene		0.6268	0.6060	0.6609	0.6099	0.6625	0.6666	0.6836	0.6557	AVRG		1.54681		0.6465	4	15	0.05	0.99	
trans-1,3-Dichloropropene		0.3263	0.3445	0.3565	0.3619	0.3797	0.3893	0.4018	0.3802	AVRG		2.72088		0.3675	7	15	0.05	0.99	
1,1,2-Trichloroethane		0.1071	0.1260	0.1278	0.1211	0.1256	0.1297	0.1367	0.1332	AVRG		7.94170		0.1259	7	15	0.05	0.99	
2-Hexanone			0.1609	0.1585	0.1687	0.1761	0.1838	0.1947	0.1830	AVRG		5.71058		0.1751	8	15	0.05	0.99	
1,3-Dichloropropane		0.3540	0.3771	0.3803	0.3642	0.3858	0.3937	0.4091	0.3912	AVRG		2.61822		0.3819	5	15	0.05	0.99	
Tetrachloroethene		0.2001	0.2044	0.2281	0.1772	0.2114	0.2180	0.2398	0.2575	AVRG		4.60700		0.2171	11	15	0.05	0.99	
Dibromochloromethane		0.2101	0.2319	0.2497	0.2507	0.2656	0.2782	0.2917	0.2881	AVRG		3.87236		0.2582	11	15	0.05	0.99	
1,2-Dibromoethane		0.1793	0.2136	0.2193	0.2106	0.2197	0.2312	0.2433	0.2378	AVRG		4.55907		0.2193	9	15	0.05	0.99	
Chlorobenzene		0.6922	0.6543	0.7252	0.6705	0.7249	0.7408	0.7539	0.7554	AVRG		1.39926		0.7147	5	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.1930	0.2228	0.2440	0.2365	0.2526	0.2603	0.2741	0.2692	AVRG		4.09740		0.2441	11	15	0.05	0.99	
Ethylbenzene		1.0200	1.0313	1.1571	1.0308	1.1643	1.1341	1.2060	1.1671	AVRG		0.89779		1.1139	7	15	0.05	0.99	
m,p-Xylenes	0.3907	0.3479	0.3689	0.4153	0.3796	0.4420	0.4383	0.4447	0.4090	AVRG		2.47484		0.4041	9	15	0.05	0.99	
o-Xylene		0.3339	0.3546	0.4175	0.3779	0.4368	0.4603	0.4771	0.4561	AVRG		2.41381		0.4143	13	15	0.05	0.99	
Styrene		0.5692	0.6301	0.7241	0.6678	0.7723	0.8210	0.8207	0.7961	AVRG		1.37896		0.7252	13	15	0.05	0.99	
Bromoform		0.1097	0.1209	0.1317	0.1368	0.1503	0.1604			AVRG		7.40908		0.1350	14	15	0.10	0.99	
Isopropylbenzene		1.7834	1.8039	2.0211	1.7165	1.9677	1.9888	2.0901	2.1133	AVRG		0.51664		1.9356	8	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		0.4961	0.4609	0.4849	0.4894	0.4746	0.4944	0.5135	0.4936	AVRG		2.04742		0.4884	3	15	0.30	0.99	
1,2,3-Trichloropropane		0.0989	0.1203	0.1183	0.1212	0.1146	0.1197	0.1228	0.1186	AVRG		8.56243		0.1168	7	15	0.05	0.99	
Propylbenzene		2.2071	2.1260	2.4717	2.0338	2.3568	2.3887	2.3983	2.1721	AVRG		0.44066		2.2693	7	15	0.05	0.99	
Bromobenzene		0.5146	0.5086	0.5733	0.5412	0.5790	0.6368	0.6469	0.6129	AVRG		1.73410		0.5767	9	15	0.05	0.99	
1,3,5-Trimethylbenzene		1.4105	1.3495	1.5922	1.3874	1.6198	1.6367	1.6110	1.5139	AVRG		0.66001		1.5151	8	15	0.05	0.99	
2-Chlorotoluene		1.5328	1.4871	1.7361	1.5151	1.7044	1.7164	1.6380	1.5025	AVRG		0.62342		1.6040	7	15	0.05	0.99	
4-Chlorotoluene		1.4443	1.3540	1.5007	1.3734	1.4896	1.5020	1.5743	1.5482	AVRG		0.67875		1.4733	5	15	0.05	0.99	
tert-Butylbenzene		1.1060	1.0724	1.3096	1.0653	1.2428	1.2716	1.4035	1.4504	AVRG		0.80632		1.2402	12	15	0.05	0.99	
1,2,4-Trimethylbenzene		1.3416	1.2978	1.5253	1.3869	1.5422	1.6100	1.6535	1.6503	AVRG		0.66625		1.5009	9	15	0.05	0.99	
sec-Butylbenzene		1.6362	1.4972	1.8799	1.4663	1.8008	1.8169	2.0143	2.0769	AVRG		0.56384		1.7736	13	15	0.05	0.99	
para-Isopropyl Toluene		1.2991	1.1326	1.4371	1.1807	1.3873	1.4071	1.5446	1.5532	AVRG		0.73114		1.3677	11	15	0.05	0.99	
1,3-Dichlorobenzene		0.8666	0.8005	0.9121	0.8251	0.9211	0.9621	1.0061	1.0265	AVRG		1.09288		0.9150	9	15	0.05	0.99	
1,4-Dichlorobenzene		0.9217	0.8598	0.9785	0.8986	0.9872	0.9894	1.0175	1.0384	AVRG		1.04015		0.9614	6	15	0.05	0.99	
n-Butylbenzene		1.0671	0.9592	1.2263	0.9584	1.1904	1.2063	1.3110	1.3978	AVRG		0.85868		1.1646	14	15	0.05	0.99	
1,2-Dichlorobenzene		0.8736	0.7525	0.8745	0.8106	0.8675	0.9203	0.9581	0.9610	AVRG		1.13992		0.8773	8	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane			0.0602	0.0636	0.0672	0.0659	0.0700	0.0724	0.0709	AVRG		14.8876		0.0672	6	15	0.05	0.99	
1,2,4-Trichlorobenzene		0.3436	0.2969	0.3701	0.3184	0.3685	0.3900	0.4313	0.4484	AVRG		2.69609		0.3709	14	15	0.05	0.99	
Hexachlorobutadiene		0.1262	0.1215	0.1566	0.1157	0.1523	0.1528			AVRG		7.27251		0.1375	13	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene			0.6149	0.7037	0.6798	0.7077	0.7857	0.8635	0.8816	AVRG		1.33667		0.7481	13	15	0.05	0.99	
1,2,3-Trichlorobenzene		0.3003	0.2929	0.3371	0.3067	0.3406	0.3621	0.3984	0.4145	AVRG		2.90637		0.3441	13	15	0.05	0.99	
Dibromofluoromethane	0.5299	0.5246	0.5378	0.5273	0.5323	0.5390	0.5263	0.5132	0.5050	AVRG		1.90056		0.5262	2	15	0.05	0.99	
1,2-Dichloroethane-d4	0.2886	0.2795	0.2952	0.2920	0.2880	0.2917	0.2800	0.2753	0.2502	AVRG		3.54248		0.2823	5	15	0.05	0.99	
Toluene-d8	1.4087	1.4490	1.4635	1.4829	1.4376	1.4975	1.4267	1.4462	1.3959	AVRG		0.69189		1.4453	2	15	0.05	0.99	
Bromofluorobenzene	1.0360	1.0507	1.0535	1.0410	1.0269	1.0059	0.9627	0.9589	1.0071	AVRG		0.98439		1.0159	3	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Freon 12			1.0000	-7	2.0000	-6	5.0000	5	10.000	-8	20.000	11	50.000	8	75.000	3	100.00	-5
Chloromethane	0.5000	13	1.0000	3	2.0000	9	5.0000	8	10.000	3	20.000	-5	50.000	-7	75.000	-10	100.00	-13
Vinyl Chloride	0.5000	-5	1.0000	-7	2.0000	1	5.0000	6	10.000	6	20.000	3	50.000	3	75.000	-3	100.00	-6
Bromomethane			1.0000	-3	2.0000	7	5.0000	-5	10.000	-2	20.000	0	50.000	2	75.000	0	100.00	1
Chloroethane			1.0000	1	2.0000	4	5.0000	4	10.000	7	20.000	-1	50.000	-2	75.000	-4	100.00	-9
Trichlorofluoromethane			1.0000	-1	2.0000	-1	5.0000	0	10.000	-6	20.000	4	50.000	2	75.000	3	100.00	-2
Acetone							5.0000	6	10.000	7	20.000	-5	50.000	-4	75.000	0	100.00	-5
Freon 113			0.5000	0	2.0000	19	5.0000	**35**	10.000	**-24**	20.000	1	50.000	0	75.000	0	100.00	0
1,1-Dichloroethene			0.5000	-1	2.0000	7	5.0000	5	10.000	-14	20.000	-8	50.000	-3	75.000	3	100.00	10
Methylene Chloride			0.5000	-6	2.0000	5	5.0000	0	10.000	-2	20.000	0	50.000	-1	75.000	2	100.00	1
Carbon Disulfide			0.5000	2	2.0000	1	5.0000	3	10.000	-10	20.000	-3	50.000	-2	75.000	2	100.00	6
MTBE			0.5000	-4	2.0000	5	5.0000	-2	10.000	1	20.000	1	50.000	-1	75.000	3	100.00	-3
trans-1,2-Dichloroethene			0.5000	1	2.0000	1	5.0000	2	10.000	-6	20.000	-3	50.000	-3	75.000	3	100.00	4
Vinyl Acetate					2.0000	12	5.0000	-4	10.000	5	20.000	4	50.000	-2	75.000	-3	100.00	-11
1,1-Dichloroethane			0.5000	-1	2.0000	3	5.0000	1	10.000	-2	20.000	1	50.000	0	75.000	0	100.00	-2
2-Butanone					2.0000	2	5.0000	-3	10.000	6	20.000	-3	50.000	-1	75.000	2	100.00	-3
2,2-Dichloropropane			0.5000	-1	2.0000	4	5.0000	8	10.000	-7	20.000	-2	50.000	-3	75.000	-2	100.00	1
cis-1,2-Dichloroethene			0.5000	-7	2.0000	0	5.0000	-1	10.000	-5	20.000	1	50.000	2	75.000	5	100.00	5
Chloroform			0.5000	2	2.0000	4	5.0000	3	10.000	-4	20.000	1	50.000	-1	75.000	-1	100.00	-4
Bromochloromethane			0.5000	-7	2.0000	-2	5.0000	-3	10.000	-1	20.000	3	50.000	4	75.000	4	100.00	3
1,1,1-Trichloroethane			0.5000	0	2.0000	3	5.0000	10	10.000	-9	20.000	-1	50.000	-2	75.000	0	100.00	-1
1,1-Dichloropropene			0.5000	2	2.0000	-1	5.0000	6	10.000	-13	20.000	-5	50.000	-2	75.000	6	100.00	6
Carbon Tetrachloride			0.5000	3	2.0000	-2	5.0000	8	10.000	-18	20.000	-6	50.000	-2	75.000	7	100.00	11
1,2-Dichloroethane			0.5000	4	2.0000	4	5.0000	1	10.000	-1	20.000	-1	50.000	-1	75.000	-1	100.00	-6
Benzene			0.5000	-1	2.0000	1	5.0000	2	10.000	-4	20.000	0	50.000	1	75.000	2	100.00	-2
Trichloroethene			0.5000	-4	2.0000	-4	5.0000	3	10.000	-8	20.000	-2	50.000	2	75.000	7	100.00	7
1,2-Dichloropropane			0.5000	-7	2.0000	-1	5.0000	-1	10.000	-4	20.000	0	50.000	4	75.000	7	100.00	2
Bromodichloromethane			0.5000	-16	2.0000	0	5.0000	-2	10.000	-1	20.000	1	50.000	6	75.000	8	100.00	3
Dibromomethane			0.5000	-16	2.0000	1	5.0000	2	10.000	-2	20.000	1	50.000	4	75.000	8	100.00	2
4-Methyl-2-Pentanone					2.0000	-1	5.0000	-4	10.000	0	20.000	-2	50.000	2	75.000	8	100.00	-2
cis-1,3-Dichloropropene			0.5000	-9	2.0000	-5	5.0000	0	10.000	-3	20.000	1	50.000	4	75.000	7	100.00	4
Toluene			0.5000	-3	2.0000	-6	5.0000	2	10.000	-6	20.000	2	50.000	3	75.000	6	100.00	1
trans-1,3-Dichloropropene			0.5000	-11	2.0000	-6	5.0000	-3	10.000	-2	20.000	3	50.000	6	75.000	9	100.00	3
1,1,2-Trichloroethane			0.5000	-15	2.0000	0	5.0000	1	10.000	-4	20.000	0	50.000	3	75.000	9	100.00	6
2-Hexanone					2.0000	-8	5.0000	-9	10.000	-4	20.000	1	50.000	5	75.000	11	100.00	4
1,3-Dichloropropane			0.5000	-7	2.0000	-1	5.0000	0	10.000	-5	20.000	1	50.000	3	75.000	7	100.00	2
Tetrachloroethene			0.5000	-8	2.0000	-6	5.0000	5	10.000	-18	20.000	-3	50.000	0	75.000	10	100.00	19
Dibromochloromethane			0.5000	-19	2.0000	-10	5.0000	-3	10.000	-3	20.000	3	50.000	8	75.000	13	100.00	12
1,2-Dibromoethane			0.5000	-18	2.0000	-3	5.0000	0	10.000	-4	20.000	0	50.000	5	75.000	11	100.00	8
Chlorobenzene			0.5000	-3	2.0000	-8	5.0000	1	10.000	-6	20.000	1	50.000	4	75.000	5	100.00	6
1,1,1,2-Tetrachloroethane			0.5000	**-21**	2.0000	-9	5.0000	0	10.000	-3	20.000	3	50.000	7	75.000	12	100.00	10
Ethylbenzene			0.5000	-8	2.0000	-7	5.0000	4	10.000	-7	20.000	5	50.000	2	75.000	8	100.00	5

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
m,p-Xylenes	0.5000	-3	1.0000	-14	4.0000	-9	10.000	3	20.000	-6	40.000	9	100.00	8	150.00	10	200.00	1
o-Xylene			0.5000	-19	2.0000	-14	5.0000	1	10.000	-9	20.000	5	50.000	11	75.000	15	100.00	10
Styrene			0.5000	**-22**	2.0000	-13	5.0000	0	10.000	-8	20.000	7	50.000	13	75.000	13	100.00	10
Bromoform			0.5000	-19	2.0000	-10	5.0000	-2	10.000	1	20.000	11	50.000	19				
Isopropylbenzene			0.5000	-8	2.0000	-7	5.0000	4	10.000	-11	20.000	2	50.000	3	75.000	8	100.00	9
1,1,2,2-Tetrachloroethane			0.5000	2	2.0000	-6	5.0000	-1	10.000	0	20.000	-3	50.000	1	75.000	5	100.00	1
1,2,3-Trichloropropane			0.5000	-15	2.0000	3	5.0000	1	10.000	4	20.000	-2	50.000	3	75.000	5	100.00	2
Propylbenzene			0.5000	-3	2.0000	-6	5.0000	9	10.000	-10	20.000	4	50.000	5	75.000	6	100.00	-4
Bromobenzene			0.5000	-11	2.0000	-12	5.0000	-1	10.000	-6	20.000	0	50.000	10	75.000	12	100.00	6
1,3,5-Trimethylbenzene			0.5000	-7	2.0000	-11	5.0000	5	10.000	-8	20.000	7	50.000	8	75.000	6	100.00	0
2-Chlorotoluene			0.5000	-4	2.0000	-7	5.0000	8	10.000	-6	20.000	6	50.000	7	75.000	2	100.00	-6
4-Chlorotoluene			0.5000	-2	2.0000	-8	5.0000	2	10.000	-7	20.000	1	50.000	2	75.000	7	100.00	5
tert-Butylbenzene			0.5000	-11	2.0000	-14	5.0000	6	10.000	-14	20.000	0	50.000	3	75.000	13	100.00	17
1,2,4-Trimethylbenzene			0.5000	-11	2.0000	-14	5.0000	2	10.000	-8	20.000	3	50.000	7	75.000	10	100.00	10
sec-Butylbenzene			0.5000	-8	2.0000	-16	5.0000	6	10.000	-17	20.000	2	50.000	2	75.000	14	100.00	17
para-Isopropyl Toluene			0.5000	-5	2.0000	-17	5.0000	5	10.000	-14	20.000	1	50.000	3	75.000	13	100.00	14
1,3-Dichlorobenzene			0.5000	-5	2.0000	-13	5.0000	0	10.000	-10	20.000	1	50.000	5	75.000	10	100.00	12
1,4-Dichlorobenzene			0.5000	-4	2.0000	-11	5.0000	2	10.000	-7	20.000	3	50.000	3	75.000	6	100.00	8
n-Butylbenzene			0.5000	-8	2.0000	-18	5.0000	5	10.000	-18	20.000	2	50.000	4	75.000	13	100.00	20
1,2-Dichlorobenzene			0.5000	0	2.0000	-14	5.0000	0	10.000	-8	20.000	-1	50.000	5	75.000	9	100.00	10
1,2-Dibromo-3-Chloropropane					2.0000	-10	5.0000	-5	10.000	0	20.000	-2	50.000	4	75.000	8	100.00	6
1,2,4-Trichlorobenzene			0.5000	-7	2.0000	-20	5.0000	0	10.000	-14	20.000	-1	50.000	5	75.000	16	100.00	**21**
Hexachlorobutadiene			0.5000	-8	2.0000	-12	5.0000	14	10.000	-16	20.000	11	50.000	11				
Naphthalene					2.0000	-18	5.0000	-6	10.000	-9	20.000	-5	50.000	5	75.000	15	100.00	18
1,2,3-Trichlorobenzene			0.5000	-13	2.0000	-15	5.0000	-2	10.000	-11	20.000	-1	50.000	5	75.000	16	100.00	20
Dibromofluoromethane	50.000	1	50.000	0	50.000	2	50.000	0	50.000	1	50.000	2	50.000	0	50.000	-2	50.000	-4
1,2-Dichloroethane-d4	50.000	2	50.000	-1	50.000	5	50.000	3	50.000	2	50.000	3	50.000	-1	50.000	-2	50.000	-11
Toluene-d8	50.000	-3	50.000	0	50.000	1	50.000	3	50.000	-1	50.000	4	50.000	-1	50.000	0	50.000	-3
Bromofluorobenzene	50.000	2	50.000	3	50.000	4	50.000	2	50.000	1	50.000	-1	50.000	-5	50.000	-6	50.000	-1

TEW 12/05/13 [Freon 12]: Combined split peak in multiple levels.

TEW 12/05/13 [Chloromethane]: Combined split peak in multiple levels.

TEW 12/05/13 [Vinyl Chloride]: Combined split peak in multiple levels.

TEW 12/05/13 [Bromomethane]: Combined split peak in multiple levels.

TEW 12/05/13 [Chloroethane]: Combined split peak in multiple levels.

TEW 12/05/13 [Ethanol]: Combined split peak in multiple levels.

BO 12/06/13 [tert-Butyl Alcohol (TBA)]: Combined split peak1PPB (il506).

Analyst: BO Date: 12/06/13 Reviewer: LW Date: 12/06/13

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; QUAD=Quadratic regression

483488653001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 251273 MSVOA Water
EPA 8260B

Inst : MSVOA09 Name : 826GOX9W
Calnum : 483488653001 Cal Date : 05-DEC-2013 Type : WATER

ICV 483488653014 (il514 05-DEC-2013) stds: S23488 (10000X), S23755 (5000X)
ICV 483488653016 (il516 05-DEC-2013) stds: S23599 (10000X), S23592 (10000X), S23764 (10000X), S23755 (5000X)

Analyte	ICV Seqnum	Spiked	Quant	Units	%D	Max	Flags
Freon 12	483488653014	20.00	17.72	ug/L	-11	30	
Chloromethane	483488653014	20.00	17.31	ug/L	-13	30	
Vinyl Chloride	483488653014	20.00	16.99	ug/L	-15	20	
Bromomethane	483488653014	20.00	15.88	ug/L	**-21**	30	!v-
Chloroethane	483488653014	20.00	18.03	ug/L	-10	30	
Trichlorofluoromethane	483488653014	20.00	16.54	ug/L	-17	30	
Acetone	483488653016	25.00	27.41	ug/L	10	40	
Freon 113	483488653016	25.00	26.24	ug/L	5	30	
1,1-Dichloroethene	483488653016	25.00	23.85	ug/L	-5	20	
Methylene Chloride	483488653016	25.00	24.61	ug/L	-2	30	
Carbon Disulfide	483488653016	25.00	24.66	ug/L	-1	30	
MTBE	483488653016	25.00	23.00	ug/L	-8	30	
trans-1,2-Dichloroethene	483488653016	25.00	24.91	ug/L	0	30	
Vinyl Acetate	483488653016	25.00	24.23	ug/L	-3	40	
1,1-Dichloroethane	483488653016	25.00	22.39	ug/L	-10	30	
2-Butanone	483488653016	25.00	25.72	ug/L	3	40	
2,2-Dichloropropane	483488653016	25.00	22.02	ug/L	-12	30	
cis-1,2-Dichloroethene	483488653016	25.00	25.86	ug/L	3	30	
Chloroform	483488653016	25.00	22.96	ug/L	-8	20	
Bromochloromethane	483488653016	25.00	23.84	ug/L	-5	30	
1,1,1-Trichloroethane	483488653016	25.00	24.27	ug/L	-3	30	
1,1-Dichloropropene	483488653016	25.00	27.70	ug/L	11	30	
Carbon Tetrachloride	483488653016	25.00	24.71	ug/L	-1	30	
1,2-Dichloroethane	483488653016	25.00	25.12	ug/L	0	30	
Benzene	483488653016	25.00	25.28	ug/L	1	30	
Trichloroethene	483488653016	25.00	27.32	ug/L	9	30	
1,2-Dichloropropane	483488653016	25.00	24.57	ug/L	-2	20	
Bromodichloromethane	483488653016	25.00	25.12	ug/L	0	30	
Dibromomethane	483488653016	25.00	23.59	ug/L	-6	30	
4-Methyl-2-Pentanone	483488653016	25.00	24.42	ug/L	-2	40	
cis-1,3-Dichloropropene	483488653016	25.00	27.58	ug/L	10	30	
Toluene	483488653016	25.00	26.60	ug/L	6	20	
trans-1,3-Dichloropropene	483488653016	25.00	26.46	ug/L	6	30	
1,1,2-Trichloroethane	483488653016	25.00	26.01	ug/L	4	30	
2-Hexanone	483488653016	25.00	27.55	ug/L	10	40	
1,3-Dichloropropane	483488653016	25.00	26.22	ug/L	5	30	
Tetrachloroethene	483488653016	25.00	25.43	ug/L	2	30	
Dibromochloromethane	483488653016	25.00	26.60	ug/L	6	30	
1,2-Dibromoethane	483488653016	25.00	27.25	ug/L	9	30	
Chlorobenzene	483488653016	25.00	27.45	ug/L	10	30	
1,1,1,2-Tetrachloroethane	483488653016	25.00	27.16	ug/L	9	30	
Ethylbenzene	483488653016	25.00	27.38	ug/L	10	20	
m,p-Xylenes	483488653016	50.00	59.59	ug/L	19	30	
o-Xylene	483488653016	25.00	29.75	ug/L	19	30	
Styrene	483488653016	25.00	28.69	ug/L	15	30	
Bromoform	483488653016	25.00	26.31	ug/L	5	30	
Isopropylbenzene	483488653016	25.00	28.71	ug/L	15	30	

Analyte	ICV Seqnum	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	483488653016	25.00	25.15	ug/L	1	30	
1,2,3-Trichloropropane	483488653016	25.00	25.53	ug/L	2	30	
Propylbenzene	483488653016	25.00	29.04	ug/L	16	30	
Bromobenzene	483488653016	25.00	27.07	ug/L	8	30	
1,3,5-Trimethylbenzene	483488653016	25.00	28.96	ug/L	16	30	
2-Chlorotoluene	483488653016	25.00	28.95	ug/L	16	30	
4-Chlorotoluene	483488653016	25.00	27.60	ug/L	10	30	
tert-Butylbenzene	483488653016	25.00	29.98	ug/L	20	30	
1,2,4-Trimethylbenzene	483488653016	25.00	27.54	ug/L	10	30	
sec-Butylbenzene	483488653016	25.00	30.42	ug/L	**22**	30	!v+
para-Isopropyl Toluene	483488653016	25.00	27.03	ug/L	8	30	
1,3-Dichlorobenzene	483488653016	25.00	27.27	ug/L	9	30	
1,4-Dichlorobenzene	483488653016	25.00	26.57	ug/L	6	30	
n-Butylbenzene	483488653016	25.00	28.78	ug/L	15	30	
1,2-Dichlorobenzene	483488653016	25.00	27.57	ug/L	10	30	
1,2-Dibromo-3-Chloropropane	483488653016	25.00	25.39	ug/L	2	30	
1,2,4-Trichlorobenzene	483488653016	25.00	26.95	ug/L	8	30	
Hexachlorobutadiene	483488653016	25.00	32.76	ug/L	**31**	30	v+
Naphthalene	483488653016	25.00	26.47	ug/L	6	30	
1,2,3-Trichlorobenzene	483488653016	25.00	27.11	ug/L	8	30	

483488653014: Analyst: BO Date: 12/06/13 Reviewer: LW Date: 12/06/13
483488653016: Analyst: BO Date: 12/06/13 Reviewer: LW Date: 12/06/13

!=warning +=high bias -=low bias v=ICV

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 251273 MSVOA Water: EPA 8260B

Inst : MSVOA11 Name : 8260GX11
Calnum : 833457042001 Date : 13-NOV-2013 14:14 Type : WATER
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	kkd09	833457042009	0.25/0.5PPB	13-NOV-2013 14:14	S23611 (2000000X), S21354 (1000000X), S22433 (2000000X), S23518 (2000000X), S23550 (2500X)
L2	kkd10	833457042010	0.5/1PPB	13-NOV-2013 14:41	S23611 (1000000X), S21354 (500000X), S22433 (1000000X), S23518 (1000000X), S23550 (2500X)
L3	kkd11	833457042011	2PPB	13-NOV-2013 15:09	S23611 (250000X), S21354 (250000X), S22433 (500000X), S23518 (250000X), S23550 (2500X)
L4	kkd12	833457042012	5PPB	13-NOV-2013 15:37	S23611 (100000X), S21354 (100000X), S22433 (200000X), S23518 (100000X), S23550 (2500X)
L5	kkd13	833457042013	10PPB	13-NOV-2013 16:05	S23611 (50000X), S21354 (50000X), S22433 (100000X), S23518 (50000X), S23550 (2500X)
L6	kkd14	833457042014	20PPB	13-NOV-2013 16:32	S23611 (25000X), S21354 (25000X), S22433 (50000X), S23518 (25000X), S23550 (2500X)
L7	kkd15	833457042015	50PPB	13-NOV-2013 17:00	S23611 (10000X), S21354 (10000X), S22433 (20000X), S23518 (10000X), S23550 (2500X)
L8	kkd16	833457042016	75PPB	13-NOV-2013 17:28	S23611 (6667X), S21354 (6667X), S22433 (13330X), S23518 (6667X), S23550 (2500X)
L9	kkd17	833457042017	100PPB	13-NOV-2013 17:56	S23611 (5000X), S21354 (5000X), S22433 (10000X), S23518 (5000X), S23550 (2500X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.3946	0.5006	0.5179	0.5202	0.5109	0.4888	0.5093	0.5119	AVRG		2.02318		0.4943	8	15	0.05	0.99	
Chloromethane	0.5051	0.5651	0.6147	0.5338	0.5461	0.5196	0.4807	0.5073	0.5151	AVRG		1.87984		0.5320	7	15	0.10	0.99	
Vinyl Chloride	0.4615	0.5448	0.6194	0.5836	0.5832	0.5569	0.5241	0.5485	0.5503	AVRG		1.81000		0.5525	8	15	0.05	0.99	
Bromomethane		0.2223	0.2677	0.2615	0.2732	0.2657	0.2675	0.2927	0.3012	AVRG		3.71771		0.2690	9	15	0.05	0.99	
Chloroethane		0.3114	0.3410	0.3194	0.3269	0.3100	0.2894	0.3003	0.3017	AVRG		3.19981		0.3125	5	15	0.05	0.99	
Trichlorofluoromethane		0.6667	0.7208	0.7249	0.7069	0.6924	0.6664	0.6926	0.6929	AVRG		1.43794		0.6954	3	15	0.05	0.99	
Acetone			0.2032	0.2061	0.2046	0.1848	0.1598	0.1668	0.1768	AVRG		5.37556		0.1860	10	15	0.05	0.99	
Freon 113			0.3575	0.3742	0.3030	0.2473	0.3035	0.3708	0.2962	AVRG		3.10767		0.3218	15	15	0.05	0.99	
1,1-Dichloroethene		0.2820	0.3805	0.3655	0.3319	0.2967	0.3099	0.3584	0.3188	AVRG		3.02595		0.3305	11	15	0.05	0.99	
Methylene Chloride		0.4248	0.4482	0.4488	0.4611	0.4291	0.3996	0.4418	0.4254	AVRG		2.29966		0.4348	4	15	0.05	0.99	
Carbon Disulfide		1.0148	1.1980	1.1262	1.0925	0.9873	0.9801	1.1299	1.0263	AVRG		0.93510		1.0694	7	15	0.05	0.99	
MTBE		1.4175	1.3426	1.3715	1.4038	1.3207	1.2312	1.3464	1.3344	AVRG		0.74293		1.3460	4	15	0.05	0.99	
trans-1,2-Dichloroethene		0.4165	0.4479	0.4271	0.4320	0.4033	0.3848	0.4347	0.4078	AVRG		2.38513		0.4193	5	15	0.05	0.99	
Vinyl Acetate			0.7417	0.7206	0.7419	0.6685	0.6098	0.6540	0.6555	AVRG		1.46080		0.6846	7	15	0.05	0.99	
1,1-Dichloroethane		0.8119	0.8562	0.8385	0.8536	0.8013	0.7516	0.8350	0.7976	AVRG		1.22216		0.8182	4	15	0.10	0.99	
2-Butanone			0.2406	0.2565	0.2625	0.2385	0.2180	0.2285	0.2410	AVRG		4.15241		0.2408	6	15	0.05	0.99	
2,2-Dichloropropane		0.6538	0.7203	0.6849	0.6663	0.6083	0.5941	0.6654	0.6046	AVRG		1.53913		0.6497	7	15	0.05	0.99	
cis-1,2-Dichloroethene		0.5387	0.5120	0.5058	0.5104	0.4874	0.4543	0.5092	0.4874	AVRG		1.99736		0.5007	5	15	0.05	0.99	
Chloroform		0.9583	0.8703	0.8472	0.8591	0.8180	0.7597	0.8346	0.7953	AVRG		1.18648		0.8428	7	15	0.05	0.99	
Bromochloromethane		0.2111	0.2405	0.2438	0.2559	0.2391	0.2223	0.2459	0.2312	AVRG		4.23314		0.2362	6	15	0.05	0.99	
1,1,1-Trichloroethane		0.6730	0.7758	0.7393	0.7041	0.6415	0.6431	0.7271	0.6505	AVRG		1.44031		0.6943	7	15	0.05	0.99	
1,1-Dichloropropene		0.3295	0.4088	0.4006	0.3764	0.3458	0.3532	0.4046	0.3588	AVRG		2.68677		0.3722	8	15	0.05	0.99	
Carbon Tetrachloride		0.3120	0.4023	0.4029	0.3727	0.3353	0.3551	0.4122	0.3555	AVRG		2.71380		0.3685	10	15	0.05	0.99	
1,2-Dichloroethane		0.4159	0.4130	0.4158	0.4257	0.4039	0.3697	0.4001	0.3877	AVRG		2.47523		0.4040	4	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		1.2454	1.2943	1.2907	1.3115	1.2578	1.1774	1.3014	1.2384	AVRG		0.79075		1.2646	4	15	0.05	0.99	
Trichloroethene		0.3124	0.3437	0.3399	0.3431	0.3256	0.3104	0.3510	0.3247	AVRG		3.01799		0.3313	5	15	0.05	0.99	
1,2-Dichloropropane		0.3362	0.3576	0.3507	0.3619	0.3455	0.3221	0.3602	0.3425	AVRG		2.88119		0.3471	4	15	0.05	0.99	
Bromodichloromethane		0.4218	0.4276	0.4353	0.4419	0.4308	0.3991	0.4426	0.4282	AVRG		2.33421		0.4284	3	15	0.05	0.99	
Dibromomethane		0.1950	0.1964	0.1941	0.1994	0.1902	0.1786	0.1956	0.1911	AVRG		5.19314		0.1926	3	15	0.05	0.99	
4-Methyl-2-Pentanone			0.2991	0.3187	0.3262	0.3103	0.2882	0.3035	0.3164	AVRG		3.23712		0.3089	4	15	0.05	0.99	
cis-1,3-Dichloropropene		0.5145	0.5012	0.5113	0.5346	0.5216	0.4866	0.5376	0.5192	AVRG		1.93870		0.5158	3	15	0.05	0.99	
Toluene		0.9278	0.9623	0.9298	0.9372	0.8923	0.8275	0.9200	0.8736	AVRG		1.10036		0.9088	5	15	0.05	0.99	
trans-1,3-Dichloropropene		0.5426	0.5381	0.5391	0.5619	0.5379	0.4990	0.5440	0.5344	AVRG		1.86168		0.5371	3	15	0.05	0.99	
1,1,2-Trichloroethane		0.1799	0.1831	0.1884	0.1932	0.1807	0.1706	0.1843	0.1824	AVRG		5.46958		0.1828	4	15	0.05	0.99	
2-Hexanone			0.2565	0.2767	0.2803	0.2640	0.2425	0.2527	0.2672	AVRG		3.80435		0.2629	5	15	0.05	0.99	
1,3-Dichloropropane		0.5683	0.5564	0.5513	0.5752	0.5373	0.5041	0.5453	0.5378	AVRG		1.82828		0.5470	4	15	0.05	0.99	
Tetrachloroethene		0.3183	0.3921	0.3901	0.3645	0.3333	0.3383	0.3881	0.3433	AVRG		2.78951		0.3585	8	15	0.05	0.99	
Dibromochloromethane		0.3783	0.3716	0.3874	0.3900	0.3769	0.3515	0.3854	0.3802	AVRG		2.64784		0.3777	3	15	0.05	0.99	
1,2-Dibromoethane		0.3173	0.3200	0.3433	0.3486	0.3273	0.3057	0.3310	0.3305	AVRG		3.04909		0.3280	4	15	0.05	0.99	
Chlorobenzene		1.0447	1.0698	1.0714	1.0657	1.0275	0.9503	1.0383	0.9925	AVRG		0.96848		1.0325	4	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.3626	0.3665	0.3579	0.3750	0.3543	0.3320	0.3630	0.3468	AVRG		2.79924		0.3572	4	15	0.05	0.99	
Ethylbenzene		1.7451	1.8972	1.8919	1.8597	1.7781	1.6636	1.8533	1.7162	AVRG		0.55536		1.8006	5	15	0.05	0.99	
m,p-Xylenes	0.6246	0.6609	0.7150	0.7125	0.7159	0.6763	0.6402	0.7069	0.6551	AVRG		1.47364		0.6786	5	15	0.05	0.99	
o-Xylene		0.6413	0.6911	0.6815	0.6833	0.6671	0.6246	0.6893	0.6495	AVRG		1.50158		0.6660	4	15	0.05	0.99	
Styrene		1.1432	1.1373	1.1731	1.2090	1.1640	1.0917	1.2017	1.1411	AVRG		0.86383		1.1576	3	15	0.05	0.99	
Bromoform		0.2470	0.2519	0.2633	0.2715	0.2642	0.2495	0.2706	0.2727	AVRG		3.82676		0.2613	4	15	0.10	0.99	
Isopropylbenzene		3.3067	3.6672	3.6139	3.5095	3.3357	3.2410	3.6550	3.3176	AVRG		0.28937		3.4558	5	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		0.9190	0.8483	0.8403	0.8672	0.8015	0.7294	0.7793	0.8050	AVRG		1.21396		0.8238	7	15	0.30	0.99	
1,2,3-Trichloropropane		0.9894	0.8544	0.8336	0.8482	0.8012	0.7291	0.7737	0.7900	AVRG		1.20853		0.8275	9	15	0.05	0.99	
Propylbenzene		4.1437	4.5046	4.3559	4.2171	3.9881	3.8644	4.3723	3.9642	AVRG		0.23945		4.1763	5	15	0.05	0.99	
Bromobenzene		0.8944	0.9297	0.9178	0.9165	0.8949	0.8214	0.9001	0.8630	AVRG		1.12080		0.8922	4	15	0.05	0.99	
1,3,5-Trimethylbenzene		2.9905	3.0878	3.0152	3.0225	2.9027	2.7568	3.0725	2.8427	AVRG		0.33768		2.9614	4	15	0.05	0.99	
2-Chlorotoluene		2.8352	2.9045	2.8298	2.8758	2.7696	2.5522	2.8241	2.6560	AVRG		0.35959		2.7809	4	15	0.05	0.99	
4-Chlorotoluene		2.7492	2.6715	2.6385	2.6565	2.5842	2.3717	2.6077	2.4834	AVRG		0.38531		2.5953	5	15	0.05	0.99	
tert-Butylbenzene		2.4237	2.7737	2.6740	2.5444	2.4007	2.3605	2.6936	2.4101	AVRG		0.39446		2.5351	6	15	0.05	0.99	
1,2,4-Trimethylbenzene		2.9339	3.0407	2.9602	3.0443	2.9185	2.7646	3.0614	2.8854	AVRG		0.33885		2.9511	3	15	0.05	0.99	
sec-Butylbenzene		3.4261	4.0401	3.9481	3.6545	3.4075	3.4957	4.0123	3.5024	AVRG		0.27131		3.6859	7	15	0.05	0.99	
para-Isopropyl Toluene		2.9744	3.2450	3.1933	3.0543	2.8405	2.8353	3.2363	2.8885	AVRG		0.32966		3.0335	6	15	0.05	0.99	
1,3-Dichlorobenzene		1.7155	1.6717	1.6584	1.6861	1.6236	1.5048	1.6538	1.5654	AVRG		0.61166		1.6349	4	15	0.05	0.99	
1,4-Dichlorobenzene		1.7927	1.7766	1.6958	1.7275	1.6612	1.5155	1.6662	1.5826	AVRG		0.59621		1.6773	6	15	0.05	0.99	
n-Butylbenzene		2.5883	2.9713	2.8333	2.6870	2.4717	2.5442	2.9239	2.6208	AVRG		0.36968		2.7051	7	15	0.05	0.99	
1,2-Dichlorobenzene		1.6303	1.5772	1.5851	1.5965	1.5531	1.4334	1.5878	1.5184	AVRG		0.64094		1.5602	4	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.1790	0.1658	0.1731	0.1710	0.1535	0.1407	0.1516	0.1584	AVRG		6.18696		0.1616	8	15	0.05	0.99	
1,2,4-Trichlorobenzene		0.9345	0.9315	0.8751	0.8998	0.8546	0.8217	0.9234	0.9029	AVRG		1.11990		0.8929	4	15	0.05	0.99	
Hexachlorobutadiene		0.4987	0.5927	0.5419	0.5014	0.4614	0.5008	0.5780	0.5041	AVRG		1.91438		0.5224	9	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene		2.0288	1.8405	1.8367	1.9226	1.7687	1.7179	1.8604	1.9597	AVRG		0.53564		1.8669	5	15	0.05	0.99	
1,2,3-Trichlorobenzene		0.6972	0.6665	0.6811	0.7115	0.6668	0.6572	0.7271	0.7286	AVRG		1.44509		0.6920	4	15	0.05	0.99	
Dibromofluoromethane	0.4540	0.4584	0.4554	0.4578	0.4516	0.4512	0.4494	0.4518	0.4467	AVRG		2.20792		0.4529	1	15	0.05	0.99	
1,2-Dichloroethane-d4	0.3660	0.3679	0.3643	0.3633	0.3570	0.3607	0.3572	0.3623	0.3545	AVRG		2.76651		0.3615	1	15	0.05	0.99	
Toluene-d8	1.4313	1.4141	1.4162	1.4269	1.4232	1.4162	1.4082	1.4019	1.4107	AVRG		0.70595		1.4165	1	15	0.05	0.99	
Bromofluorobenzene	1.0163	1.0181	1.0035	1.0082	1.0040	1.0016	0.9948	0.9956	1.0045	AVRG		0.99486		1.0052	1	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Freon 12			1.0000	-20	2.0000	1	5.0000	5	10.000	5	20.000	3	50.000	-1	75.000	3	100.00	4
Chloromethane	0.5000	-5	1.0000	6	2.0000	16	5.0000	0	10.000	3	20.000	-2	50.000	-10	75.000	-5	100.00	-3
Vinyl Chloride	0.5000	-16	1.0000	-1	2.0000	12	5.0000	6	10.000	6	20.000	1	50.000	-5	75.000	-1	100.00	0
Bromomethane			1.0000	-17	2.0000	0	5.0000	-3	10.000	2	20.000	-1	50.000	-1	75.000	9	100.00	12
Chloroethane			1.0000	0	2.0000	9	5.0000	2	10.000	5	20.000	-1	50.000	-7	75.000	-4	100.00	-3
Trichlorofluoromethane			1.0000	-4	2.0000	4	5.0000	4	10.000	2	20.000	0	50.000	-4	75.000	0	100.00	0
Acetone					2.0000	9	5.0000	11	10.000	10	20.000	-1	50.000	-14	75.000	-10	100.00	-5
Freon 113					2.0000	11	5.0000	16	10.000	-6	20.000	**-23**	50.000	-6	75.000	15	100.00	-8
1,1-Dichloroethene			0.5000	-15	2.0000	15	5.0000	11	10.000	0	20.000	-10	50.000	-6	75.000	8	100.00	-4
Methylene Chloride			0.5000	-2	2.0000	3	5.0000	3	10.000	6	20.000	-1	50.000	-8	75.000	2	100.00	-2
Carbon Disulfide			0.5000	-5	2.0000	12	5.0000	5	10.000	2	20.000	-8	50.000	-8	75.000	6	100.00	-4
MTBE			0.5000	5	2.0000	0	5.0000	2	10.000	4	20.000	-2	50.000	-9	75.000	0	100.00	-1
trans-1,2-Dichloroethene			0.5000	-1	2.0000	7	5.0000	2	10.000	3	20.000	-4	50.000	-8	75.000	4	100.00	-3
Vinyl Acetate					2.0000	8	5.0000	5	10.000	8	20.000	-2	50.000	-11	75.000	-4	100.00	-4
1,1-Dichloroethane			0.5000	-1	2.0000	5	5.0000	2	10.000	4	20.000	-2	50.000	-8	75.000	2	100.00	-3
2-Butanone					2.0000	0	5.0000	7	10.000	9	20.000	-1	50.000	-9	75.000	-5	100.00	0
2,2-Dichloropropane			0.5000	1	2.0000	11	5.0000	5	10.000	3	20.000	-6	50.000	-9	75.000	2	100.00	-7
cis-1,2-Dichloroethene			0.5000	8	2.0000	2	5.0000	1	10.000	2	20.000	-3	50.000	-9	75.000	2	100.00	-3
Chloroform			0.5000	14	2.0000	3	5.0000	1	10.000	2	20.000	-3	50.000	-10	75.000	-1	100.00	-6
Bromochloromethane			0.5000	-11	2.0000	2	5.0000	3	10.000	8	20.000	1	50.000	-6	75.000	4	100.00	-2
1,1,1-Trichloroethane			0.5000	-3	2.0000	12	5.0000	6	10.000	1	20.000	-8	50.000	-7	75.000	5	100.00	-6
1,1-Dichloropropene			0.5000	-11	2.0000	10	5.0000	8	10.000	1	20.000	-7	50.000	-5	75.000	9	100.00	-4
Carbon Tetrachloride			0.5000	-15	2.0000	9	5.0000	9	10.000	1	20.000	-9	50.000	-4	75.000	12	100.00	-4
1,2-Dichloroethane			0.5000	3	2.0000	2	5.0000	3	10.000	5	20.000	0	50.000	-8	75.000	-1	100.00	-4
Benzene			0.5000	-2	2.0000	2	5.0000	2	10.000	4	20.000	-1	50.000	-7	75.000	3	100.00	-2
Trichloroethene			0.5000	-6	2.0000	4	5.0000	3	10.000	4	20.000	-2	50.000	-6	75.000	6	100.00	-2
1,2-Dichloropropane			0.5000	-3	2.0000	3	5.0000	1	10.000	4	20.000	0	50.000	-7	75.000	4	100.00	-1
Bromodichloromethane			0.5000	-2	2.0000	0	5.0000	2	10.000	3	20.000	1	50.000	-7	75.000	3	100.00	0
Dibromomethane			0.5000	1	2.0000	2	5.0000	1	10.000	4	20.000	-1	50.000	-7	75.000	2	100.00	-1
4-Methyl-2-Pentanone					2.0000	-3	5.0000	3	10.000	6	20.000	0	50.000	-7	75.000	-2	100.00	2
cis-1,3-Dichloropropene			0.5000	0	2.0000	-3	5.0000	-1	10.000	4	20.000	1	50.000	-6	75.000	4	100.00	1
Toluene			0.5000	2	2.0000	6	5.0000	2	10.000	3	20.000	-2	50.000	-9	75.000	1	100.00	-4
trans-1,3-Dichloropropene			0.5000	1	2.0000	0	5.0000	0	10.000	5	20.000	0	50.000	-7	75.000	1	100.00	-1
1,1,2-Trichloroethane			0.5000	-2	2.0000	0	5.0000	3	10.000	6	20.000	-1	50.000	-7	75.000	1	100.00	0
2-Hexanone					2.0000	-2	5.0000	5	10.000	7	20.000	0	50.000	-8	75.000	-4	100.00	2
1,3-Dichloropropane			0.5000	4	2.0000	2	5.0000	1	10.000	5	20.000	-2	50.000	-8	75.000	0	100.00	-2
Tetrachloroethene			0.5000	-11	2.0000	9	5.0000	9	10.000	2	20.000	-7	50.000	-6	75.000	8	100.00	-4
Dibromochloromethane			0.5000	0	2.0000	-2	5.0000	3	10.000	3	20.000	0	50.000	-7	75.000	2	100.00	1
1,2-Dibromoethane			0.5000	-3	2.0000	-2	5.0000	5	10.000	6	20.000	0	50.000	-7	75.000	1	100.00	1
Chlorobenzene			0.5000	1	2.0000	4	5.0000	4	10.000	3	20.000	0	50.000	-8	75.000	1	100.00	-4
1,1,1,2-Tetrachloroethane			0.5000	1	2.0000	3	5.0000	0	10.000	5	20.000	-1	50.000	-7	75.000	2	100.00	-3
Ethylbenzene			0.5000	-3	2.0000	5	5.0000	5	10.000	3	20.000	-1	50.000	-8	75.000	3	100.00	-5

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
m,p-Xylenes	0.5000	-8	1.0000	-3	4.0000	5	10.000	5	20.000	5	40.000	0	100.00	-6	150.00	4	200.00	-3
o-Xylene			0.5000	-4	2.0000	4	5.0000	2	10.000	3	20.000	0	50.000	-6	75.000	4	100.00	-2
Styrene			0.5000	-1	2.0000	-2	5.0000	1	10.000	4	20.000	1	50.000	-6	75.000	4	100.00	-1
Bromoform			0.5000	-5	2.0000	-4	5.0000	1	10.000	4	20.000	1	50.000	-5	75.000	4	100.00	4
Isopropylbenzene			0.5000	-4	2.0000	6	5.0000	5	10.000	2	20.000	-3	50.000	-6	75.000	6	100.00	-4
1,1,2,2-Tetrachloroethane			0.5000	12	2.0000	3	5.0000	2	10.000	5	20.000	-3	50.000	-11	75.000	-5	100.00	-2
1,2,3-Trichloropropane			0.5000	20	2.0000	3	5.0000	1	10.000	3	20.000	-3	50.000	-12	75.000	-6	100.00	-5
Propylbenzene			0.5000	-1	2.0000	8	5.0000	4	10.000	1	20.000	-5	50.000	-7	75.000	5	100.00	-5
Bromobenzene			0.5000	0	2.0000	4	5.0000	3	10.000	3	20.000	0	50.000	-8	75.000	1	100.00	-3
1,3,5-Trimethylbenzene			0.5000	1	2.0000	4	5.0000	2	10.000	2	20.000	-2	50.000	-7	75.000	4	100.00	-4
2-Chlorotoluene			0.5000	2	2.0000	4	5.0000	2	10.000	3	20.000	0	50.000	-8	75.000	2	100.00	-4
4-Chlorotoluene			0.5000	6	2.0000	3	5.0000	2	10.000	2	20.000	0	50.000	-9	75.000	0	100.00	-4
tert-Butylbenzene			0.5000	-4	2.0000	9	5.0000	5	10.000	0	20.000	-5	50.000	-7	75.000	6	100.00	-5
1,2,4-Trimethylbenzene			0.5000	-1	2.0000	3	5.0000	0	10.000	3	20.000	-1	50.000	-6	75.000	4	100.00	-2
sec-Butylbenzene			0.5000	-7	2.0000	10	5.0000	7	10.000	-1	20.000	-8	50.000	-5	75.000	9	100.00	-5
para-Isopropyl Toluene			0.5000	-2	2.0000	7	5.0000	5	10.000	1	20.000	-6	50.000	-7	75.000	7	100.00	-5
1,3-Dichlorobenzene			0.5000	5	2.0000	2	5.0000	1	10.000	3	20.000	-1	50.000	-8	75.000	1	100.00	-4
1,4-Dichlorobenzene			0.5000	7	2.0000	6	5.0000	1	10.000	3	20.000	-1	50.000	-10	75.000	-1	100.00	-6
n-Butylbenzene			0.5000	-4	2.0000	10	5.0000	5	10.000	-1	20.000	-9	50.000	-6	75.000	8	100.00	-3
1,2-Dichlorobenzene			0.5000	4	2.0000	1	5.0000	2	10.000	2	20.000	0	50.000	-8	75.000	2	100.00	-3
1,2-Dibromo-3-Chloropropane			0.5000	11	2.0000	3	5.0000	7	10.000	6	20.000	-5	50.000	-13	75.000	-6	100.00	-2
1,2,4-Trichlorobenzene			0.5000	5	2.0000	4	5.0000	-2	10.000	1	20.000	-4	50.000	-8	75.000	3	100.00	1
Hexachlorobutadiene			0.5000	-5	2.0000	13	5.0000	4	10.000	-4	20.000	-12	50.000	-4	75.000	11	100.00	-3
Naphthalene			0.5000	9	2.0000	-1	5.0000	-2	10.000	3	20.000	-5	50.000	-8	75.000	0	100.00	5
1,2,3-Trichlorobenzene			0.5000	1	2.0000	-4	5.0000	-2	10.000	3	20.000	-4	50.000	-5	75.000	5	100.00	5
Dibromofluoromethane	50.000	0	50.000	1	50.000	1	50.000	1	50.000	0	50.000	0	50.000	-1	50.000	0	50.000	-1
1,2-Dichloroethane-d4	50.000	1	50.000	2	50.000	1	50.000	1	50.000	-1	50.000	0	50.000	-1	50.000	0	50.000	-2
Toluene-d8	50.000	1	50.000	0	50.000	0	50.000	1	50.000	0	50.000	0	50.000	-1	50.000	-1	50.000	0
Bromofluorobenzene	50.000	1	50.000	1	50.000	0	50.000	0	50.000	0	50.000	0	50.000	-1	50.000	-1	50.000	0

DJA 11/15/13 [Ethanol]: Corrected fronting or tailing peak integration in 5PPB (kkd12).

Analyst: DJA Date: 11/15/13 Reviewer: LW Date: 11/15/13

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 251273 MSVOA Water
EPA 8260B

Inst : MSVOA11 Name : 8260GX11
Calnum : 833457042001 Cal Date : 13-NOV-2013 Type : WATER

ICV 833457042018 (kkd18 13-NOV-2013) stds: S23276 (10000X), S23550 (2500X)
ICV 833457042019 (kkd19 13-NOV-2013) stds: S23417 (10000X), S23592 (10000X), S23411 (10000X), S23550 (2500X)

Analyte	ICV Seqnum	Spiked	Quant	Units	%D	Max	Flags
Freon 12	833457042018	20.00	25.03	ug/L	**25**	30	!v+
Chloromethane	833457042018	20.00	21.23	ug/L	6	30	
Vinyl Chloride	833457042018	20.00	21.12	ug/L	6	20	
Bromomethane	833457042018	20.00	14.73	ug/L	**-26**	30	!v-
Chloroethane	833457042018	20.00	20.73	ug/L	4	30	
Trichlorofluoromethane	833457042018	20.00	19.11	ug/L	-4	30	
Acetone	833457042019	25.00	27.63	ug/L	11	40	
Freon 113	833457042019	25.00	26.24	ug/L	5	30	
1,1-Dichloroethene	833457042019	25.00	28.39	ug/L	14	20	
Methylene Chloride	833457042019	25.00	26.76	ug/L	7	30	
Carbon Disulfide	833457042019	25.00	32.18	ug/L	**29**	30	!v+
MTBE	833457042019	25.00	25.25	ug/L	1	30	
trans-1,2-Dichloroethene	833457042019	25.00	27.10	ug/L	8	30	
Vinyl Acetate	833457042019	25.00	31.77	ug/L	**27**	40	!v+
1,1-Dichloroethane	833457042019	25.00	23.38	ug/L	-6	30	
2-Butanone	833457042019	25.00	27.10	ug/L	8	40	
2,2-Dichloropropane	833457042019	25.00	23.13	ug/L	-7	30	
cis-1,2-Dichloroethene	833457042019	25.00	25.96	ug/L	4	30	
Chloroform	833457042019	25.00	23.06	ug/L	-8	20	
Bromochloromethane	833457042019	25.00	24.62	ug/L	-2	30	
1,1,1-Trichloroethane	833457042019	25.00	24.62	ug/L	-2	30	
1,1-Dichloropropene	833457042019	25.00	29.07	ug/L	16	30	
Carbon Tetrachloride	833457042019	25.00	25.80	ug/L	3	30	
1,2-Dichloroethane	833457042019	25.00	26.09	ug/L	4	30	
Benzene	833457042019	25.00	26.39	ug/L	6	30	
Trichloroethene	833457042019	25.00	26.97	ug/L	8	30	
1,2-Dichloropropane	833457042019	25.00	25.55	ug/L	2	20	
Bromodichloromethane	833457042019	25.00	24.81	ug/L	-1	30	
Dibromomethane	833457042019	25.00	24.26	ug/L	-3	30	
4-Methyl-2-Pentanone	833457042019	25.00	27.44	ug/L	10	40	
cis-1,3-Dichloropropene	833457042019	25.00	27.73	ug/L	11	30	
Toluene	833457042019	25.00	25.73	ug/L	3	20	
trans-1,3-Dichloropropene	833457042019	25.00	26.17	ug/L	5	30	
1,1,2-Trichloroethane	833457042019	25.00	26.35	ug/L	5	30	
2-Hexanone	833457042019	25.00	27.93	ug/L	12	40	
1,3-Dichloropropane	833457042019	25.00	26.37	ug/L	5	30	
Tetrachloroethene	833457042019	25.00	24.63	ug/L	-1	30	
Dibromochloromethane	833457042019	25.00	25.93	ug/L	4	30	
1,2-Dibromoethane	833457042019	25.00	27.12	ug/L	8	30	
Chlorobenzene	833457042019	25.00	26.56	ug/L	6	30	
1,1,1,2-Tetrachloroethane	833457042019	25.00	25.68	ug/L	3	30	
Ethylbenzene	833457042019	25.00	26.02	ug/L	4	20	
m,p-Xylenes	833457042019	50.00	53.59	ug/L	7	30	
o-Xylene	833457042019	25.00	26.98	ug/L	8	30	
Styrene	833457042019	25.00	26.20	ug/L	5	30	
Bromoform	833457042019	25.00	25.32	ug/L	1	30	
Isopropylbenzene	833457042019	25.00	27.27	ug/L	9	30	

Analyte	ICV Seqnum	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	833457042019	25.00	26.70	ug/L	7	30	
1,2,3-Trichloropropane	833457042019	25.00	26.32	ug/L	5	30	
Propylbenzene	833457042019	25.00	26.48	ug/L	6	30	
Bromobenzene	833457042019	25.00	25.47	ug/L	2	30	
1,3,5-Trimethylbenzene	833457042019	25.00	26.93	ug/L	8	30	
2-Chlorotoluene	833457042019	25.00	26.96	ug/L	8	30	
4-Chlorotoluene	833457042019	25.00	25.99	ug/L	4	30	
tert-Butylbenzene	833457042019	25.00	27.38	ug/L	10	30	
1,2,4-Trimethylbenzene	833457042019	25.00	26.24	ug/L	5	30	
sec-Butylbenzene	833457042019	25.00	27.89	ug/L	12	30	
para-Isopropyl Toluene	833457042019	25.00	24.60	ug/L	-2	30	
1,3-Dichlorobenzene	833457042019	25.00	26.34	ug/L	5	30	
1,4-Dichlorobenzene	833457042019	25.00	25.08	ug/L	0	30	
n-Butylbenzene	833457042019	25.00	26.60	ug/L	6	30	
1,2-Dichlorobenzene	833457042019	25.00	26.39	ug/L	6	30	
1,2-Dibromo-3-Chloropropane	833457042019	25.00	27.10	ug/L	8	30	
1,2,4-Trichlorobenzene	833457042019	25.00	26.57	ug/L	6	30	
Hexachlorobutadiene	833457042019	25.00	25.99	ug/L	4	30	
Naphthalene	833457042019	25.00	28.48	ug/L	14	30	
1,2,3-Trichlorobenzene	833457042019	25.00	27.15	ug/L	9	30	

833457042018: Analyst: DJA Date: 11/15/13 Reviewer: LW Date: 11/15/13
833457042019: Analyst: DJA Date: 11/15/13 Reviewer: LW Date: 11/15/13

!=warning +=high bias -=low bias v=ICV

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 251273 MSVOA Water: EPA 8260B

Inst : MSVOA14
Calnum : 953461780001
Units : ug/L

Date : 16-NOV-2013 21:40
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	nkg12	953461780012		16-NOV-2013 21:40	S22433 (2000000X), S23293 (2000000X), S23611 (2000000X), S22004 (1000000X), S23601 (2500X)
L2	nkg13	953461780013		16-NOV-2013 22:08	S22433 (1000000X), S23293 (1000000X), S23611 (1000000X), S22004 (500000X), S23601 (2500X)
L3	nkg14	953461780014		16-NOV-2013 22:36	S22433 (500000X), S23293 (250000X), S23611 (250000X), S22004 (250000X), S23601 (2500X)
L4	nkg15	953461780015		16-NOV-2013 23:04	S22433 (200000X), S23293 (100000X), S23611 (100000X), S22004 (100000X), S23601 (2500X)
L5	nkg16	953461780016		16-NOV-2013 23:32	S22433 (100000X), S23293 (50000X), S23611 (50000X), S22004 (50000X), S23601 (2500X)
L6	nkg17	953461780017		17-NOV-2013 00:00	S22433 (50000X), S23293 (25000X), S23611 (25000X), S22004 (25000X), S23601 (2500X)
L7	nkg18	953461780018		17-NOV-2013 00:28	S22433 (20000X), S23293 (10000X), S23611 (10000X), S22004 (10000X), S23601 (2500X)
L8	nkg19	953461780019		17-NOV-2013 00:56	S22433 (13330X), S23293 (6667X), S23611 (6667X), S22004 (6667X), S23601 (2500X)
L9	nkg20	953461780020		17-NOV-2013 01:24	S22433 (10000X), S23293 (5000X), S23611 (5000X), S22004 (5000X), S23601 (2500X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.6675	0.6513	0.6579	0.5880	0.6296	0.6395	0.6834	0.6808	AVRG		1.53903		0.6498	5	15	0.05	0.99	
Chloromethane	0.6434	0.6476	0.6449	0.6228	0.6394	0.6561	0.6133	0.6599	0.6465	AVRG		1.55872		0.6416	2	15	0.10	0.99	
Vinyl Chloride	0.9675	0.8589	0.8377	0.8756	0.8574	0.8694	0.8619	0.9236	0.9161	AVRG		1.12951		0.8853	5	15	0.05	0.99	
Bromomethane		0.3072	0.3628	0.3533	0.3946	0.3792	0.3679	0.4031	0.4266	AVRG		2.67124		0.3744	10	15	0.05	0.99	
Chloroethane		0.5097	0.5812	0.6003	0.5847	0.5731	0.5560	0.5878	0.5713	AVRG		1.75280		0.5705	5	15	0.05	0.99	
Trichlorofluoromethane		1.0495	1.1394	1.1365	1.0301	1.0872	1.0899	1.1618	1.1557	AVRG		0.90394		1.1063	4	15	0.05	0.99	
Acetone			0.5724	0.5557	0.5738	0.5392	0.5136	0.4754	0.4471	AVRG		1.90363		0.5253	9	15	0.05	0.99	
Freon 113		0.6677	0.6770	0.6928	0.7235	0.6818	0.6548	0.6600	0.7160	AVRG		1.46153		0.6842	4	15	0.05	0.99	
1,1-Dichloroethene		0.5157	0.6519	0.6793	0.6752	0.6374	0.6326	0.6258	0.6567	AVRG		1.57653		0.6343	8	15	0.05	0.99	
Methylene Chloride		0.7526	0.7303	0.7440	0.7555	0.7229	0.7139	0.7335	0.7375	AVRG		1.35820		0.7363	2	15	0.05	0.99	
Carbon Disulfide		2.4591	2.3630	2.3904	2.4573	2.3472	2.3202	2.3533	2.4699	AVRG		0.41753		2.3950	2	15	0.05	0.99	
MTBE		2.3958	2.2776	2.3401	2.3872	2.3755	2.3906	2.4273	2.4417	AVRG		0.42026		2.3795	2	15	0.05	0.99	
trans-1,2-Dichloroethene		0.7031	0.6792	0.7030	0.7095	0.6961	0.6851	0.6851	0.7100	AVRG		1.43600		0.6964	2	15	0.05	0.99	
Vinyl Acetate		0.8861	0.9115	0.9207	0.9491	1.0610	0.9131	1.1664	1.0701	AVRG		1.01548		0.9848	10	15	0.05	0.99	
1,1-Dichloroethane		1.3964	1.3747	1.4031	1.4047	1.3777	1.3846	1.3860	1.4067	AVRG		0.71853		1.3917	1	15	0.10	0.99	
2-Butanone			0.4291	0.4353	0.4089	0.4079	0.4041	0.3817	0.3651	AVRG		2.47167		0.4046	6	15	0.05	0.99	
2,2-Dichloropropane		0.8209	0.7335	0.7353	0.7274	0.7204	0.7130	0.7080	0.7359	AVRG		1.35722		0.7368	5	15	0.05	0.99	
cis-1,2-Dichloroethene		0.5939	0.5454m	0.5247	0.5226	0.5326	0.5387	0.5552	0.5649	AVRG		1.82727		0.5473	4	15	0.05	0.99	
Chloroform		1.0387	0.8922	0.8966	0.8935	0.9030	0.9115	0.9295	0.9459	AVRG		1.07951		0.9263	5	15	0.05	0.99	
Bromochloromethane		0.2332	0.2276	0.2315	0.2427	0.2415	0.2458	0.2512	0.2557	AVRG		4.14672		0.2412	4	15	0.05	0.99	
1,1,1-Trichloroethane		0.7909	0.7939	0.7766	0.7829	0.7657	0.7572	0.7644	0.7993	AVRG		1.28393		0.7789	2	15	0.05	0.99	
1,1-Dichloropropene		0.4540	0.4354	0.4294	0.4304	0.4179	0.4242	0.4262	0.4607	AVRG		2.29993		0.4348	3	15	0.05	0.99	
Carbon Tetrachloride		0.3400	0.3238	0.3386	0.3412	0.3376	0.3479	0.3590	0.3863	AVRG		2.88338		0.3468	5	15	0.05	0.99	
1,2-Dichloroethane		0.4924	0.4304	0.4583	0.4798	0.4698	0.4751	0.4737	0.4845	AVRG		2.12540		0.4705	4	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		1.4535	1.3183	1.3536	1.3665	1.3326	1.4078	1.4207	1.5042	AVRG		0.71702		1.3947	5	15	0.05	0.99	
Trichloroethene		0.3447	0.3304	0.3368	0.3491	0.3332	0.3439	0.3354	0.3554	AVRG		2.93151		0.3411	3	15	0.05	0.99	
1,2-Dichloropropane		0.4228	0.3591	0.3614	0.3744	0.3871	0.3876	0.3722	0.3824	AVRG		2.62557		0.3809	5	15	0.05	0.99	
Bromodichloromethane		0.4046	0.4176	0.4358	0.4389	0.4388	0.4558	0.4558	0.4720	AVRG		2.27323		0.4399	5	15	0.05	0.99	
Dibromomethane		0.1993	0.1847	0.1888	0.1971	0.1966	0.1998	0.2011	0.2047	AVRG		5.08894		0.1965	3	15	0.05	0.99	
4-Methyl-2-Pentanone			0.3850	0.3809	0.3917	0.3897	0.4085	0.4004	0.4017	AVRG		2.53806		0.3940	3	15	0.05	0.99	
cis-1,3-Dichloropropene		0.5346	0.5120	0.5180	0.5294	0.5390	0.5616	0.5621	0.5783	AVRG		1.84538		0.5419	4	15	0.05	0.99	
Toluene		1.6257	1.5417	1.5932	1.5904	1.5561	1.5565	1.5778	1.6708	AVRG		0.62932		1.5890	3	15	0.05	0.99	
trans-1,3-Dichloropropene		0.4707	0.5016	0.5058	0.5341	0.5355	0.5436	0.5486	0.5604	AVRG		1.90462		0.5250	6	15	0.05	0.99	
1,1,2-Trichloroethane		0.1794	0.1578	0.1882	0.1782	0.1757	0.1797	0.1792	0.1836	AVRG		5.62685		0.1777	5	15	0.05	0.99	
2-Hexanone			0.3846	0.3500	0.3606	0.3618	0.3591	0.3363	0.3353	AVRG		2.81385		0.3554	5	15	0.05	0.99	
1,3-Dichloropropane		0.5712	0.5685	0.5780	0.6000	0.5819	0.5881	0.5863	0.5997	AVRG		1.71172		0.5842	2	15	0.05	0.99	
Tetrachloroethene		0.3511	0.3312	0.3387	0.3374	0.3343	0.3298	0.3243	0.3591	AVRG		2.95649		0.3382	3	15	0.05	0.99	
Dibromochloromethane		0.2986	0.2961	0.3050	0.3092	0.3174	0.3328	0.3348	0.3467	AVRG		3.14890		0.3176	6	15	0.05	0.99	
1,2-Dibromoethane		0.3045	0.2782	0.2994	0.3188	0.3137	0.3120	0.3126	0.3192	AVRG		3.25392		0.3073	4	15	0.05	0.99	
Chlorobenzene		1.0386	0.9862	0.9793	0.9889	0.9823	1.0071	1.0245	1.1017	AVRG		0.98662		1.0136	4	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.3108	0.3120	0.3172	0.3167	0.3123	0.3246	0.3272	0.3472	AVRG		3.11522		0.3210	4	15	0.05	0.99	
Ethylbenzene		2.0832	1.7633	1.7575	1.7620	1.7346	1.7867	1.8242	1.9947	AVRG		0.54399		1.8383	7	15	0.05	0.99	
m,p-Xylenes	0.6035	0.6336	0.6241	0.6548	0.6529	0.6553	0.6786	0.7003	0.7753	AVRG		1.50542		0.6643	8	15	0.05	0.99	
o-Xylene		0.6199	0.6035	0.6327	0.6200	0.6254	0.6511	0.6672	0.7311	AVRG		1.55316		0.6438	6	15	0.05	0.99	
Styrene		0.9995	1.0386	1.0670	1.0953	1.1186	1.1682	1.2022	1.3100	AVRG		0.88895		1.1249	9	15	0.05	0.99	
Bromoform		0.1887	0.2127	0.2030	0.2080	0.2195	0.2518	0.2608	0.2785	AVRG		4.38840		0.2279	14	15	0.10	0.99	
Isopropylbenzene		3.1878	3.2035	3.1967	3.2057	3.1536	3.2092	3.3091	3.5621	AVRG		0.30737		3.2534	4	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		0.7696	0.7373	0.7652	0.7598	0.7616	0.7464	0.7805	0.7723	AVRG		1.31304		0.7616	2	15	0.30	0.99	
1,2,3-Trichloropropane		0.9576	0.8181	0.8424	0.8334	0.8035	0.8086	0.8373	0.8391	AVRG		1.18697		0.8425	6	15	0.05	0.99	
Propylbenzene		4.2323	3.9345	3.9519	3.9740	3.8767	3.8621	3.9014	4.1592	AVRG		0.25085		3.9865	3	15	0.05	0.99	
Bromobenzene		0.8038	0.7658	0.7441	0.7560	0.7413	0.7548	0.7723	0.7957	AVRG		1.30423		0.7667	3	15	0.05	0.99	
1,3,5-Trimethylbenzene		2.6425	2.6122	2.5984	2.6386	2.5989	2.6205	2.6762	2.8569	AVRG		0.37657		2.6555	3	15	0.05	0.99	
2-Chlorotoluene		2.8511	2.4482	2.4599	2.4851	2.4528	2.4512	2.4996	2.6170	AVRG		0.39477		2.5331	6	15	0.05	0.99	
4-Chlorotoluene		2.5339	2.4217	2.2629	2.2780	2.2953	2.2442	2.2786	2.4062	AVRG		0.42733		2.3401	4	15	0.05	0.99	
tert-Butylbenzene		2.4965	2.3388	2.3373	2.3325	2.2556	2.2947	2.3421	2.5182	AVRG		0.42293		2.3645	4	15	0.05	0.99	
1,2,4-Trimethylbenzene		2.7096	2.6117	2.6712	2.7155	2.6993	2.7601	2.8195	2.9905	AVRG		0.36401		2.7472	4	15	0.05	0.99	
sec-Butylbenzene		3.3831	3.4870	3.5272	3.5572	3.4792	3.5016	3.5639	3.8815	AVRG		0.28188		3.5476	4	15	0.05	0.99	
para-Isopropyl Toluene		2.8655	2.8472	2.7966	2.9178	2.8422	2.9270	2.9712	3.2514	AVRG		0.34160		2.9274	5	15	0.05	0.99	
1,3-Dichlorobenzene		1.5082	1.4156	1.4175	1.4185	1.4411	1.4472	1.4778	1.5572	AVRG		0.68475		1.4604	3	15	0.05	0.99	
1,4-Dichlorobenzene		1.6226	1.5267	1.4898	1.5164	1.5031	1.4979	1.5210	1.5829	AVRG		0.65250		1.5326	3	15	0.05	0.99	
n-Butylbenzene		2.7337	2.6690	2.7790	2.7579	2.7362	2.7820	2.7892	3.0588	AVRG		0.35865		2.7882	4	15	0.05	0.99	
1,2-Dichlorobenzene		1.4421	1.3870	1.4099	1.4322	1.3890	1.3975	1.4297	1.4994	AVRG		0.70257		1.4233	3	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane			0.2023	0.1507	0.1612	0.1548	0.1573	0.1538	0.1561	AVRG		6.16013		0.1623	11	15	0.05	0.99	
1,2,4-Trichlorobenzene		0.8719	0.9294	0.9658	0.9393	0.9786	1.0001	0.9625	1.0527	AVRG		1.03892		0.9625	6	15	0.05	0.99	
Hexachlorobutadiene		0.4031	0.4678	0.4828	0.4960	0.4842	0.4845	0.4639	0.5093	AVRG		2.10983		0.4740	7	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene		2.2379	2.3260	2.3894	2.4719	2.4842	2.5420	2.4948	2.6368	AVRG		0.40852		2.4479	5	15	0.05	0.99	
1,2,3-Trichlorobenzene		0.9033	0.8685	0.9325	0.9194	0.9511	0.9622	0.9327	1.0026	AVRG		1.07064		0.9340	4	15	0.05	0.99	
Dibromofluoromethane	0.4345	0.4430	0.4432	0.4511	0.4549	0.4564	0.4696	0.4768	0.4736	AVRG		2.19342		0.4559	3	15	0.05	0.99	
1,2-Dichloroethane-d4	0.3902	0.3861	0.3972	0.3950	0.3944	0.4043	0.4224	0.4269	0.4419	AVRG		2.46010		0.4065	5	15	0.05	0.99	
Toluene-d8	1.3930	1.4126	1.4156	1.4103	1.4175	1.4088	1.3847	1.3960	1.4039	AVRG		0.71189		1.4047	1	15	0.05	0.99	
Bromofluorobenzene	0.9385	0.9401	0.9440	0.9398	0.9298	0.9234	0.8897	0.8965	0.8707	AVRG		1.08795		0.9192	3	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Freon 12			1.0000	3	2.0000	0	5.0000	1	10.000	-10	20.000	-3	50.000	-2	75.000	5	100.00	5
Chloromethane	0.5000	0	1.0000	1	2.0000	1	5.0000	-3	10.000	0	20.000	2	50.000	-4	75.000	3	100.00	1
Vinyl Chloride	0.5000	9	1.0000	-3	2.0000	-5	5.0000	-1	10.000	-3	20.000	-2	50.000	-3	75.000	4	100.00	3
Bromomethane			1.0000	-18	2.0000	-3	5.0000	-6	10.000	5	20.000	1	50.000	-2	75.000	8	100.00	14
Chloroethane			1.0000	-11	2.0000	2	5.0000	5	10.000	2	20.000	0	50.000	-3	75.000	3	100.00	0
Trichlorofluoromethane			1.0000	-5	2.0000	3	5.0000	3	10.000	-7	20.000	-2	50.000	-1	75.000	5	100.00	4
Acetone					2.0000	9	5.0000	6	10.000	9	20.000	3	50.000	-2	75.000	-10	100.00	-15
Freon 113			0.5000	-2	2.0000	-1	5.0000	1	10.000	6	20.000	0	50.000	-4	75.000	-4	100.00	5
1,1-Dichloroethene			0.5000	-19	2.0000	3	5.0000	7	10.000	6	20.000	0	50.000	0	75.000	-1	100.00	4
Methylene Chloride			0.5000	2	2.0000	-1	5.0000	1	10.000	3	20.000	-2	50.000	-3	75.000	0	100.00	0
Carbon Disulfide			0.5000	3	2.0000	-1	5.0000	0	10.000	3	20.000	-2	50.000	-3	75.000	-2	100.00	3
MTBE			0.5000	1	2.0000	-4	5.0000	-2	10.000	0	20.000	0	50.000	0	75.000	2	100.00	3
trans-1,2-Dichloroethene			0.5000	1	2.0000	-2	5.0000	1	10.000	2	20.000	0	50.000	-2	75.000	-2	100.00	2
Vinyl Acetate			0.5000	-10	2.0000	-7	5.0000	-7	10.000	-4	20.000	8	50.000	-7	75.000	18	100.00	9
1,1-Dichloroethane			0.5000	0	2.0000	-1	5.0000	1	10.000	1	20.000	-1	50.000	-1	75.000	0	100.00	1
2-Butanone					2.0000	6	5.0000	8	10.000	1	20.000	1	50.000	0	75.000	-6	100.00	-10
2,2-Dichloropropane			0.5000	11	2.0000	0	5.0000	0	10.000	-1	20.000	-2	50.000	-3	75.000	-4	100.00	0
cis-1,2-Dichloroethene			0.5000	9	2.0000	0	5.0000	-4	10.000	-5	20.000	-3	50.000	-2	75.000	1	100.00	3
Chloroform			0.5000	12	2.0000	-4	5.0000	-3	10.000	-4	20.000	-3	50.000	-2	75.000	0	100.00	2
Bromochloromethane			0.5000	-3	2.0000	-6	5.0000	-4	10.000	1	20.000	0	50.000	2	75.000	4	100.00	6
1,1,1-Trichloroethane			0.5000	2	2.0000	2	5.0000	0	10.000	1	20.000	-2	50.000	-3	75.000	-2	100.00	3
1,1-Dichloropropene			0.5000	4	2.0000	0	5.0000	-1	10.000	-1	20.000	-4	50.000	-2	75.000	-2	100.00	6
Carbon Tetrachloride			0.5000	-2	2.0000	-7	5.0000	-2	10.000	-2	20.000	-3	50.000	0	75.000	4	100.00	11
1,2-Dichloroethane			0.5000	5	2.0000	-9	5.0000	-3	10.000	2	20.000	0	50.000	1	75.000	1	100.00	3
Benzene			0.5000	4	2.0000	-5	5.0000	-3	10.000	-2	20.000	-4	50.000	1	75.000	2	100.00	8
Trichloroethene			0.5000	1	2.0000	-3	5.0000	-1	10.000	2	20.000	-2	50.000	1	75.000	-2	100.00	4
1,2-Dichloropropane			0.5000	11	2.0000	-6	5.0000	-5	10.000	-2	20.000	2	50.000	2	75.000	-2	100.00	0
Bromodichloromethane			0.5000	-8	2.0000	-5	5.0000	-1	10.000	0	20.000	0	50.000	4	75.000	4	100.00	7
Dibromomethane			0.5000	1	2.0000	-6	5.0000	-4	10.000	0	20.000	0	50.000	2	75.000	2	100.00	4
4-Methyl-2-Pentanone					2.0000	-2	5.0000	-3	10.000	-1	20.000	-1	50.000	4	75.000	2	100.00	2
cis-1,3-Dichloropropene			0.5000	-1	2.0000	-6	5.0000	-4	10.000	-2	20.000	-1	50.000	4	75.000	4	100.00	7
Toluene			0.5000	2	2.0000	-3	5.0000	0	10.000	0	20.000	-2	50.000	-2	75.000	-1	100.00	5
trans-1,3-Dichloropropene			0.5000	-10	2.0000	-4	5.0000	-4	10.000	2	20.000	2	50.000	4	75.000	4	100.00	7
1,1,2-Trichloroethane			0.5000	1	2.0000	-11	5.0000	6	10.000	0	20.000	-1	50.000	1	75.000	1	100.00	3
2-Hexanone					2.0000	8	5.0000	-2	10.000	1	20.000	2	50.000	1	75.000	-5	100.00	-6
1,3-Dichloropropane			0.5000	-2	2.0000	-3	5.0000	-1	10.000	3	20.000	0	50.000	1	75.000	0	100.00	3
Tetrachloroethene			0.5000	4	2.0000	-2	5.0000	0	10.000	0	20.000	-1	50.000	-2	75.000	-4	100.00	6
Dibromochloromethane			0.5000	-6	2.0000	-7	5.0000	-4	10.000	-3	20.000	0	50.000	5	75.000	5	100.00	9
1,2-Dibromoethane			0.5000	-1	2.0000	-9	5.0000	-3	10.000	4	20.000	2	50.000	2	75.000	2	100.00	4
Chlorobenzene			0.5000	2	2.0000	-3	5.0000	-3	10.000	-2	20.000	-3	50.000	-1	75.000	1	100.00	9
1,1,1,2-Tetrachloroethane			0.5000	-3	2.0000	-3	5.0000	-1	10.000	-1	20.000	-3	50.000	1	75.000	2	100.00	8
Ethylbenzene			0.5000	13	2.0000	-4	5.0000	-4	10.000	-4	20.000	-6	50.000	-3	75.000	-1	100.00	9

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
m,p-Xylenes	0.5000	-9	1.0000	-5	4.0000	-6	10.000	-1	20.000	-2	40.000	-1	100.00	2	150.00	5	200.00	17
o-Xylene			0.5000	-4	2.0000	-6	5.0000	-2	10.000	-4	20.000	-3	50.000	1	75.000	4	100.00	14
Styrene			0.5000	-11	2.0000	-8	5.0000	-5	10.000	-3	20.000	-1	50.000	4	75.000	7	100.00	16
Bromoform			0.5000	-17	2.0000	-7	5.0000	-11	10.000	-9	20.000	-4	50.000	10	75.000	14	100.00	**22**
Isopropylbenzene			0.5000	-2	2.0000	-2	5.0000	-2	10.000	-1	20.000	-3	50.000	-1	75.000	2	100.00	9
1,1,2,2-Tetrachloroethane			0.5000	1	2.0000	-3	5.0000	0	10.000	0	20.000	0	50.000	-2	75.000	2	100.00	1
1,2,3-Trichloropropane			0.5000	14	2.0000	-3	5.0000	0	10.000	-1	20.000	-5	50.000	-4	75.000	-1	100.00	0
Propylbenzene			0.5000	6	2.0000	-1	5.0000	-1	10.000	0	20.000	-3	50.000	-3	75.000	-2	100.00	4
Bromobenzene			0.5000	5	2.0000	0	5.0000	-3	10.000	-1	20.000	-3	50.000	-2	75.000	1	100.00	4
1,3,5-Trimethylbenzene			0.5000	0	2.0000	-2	5.0000	-2	10.000	-1	20.000	-2	50.000	-1	75.000	1	100.00	8
2-Chlorotoluene			0.5000	13	2.0000	-3	5.0000	-3	10.000	-2	20.000	-3	50.000	-3	75.000	-1	100.00	3
4-Chlorotoluene			0.5000	8	2.0000	3	5.0000	-3	10.000	-3	20.000	-2	50.000	-4	75.000	-3	100.00	3
tert-Butylbenzene			0.5000	6	2.0000	-1	5.0000	-1	10.000	-1	20.000	-5	50.000	-3	75.000	-1	100.00	7
1,2,4-Trimethylbenzene			0.5000	-1	2.0000	-5	5.0000	-3	10.000	-1	20.000	-2	50.000	0	75.000	3	100.00	9
sec-Butylbenzene			0.5000	-5	2.0000	-2	5.0000	-1	10.000	0	20.000	-2	50.000	-1	75.000	0	100.00	9
para-Isopropyl Toluene			0.5000	-2	2.0000	-3	5.0000	-4	10.000	0	20.000	-3	50.000	0	75.000	1	100.00	11
1,3-Dichlorobenzene			0.5000	3	2.0000	-3	5.0000	-3	10.000	-3	20.000	-1	50.000	-1	75.000	1	100.00	7
1,4-Dichlorobenzene			0.5000	6	2.0000	0	5.0000	-3	10.000	-1	20.000	-2	50.000	-2	75.000	-1	100.00	3
n-Butylbenzene			0.5000	-2	2.0000	-4	5.0000	0	10.000	-1	20.000	-2	50.000	0	75.000	0	100.00	10
1,2-Dichlorobenzene			0.5000	1	2.0000	-3	5.0000	-1	10.000	1	20.000	-2	50.000	-2	75.000	0	100.00	5
1,2-Dibromo-3-Chloropropane					2.0000	**25**	5.0000	-7	10.000	-1	20.000	-5	50.000	-3	75.000	-5	100.00	-4
1,2,4-Trichlorobenzene			0.5000	-9	2.0000	-3	5.0000	0	10.000	-2	20.000	2	50.000	4	75.000	0	100.00	9
Hexachlorobutadiene			0.5000	-15	2.0000	-1	5.0000	2	10.000	5	20.000	2	50.000	2	75.000	-2	100.00	7
Naphthalene			0.5000	-9	2.0000	-5	5.0000	-2	10.000	1	20.000	1	50.000	4	75.000	2	100.00	8
1,2,3-Trichlorobenzene			0.5000	-3	2.0000	-7	5.0000	0	10.000	-2	20.000	2	50.000	3	75.000	0	100.00	7
Dibromofluoromethane	50.000	-5	50.000	-3	50.000	-3	50.000	-1	50.000	0	50.000	0	50.000	3	50.000	5	50.000	4
1,2-Dichloroethane-d4	50.000	-4	50.000	-5	50.000	-2	50.000	-3	50.000	-3	50.000	-1	50.000	4	50.000	5	50.000	9
Toluene-d8	50.000	-1	50.000	1	50.000	1	50.000	0	50.000	1	50.000	0	50.000	-1	50.000	-1	50.000	0
Bromofluorobenzene	50.000	2	50.000	2	50.000	3	50.000	2	50.000	1	50.000	0	50.000	-3	50.000	-2	50.000	-5

MCT 11/18/13 [2-Chloroethylvinylether]: 2-Cleve does not pass in this sequence.

MCT 11/18/13 [Freon 12]: Freon 12 failed high in ICV.

MCT 11/18/13 [cis-1,2-Dichloroethene]: Corrected automatically drawn baseline in (nkg14).

Analyst: MCT Date: 11/18/13 Reviewer: LW Date: 11/18/13

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 251273 MSVOA Water
EPA 8260B

Inst : MSVOA14
Calnum : 953461780001 Cal Date : 16-NOV-2013

ICV 953461780021 (nkg21 17-NOV-2013) stds: S22793 (10000X), S23601 (2500X)
ICV 953461780023 (nkg23 17-NOV-2013) stds: S23411 (10000X), S23592 (10000X), S23417 (10000X), S23601 (2500X)

Analyte	ICV Seqnum	Spiked	Quant	Units	%D	Max	Flags
Freon 12	953461780021	20.00	26.18	ug/L	**31**	30	v+
Chloromethane	953461780021	20.00	22.89	ug/L	14	30	
Vinyl Chloride	953461780021	20.00	22.19	ug/L	11	20	
Bromomethane	953461780021	20.00	15.68	ug/L	**-22**	30	!v-
Chloroethane	953461780021	20.00	21.87	ug/L	9	30	
Trichlorofluoromethane	953461780021	20.00	20.87	ug/L	4	30	
Acetone	953461780023	25.00	20.09	ug/L	-20	40	
Freon 113	953461780023	25.00	20.66	ug/L	-17	30	
1,1-Dichloroethene	953461780023	25.00	25.99	ug/L	4	20	
Methylene Chloride	953461780023	25.00	27.78	ug/L	11	30	
Carbon Disulfide	953461780023	25.00	24.35	ug/L	-3	30	
MTBE	953461780023	25.00	25.88	ug/L	4	30	
trans-1,2-Dichloroethene	953461780023	25.00	27.73	ug/L	11	30	
Vinyl Acetate	953461780023	25.00	25.49	ug/L	2	40	
1,1-Dichloroethane	953461780023	25.00	24.93	ug/L	0	30	
2-Butanone	953461780023	25.00	20.98	ug/L	-16	40	
2,2-Dichloropropane	953461780023	25.00	22.28	ug/L	-11	30	
cis-1,2-Dichloroethene	953461780023	25.00	26.55	ug/L	6	30	
Chloroform	953461780023	25.00	24.30	ug/L	-3	20	
Bromochloromethane	953461780023	25.00	24.73	ug/L	-1	30	
1,1,1-Trichloroethane	953461780023	25.00	24.02	ug/L	-4	30	
1,1-Dichloropropene	953461780023	25.00	27.50	ug/L	10	30	
Carbon Tetrachloride	953461780023	25.00	23.45	ug/L	-6	30	
1,2-Dichloroethane	953461780023	25.00	27.60	ug/L	10	30	
Benzene	953461780023	25.00	26.66	ug/L	7	30	
Trichloroethene	953461780023	25.00	27.87	ug/L	11	30	
1,2-Dichloropropane	953461780023	25.00	26.61	ug/L	6	20	
Bromodichloromethane	953461780023	25.00	25.84	ug/L	3	30	
Dibromomethane	953461780023	25.00	24.43	ug/L	-2	30	
4-Methyl-2-Pentanone	953461780023	25.00	25.04	ug/L	0	40	
cis-1,3-Dichloropropene	953461780023	25.00	28.63	ug/L	15	30	
Toluene	953461780023	25.00	26.54	ug/L	6	20	
trans-1,3-Dichloropropene	953461780023	25.00	27.39	ug/L	10	30	
1,1,2-Trichloroethane	953461780023	25.00	27.08	ug/L	8	30	
2-Hexanone	953461780023	25.00	22.06	ug/L	-12	40	
1,3-Dichloropropane	953461780023	25.00	27.24	ug/L	9	30	
Tetrachloroethene	953461780023	25.00	23.33	ug/L	-7	30	
Dibromochloromethane	953461780023	25.00	26.55	ug/L	6	30	
1,2-Dibromoethane	953461780023	25.00	26.99	ug/L	8	30	
Chlorobenzene	953461780023	25.00	26.87	ug/L	7	30	
1,1,1,2-Tetrachloroethane	953461780023	25.00	26.69	ug/L	7	30	
Ethylbenzene	953461780023	25.00	25.78	ug/L	3	20	
m,p-Xylenes	953461780023	50.00	54.63	ug/L	9	30	
o-Xylene	953461780023	25.00	28.08	ug/L	12	30	
Styrene	953461780023	25.00	27.01	ug/L	8	30	
Bromoform	953461780023	25.00	24.17	ug/L	-3	30	
Isopropylbenzene	953461780023	25.00	26.75	ug/L	7	30	

Analyte	ICV Seqnum	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	953461780023	25.00	26.35	ug/L	5	30	
1,2,3-Trichloropropane	953461780023	25.00	26.31	ug/L	5	30	
Propylbenzene	953461780023	25.00	26.48	ug/L	6	30	
Bromobenzene	953461780023	25.00	25.85	ug/L	3	30	
1,3,5-Trimethylbenzene	953461780023	25.00	27.16	ug/L	9	30	
2-Chlorotoluene	953461780023	25.00	27.75	ug/L	11	30	
4-Chlorotoluene	953461780023	25.00	26.90	ug/L	8	30	
tert-Butylbenzene	953461780023	25.00	26.41	ug/L	6	30	
1,2,4-Trimethylbenzene	953461780023	25.00	26.65	ug/L	7	30	
sec-Butylbenzene	953461780023	25.00	26.64	ug/L	7	30	
para-Isopropyl Toluene	953461780023	25.00	23.88	ug/L	-4	30	
1,3-Dichlorobenzene	953461780023	25.00	26.93	ug/L	8	30	
1,4-Dichlorobenzene	953461780023	25.00	25.91	ug/L	4	30	
n-Butylbenzene	953461780023	25.00	25.69	ug/L	3	30	
1,2-Dichlorobenzene	953461780023	25.00	27.23	ug/L	9	30	
1,2-Dibromo-3-Chloropropane	953461780023	25.00	25.38	ug/L	2	30	
1,2,4-Trichlorobenzene	953461780023	25.00	27.13	ug/L	9	30	
Hexachlorobutadiene	953461780023	25.00	24.86	ug/L	-1	30	
Naphthalene	953461780023	25.00	27.40	ug/L	10	30	
1,2,3-Trichlorobenzene	953461780023	25.00	27.15	ug/L	9	30	

953461780021: Analyst: MCT Date: 11/18/13 Reviewer: LW Date: 11/18/13
953461780023: Analyst: MCT Date: 11/18/13 Reviewer: LW Date: 11/18/13

!=warning +=high bias -=low bias v=ICV

CURTIS & TOMPKINS SPIKE USER REPORT FOR 251273 MSVOA Water
EPA 8260B

Inst : MSVOA02 Run Name : QC718766 IDF : 1.0
Seqnum : 413487124005.2 File : bl405 Time : 04-DEC-2013 09:09
Cal : 413458513001 Caldate : 14-NOV-2013 Caltype : WATER
Standards: S23599 (20000X), S23592 (20000X), S23764 (20000X), S23488 (20000X), S23570 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.8374	0.9164	10.00	10.94	ug/L	9	30	0.0500	!v+ u
Chloromethane	1.2662	1.1725	10.00	9.260	ug/L	-7	30	0.1000	u
Vinyl Chloride	0.9743	0.9908	10.00	10.17	ug/L	2	20	0.0500	u
Bromomethane	0.6614	0.5987	10.00	9.052	ug/L	-9	30	0.0500	u
Chloroethane	0.5936	0.5833	10.00	9.826	ug/L	-2	30	0.0500	u
Trichlorofluoromethane	1.0088	1.0875	10.00	10.78	ug/L	8	30	0.0500	u
Acetone	0.3053	0.2893	12.50	11.84	ug/L	-5	40	0.0500	u
Freon 113	0.5124	0.6317	12.50	15.41	ug/L	23	30	0.0500	u
1,1-Dichloroethene	0.6021	0.6995	12.50	14.52	ug/L	16	20	0.0500	u
Methylene Chloride	0.8435	0.9517	12.50	14.10	ug/L	13	30	0.0500	u
Carbon Disulfide	1.9048	2.8616	12.50	18.78	ug/L	**50**	30	0.0500	!v+ c+ u ***
MTBE	1.8761	1.8257	12.50	12.16	ug/L	-3	30	0.0500	u
trans-1,2-Dichloroethene	0.7551	0.8701	12.50	14.40	ug/L	15	30	0.0500	u
Vinyl Acetate	0.9650	1.8235	12.50	23.62	ug/L	**89**	40	0.0500	?LOD c+ u v+ ***
1,1-Dichloroethane	1.3984	1.3990	12.50	12.51	ug/L	0	30	0.1000	u
2-Butanone	0.3917	0.4002	12.50	12.77	ug/L	2	40	0.0500	u
cis-1,2-Dichloroethene	0.8887	0.9701	12.50	13.65	ug/L	9	30	0.0500	u
2,2-Dichloropropane	0.8836	1.0069	12.50	14.24	ug/L	14	30	0.0500	u
Chloroform	1.3481	1.3659	12.50	12.67	ug/L	1	20	0.0500	u
Bromochloromethane	0.4535	0.4644	12.50	12.80	ug/L	2	30	0.0500	u
1,1,1-Trichloroethane	0.9538	1.0221	12.50	13.40	ug/L	7	30	0.0500	u
1,1-Dichloropropene	0.4176	0.5108	12.50	15.29	ug/L	22	30	0.0500	u
Carbon Tetrachloride	0.3665	0.4296	12.50	14.65	ug/L	17	30	0.0500	u
1,2-Dichloroethane	0.4686	0.5357	12.50	14.29	ug/L	14	30	0.0500	u
Benzene	1.4393	1.5783	12.50	13.71	ug/L	10	30	0.0500	u
Trichloroethene	0.3788	0.4316	12.50	14.24	ug/L	14	30	0.0500	u
1,2-Dichloropropane	0.4355	0.4513	12.50	12.96	ug/L	4	20	0.0500	u
Bromodichloromethane	0.5091	0.5461	12.50	13.41	ug/L	7	30	0.0500	u
Dibromomethane	0.2992	0.2885	12.50	12.05	ug/L	-4	30	0.0500	u
4-Methyl-2-Pentanone	0.3719	0.3519	12.50	11.83	ug/L	-5	40	0.0500	u
cis-1,3-Dichloropropene	0.6079	0.7174	12.50	14.75	ug/L	18	30	0.0500	u
Toluene	0.9614	1.0555	12.50	13.72	ug/L	10	20	0.0500	u
trans-1,3-Dichloropropene	0.5844	0.6378	12.50	13.64	ug/L	9	30	0.0500	u
1,1,2-Trichloroethane	0.2301	0.2451	12.50	13.32	ug/L	7	30	0.0500	u
2-Hexanone	0.3091	0.2890	12.50	11.69	ug/L	-6	40	0.0500	u
1,3-Dichloropropane	0.6486	0.6927	12.50	13.35	ug/L	7	30	0.0500	u
Tetrachloroethene	0.3504	0.3893	12.50	13.89	ug/L	11	30	0.0500	u
Dibromochloromethane	0.4594	0.4769	12.50	12.98	ug/L	4	30	0.0500	u
1,2-Dibromoethane	0.4492	0.4857	12.50	13.52	ug/L	8	30	0.0500	u
Chlorobenzene	1.1134	1.2498	12.50	14.03	ug/L	12	30	0.3000	u
1,1,1,2-Tetrachloroethane	0.4079	0.4367	12.50	13.38	ug/L	7	30	0.0500	?LOD u
Ethylbenzene	1.7191	1.9276	12.50	14.02	ug/L	12	20	0.0500	u
m,p-Xylenes	0.6323	0.7258	25.00	28.70	ug/L	15	30	0.0500	u
o-Xylene	0.6436	0.7223	12.50	14.03	ug/L	12	30	0.0500	u
Styrene	1.1048	1.2064	12.50	13.65	ug/L	9	30	0.0500	u
Bromoform	0.2962	0.3005	12.50	12.68	ug/L	1	30	0.1000	u
Isopropylbenzene	3.4072	3.9689	12.50	14.56	ug/L	16	30	0.0500	u

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	1.2196	1.2347	12.50	12.65	ug/L	1	30	0.3000	u
1,2,3-Trichloropropane	0.9519	1.0047	12.50	13.19	ug/L	6	30	0.0500	u
Propylbenzene	3.9241	4.4275	12.50	14.10	ug/L	13	30	0.0500	u
Bromobenzene	1.0412	1.1460	12.50	13.76	ug/L	10	30	0.0500	u
1,3,5-Trimethylbenzene	2.5065	2.8247	12.50	14.09	ug/L	13	30	0.0500	u
2-Chlorotoluene	2.8222	3.2692	12.50	14.48	ug/L	16	30	0.0500	u
4-Chlorotoluene	2.5438	2.8275	12.50	13.89	ug/L	11	30	0.0500	u
tert-Butylbenzene	2.1753	2.4718	12.50	14.20	ug/L	14	30	0.0500	u
1,2,4-Trimethylbenzene	2.3817	2.5371	12.50	13.32	ug/L	7	30	0.0500	u
sec-Butylbenzene	3.1288	3.6509	12.50	14.59	ug/L	17	30	0.0500	u
para-Isopropyl Toluene	2.1947	2.2515	12.50	12.82	ug/L	3	30	0.0500	u
1,3-Dichlorobenzene	1.6130	1.8780	12.50	14.55	ug/L	16	30	0.0500	u
1,4-Dichlorobenzene	1.6331	1.7819	12.50	13.64	ug/L	9	30	0.0500	u
n-Butylbenzene	1.7116	1.9311	12.50	14.10	ug/L	13	30	0.0500	?LOD u
1,2-Dichlorobenzene	1.6505	1.9130	12.50	14.49	ug/L	16	30	0.0500	u
1,2-Dibromo-3-Chloropropane	0.1772	0.1786	12.50	12.60	ug/L	1	30	0.0500	u
1,2,4-Trichlorobenzene	0.5947	0.7207	12.50	15.15	ug/L	21	30	0.0500	?LOD u
Hexachlorobutadiene	0.3284	0.4231	12.50	16.10	ug/L	29	30	0.0500	u
Naphthalene	1.5202	1.9380	12.50	15.94	ug/L	27	30	0.0500	u
1,2,3-Trichlorobenzene	0.6167	0.7425	12.50	15.05	ug/L	20	30	0.0500	?LOD u
Dibromofluoromethane	0.7866	0.7953	50.00	50.56	ug/L	1	30	0.0500	u
1,2-Dichloroethane-d4	0.3371	0.3576	50.00	53.03	ug/L	6	30	0.0500	u
Toluene-d8	1.3119	1.2985	50.00	49.49	ug/L	-1	30	0.0500	u
Bromofluorobenzene	1.0789	1.0526	50.00	48.78	ug/L	-2	30	0.0500	u

ISTD (ICAL bke11)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	349648	312026	-10.76	11.61	11.58	-0.03
1,4-Difluorobenzene	714566	617768	-13.55	12.84	12.82	-0.02
Chlorobenzene-d5	626466	546016	-12.84	17.41	17.40	-0.01
1,4-Dichlorobenzene-d4	281251	247314	-12.07	20.79	20.78	-0.01

Analyst: TEW Date: 12/10/13 Reviewer: LLH Date: 12/10/13

!=warning +=high bias ?LOD=no LOD c=CCV u=use v=ICV

CURTIS & TOMPKINS SPIKE USER REPORT FOR 251273 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : QC719431 IDF : 1.0
Seqnum : 483494623004.1 File : il904 Time : 09-DEC-2013 13:16
Cal : 483488653001 Caldate : 05-DEC-2013 Caltype : WATER
Standards: S23764 (12500X), S23276 (12500X), S23592 (12500X), S23599 (12500X), S23755 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.4945	0.4665	16.00	15.09	ug/L	-6	30	0.0500	u
Chloromethane	0.6222	0.6170	16.00	15.87	ug/L	-1	30	0.1000	u
Vinyl Chloride	0.4579	0.4460	16.00	15.58	ug/L	-3	20	0.0500	u
Bromomethane	0.2698	0.2636	16.00	15.63	ug/L	-2	30	0.0500	!v- u
Chloroethane	0.2620	0.2467	16.00	15.07	ug/L	-6	30	0.0500	u
Trichlorofluoromethane	0.5010	0.4260	16.00	13.60	ug/L	-15	30	0.0500	u
Acetone	0.0995	0.0982	20.00	19.75	ug/L	-1	40	0.0500	u
Freon 113	0.2191	0.2157	20.00	22.20	ug/L	11	30	0.0500	u
1,1-Dichloroethene	0.2587	0.2408	20.00	18.62	ug/L	-7	20	0.0500	u
Methylene Chloride	0.3481	0.3278	20.00	18.83	ug/L	-6	30	0.0500	u
Carbon Disulfide	1.0343	0.9955	20.00	19.25	ug/L	-4	30	0.0500	u
MTBE	0.7326	0.6572	20.00	17.94	ug/L	-10	30	0.0500	u
trans-1,2-Dichloroethene	0.3066	0.2981	20.00	19.44	ug/L	-3	30	0.0500	u
Vinyl Acetate	0.4971	0.7351	20.00	29.58	ug/L	**48**	40	0.0500	c+ u ***
1,1-Dichloroethane	0.6385	0.5748	20.00	18.00	ug/L	-10	30	0.1000	u
2-Butanone	0.1319	0.1330	20.00	20.16	ug/L	1	40	0.0500	u
cis-1,2-Dichloroethene	0.3397	0.3389	20.00	19.95	ug/L	0	30	0.0500	u
2,2-Dichloropropane	0.4112	0.4300	20.00	20.91	ug/L	5	30	0.0500	u
Chloroform	0.5784	0.5425	20.00	18.76	ug/L	-6	20	0.0500	u
Bromochloromethane	0.1596	0.1434	20.00	17.97	ug/L	-10	30	0.0500	u
1,1,1-Trichloroethane	0.4115	0.4414	20.00	21.46	ug/L	7	30	0.0500	u
1,1-Dichloropropene	0.2552	0.2898	20.00	22.72	ug/L	14	30	0.0500	u
Carbon Tetrachloride	0.2298	0.2400	20.00	20.89	ug/L	4	30	0.0500	u
1,2-Dichloroethane	0.2712	0.2953	20.00	21.78	ug/L	9	30	0.0500	u
Benzene	0.8592	0.8833	20.00	20.56	ug/L	3	30	0.0500	u
Trichloroethene	0.2109	0.2193	20.00	20.80	ug/L	4	30	0.0500	u
1,2-Dichloropropane	0.2596	0.2480	20.00	19.10	ug/L	-4	20	0.0500	u
Bromodichloromethane	0.2905	0.3005	20.00	20.69	ug/L	3	30	0.0500	u
Dibromomethane	0.1324	0.1251	20.00	18.89	ug/L	-6	30	0.0500	u
4-Methyl-2-Pentanone	0.1859	0.1799	20.00	19.36	ug/L	-3	40	0.0500	u
cis-1,3-Dichloropropene	0.3386	0.3831	20.00	22.63	ug/L	13	30	0.0500	u
Toluene	0.6465	0.6864	20.00	21.23	ug/L	6	20	0.0500	u
trans-1,3-Dichloropropene	0.3675	0.3934	20.00	21.41	ug/L	7	30	0.0500	u
1,1,2-Trichloroethane	0.1259	0.1270	20.00	20.18	ug/L	1	30	0.0500	u
2-Hexanone	0.1751	0.1885	20.00	21.52	ug/L	8	40	0.0500	u
1,3-Dichloropropane	0.3819	0.3914	20.00	20.49	ug/L	2	30	0.0500	u
Tetrachloroethene	0.2171	0.2140	20.00	19.72	ug/L	-1	30	0.0500	u
Dibromochloromethane	0.2582	0.2603	20.00	20.16	ug/L	1	30	0.0500	u
1,2-Dibromoethane	0.2193	0.2262	20.00	20.63	ug/L	3	30	0.0500	u
Chlorobenzene	0.7147	0.7601	20.00	21.27	ug/L	6	30	0.3000	u
1,1,1,2-Tetrachloroethane	0.2441	0.2639	20.00	21.63	ug/L	8	30	0.0500	u
Ethylbenzene	1.1139	1.2454	20.00	22.36	ug/L	12	20	0.0500	u
m,p-Xylenes	0.4041	0.4783	40.00	47.35	ug/L	18	30	0.0500	u
o-Xylene	0.4143	0.4634	20.00	22.37	ug/L	12	30	0.0500	u
Styrene	0.7252	0.7912	20.00	21.82	ug/L	9	30	0.0500	u
Bromoform	0.1350	0.1387	20.00	20.55	ug/L	3	30	0.1000	u
Isopropylbenzene	1.9356	2.2430	20.00	23.18	ug/L	16	30	0.0500	u

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	0.4884	0.5134	20.00	21.02	ug/L	5	30	0.3000	u
1,2,3-Trichloropropane	0.1168	0.1215	20.00	20.80	ug/L	4	30	0.0500	u
Propylbenzene	2.2693	2.7172	20.00	23.95	ug/L	20	30	0.0500	u
Bromobenzene	0.5767	0.6097	20.00	21.15	ug/L	6	30	0.0500	u
1,3,5-Trimethylbenzene	1.5151	1.8112	20.00	23.91	ug/L	20	30	0.0500	u
2-Chlorotoluene	1.6040	1.9805	20.00	24.69	ug/L	23	30	0.0500	u
4-Chlorotoluene	1.4733	1.6819	20.00	22.83	ug/L	14	30	0.0500	u
tert-Butylbenzene	1.2402	1.4975	20.00	24.15	ug/L	21	30	0.0500	u
1,2,4-Trimethylbenzene	1.5009	1.6774	20.00	22.35	ug/L	12	30	0.0500	u
sec-Butylbenzene	1.7736	2.1965	20.00	24.77	ug/L	24	30	0.0500	!v+ u
para-Isopropyl Toluene	1.3677	1.4746	20.00	21.56	ug/L	8	30	0.0500	u
1,3-Dichlorobenzene	0.9150	0.9899	20.00	21.64	ug/L	8	30	0.0500	u
1,4-Dichlorobenzene	0.9614	0.9909	20.00	20.61	ug/L	3	30	0.0500	u
n-Butylbenzene	1.1646	1.4208	20.00	24.40	ug/L	22	30	0.0500	u
1,2-Dichlorobenzene	0.8773	0.9515	20.00	21.69	ug/L	8	30	0.0500	u
1,2-Dibromo-3-Chloropropane	0.0672	0.0707	20.00	21.06	ug/L	5	30	0.0500	u
1,2,4-Trichlorobenzene	0.3709	0.3918	20.00	21.13	ug/L	6	30	0.0500	u
Hexachlorobutadiene	0.1375	0.1877	20.00	27.31	ug/L	**37**	30	0.0500	c+ u v+ ***
Naphthalene	0.7481	0.7562	20.00	20.22	ug/L	1	30	0.0500	u
1,2,3-Trichlorobenzene	0.3441	0.3569	20.00	20.74	ug/L	4	30	0.0500	u
Dibromofluoromethane	0.5262	0.5251	50.00	49.90	ug/L	0	30	0.0500	u
1,2-Dichloroethane-d4	0.2823	0.2956	50.00	52.36	ug/L	5	30	0.0500	u
Toluene-d8	1.4453	1.4746	50.00	51.01	ug/L	2	30	0.0500	u
Bromofluorobenzene	1.0159	1.0310	50.00	50.75	ug/L	1	30	0.0500	u

ISTD (ICAL il511)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	2180155	2321484	6.48	11.32	11.30	-0.02
1,4-Difluorobenzene	3062977	3187674	4.07	12.60	12.56	-0.04
Chlorobenzene-d5	2281124	2358062	3.37	16.88	16.86	-0.02
1,4-Dichlorobenzene-d4	1153901	1171800	1.55	19.34	19.31	-0.03

Analyst: TEW Date: 12/10/13 Reviewer: LLH Date: 12/10/13

!=warning +=high bias -=low bias c=CCV u=use v=ICV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 251273 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : A/A IDF : 1.0
Seqnum : 483494623008 File : il908 Time : 09-DEC-2013 15:31
Cal : 483488653001 Caldate : 05-DEC-2013 Caltype : WATER
Standards: S23745 (50000X), S23755 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Dibromofluoromethane	0.5262	0.5421	50.00	51.52	ug/L	3	30	0.0500	
1,2-Dichloroethane-d4	0.2823	0.3183	50.00	56.38	ug/L	13	30	0.0500	
Toluene-d8	1.4453	1.4761	50.00	51.07	ug/L	2	30	0.0500	
Bromofluorobenzene	1.0159	1.0624	50.00	52.29	ug/L	5	30	0.0500	

ISTD (ICAL il511)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	2180155	2145530	-1.59	11.32	11.32	0.00
1,4-Difluorobenzene	3062977	3045439	-0.57	12.60	12.58	-0.02
Chlorobenzene-d5	2281124	2243516	-1.65	16.88	16.88	0.00
1,4-Dichlorobenzene-d4	1153901	1058079	-8.30	19.34	19.32	-0.02

TEW 12/10/13 : Not needed.

Analyst: TEW Date: 12/10/13 Reviewer: _____ Date: _____

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 251273 MSVOA Water
EPA 8260B

Inst : MSVOA11 IDF : 1.0
Seqnum : 833488651006 File : kl506 Time : 05-DEC-2013 10:16
Cal : 833457042001 Caldate : 13-NOV-2013 Caltype : WATER
Standards: S23611 (33330X), S21354 (33330X), S23678 (33330X), S22790 (33330X), S23744 (2500X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.4943	0.3846	15.00	11.67	ug/L	**-22**	30	0.0500	!c- !v+
Chloromethane	0.5320	0.5229	15.00	14.75	ug/L	-2	30	0.1000	
Vinyl Chloride	0.5525	0.4996	15.00	13.56	ug/L	-10	20	0.0500	
Bromomethane	0.2690	0.2800	15.00	15.62	ug/L	4	30	0.0500	!v-
Chloroethane	0.3125	0.2888	15.00	13.86	ug/L	-8	30	0.0500	
Trichlorofluoromethane	0.6954	0.5622	15.00	12.13	ug/L	-19	30	0.0500	
Acetone	0.1860	0.1456	15.00	11.74	ug/L	**-22**	40	0.0500	!c-
Freon 113	0.3218	0.2795	15.00	13.03	ug/L	-13	30	0.0500	
1,1-Dichloroethene	0.3305	0.3252	15.00	14.76	ug/L	-2	20	0.0500	
Methylene Chloride	0.4348	0.4273	15.00	14.74	ug/L	-2	30	0.0500	
Carbon Disulfide	1.0694	1.2487	15.00	17.51	ug/L	17	30	0.0500	!v+
MTBE	1.3460	1.1640	15.00	12.97	ug/L	-14	30	0.0500	
trans-1,2-Dichloroethene	0.4193	0.4023	15.00	14.39	ug/L	-4	30	0.0500	
Vinyl Acetate	0.6846	0.6231	15.00	13.65	ug/L	-9	40	0.0500	!v+
1,1-Dichloroethane	0.8182	0.7105	15.00	13.02	ug/L	-13	30	0.1000	
2-Butanone	0.2408	0.1826	15.00	11.37	ug/L	**-24**	40	0.0500	!c-
2,2-Dichloropropane	0.6497	0.5430	15.00	12.54	ug/L	-16	30	0.0500	
cis-1,2-Dichloroethene	0.5007	0.4570	15.00	13.69	ug/L	-9	30	0.0500	
Chloroform	0.8428	0.7190	15.00	12.80	ug/L	-15	20	0.0500	
Bromochloromethane	0.2362	0.2321	15.00	14.74	ug/L	-2	30	0.0500	
1,1,1-Trichloroethane	0.6943	0.5677	15.00	12.27	ug/L	-18	30	0.0500	
1,1-Dichloropropene	0.3722	0.3144	15.00	12.67	ug/L	-16	30	0.0500	
Carbon Tetrachloride	0.3685	0.3185	15.00	12.97	ug/L	-14	30	0.0500	
1,2-Dichloroethane	0.4040	0.3478	15.00	12.91	ug/L	-14	30	0.0500	
Benzene	1.2646	1.1786	15.00	13.98	ug/L	-7	30	0.0500	
Trichloroethene	0.3313	0.3029	15.00	13.71	ug/L	-9	30	0.0500	
1,2-Dichloropropane	0.3471	0.3186	15.00	13.77	ug/L	-8	20	0.0500	
Bromodichloromethane	0.4284	0.3951	15.00	13.83	ug/L	-8	30	0.0500	
Dibromomethane	0.1926	0.1833	15.00	14.28	ug/L	-5	30	0.0500	
4-Methyl-2-Pentanone	0.3089	0.2446	15.00	11.88	ug/L	**-21**	40	0.0500	!c-
cis-1,3-Dichloropropene	0.5158	0.4787	15.00	13.92	ug/L	-7	30	0.0500	
Toluene	0.9088	0.8243	15.00	13.61	ug/L	-9	20	0.0500	
trans-1,3-Dichloropropene	0.5371	0.4844	15.00	13.53	ug/L	-10	30	0.0500	
1,1,2-Trichloroethane	0.1828	0.1717	15.00	14.09	ug/L	-6	30	0.0500	
2-Hexanone	0.2629	0.2051	15.00	11.70	ug/L	**-22**	40	0.0500	!c-
1,3-Dichloropropane	0.5470	0.4900	15.00	13.44	ug/L	-10	30	0.0500	
Tetrachloroethene	0.3585	0.3294	15.00	13.78	ug/L	-8	30	0.0500	
Dibromochloromethane	0.3777	0.3656	15.00	14.52	ug/L	-3	30	0.0500	
1,2-Dibromoethane	0.3280	0.3124	15.00	14.29	ug/L	-5	30	0.0500	
Chlorobenzene	1.0325	0.9652	15.00	14.02	ug/L	-7	30	0.3000	
1,1,1,2-Tetrachloroethane	0.3572	0.3348	15.00	14.06	ug/L	-6	30	0.0500	
Ethylbenzene	1.8006	1.5773	15.00	13.14	ug/L	-12	20	0.0500	
m,p-Xylenes	0.6786	0.6251	30.00	27.63	ug/L	-8	30	0.0500	
o-Xylene	0.6660	0.6099	15.00	13.74	ug/L	-8	30	0.0500	
Styrene	1.1576	1.0880	15.00	14.10	ug/L	-6	30	0.0500	
Bromoform	0.2613	0.2671	15.00	15.33	ug/L	2	30	0.1000	
Isopropylbenzene	3.4558	2.8636	15.00	12.43	ug/L	-17	30	0.0500	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	0.8238	0.7239	15.00	13.18	ug/L	-12	30	0.3000	
1,2,3-Trichloropropane	0.8275	0.6732	15.00	12.20	ug/L	-19	30	0.0500	
Propylbenzene	4.1763	3.4041	15.00	12.23	ug/L	-18	30	0.0500	
Bromobenzene	0.8922	0.8522	15.00	14.33	ug/L	-4	30	0.0500	
1,3,5-Trimethylbenzene	2.9614	2.5302	15.00	12.82	ug/L	-15	30	0.0500	
2-Chlorotoluene	2.7809	2.3643	15.00	12.75	ug/L	-15	30	0.0500	
4-Chlorotoluene	2.5953	2.2175	15.00	12.82	ug/L	-15	30	0.0500	
tert-Butylbenzene	2.5351	2.0946	15.00	12.39	ug/L	-17	30	0.0500	
1,2,4-Trimethylbenzene	2.9511	2.5149	15.00	12.78	ug/L	-15	30	0.0500	
sec-Butylbenzene	3.6859	2.9397	15.00	11.96	ug/L	-20	30	0.0500	
para-Isopropyl Toluene	3.0335	2.4540	15.00	12.13	ug/L	-19	30	0.0500	
1,3-Dichlorobenzene	1.6349	1.5450	15.00	14.18	ug/L	-5	30	0.0500	
1,4-Dichlorobenzene	1.6773	1.5609	15.00	13.96	ug/L	-7	30	0.0500	
n-Butylbenzene	2.7051	2.0575	15.00	11.41	ug/L	**-24**	30	0.0500	!c-
1,2-Dichlorobenzene	1.5602	1.4795	15.00	14.22	ug/L	-5	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1616	0.1273	15.00	11.82	ug/L	**-21**	30	0.0500	!c-
1,2,4-Trichlorobenzene	0.8929	0.8262	15.00	13.88	ug/L	-7	30	0.0500	
Hexachlorobutadiene	0.5224	0.4124	15.00	11.84	ug/L	**-21**	30	0.0500	!c-
Naphthalene	1.8669	1.6755	15.00	13.46	ug/L	-10	30	0.0500	
1,2,3-Trichlorobenzene	0.6920	0.6657	15.00	14.43	ug/L	-4	30	0.0500	
Dibromofluoromethane	0.4529	0.4245	50.00	46.86	ug/L	-6	30	0.0500	
1,2-Dichloroethane-d4	0.3615	0.3101	50.00	42.90	ug/L	-14	30	0.0500	
Toluene-d8	1.4165	1.3635	50.00	48.13	ug/L	-4	30	0.0500	
Bromofluorobenzene	1.0052	0.9396	50.00	46.74	ug/L	-7	30	0.0500	

ISTD (ICAL kkd15)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	583487	550208	-5.70	10.90	10.89	-0.01
1,4-Difluorobenzene	896648	813727	-9.25	11.83	11.83	0.00
Chlorobenzene-d5	798987	735657	-7.93	14.91	14.91	0.00
1,4-Dichlorobenzene-d4	405442	383419	-5.43	17.19	17.19	0.01

Analyst: DJA Date: 12/05/13 Reviewer: LW Date: 12/06/13

!=warning +=high bias -=low bias c=CCV v=ICV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 251273 MSVOA Water
EPA 8260B

Inst : MSVOA14 IDF : 1.0
Seqnum : 953485638018 File : nl318 Time : 03-DEC-2013 15:41
Cal : 953461780001 Caldate : 16-NOV-2013
Standards: S22790 (33330X), S23700 (33330X), S23701 (33330X), S21576 (33330X), S23601 (2500X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.6498	0.6268	15.00	14.47	ug/L	-4	30	0.0500	v+ ***
Chloromethane	0.6416	0.8515	15.00	19.91	ug/L	**33**	30	0.1000	c+ ***
Vinyl Chloride	0.8853	0.8261	15.00	14.00	ug/L	-7	20	0.0500	
Bromomethane	0.3744	0.4384	15.00	17.57	ug/L	17	30	0.0500	!v-
Chloroethane	0.5705	0.5987	15.00	15.74	ug/L	5	30	0.0500	
Trichlorofluoromethane	1.1063	0.8274	15.00	11.22	ug/L	**-25**	30	0.0500	!c-
Acetone	0.5253	0.3757	15.00	10.73	ug/L	**-28**	40	0.0500	!c-
Freon 113	0.6842	0.6165	15.00	13.52	ug/L	-10	30	0.0500	
1,1-Dichloroethene	0.6343	0.5854	15.00	13.84	ug/L	-8	20	0.0500	
Methylene Chloride	0.7363	0.7460	15.00	15.20	ug/L	1	30	0.0500	
Carbon Disulfide	2.3950	2.3125	15.00	14.48	ug/L	-3	30	0.0500	
MTBE	2.3795	2.1028	15.00	13.26	ug/L	-12	30	0.0500	
trans-1,2-Dichloroethene	0.6964	0.6548	15.00	14.10	ug/L	-6	30	0.0500	
Vinyl Acetate	0.9848	1.4410	15.00	21.95	ug/L	**46**	40	0.0500	c+ ***
1,1-Dichloroethane	1.3917	1.3707	15.00	14.77	ug/L	-2	30	0.1000	
2-Butanone	0.4046	0.3745	15.00	13.89	ug/L	-7	40	0.0500	
2,2-Dichloropropane	0.7368	0.8805	15.00	17.93	ug/L	20	30	0.0500	
cis-1,2-Dichloroethene	0.5473	0.5802	15.00	15.90	ug/L	6	30	0.0500	
Chloroform	0.9263	1.1086	15.00	17.95	ug/L	20	20	0.0500	
Bromochloromethane	0.2412	0.2912	15.00	18.11	ug/L	**21**	30	0.0500	!c+
1,1,1-Trichloroethane	0.7789	0.8134	15.00	15.67	ug/L	4	30	0.0500	
1,1-Dichloropropene	0.4348	0.4057	15.00	14.00	ug/L	-7	30	0.0500	
Carbon Tetrachloride	0.3468	0.3504	15.00	15.16	ug/L	1	30	0.0500	
1,2-Dichloroethane	0.4705	0.5491	15.00	17.51	ug/L	17	30	0.0500	
Benzene	1.3947	1.5283	15.00	16.44	ug/L	10	30	0.0500	
Trichloroethene	0.3411	0.3343	15.00	14.70	ug/L	-2	30	0.0500	
1,2-Dichloropropane	0.3809	0.4377	15.00	17.24	ug/L	15	20	0.0500	
Bromodichloromethane	0.4399	0.4988	15.00	17.01	ug/L	13	30	0.0500	
Dibromomethane	0.1965	0.2178	15.00	16.63	ug/L	11	30	0.0500	
4-Methyl-2-Pentanone	0.3940	0.3928	15.00	14.96	ug/L	0	40	0.0500	
cis-1,3-Dichloropropene	0.5419	0.6048	15.00	16.74	ug/L	12	30	0.0500	
Toluene	1.5890	1.6366	15.00	15.45	ug/L	3	20	0.0500	
trans-1,3-Dichloropropene	0.5250	0.5306	15.00	15.16	ug/L	1	30	0.0500	
1,1,2-Trichloroethane	0.1777	0.1920	15.00	16.21	ug/L	8	30	0.0500	
2-Hexanone	0.3554	0.2676	15.00	11.30	ug/L	**-25**	40	0.0500	!c-
1,3-Dichloropropane	0.5842	0.6217	15.00	15.96	ug/L	6	30	0.0500	
Tetrachloroethene	0.3382	0.3250	15.00	14.41	ug/L	-4	30	0.0500	
Dibromochloromethane	0.3176	0.3390	15.00	16.01	ug/L	7	30	0.0500	
1,2-Dibromoethane	0.3073	0.3038	15.00	14.83	ug/L	-1	30	0.0500	
Chlorobenzene	1.0136	1.0696	15.00	15.83	ug/L	6	30	0.3000	
1,1,1,2-Tetrachloroethane	0.3210	0.3443	15.00	16.09	ug/L	7	30	0.0500	
Ethylbenzene	1.8383	1.7874	15.00	14.58	ug/L	-3	20	0.0500	
m,p-Xylenes	0.6643	0.6684	30.00	30.19	ug/L	1	30	0.0500	
o-Xylene	0.6438	0.5994	15.00	13.97	ug/L	-7	30	0.0500	
Styrene	1.1249	1.1369	15.00	15.16	ug/L	1	30	0.0500	
Bromoform	0.2279	0.2388	15.00	15.72	ug/L	5	30	0.1000	
Isopropylbenzene	3.2534	2.8128	15.00	12.97	ug/L	-14	30	0.0500	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	0.7616	0.8679	15.00	17.09	ug/L	14	30	0.3000	
1,2,3-Trichloropropane	0.8425	0.8588	15.00	15.29	ug/L	2	30	0.0500	
Propylbenzene	3.9865	3.8794	15.00	14.60	ug/L	-3	30	0.0500	
Bromobenzene	0.7667	0.7911	15.00	15.48	ug/L	3	30	0.0500	
1,3,5-Trimethylbenzene	2.6555	2.5773	15.00	14.56	ug/L	-3	30	0.0500	
2-Chlorotoluene	2.5331	2.6139	15.00	15.48	ug/L	3	30	0.0500	
4-Chlorotoluene	2.3401	2.3253	15.00	14.91	ug/L	-1	30	0.0500	
tert-Butylbenzene	2.3645	2.1165	15.00	13.43	ug/L	-10	30	0.0500	
1,2,4-Trimethylbenzene	2.7472	2.8075	15.00	15.33	ug/L	2	30	0.0500	
sec-Butylbenzene	3.5476	3.4245	15.00	14.48	ug/L	-3	30	0.0500	
para-Isopropyl Toluene	2.9274	2.7901	15.00	14.30	ug/L	-5	30	0.0500	
1,3-Dichlorobenzene	1.4604	1.5654	15.00	16.08	ug/L	7	30	0.0500	
1,4-Dichlorobenzene	1.5326	1.6544	15.00	16.19	ug/L	8	30	0.0500	
n-Butylbenzene	2.7882	2.8941	15.00	15.57	ug/L	4	30	0.0500	
1,2-Dichlorobenzene	1.4233	1.4827	15.00	15.63	ug/L	4	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1623	0.1548	15.00	14.30	ug/L	-5	30	0.0500	
1,2,4-Trichlorobenzene	0.9625	0.9598	15.00	14.96	ug/L	0	30	0.0500	
Hexachlorobutadiene	0.4740	0.5266	15.00	16.66	ug/L	11	30	0.0500	
Naphthalene	2.4479	2.2407	15.00	13.73	ug/L	-8	30	0.0500	
1,2,3-Trichlorobenzene	0.9340	0.9596	15.00	15.41	ug/L	3	30	0.0500	
Dibromofluoromethane	0.4559	0.5237	50.00	57.44	ug/L	15	30	0.0500	
1,2-Dichloroethane-d4	0.4065	0.4525	50.00	55.67	ug/L	11	30	0.0500	
Toluene-d8	1.4047	1.4072	50.00	50.09	ug/L	0	30	0.0500	
Bromofluorobenzene	0.9192	0.8746	50.00	47.58	ug/L	-5	30	0.0500	

ISTD (ICAL nkg18)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	480307	511764	6.55	11.20	11.20	0.00
1,4-Difluorobenzene	797815	848609	6.37	12.05	12.05	0.00
Chlorobenzene-d5	757521	835382	10.28	14.89	14.89	0.00
1,4-Dichlorobenzene-d4	408949	456833	11.71	16.92	16.92	0.00

Analyst: MCT Date: 12/04/13 Reviewer: LW Date: 12/04/13

!=warning +=high bias -=low bias c=CCV v=ICV

Logbooks & Sequences

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 413487124

Date : 12/04/13 Reference : bke11
Sequence : MSVOA02 bl4 Analyzed : 11/14/13 16:27

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	349648	11.61	714566	12.84	626466	17.41	281251	20.79
		LOWER LIMIT	174824	11.11	357283	12.34	313233	16.91	140626	20.29
		UPPER LIMIT	699296	12.11	1429132	13.34	1252932	17.91	562502	21.29
004	CCV	15PPB	305616	11.59	613198	12.82	541364	17.40	246465	20.78
005	CCV/BS	QC718766	312026	11.58	617768	12.82	546016	17.40	247314	20.78
006	BSD	QC718767	319588	11.59	635628	12.82	556563	17.40	248987	20.79
009	BLANK	QC718768	316726	11.58	604583	12.82	502973	17.40	122155 *	20.78
010	BLANK	QC718768	306052	11.59	614849	12.82	530327	17.40	231179	20.79
011	SAMPLE	251273-001	302941	11.59	599966	12.82	534889	17.41	226267	20.79
012	SAMPLE	251273-003	302670	11.59	598405	12.82	531474	17.41	220071	20.79
013	SAMPLE	251273-005	293673	11.59	596652	12.83	518546	17.40	218062	20.79
014	SAMPLE	251273-007	295347	11.59	584596	12.83	513170	17.40	217424	20.79
015	SAMPLE	251273-009	293737	11.59	577438	12.82	512057	17.41	215398	20.79
016	SAMPLE	251273-010	289665	11.59	582481	12.83	510788	17.40	216095	20.79
017	SAMPLE	251273-008	285697	11.59	566600	12.82	505007	17.41	210618	20.79
018	MSS	251252-002	284543	11.59	566405	12.83	503280	17.40	209336	20.79
019	SAMPLE	251194-004	284534	11.58	568499	12.83	505512	17.40	213244	20.79
020	SAMPLE	251194-005	278496	11.59	563672	12.82	497986	17.41	212531	20.79
021	SAMPLE	251194-002	280685	11.59	567992	12.83	494740	17.40	207549	20.79
022	MS	QC718837	285701	11.59	562411	12.82	504897	17.41	233600	20.79
023	MSD	QC718838	289516	11.59	581116	12.82	516774	17.40	240114	20.79

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 483494623

Date : 12/09/13 Reference : il511
Sequence : MSVOA09 il9 Analyzed : 12/05/13 13:55

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	2180155	11.32	3062977	12.60	2281124	16.88	1153901	19.34
		LOWER LIMIT	1090078	10.82	1531489	12.10	1140562	16.38	576951	18.84
		UPPER LIMIT	4360310	11.82	6125954	13.10	4562248	17.38	2307802	19.84
003	CCV	30PPB	2325162	11.30	3183058	12.56	2475872	16.86	1233813	19.31
004	CCV/BS	QC719431	2321484	11.30	3187674	12.56	2358062	16.86	1171800	19.31
005	BSD	QC719432	2338976	11.31	3282122	12.57	2424346	16.87	1203322	19.32
006	CCV/BS	QC719433	2240272	11.31	3130123	12.57	2274915	16.87	1135052	19.32
007	BSD	QC719434	2233553	11.31	3153342	12.57	2327719	16.87	1145714	19.32
008	CCV	A/A	2145530	11.32	3045439	12.58	2243516	16.88	1058079	19.32
010	BLANK	QC719430	2120086	11.31	2988676	12.57	2156647	16.87	995984	19.33
011	SAMPLE	251273-008	2011186	11.31	2829089	12.58	2102805	16.87	979654	19.32
012	SAMPLE	251296-004	1940338	11.31	2722963	12.57	2051379	16.87	942578	19.33
013	SAMPLE	251296-005	1834260	11.32	2637412	12.58	1995168	16.88	922470	19.32
014	SAMPLE	251276-016	1783170	11.31	2585954	12.58	1947323	16.87	910796	19.32
015	SAMPLE	251374-007	1739552	11.31	2501141	12.57	1851212	16.87	896053	19.32
016	SAMPLE	251323-004	1680659	11.31	2407104	12.57	1839450	16.87	876416	19.32
017	SAMPLE	251323-005	1692220	11.30	2446873	12.58	1821852	16.87	883377	19.32
018	SAMPLE	251304-003	1651738	11.31	2361015	12.57	1776713	16.87	824341	19.31
019	SAMPLE	251304-004	1552899	11.31	2289180	12.57	1709985	16.87	799272	19.32
020	SAMPLE	251304-006	1577171	11.31	2313618	12.57	1669408	16.87	787278	19.32
021	SAMPLE	251304-002	1577696	11.31	2263156	12.57	1658854	16.87	794375	19.31

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 833488651

Date : 12/05/13 Reference : kkd15
Sequence : MSVOA11 kl5 Analyzed : 11/13/13 17:00

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	583487	10.90	896648	11.83	798987	14.91	405442	17.19
		LOWER LIMIT	291744	10.40	448324	11.33	399494	14.41	202721	16.69
		UPPER LIMIT	1166974	11.40	1793296	12.33	1597974	15.41	810884	17.69
006	CCV		550208	10.89	813727	11.83	735657	14.91	383419	17.19
007	BS	QC718982	554469	10.89	817505	11.83	739700	14.91	382427	17.19
008	BSD	QC718983	564407	10.90	845265	11.83	750040	14.91	386666	17.19
010	BLANK	QC718984	514818	10.90	776567	11.83	704305	14.91	353185	17.18
011	SAMPLE	251273-011	508989	10.90	769124	11.83	694755	14.91	354628	17.19
012	SAMPLE	251323-007	513850	10.90	768224	11.83	687143	14.91	349050	17.19
013	SAMPLE	251323-008	515873	10.90	780841	11.83	713788	14.91	363105	17.19
014	SAMPLE	251273-004	507829	10.90	761232	11.83	694824	14.91	354088	17.19
015	SAMPLE	251273-006	518464	10.90	781607	11.83	705345	14.91	358726	17.19
016	SAMPLE	251262-002	508868	10.90	768303	11.83	695891	14.91	356077	17.19
017	SAMPLE	251323-001	505091	10.90	761012	11.83	699887	14.91	354998	17.19
018	SAMPLE	251323-002	520477	10.90	784833	11.83	703296	14.91	353061	17.19
019	SAMPLE	251323-003	491952	10.90	746413	11.83	691679	14.91	347982	17.19
020	MSS	251323-006	495912	10.90	743868	11.83	674967	14.91	344485	17.19
021	SAMPLE	251323-009	508631	10.90	766665	11.83	700500	14.91	355760	17.19
022	SAMPLE	251251-013	509997	10.90	767796	11.83	700954	14.91	352809	17.19
023	SAMPLE	251251-014	506227	10.90	768955	11.83	703733	14.91	357023	17.18
024	SAMPLE	251251-015	510030	10.90	771362	11.83	705973	14.90	363596	17.18
025	SAMPLE	251323-005	504785	10.90	759284	11.83	697456	14.90	356810	17.19
026	SAMPLE	251323-004	493294	10.90	741160	11.83	674772	14.91	340943	17.19
027	MS	QC719020	521846	10.90	786512	11.83	711997	14.91	375826	17.18
028	MSD	QC719021	524005	10.90	785964	11.83	718321	14.91	376816	17.18

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 953485638

Date : 12/03/13 Reference : nkg18
Sequence : MSVOA14 nl3 Analyzed : 11/17/13 00:28

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	480307	11.20	797815	12.05	757521	14.89	408949	16.92
		LOWER LIMIT	240154	10.70	398908	11.55	378761	14.39	204475	16.42
		UPPER LIMIT	960614	11.70	1595630	12.55	1515042	15.39	817898	17.42
007	CCV		616673	11.20	1002488	12.05	1010736	14.89	565854	16.92
008	CCV		633017	11.20	993940	12.05	1009458	14.89	562804	16.92
014	CCV		665362	11.20	1090008	12.05	1089339	14.89	606243	16.92
015	CCV		645985	11.20	1060577	12.05	1026599	14.89	574524	16.92
018	CCV		511764	11.20	848609	12.05	835382	14.89	456833	16.92
019	BS	QC718594	501837	11.20	823743	12.05	811788	14.89	441492	16.92
020	BSD	QC718595	499246	11.20	828574	12.05	815782	14.89	447799	16.92
021	IB		451727	11.20	794788	12.05	728020	14.89	370849	16.92
022	BLANK	QC718596	444641	11.20	802533	12.05	737134	14.89	370248	16.92
023	SAMPLE	251254-004	423323	11.20	769775	12.05	708974	14.89	368129	16.92
024	SAMPLE	251254-001	430940	11.20	765411	12.05	707937	14.89	357057	16.92
025	SAMPLE	251254-002	415846	11.20	763603	12.05	706660	14.89	363430	16.92
026	SAMPLE	251254-003	400015	11.20	741588	12.05	693196	14.89	353074	16.92
027	SAMPLE	251254-005	410269	11.20	743782	12.05	700729	14.89	352861	16.92
028	SAMPLE	251273-001	406539	11.20	751779	12.05	704655	14.89	355437	16.92
029	SAMPLE	251273-002	407045	11.20	758351	12.05	698916	14.89	357121	16.92
030	SAMPLE	251273-003	395026	11.20	737100	12.05	684571	14.89	346380	16.92
031	SAMPLE	251273-004	400818	11.20	738021	12.05	692761	14.89	355816	16.92
032	SAMPLE	251273-005	392267	11.20	729375	12.05	689095	14.89	352186	16.92
033	SAMPLE	251273-006	391473	11.20	732312	12.05	683148	14.89	346688	16.92
034	SAMPLE	251273-007	398984	11.20	739709	12.05	696533	14.89	351618	16.92
035	SAMPLE	251273-009	398662	11.20	733440	12.05	688571	14.89	346762	16.92
036	SAMPLE	251273-010	395497	11.20	742912	12.05	697867	14.89	349964	16.92
037	SAMPLE	251273-011	395404	11.20	730350	12.05	686032	14.89	348709	16.92

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 413458513

Instrument : MSVOA02 Begun : 11/14/13 09:53
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	bke01	TUN	BFB			11/14/13 09:53	1.0	1	
002	bke02	IB				11/14/13 11:12	1.0	2	
003	bke03	IB				11/14/13 11:47	1.0	2	
004	bke04	IB	CALIB IB			11/14/13 12:22	1.0	2	
005	bke05	ICAL	.25/.5PPB			11/14/13 12:57	1.0	3 4 5 6 2	
006	bke06	ICAL	.5/1PPB			11/14/13 13:32	1.0	2 3 4 5 6	
007	bke07	ICAL	2PPB			11/14/13 14:07	1.0	3 4 7 8 2	
008	bke08	ICAL	5PPB			11/14/13 14:42	1.0	2 3 4 7 8	
009	bke09	ICAL	10PPB			11/14/13 15:17	1.0	2 3 4 7 8	
010	bke10	ICAL	20PPB			11/14/13 15:52	1.0	2 3 4 7 8	
011	bke11	ICAL	50PPB			11/14/13 16:27	1.0	2 3 4 7 8	
012	bke12	ICAL	75PPB			11/14/13 17:02	1.0	2 3 4 7 8	
013	bke13	ICAL	100PPB			11/14/13 17:37	1.0	2 3 4 7 8	
014	bke14	ICV	GAS			11/14/13 18:13	1.0	9 2	

BO 11/15/13 : Seq. stopped due to A/S error

BO 12/03/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 14.

Analyst: BO Date: 11/15/13 Reviewer: LW Date: 11/18/13

Standards used: 1=S22624 2=S23570 3=S22433 4=S23518 5=S23611 6=S21354 7=S23517 8=S23472 9=S23276

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 413459992

Instrument : MSVOA02 Begun : 11/15/13 10:32
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
003	bkf03	TUN	BFB			11/15/13 10:32	1.0	1	
004	bkf04	CCV	20PPB			11/15/13 10:49	1.0	2 3 4 5 6	
005	bkf05	TUN	BFB			11/15/13 11:49	1.0	1	
006	bkf06	CCV	15PPB			11/15/13 12:05	1.0	2 3 4 5 6	
007	bkf07	ICV	2CLEVE			11/15/13 13:25	1.0	7 6	
008	bkf08	ICV	MIX			11/15/13 14:00	1.0	8 9 10 6	
009	bkf09	IB				11/15/13 15:09	1.0	6	
010	bkf10	BLANK	QC716398	Water	205123	11/15/13 15:44	1.0	6	
011	bkf11	LOD	216939-021	Water	205123	11/15/13 16:19	1.0	11 3 4 5 6	
012	bkf12	LOD	216939-021	Water	205123	11/15/13 16:54	1.0	11 3 4 5 6	
013	bkf13	LOD	216939-021	Water	205123	11/15/13 17:28	1.0	11 3 4 5 6	
014	bkf14	LOD	216939-021	Water	205123	11/15/13 18:02	1.0	11 3 4 5 6	
015	bkf15	LOD	216939-021	Water	205123	11/15/13 18:36	1.0	11 3 4 5 6	
016	bkf16	TUN	BFB			11/15/13 19:14	1.0	1	
017	bkf17	CCV/BS	QC716396	Water	205123	11/15/13 20:11	1.0	8 9 10 12 6	
018	bkf18	BSD	QC716397	Water	205123	11/15/13 20:45	1.0	8 9 10 12 6	
019	bkf19	IB				11/15/13 21:20	1.0	6	
020	bkf20	BLANK	QC716399	Water	205123	11/15/13 21:54	1.0	6	
021	bkf21	SAMPLE	250614-002	Water	205123	11/15/13 22:29	1.0	6	
022	bkf22	SAMPLE	250614-003	Water	205123	11/15/13 23:03	1.0	6	
023	bkf23	SAMPLE	250614-001	Water	205123	11/15/13 23:38	1.0	6	
024	bkf24	SAMPLE	250557-001	Water	205123	11/16/13 00:13	1.0	6	
025	bkf25	SAMPLE	250557-002	Water	205123	11/16/13 00:48	1.0	6	
026	bkf26	SAMPLE	250557-003	Water	205123	11/16/13 01:22	1.0	6	
027	bkf27	SAMPLE	250557-004	Water	205123	11/16/13 01:56	1.0	6	
028	bkf28	SAMPLE	250557-005	Water	205123	11/16/13 02:31	1.0	6	
029	bkf29	SAMPLE	250557-006	Water	205123	11/16/13 03:06	1.0	6	
030	bkf30	SAMPLE	250557-007	Water	205123	11/16/13 03:40	1.0	6	
031	bkf31	SAMPLE	250557-008	Water	205123	11/16/13 04:15	1.0	6	
032	bkf32	SAMPLE	250557-009	Water	205123	11/16/13 04:49	1.0	6	
033	bkf33	SAMPLE	250557-011	Water	205123	11/16/13 05:23	1.0	6	1:TCE=110
034	bkf34	SAMPLE	250557-012	Water	205123	11/16/13 05:58	1.0	6	1:TCE=110
035	bkf35	SAMPLE	250557-013	Water	205123	11/16/13 06:32	1.0	6	
036	bkf36	SAMPLE	250614-004	Water	205123	11/16/13 07:06	1.0	6	
037	bkf37	SAMPLE	250614-005	Water	205123	11/16/13 07:40	1.0	6	<<t
038	bkf38	IB				11/16/13 08:15	1.0	6	<<t
039	bkf39	IB				11/16/13 08:49	1.0	6	<<t
040	bkf40	IB				11/16/13 09:23	1.0	6	<<t

BO 11/18/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 40.

BO 11/18/13 : bkf01, bkf02 are not in LIMS due to the wrong method being used in chemstation

KKM 11/19/13 : Matrix spikes were not performed for this analysis in batch 205123 due to insufficient sample amount.

Analyst: KKM Date: 11/19/13 Reviewer: LW Date: 11/19/13

Standards used: 1=S22624 2=S22433 3=S23518 4=S23611 5=S21354 6=S23570 7=S21043 8=S23599 9=S23592 10=S23417 11=S22790 12=S23276

Flags used: <<t=out of clock

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 413487124

Instrument : MSVOA02 Begun : 12/04/13 06:44
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	bl401	X	HIGH GASES			12/04/13 06:44	1.0	1	
002	bl402	X	IB			12/04/13 07:19	1.0	1	
003	bl403	TUN	BFB			12/04/13 07:51	1.0	2	
004	bl404	CCV	15PPB			12/04/13 08:20	1.0	3 4 5 6 1	
005	bl405	CCV/BS	QC718766	Water	205734	12/04/13 09:09	1.0	7 8 9 10 1	
006	bl406	BSD	QC718767	Water	205734	12/04/13 09:44	1.0	7 8 9 10 1	
007	bl407	X	A/A			12/04/13 10:20	1.0	11 1	
008	bl408	X	IB			12/04/13 10:55	1.0	1	
009	bl409	BLANK	QC718768	Water	205734	12/04/13 11:30	1.0	1	
010	bl410	BLANK	QC718768	Water	205734	12/04/13 12:05	1.0	1	
011	bl411	SAMPLE	251273-001	Water	205734	12/04/13 12:40	1.0	1	
012	bl412	SAMPLE	251273-003	Water	205734	12/04/13 13:15	1.0	1	
013	bl413	SAMPLE	251273-005	Water	205734	12/04/13 13:50	1.0	1	
014	bl414	SAMPLE	251273-007	Water	205734	12/04/13 14:26	1.0	1	
015	bl415	SAMPLE	251273-009	Water	205734	12/04/13 15:01	1.0	1	
016	bl416	SAMPLE	251273-010	Water	205734	12/04/13 15:36	1.0	1	
017	bl417	SAMPLE	251273-008	Water	205734	12/04/13 16:11	2.0	1	
018	bl418	MSS	251252-002	Water	205734	12/04/13 16:46	2.0	1	
019	bl419	SAMPLE	251194-004	Water	205734	12/04/13 17:21	200.0	1	
020	bl420	SAMPLE	251194-005	Water	205734	12/04/13 17:57	500.0	1	
021	bl421	SAMPLE	251194-002	Water	205734	12/04/13 18:32	625.0	1	
022	bl422	MS	QC718837	Water	205734	12/04/13 19:08	2.0	7 8 9 10 1	
023	bl423	MSD	QC718838	Water	205734	12/04/13 19:43	2.0	7 8 9 10 1	
024	bl424	X	IB			12/04/13 20:19	1.0	1	
025	bl425	X	IB			12/04/13 20:54	1.0	1	
026	bl426	X	IB			12/04/13 21:30	1.0	1	

MCT 12/05/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 26.

Analyst: MCT Date: 12/05/13 Reviewer: LW Date: 12/05/13

Standards used: 1=S23570 2=S22624 3=S22433 4=S23678 5=S23611 6=S22004 7=S23599 8=S23592 9=S23764 10=S23488 11=S23745

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 483488653

Instrument : MSVOA09 Begun : 12/05/13 08:13
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	il501	X	IB			12/05/13 08:13	1.0	1	
002	il502	X	IB			12/05/13 08:47	1.0	1	
003	il503	TUN	BFB			12/05/13 09:30	1.0	2	
004	il504	IB	CALIB IB			12/05/13 09:59	1.0	3	
005	il505	ICAL	.25/.5PPB			12/05/13 10:32	1.0	4 5 6 7 3	
006	il506	ICAL	0.5/1PPB			12/05/13 11:06	1.0	4 5 6 7 3	
007	il507	ICAL	2PPB			12/05/13 11:40	1.0	4 5 6 7 3	
008	il508	ICAL	5PPB			12/05/13 12:13	1.0	4 5 6 7 3	
009	il509	ICAL	10PPB			12/05/13 12:47	1.0	4 5 6 7 3	
010	il510	ICAL	20PPB			12/05/13 13:21	1.0	4 5 6 7 3	
011	il511	ICAL	50PPB			12/05/13 13:55	1.0	4 5 6 7 3	
012	il512	ICAL	75PPB			12/05/13 14:29	1.0	4 5 6 7 3	
013	il513	ICAL	100PPB			12/05/13 15:02	1.0	4 5 6 7 3	
014	il514	ICV	25PPB			12/05/13 15:36	1.0	8 3	
015	il515	ICV	40PPB			12/05/13 16:10	1.0	9 3	1:CEVETH=190
016	il516	ICV	25PPB			12/05/13 16:44	1.0	10 11 12 3	
017	il517	X	IB			12/05/13 17:18	1.0	3	
018	il518	X	IB			12/05/13 17:51	1.0	3	
019	il519	X	IB			12/05/13 18:25	1.0	3	
020	il520	TUN	BFB			12/05/13 20:41	1.0	2	
022	il522	IB	CALIB			12/05/13 22:34	1.0	3	
023	il523	X				12/05/13 23:08	1.0	13 14 3	2:MIBK=320
024	il524	ICAL	50PPB			12/05/13 23:42	1.0	15 3	
025	il525	ICAL	200PPB			12/06/13 00:16	1.0	15 3	
026	il526	ICAL	500PPB			12/06/13 00:51	1.0	15 3	
027	il527	ICAL	1000PPB			12/06/13 01:25	1.0	15 3	
028	il528	ICAL	2000PPB			12/06/13 01:59	1.0	15 3	
029	il529	ICAL	3000PPB			12/06/13 02:33	1.0	15 3	
030	il530	ICV	1000PPB			12/06/13 03:07	1.0	16 3	
031	il531	IB				12/06/13 03:41	1.0	3	
032	il532	IB				12/06/13 04:15	1.0	3	

BO 12/06/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 32.

Analyst: BO Date: 12/06/13 Reviewer: LW Date: 12/06/13

Standards used: 1=S23582 2=S22624 3=S23755 4=S22790 5=S23700 6=S23701 7=S21576 8=S23488 9=S21043 10=S23599 11=S23592 12=S23764 13=S10280 14=S10281 15=S23227 16=S23229

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 483494623

Instrument : MSVOA09 Begun : 12/09/13 11:43
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	il901	X	IB			12/09/13 11:43	1.0	1	
002	il902	TUN	BFB			12/09/13 12:10	1.0	2	
003	il903	CCV	30PPB			12/09/13 12:34	1.0	3 4 5 6 1	cc+
004	il904	CCV/BS	QC719431	Water	205895	12/09/13 13:16	1.0	7 8 9 10 1	
005	il905	BSD	QC719432	Water	205895	12/09/13 13:50	1.0	7 8 9 10 1	
006	il906	CCV/BS	QC719433	Water	205895	12/09/13 14:24	1.0	11 1	
007	il907	BSD	QC719434	Water	205895	12/09/13 14:58	1.0	11 1	
008	il908	CCV	A/A			12/09/13 15:31	1.0	12 1	
009	il909	X	IB			12/09/13 16:05	1.0	1	
010	il910	BLANK	QC719430	Water	205895	12/09/13 16:39	1.0	1	
011	il911	SAMPLE	251273-008	Water	205895	12/09/13 17:12	1.0	1	
012	il912	SAMPLE	251296-004	Water	205895	12/09/13 17:46	1.0	1	
013	il913	SAMPLE	251296-005	Water	205895	12/09/13 18:20	1.0	1	
014	il914	SAMPLE	251276-016	Water	205895	12/09/13 18:54	1.0	1	pH > 2
015	il915	SAMPLE	251374-007	Water	205895	12/09/13 19:27	1.0	1	pH > 2
016	il916	SAMPLE	251323-004	Water	205895	12/09/13 20:02	1.0	1	
017	il917	SAMPLE	251323-005	Water	205895	12/09/13 20:36	1.0	1	
018	il918	SAMPLE	251304-003	Water	205895	12/09/13 21:10	1.0	1	
019	il919	SAMPLE	251304-004	Water	205895	12/09/13 21:45	1.0	1	
020	il920	SAMPLE	251304-006	Water	205895	12/09/13 22:19	1.0	1	
021	il921	SAMPLE	251304-002	Water	205895	12/09/13 22:53	1.0	1	
022	il922	X	IB			12/09/13 23:27	1.0	1	

TEW 12/10/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 22.

TEW 12/10/13 : Matrix spikes were not performed for this analysis in batch 205895 due to insufficient sample amount.

Analyst: TEW Date: 12/10/13 Reviewer: LW Date: 12/10/13

Standards used: 1=S23755 2=S23610 3=S22790 4=S23701 5=S21857 6=S23700 7=S23764 8=S23276 9=S23592 10=S23599 11=S23229 12=S23745

Flags used: +=high bias cc=CCV CCC failure

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 833457042

Instrument : MSVOA11 Begun : 11/13/13 09:22
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	kkd01	X	IB			11/13/13 09:22	1.0	1	
002	kkd02	X	IB			11/13/13 09:49	1.0	1	
004	kkd04	X	LOW POINT			11/13/13 11:06	1.0	1	
005	kkd05	TUN	BFB			11/13/13 11:42	1.0	2	t
006	kkd06	TUN	BFB			11/13/13 12:15	1.0	2	
007	kkd07	X	IB			11/13/13 12:38	1.0	1	
008	kkd08	IB	CALIB			11/13/13 13:46	1.0	1	
009	kkd09	ICAL	0.25/0.5PPB	Water		11/13/13 14:14	1.0	3 4 5 6 1	
010	kkd10	ICAL	0.5/1PPB			11/13/13 14:41	1.0	3 4 5 6 1	
011	kkd11	ICAL	2PPB			11/13/13 15:09	1.0	3 4 5 6 1	
012	kkd12	ICAL	5PPB			11/13/13 15:37	1.0	3 4 5 6 1	
013	kkd13	ICAL	10PPB			11/13/13 16:05	1.0	3 4 5 6 1	
014	kkd14	ICAL	20PPB			11/13/13 16:32	1.0	3 4 5 6 1	
015	kkd15	ICAL	50PPB			11/13/13 17:00	1.0	3 4 5 6 1	
016	kkd16	ICAL	75PPB			11/13/13 17:28	1.0	3 4 5 6 1	
017	kkd17	ICAL	100PPB			11/13/13 17:56	1.0	3 4 5 6 1	
018	kkd18	ICV	GASES			11/13/13 18:23	1.0	7 1	
019	kkd19	ICV				11/13/13 18:51	1.0	8 9 10 1	
020	kkd20	X	IB			11/13/13 19:19	1.0	1	
021	kkd21	X	IB			11/13/13 19:47	1.0	1	
022	kkd22	X	IB			11/13/13 20:14	1.0	1	

DJA 11/14/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 22.

Analyst: DJA Date: 11/14/13 Reviewer: LW Date: 11/15/13

Standards used: 1=S23550 2=S22624 3=S23611 4=S21354 5=S22433 6=S23518 7=S23276 8=S23417 9=S23592 10=S23411

Flags used: t=tune failure

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 833488651

Instrument : MSVOA11 Begun : 12/05/13 08:11
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	kl501	X	IB			12/05/13 08:11	1.0	1	
002	kl502	X	IB			12/05/13 08:39	1.0	1	
003	kl503	TUN	BFB			12/05/13 09:02	1.0	2	t
004	kl504	TUN	BFB			12/05/13 09:25	1.0	2	t
005	kl505	TUN	BFB			12/05/13 09:50	1.0	2	
006	kl506	CCV				12/05/13 10:16	1.0	3 4 5 6 1	
007	kl507	BS	QC718982	Water	205784	12/05/13 10:54	1.0	7 8 9 10 1	
008	kl508	BSD	QC718983	Water	205784	12/05/13 11:21	1.0	7 8 9 10 1	
009	kl509	X	IB			12/05/13 11:58	1.0	1	
010	kl510	BLANK	QC718984	Water	205784	12/05/13 12:26	1.0	1	
011	kl511	SAMPLE	251273-011	Water	205784	12/05/13 12:54	1.0	1	
012	kl512	SAMPLE	251323-007	Water	205784	12/05/13 13:21	1.0	1	
013	kl513	SAMPLE	251323-008	Water	205784	12/05/13 13:49	1.0	1	
014	kl514	SAMPLE	251273-004	Water	205784	12/05/13 14:17	1.0	1	
015	kl515	SAMPLE	251273-006	Water	205784	12/05/13 14:45	1.0	1	
016	kl516	SAMPLE	251262-002	Water	205784	12/05/13 15:12	6.25	1	
017	kl517	SAMPLE	251323-001	Water	205784	12/05/13 15:40	1.0	1	
018	kl518	SAMPLE	251323-002	Water	205784	12/05/13 16:08	1.0	1	
019	kl519	SAMPLE	251323-003	Water	205784	12/05/13 16:36	1.0	1	
020	kl520	MSS	251323-006	Water	205784	12/05/13 17:03	1.0	1	
021	kl521	SAMPLE	251323-009	Water	205784	12/05/13 17:31	1.0	1	
022	kl522	SAMPLE	251251-013	Water	205784	12/05/13 17:59	2.0	1	
023	kl523	SAMPLE	251251-014	Water	205784	12/05/13 18:27	2.0	1	
024	kl524	SAMPLE	251251-015	Water	205784	12/05/13 18:54	2.0	1	
025	kl525	SAMPLE	251323-005	Water	205784	12/05/13 19:22	2.0	1	
026	kl526	SAMPLE	251323-004	Water	205784	12/05/13 19:50	5.0	1	pH > 2
027	kl527	MS	QC719020	Water	205784	12/05/13 20:18	1.0	7 8 9 10 1	
028	kl528	MSD	QC719021	Water	205784	12/05/13 20:45	1.0	7 8 9 10 1	
029	kl529	X	IB			12/05/13 21:13	1.0	1	

DJA 12/06/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 29.

DJA 12/06/13 : retuned after file 4

Analyst: DJA Date: 12/06/13 Reviewer: LW Date: 12/06/13

Standards used: 1=S23744 2=S22624 3=S23611 4=S21354 5=S23678 6=S22790 7=S23417 8=S23276 9=S23592 10=S23599

Flags used: t=tune failure

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 953461780

Instrument : MSVOA14 Begun : 11/16/13 16:20
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	nkg01	TUN	BFB			11/16/13 16:20	1.0	1	t
002	nkg02	TUN	BFB			11/16/13 17:10	1.0	1	t
003	nkg03	TUN	BFB			11/16/13 17:31	1.0	1	t
004	nkg04	TUN	BFB			11/16/13 18:43	1.0	2	t
005	nkg05	TUN	BFB			11/16/13 19:01	1.0	2	
006	nkg06	TUN	BFB			11/16/13 19:12	1.0	2	
007	nkg07	TUN	BFB			11/16/13 19:22	1.0	2	
008	nkg08	X	IB			11/16/13 19:47	1.0	3	
009	nkg09	X	IB			11/16/13 20:14	1.0	3	
010	nkg10	X	IB			11/16/13 20:43	1.0	3	
011	nkg11	IB	CALIB			11/16/13 21:11	1.0	3	
012	nkg12	ICAL				11/16/13 21:40	1.0	4 5 6 7 3	
013	nkg13	ICAL				11/16/13 22:08	1.0	4 5 6 7 3	
014	nkg14	ICAL				11/16/13 22:36	1.0	4 5 6 7 3	
015	nkg15	ICAL				11/16/13 23:04	1.0	4 5 6 7 3	
016	nkg16	ICAL				11/16/13 23:32	1.0	4 5 6 7 3	
017	nkg17	ICAL				11/17/13 00:00	1.0	4 5 6 7 3	
018	nkg18	ICAL				11/17/13 00:28	1.0	4 5 6 7 3	
019	nkg19	ICAL				11/17/13 00:56	1.0	4 5 6 7 3	
020	nkg20	ICAL				11/17/13 01:24	1.0	4 5 6 7 3	
021	nkg21	ICV	GAS			11/17/13 01:52	1.0	8 3	
022	nkg22	ICV	2CLEVE			11/17/13 02:20	1.0	9 3	
023	nkg23	ICV				11/17/13 02:48	1.0	10 11 12 3	
024	nkg24	X	IB			11/17/13 03:17	1.0	3	
025	nkg25	X	IB			11/17/13 03:44	1.0	3	

DAR 11/16/13 : Retuned before file 1 and 5

DAR 11/16/13 : Ran 4 failing tunes in a row to establish consistency and failure reasons

MCT 11/18/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 25.

Analyst: MCT Date: 11/18/13 Reviewer: LW Date: 11/18/13

Standards used: 1=S21369 2=S23610 3=S23601 4=S22433 5=S23293 6=S23611 7=S22004 8=S22793 9=S21043 10=S23411 11=S23592 12=S23417

Flags used: t=tune failure

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 953485638

Instrument : MSVOA14 Begun : 12/03/13 05:58
Method : EPA 8260B SOP Version : TVH_8260B_rv1

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	nl301	X	HIGH GASES			12/03/13 05:58	1.0	1	
002	nl302	X	IB			12/03/13 06:26	1.0	1	
003	nl303	TUN	BFB			12/03/13 06:54	1.0	2	t
004	nl304	TUN	BFB			12/03/13 07:16	1.0	2	t
005	nl305	TUN	BFB			12/03/13 07:53	1.0	2	t
006	nl306	TUN	BFB			12/03/13 08:02	1.0	2	
007	nl307	CCV				12/03/13 08:27	1.0	3 4 5 1	cc-
008	nl308	CCV				12/03/13 09:14	1.0	3 4 5 1	cc-
009	nl309	TUN	BFB			12/03/13 11:26	1.0	2	t
010	nl310	TUN	BFB			12/03/13 11:37	1.0	2	t
011	nl311	TUN	BFB			12/03/13 11:47	1.0	2	t
012	nl312	TUN	BFB			12/03/13 11:57	1.0	2	t
013	nl313	TUN	BFB			12/03/13 12:09	1.0	2	
014	nl314	CCV				12/03/13 12:31	1.0	3 4 5 1	cc-
015	nl315	CCV				12/03/13 14:20	1.0	3 4 5 1	cc-
016	nl316	TUN	BFB			12/03/13 15:04	1.0	2	t
017	nl317	TUN	BFB			12/03/13 15:18	1.0	2	
018	nl318	CCV				12/03/13 15:41	1.0	6 7 8 9 1	
019	nl319	BS	QC718594	Water	205691	12/03/13 16:23	1.0	10 11 12 13 1	
020	nl320	BSD	QC718595	Water	205691	12/03/13 16:51	1.0	10 11 12 13 1	
021	nl321	IB				12/03/13 17:19	1.0	1	
022	nl322	BLANK	QC718596	Water	205691	12/03/13 17:47	1.0	1	
023	nl323	SAMPLE	251254-004	Water	205691	12/03/13 18:16	1.0	1	
024	nl324	SAMPLE	251254-001	Water	205691	12/03/13 18:45	1.0	1	
025	nl325	SAMPLE	251254-002	Water	205691	12/03/13 19:14	1.0	1	
026	nl326	SAMPLE	251254-003	Water	205691	12/03/13 19:43	1.0	1	
027	nl327	SAMPLE	251254-005	Water	205691	12/03/13 20:13	1.0	1	
028	nl328	SAMPLE	251273-001	Water	205691	12/03/13 20:41	1.0	1	
029	nl329	SAMPLE	251273-002	Water	205691	12/03/13 21:10	1.0	1	
030	nl330	SAMPLE	251273-003	Water	205691	12/03/13 21:39	1.0	1	spk
031	nl331	SAMPLE	251273-004	Water	205691	12/03/13 22:08	1.0	1	spk
032	nl332	SAMPLE	251273-005	Water	205691	12/03/13 22:37	1.0	1	spk
033	nl333	SAMPLE	251273-006	Water	205691	12/03/13 23:06	1.0	1	spk
034	nl334	SAMPLE	251273-007	Water	205691	12/03/13 23:35	1.0	1	spk
035	nl335	SAMPLE	251273-009	Water	205691	12/04/13 00:04	1.0	1	spk
036	nl336	SAMPLE	251273-010	Water	205691	12/04/13 00:32	1.0	1	spk
037	nl337	SAMPLE	251273-011	Water	205691	12/04/13 01:00	1.0	1	

MCT 12/03/13 : Adjusted tune : file nl305.

MCT 12/03/13 : Adjusted tune : file nl311,nl313.

BO 12/03/13 : nl316 adjusted tune

MCT 12/04/13 : Matrix spikes QC718745,QC718746 (batch 205691) were not reported because the autosampler had an error that stopped the sequence.

MCT 12/04/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 37.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 953485638

Instrument : MSVOA14 Begun : 12/03/13 05:58
Method : EPA 8260B SOP Version : TVH_8260B_rv1

Analyst: MCT Date: 12/04/13 Reviewer: LW Date: 12/04/13

Standards used: 1=S23601 2=S23610 3=S23678 4=S23611 5=S22004 6=S22790 7=S23700 8=S23701 9=S21576 10=S23411 11=S23592 12=S23417 13=S22793

Flags used: -=low bias cc=CCV CCC failure spk=5% spike rule t=tune failure

MSVOA WATER Prepsheet Curtis & Tompkins, Ltd.

Date: 12/3/13 **Batch #:** 205601

	Sample ID	Vial	pH <2	pH (if >2)	HS?	Dil'n flask	MS#	RR	DF	Comments	20 % ccv	hold	due	init date
1	251254-1	A	✓				14		1x					
2	2		✓											
3	3		✓											
4	4		✓							TB				
5	5	B	✓											
6	251252-2	A	✓			7			2x	MSS 4x if SO_2 NOT OD				
7	-2	B	✓			2A				MS 714745				
8	-2					2A				MSD				
9	251273-1	A	✓						1x					
10	2		✓											
11	3		✓											
12	4		✓											
13	5		✓											
14	6		✓											
15	7		✓											
16	8		✓			9			2x					
17	9		✓						1x					
18	10		✓											
19	11		✓											
20														
21														
22														

MSVOA WATER Prepsheet

Curtis & Tompkins, Ltd.

Date: 12/4/13

Batch #: 205734

	Sample ID	Vial	pH <2	pH (if >2)	HS?	Dil'n flask	MS#	RR	DF	Comments	20 % ccv	hold	due	init date
1	25 2252-2	A	✓			7	2		2X	MSS 4X IF SO_4 NOT OD INNER FRIG				DAR 12/3
2	-2	B	✓			2A			↓	MS				↓
3	-2	C	✓			↓			↓	MSD				↓
4	1273-8	A	✓			9			2X	↓				↓
5	1273-1	B	✓					1	1X	Sul ↑, TARGETS left.				
6	-3	↓	✓					1	1X	FREON 113 left w/ 5% Rule				
7	-5	↓	✓					1	1X	↓				
8 (24)	-7	↓	✓					1	↓	↓				
9	-9	↓	✓					1	↓	↓				
10	-10	↓	✓					1	↓	↓				
11	1194-4	F	✓			1		1	200X	SEVERAL COMPOUND ↑ > LR				
12 (24)	-2	F	✓			3		1	625X	PCE > LR, C.O SOME COMPOUNDS				
13	-5	F	✓			2		1	500X	OUT OF HOLD TIME				
14														
15														
16														
17														
18														
19														
20														
21														
22														

MSVOA WATER Prepsheet

Curtis & Tompkins, Ltd.

Date: 12/5/13

Batch #: 205784

	Sample ID	Vial	pH <2	pH (if >2)	HS?	Dil'n flask	MS# (11)	RR	DF	Comments	20% ccv ?	hold	due	init date
24 1	251273-4	B	✓	~~22~~				1	1x	spiked ↓ (III)				PJL 12/5
2	-6	B	✓					1	1x	↓				
3	-11	B	✓					1	1x	↓				
4	251262-2	✓				10		1	6.25	surr ↓				
5	251251-13	A	✓			6			2x	in roa				
6	-15	↓	✓			1			2x	↓				
7	-14	↓	✓			10			2x	↓				
26 8	251323-1	A	✓						1x					
9	-2	↓	✓						1x					
10	-3	↓	✓	22					1x					
11	-4	A	✓			3			5x					
12	-5	A	✓			2			2x					ne 12/5
13	-6	↓	✓						1x	MSS				↓
14	MS/MSD	BCD	✓			A1			1x					
15	-7	A	✓						1x	TB				
16	-8	↓	✓						1x	~~TB~~ EB				
17	-9	↓	✓						1x	~~EB~~				
18														
19														
20														
21														
22														

MSVOA WATER Prepsheet Curtis & Tompkins, Ltd.

Date: 12-9-13 **Batch #:** 205895

		Sample ID	Vial	pH <2	pH (if >2)	HS?	Dil'n flask	MS#	RR	DF	Comments	20% ccv ?	hold	due	init date
24	1	251273-8	B	✓				9	1	1x	OD				TEW
25	2	251296-4	F	✓		LV			1	1x	Hit w/ ct / surr high				
	3	↓ -5	↓	✓		↓			1	↓	↓				
24	4	251276-16	C		7				1	1x	✓ Brmform FP?				
26	5	251323-4	B	✓					1	1x	OD				
	6	↓ -5		✓					1	↓	↓				
25	7	251318-4		—					1	1x	OD Put off (in fridge)				
	8	↓ -5	↓	—					1	33.3x	↓ ↓ ↓				
26	9	251374-7	C		7				1	1x	TCE CO				
25	10	251318-11	A	—						6.25x	Put off (in fridge)				
	11	↓ -12	↓	—				↓		1x	↓ ↓				
	12	251374-2	B	✓					1	1x	Hit w/ surr high				
	13	-3		✓					1						
	14	-4		✓					1						
	15	-6	↓	✓				↓	1	↓	↓				↓
	16														
	17														
	18														
	19														
	20														
	21														
	22														

Laboratory Job Number 251273

ANALYTICAL REPORT

Metals

Matrix: Water

Curtis & Tompkins, Ltd.

Chromium

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Sampled:	12/02/13
Matrix:	Water	Received:	12/03/13
Units:	ug/L	Prepared:	12/06/13
Diln Fac:	1.000	Analyzed:	12/11/13
Batch#:	205844		

Field ID	Type	Lab ID	Result	RL	MDL
AST-INF	SAMPLE	251273-001	74	5.0	0.69
AST-EFF	SAMPLE	251273-002	99	5.0	0.69
GAC-02 INF	SAMPLE	251273-003	13	5.0	0.69
GAC-02 EFF	SAMPLE	251273-004	2.2 J	5.0	0.69
E-07R	SAMPLE	251273-005	44	5.0	0.69
E-12	SAMPLE	251273-008	34	5.0	0.69
E-17	SAMPLE	251273-009	140	5.0	0.69
E-117	SAMPLE	251273-010	140	5.0	0.69
	BLANK	QC719222	ND	5.0	0.69

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Chromium

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Batch#:	205844
Field ID:	AST-INF	Sampled:	12/02/13
MSS Lab ID:	251273-001	Received:	12/03/13
Matrix:	Water	Prepared:	12/06/13
Units:	ug/L	Analyzed:	12/11/13
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC719223		200.0	198.3	99	80-120		
BSD	QC719224		200.0	217.2	109	80-120	9	20
MS	QC719225	73.92	200.0	262.7	94	80-120		
MSD	QC719226		200.0	278.1	102	80-120	6	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Chromium

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	AST-INF	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	205844
MSS Lab ID:	251273-001	Sampled:	12/02/13
Lab ID:	QC719227	Received:	12/03/13
Matrix:	Water	Analyzed:	12/11/13

MSS Result	MSS RL	Result	RL	% Diff	Lim
73.92	5.000	75.24	25.00	2	10

RL= Reporting Limit

39.0

Curtis & Tompkins, Ltd.

Batch QC Report

Chromium

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	AST-INF	Diln Fac:	1.000
Type:	Post Digest Spike	Batch#:	205844
MSS Lab ID:	251273-001	Sampled:	12/02/13
Lab ID:	QC719228	Received:	12/03/13
Matrix:	Water	Analyzed:	12/11/13

MSS Result	Spiked	Result	%REC	Limits
73.92	200.0	260.2	93	75-125

REPORTING SUMMARY FOR 251273 METALS Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CR	
251273-001	MET08	12/11/13 15:41	1.0	+	
251273-002	MET08	12/11/13 16:22	1.0	+	
251273-003	MET08	12/11/13 16:26	1.0	+	
251273-004	MET08	12/11/13 16:31	1.0	+	
251273-005	MET08	12/11/13 16:36	1.0	+	
251273-008	MET08	12/11/13 16:40	1.0	+	
251273-009	MET08	12/11/13 16:44	1.0	+	
251273-010	MET08	12/11/13 16:48	1.0	+	
QC719222	MET08	12/11/13 15:27	1.0	+	
QC719223	MET08	12/11/13 15:32	1.0	+	
QC719224	MET08	12/11/13 15:36	1.0	+	
QC719225	MET08	12/11/13 15:46	1.0	+	
QC719226	MET08	12/11/13 16:02	1.0	+	
QC719227	MET08	12/11/13 16:06	5.0	+	
QC719228	MET08	12/11/13 16:18	1.0	+	

ICP Data

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83497356

Instrument : MET08 Begun : 12/11/13 09:16
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	met08_sn_6010	ICALBLK				12/11/13 09:16	1.0		
002	met08_sn_6010	ICAL	CRI5.1			12/11/13 09:22	1.0	1	
003	met08_sn_6010	ICAL	CS100			12/11/13 09:27	1.0	2	
004	met08_sn_6010	ICAL	CS1K			12/11/13 09:31	1.0	3	
005	met08_sn_6010	ICAL	CS10K			12/11/13 09:35	1.0	4	
006	met08_sn_6010	ICAL	CS100K			12/11/13 09:42	1.0	5	
007	met08_sn_6010	ICV				12/11/13 09:49	1.0	6	
008	met08_sn_6010	X				12/11/13 09:57	1.0	7	
009	met08_sn_6010	CRI				12/11/13 10:15	1.0	7	
010	met08_sn_6010	ICB				12/11/13 10:20	1.0		
011	met08_sn_6010	ICSA				12/11/13 10:25	1.0	8	10:AL=490000
012	met08_sn_6010	ICSAB				12/11/13 10:36	1.0	9	5:MG=450000
013	met08_sn_6010	SAMPLE	251198-085	Soil	205626	12/11/13 10:43	10.0		
014	met08_sn_6010	SAMPLE	251093-025	Soil	205623	12/11/13 10:47	10.0		
015	met08_sn_6010	SAMPLE	251289-005	Soil	205880	12/11/13 10:51	10.0		1:MG=430000
016	met08_sn_6010	SAMPLE	251289-006	Soil	205880	12/11/13 10:55	10.0		1:MG=280000
017	met08_sn_6010	SAMPLE	251015-014	Water	205444	12/11/13 10:59	1.0		
018	met08_sn_6010	BLANK	QC719714	Soil	205961	12/11/13 11:03	1.0		
019	met08_sn_6010	BS	QC719715	Soil	205961	12/11/13 11:09	1.0		
020	met08_sn_6010	BSD	QC719716	Soil	205961	12/11/13 11:13	1.0		
021	met08_sn_6010	CCV				12/11/13 11:17	1.0	10	
022	met08_sn_6010	CCB				12/11/13 11:24	1.0		
023	met08_sn_6010	MSS	251356-001	Soil	205961	12/11/13 11:29	1.0		7:MG=1800000
024	met08_sn_6010	MS	QC719717	Soil	205961	12/11/13 11:32	1.0		5:MG=1400000
025	met08_sn_6010	MSD	QC719718	Soil	205961	12/11/13 11:35	1.0		5:MG=1500000
026	met08_sn_6010	SER	QC719719	Soil	205961	12/11/13 11:39	5.0		
027	met08_sn_6010	PDS	QC719720	Soil	205961	12/11/13 11:42	1.0	11 12	
028	met08_sn_6010	SAMPLE	251356-002	Soil	205961	12/11/13 11:45	1.0		5:MG=1700000
029	met08_sn_6010	SAMPLE	251356-003	Soil	205961	12/11/13 11:49	1.0		6:MG=1000000
030	met08_sn_6010	SAMPLE	251356-004	Soil	205961	12/11/13 11:52	1.0		6:MG=1100000
031	met08_sn_6010	SAMPLE	251356-005	Soil	205961	12/11/13 11:55	1.0		6:MG=1000000
032	met08_sn_6010	SAMPLE	251356-006	Soil	205961	12/11/13 11:59	1.0		6:MG=1400000
033	met08_sn_6010	CCV				12/11/13 12:02	1.0	10	
034	met08_sn_6010	X				12/11/13 12:09	1.0		
035	met08_sn_6010	CCB				12/11/13 12:12	1.0		
036	met08_sn_6010	ICSAB				12/11/13 12:17	1.0	9	5:MG=460000
037	met08_sn_6010	BS	QC719715	Soil	205961	12/11/13 12:27	1.0		
038	met08_sn_6010	BSD	QC719716	Soil	205961	12/11/13 12:31	1.0		
039	met08_sn_6010	SAMPLE	251356-006	Soil	205961	12/11/13 12:35	1.0		
040	met08_sn_6010	SAMPLE	251356-007	Soil	205961	12/11/13 12:39	1.0		6:MG=1300000
041	met08_sn_6010	SAMPLE	251356-008	Soil	205961	12/11/13 12:43	1.0		6:FE=420000
042	met08_sn_6010	SAMPLE	251356-009	Soil	205961	12/11/13 12:46	1.0		6:MG=730000
043	met08_sn_6010	SAMPLE	251465-005	Soil	205961	12/11/13 12:53	1.0		6:FE=440000
044	met08_sn_6010	SAMPLE	251466-005	Soil	205961	12/11/13 12:56	1.0		6:FE=590000
045	met08_sn_6010	CCV				12/11/13 12:59	1.0	10	
046	met08_sn_6010	CCB				12/11/13 13:06	1.0		
047	met08_sn_6010	SAMPLE	251467-005	Soil	205961	12/11/13 13:11	1.0		5:FE=420000
048	met08_sn_6010	SAMPLE	251469-005	Soil	205961	12/11/13 13:15	1.0		2:FE=260000
049	met08_sn_6010	SAMPLE	251470-005	Soil	205961	12/11/13 13:18	1.0		8:FE=420000
050	met08_sn_6010	CCV				12/11/13 13:25	1.0	10	
051	met08_sn_6010	CCB				12/11/13 13:32	1.0		
052	met08_sn_6010	ICSAB				12/11/13 13:37	1.0	9	5:MG=450000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83497356

Instrument : MET08 Begun : 12/11/13 09:16
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
053	met08_sn_6010	MSS	251356-001	Soil	205961	12/11/13 14:20	1.0		7:MG=1800000
054	met08_sn_6010	SAMPLE	251356-009	Soil	205961	12/11/13 14:23	1.0		6:MG=720000
055	met08_sn_6010	MSS	251356-001	Soil	205961	12/11/13 14:30	10.0		1:MG=200000
056	met08_sn_6010	SER	QC719719	Soil	205961	12/11/13 14:34	50.0		
057	met08_sn_6010	PDS	QC719720	Soil	205961	12/11/13 14:38	10.0	11 13	
058	met08_sn_6010	SAMPLE	251356-002	Soil	205961	12/11/13 14:42	10.0		1:MG=170000
059	met08_sn_6010	SAMPLE	251356-003	Soil	205961	12/11/13 14:46	10.0		1:MG=110000
060	met08_sn_6010	SAMPLE	251356-004	Soil	205961	12/11/13 14:51	10.0		1:MG=130000
061	met08_sn_6010	CCV				12/11/13 14:55	1.0	10	
062	met08_sn_6010	CCB				12/11/13 15:01	1.0		
063	met08_sn_6010	SAMPLE	251356-005	Soil	205961	12/11/13 15:07	10.0		1:MG=110000
064	met08_sn_6010	SAMPLE	251356-006	Soil	205961	12/11/13 15:11	10.0		1:MG=150000
065	met08_sn_6010	SAMPLE	251356-007	Soil	205961	12/11/13 15:15	10.0		1:MG=150000
066	met08_sn_6010	SAMPLE	251356-008	Soil	205961	12/11/13 15:19	10.0		
067	met08_sn_6010	SAMPLE	251356-009	Soil	205961	12/11/13 15:23	10.0		1:MN=12000
068	met08_sn_6010	BLANK	QC719222	Water	205844	12/11/13 15:27	1.0		
069	met08_sn_6010	BS	QC719223	Water	205844	12/11/13 15:32	1.0		
070	met08_sn_6010	BSD	QC719224	Water	205844	12/11/13 15:36	1.0		
071	met08_sn_6010	MSS	251273-001	Water	205844	12/11/13 15:41	1.0		3:NA=440000
072	met08_sn_6010	MS	QC719225	Water	205844	12/11/13 15:46	1.0		
073	met08_sn_6010	CCV				12/11/13 15:50	1.0	10	
074	met08_sn_6010	CCB				12/11/13 15:57	1.0		
075	met08_sn_6010	MSD	QC719226	Water	205844	12/11/13 16:02	1.0		
076	met08_sn_6010	SER	QC719227	Water	205844	12/11/13 16:06	5.0		
077	met08_sn_6010	ICSAB				12/11/13 16:11	1.0	9	5:CA=430000
078	met08_sn_6010	PDS	QC719228	Water	205844	12/11/13 16:18	1.0	14 15	3:NA=440000
079	met08_sn_6010	SAMPLE	251273-002	Water	205844	12/11/13 16:22	1.0		3:NA=450000
080	met08_sn_6010	SAMPLE	251273-003	Water	205844	12/11/13 16:26	1.0		2:CA=200000
081	met08_sn_6010	SAMPLE	251273-004	Water	205844	12/11/13 16:31	1.0		1:CA=200000
082	met08_sn_6010	SAMPLE	251273-005	Water	205844	12/11/13 16:36	1.0		2:NA=400000
083	met08_sn_6010	SAMPLE	251273-008	Water	205844	12/11/13 16:40	1.0		3:NA=320000
084	met08_sn_6010	SAMPLE	251273-009	Water	205844	12/11/13 16:44	1.0		3:NA=420000
085	met08_sn_6010	SAMPLE	251273-010	Water	205844	12/11/13 16:48	1.0		3:NA=400000
086	met08_sn_6010	CCV				12/11/13 16:52	1.0	10	
087	met08_sn_6010	CCB				12/11/13 16:59	1.0		
088	met08_sn_6010	SAMPLE	251246-001	Water	205844	12/11/13 17:04	1.0		
089	met08_sn_6010	BLANK	QC717765	Filtrate	205481	12/11/13 17:08	1.0		
090	met08_sn_6010	BS	QC717766	Filtrate	205481	12/11/13 17:14	1.0		
091	met08_sn_6010	BSD	QC717767	Filtrate	205481	12/11/13 17:18	1.0		
092	met08_sn_6010	MSS	250995-001	Filtrate	205481	12/11/13 17:22	100.0		
093	met08_sn_6010	MS	QC717768	Filtrate	205481	12/11/13 17:26	100.0		
094	met08_sn_6010	MSD	QC717769	Filtrate	205481	12/11/13 17:30	100.0		
095	met08_sn_6010	SAMPLE	250995-002	Filtrate	205481	12/11/13 17:34	100.0		
096	met08_sn_6010	SAMPLE	250995-003	Filtrate	205481	12/11/13 17:38	100.0		
097	met08_sn_6010	SAMPLE	250995-004	Filtrate	205481	12/11/13 17:42	100.0		
098	met08_sn_6010	CCV				12/11/13 17:47	1.0	10	
099	met08_sn_6010	CCB				12/11/13 17:53	1.0		
100	met08_sn_6010	SAMPLE	250995-005	Filtrate	205481	12/11/13 17:58	100.0		
101	met08_sn_6010	SAMPLE	250995-006	Filtrate	205481	12/11/13 18:04	100.0		
102	met08_sn_6010	ICSAB				12/11/13 18:09	1.0	9	5:MG=430000
103	met08_sn_6010	SAMPLE	250995-007	Filtrate	205481	12/11/13 18:15	100.0		
104	met08_sn_6010	SAMPLE	250995-008	Filtrate	205481	12/11/13 18:20	100.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83497356

Instrument : MET08 Begun : 12/11/13 09:16
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
105	met08_sn_6010	SAMPLE	250995-009	Filtrate	205481	12/11/13 18:24	100.0		
106	met08_sn_6010	SAMPLE	250995-010	Filtrate	205481	12/11/13 18:28	100.0		
107	met08_sn_6010	SAMPLE	250995-011	Filtrate	205481	12/11/13 18:32	100.0		
108	met08_sn_6010	SAMPLE	250995-012	Filtrate	205481	12/11/13 18:37	100.0		
109	met08_sn_6010	SAMPLE	250995-013	Filtrate	205481	12/11/13 18:42	100.0		
110	met08_sn_6010	SAMPLE	250995-014	Filtrate	205481	12/11/13 18:47	100.0		
111	met08_sn_6010	CCV				12/11/13 18:52	1.0	10	
112	met08_sn_6010	CCB				12/11/13 18:59	1.0		
113	met08_sn_6010	SAMPLE	250995-015	Filtrate	205481	12/11/13 19:04	1.0		
114	met08_sn_6010	SER	QC718081	Water	205525	12/11/13 19:09	50.0		
115	met08_sn_6010	PDS	QC718082	Water	205525	12/11/13 19:14	10.0	14 15	
116	met08_sn_6010	SAMPLE	251024-002	Water	205525	12/11/13 19:18	1.0		3:NA=480000
117	met08_sn_6010	SAMPLE	251024-002	Water	205525	12/11/13 19:23	10.0		
118	met08_sn_6010	SAMPLE	251024-003	Water	205525	12/11/13 19:29	10.0		
119	met08_sn_6010	SAMPLE	251024-004	Water	205525	12/11/13 19:34	10.0		
120	met08_sn_6010	SAMPLE	251024-005	Water	205525	12/11/13 19:39	10.0		
121	met08_sn_6010	CCV				12/11/13 19:44	1.0	10	
122	met08_sn_6010	CCB				12/11/13 19:51	1.0		
123	met08_sn_6010	ICSAB				12/11/13 19:56	1.0	9	5:MG=440000
124	met08_sn_6010	SAMPLE	251356-009	Soil	205961	12/11/13 20:17	100.0		
125	met08_sn_6010	SAMPLE	251470-005	Soil	205961	12/11/13 20:21	100.0		
126	met08_sn_6010	X	RINSE			12/11/13 20:25	1.0		
127	met08_sn_6010	BLANK	QC719128	Wipe	205821	12/11/13 20:29	1.0		
128	met08_sn_6010	BS	QC719129	Wipe	205821	12/11/13 20:34	1.0		
129	met08_sn_6010	BSD	QC719130	Wipe	205821	12/11/13 20:38	1.0		
130	met08_sn_6010	SAMPLE	251102-001	Wipe	205821	12/11/13 20:42	1.0		
131	met08_sn_6010	SAMPLE	251102-002	Wipe	205821	12/11/13 20:48	1.0		
132	met08_sn_6010	CCV				12/11/13 20:52	1.0	10	
133	met08_sn_6010	CCB				12/11/13 20:58	1.0		
134	met08_sn_6010	SAMPLE	251102-003	Wipe	205821	12/11/13 21:04	1.0		2:CU=13000
135	met08_sn_6010	SAMPLE	251102-004	Wipe	205821	12/11/13 21:11	1.0		
136	met08_sn_6010	SAMPLE	251102-005	Wipe	205821	12/11/13 21:15	1.0		2:CU=16000
137	met08_sn_6010	SAMPLE	251102-006	Wipe	205821	12/11/13 21:23	1.0		2:CU=13000
138	met08_sn_6010	SAMPLE	251102-007	Wipe	205821	12/11/13 21:31	1.0		
139	met08_sn_6010	SAMPLE	251102-008	Wipe	205821	12/11/13 21:36	1.0		
140	met08_sn_6010	SAMPLE	251102-009	Wipe	205821	12/11/13 21:41	1.0		
141	met08_sn_6010	SAMPLE	251102-010	Wipe	205821	12/11/13 21:46	1.0		2:CU=12000
142	met08_sn_6010	SAMPLE	251102-011	Wipe	205821	12/11/13 21:54	1.0		2:ZN=80000
143	met08_sn_6010	SAMPLE	251102-012	Wipe	205821	12/11/13 22:01	1.0		
144	met08_sn_6010	CCV				12/11/13 22:06	1.0	10	
145	met08_sn_6010	X				12/11/13 22:13	1.0		
146	met08_sn_6010	CCB				12/11/13 22:17	1.0		
147	met08_sn_6010	ICSAB				12/11/13 22:22	1.0	9	5:CA=420000
148	met08_sn_6010	SAMPLE	251102-013	Wipe	205821	12/11/13 22:29	1.0		1:CU=10000
149	met08_sn_6010	SAMPLE	251102-014	Wipe	205821	12/11/13 22:37	1.0		2:ZN=26000
150	met08_sn_6010	SAMPLE	251102-015	Wipe	205821	12/11/13 22:44	1.0		2:CU=12000
151	met08_sn_6010	SAMPLE	251102-016	Wipe	205821	12/11/13 22:53	1.0		3:ZN=120000
152	met08_sn_6010	SAMPLE	251102-017	Wipe	205821	12/11/13 23:01	1.0		2:CU=11000
153	met08_sn_6010	SAMPLE	251102-018	Wipe	205821	12/11/13 23:08	1.0		
154	met08_sn_6010	X	RINSE			12/11/13 23:13	1.0		
155	met08_sn_6010	BLANK	QC719131	Wipe	205822	12/11/13 23:17	1.0		
156	met08_sn_6010	BS	QC719132	Wipe	205822	12/11/13 23:22	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83497356

Instrument : MET08 Begun : 12/11/13 09:16
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
157	met08_sn_6010	BSD	QC719133	Wipe	205822	12/11/13 23:26	1.0		
158	met08_sn_6010	CCV				12/11/13 23:31	1.0	10	
159	met08_sn_6010	X				12/11/13 23:37	1.0		
160	met08_sn_6010	CCB				12/11/13 23:41	1.0		
161	met08_sn_6010	SAMPLE	251102-019	Wipe	205822	12/11/13 23:46	1.0		
162	met08_sn_6010	SAMPLE	251102-020	Wipe	205822	12/11/13 23:50	1.0		2:CU=22000
163	met08_sn_6010	SAMPLE	251102-021	Wipe	205822	12/11/13 23:58	1.0		
164	met08_sn_6010	SAMPLE	251102-022	Wipe	205822	12/12/13 00:02	1.0		2:CU=21000
165	met08_sn_6010	SAMPLE	251102-023	Wipe	205822	12/12/13 00:10	1.0		
166	met08_sn_6010	SAMPLE	251102-024	Wipe	205822	12/12/13 00:15	1.0		
167	met08_sn_6010	SAMPLE	251102-025	Wipe	205822	12/12/13 00:20	1.0		
168	met08_sn_6010	SAMPLE	251102-026	Wipe	205822	12/12/13 00:24	1.0		
169	met08_sn_6010	SAMPLE	251102-027	Wipe	205822	12/12/13 00:29	1.0		
170	met08_sn_6010	SAMPLE	251102-028	Wipe	205822	12/12/13 00:34	1.0		
171	met08_sn_6010	CCV				12/12/13 00:38	1.0	10	
172	met08_sn_6010	CCB				12/12/13 00:45	1.0		
173	met08_sn_6010	ICSAB				12/12/13 00:50	1.0	9	5:MG=420000
174	met08_sn_6010	SAMPLE	251102-029	Wipe	205822	12/12/13 00:57	1.0		
175	met08_sn_6010	SAMPLE	251102-030	Wipe	205822	12/12/13 01:01	1.0		
176	met08_sn_6010	SAMPLE	251102-031	Wipe	205822	12/12/13 01:06	1.0		
177	met08_sn_6010	SAMPLE	251102-032	Wipe	205822	12/12/13 01:10	1.0		2:ZN=12000
178	met08_sn_6010	SAMPLE	251102-033	Wipe	205822	12/12/13 01:19	1.0		
179	met08_sn_6010	SAMPLE	251102-034	Wipe	205822	12/12/13 01:24	1.0		2:CU=17000
180	met08_sn_6010	CCV				12/12/13 01:32	1.0	10	
181	met08_sn_6010	CCB				12/12/13 01:39	1.0		
182	met08_sn_6010	ICSAB				12/12/13 01:44	1.0	9	5:MG=430000

AH 12/11/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 52.

CRT 12/11/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 53 through 117.

AH 12/12/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 118 through 182.

Standards used: 1=S23685 2=S23687 3=S23686 4=S23688 5=S23689 6=S23692 7=S23694 8=S23690 9=S23691 10=S23693 11=S23461 12=S23642 13=S23462 14=S21652 15=S21653

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83497356

Date : 12/11/13 Reference : met08_sn_6010
Sequence : MET08 12/11/13 Analyzed : 12/11/13 09:22

#	Type	Sample ID	Y A
		ICAL STD	2516381
		LOWER LIMIT	754914
		UPPER LIMIT	5032761
010	ICB		2588127
011	ICSA		2258254
012	ICSAB		2350461
013	SAMPLE	251198-085	2740394
014	SAMPLE	251093-025	2680489
015	SAMPLE	251289-005	2457792
016	SAMPLE	251289-006	2504034
017	SAMPLE	251015-014	2682149
018	BLANK	QC719714	4258175
019	BS	QC719715	4094929
020	BSD	QC719716	2631666
021	CCV		2707681
022	CCB		2626612
024	MS	QC719717	2307001
025	MSD	QC719718	2352735
026	SER	QC719719	2601628
027	PDS	QC719720	2301423
033	CCV		2720414
035	CCB		2676967
036	ICSAB		2337365
037	BS	QC719715	2674977
038	BSD	QC719716	2691739
043	SAMPLE	251465-005	2701555
044	SAMPLE	251466-005	2632879
045	CCV		2764890
046	CCB		2680260
047	SAMPLE	251467-005	2705535
048	SAMPLE	251469-005	2805653
049	SAMPLE	251470-005	2632453
050	CCV		2782054
051	CCB		2693194
052	ICSAB		2359673
056	SER	QC719719	2673225
057	PDS	QC719720	2521139
061	CCV		2695475
062	CCB		2648988
068	BLANK	QC719222	2731063
069	BS	QC719223	2701760
070	BSD	QC719224	2702465
071	MSS	251273-001	2330342
072	MS	QC719225	2440512
073	CCV		2729919
074	CCB		2613510
075	MSD	QC719226	2411076
076	SER	QC719227	2544730
077	ICSAB		2357709
078	PDS	QC719228	2440658
079	SAMPLE	251273-002	2382806

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83497356

Date : 12/11/13 Reference : met08_sn_6010
Sequence : MET08 12/11/13 Analyzed : 12/11/13 09:22

#	Type	Sample ID	Y A
080	SAMPLE	251273-003	2594577
081	SAMPLE	251273-004	2435238
082	SAMPLE	251273-005	2431913
083	SAMPLE	251273-008	2422849
084	SAMPLE	251273-009	2421425
085	SAMPLE	251273-010	2411295
086	CCV		2691526
087	CCB		2653584
089	BLANK	QC717765	2701779
090	BS	QC717766	2754696
091	BSD	QC717767	2754590
092	MSS	250995-001	2716510
093	MS	QC717768	2705442
094	MSD	QC717769	2662623
095	SAMPLE	250995-002	2681274
096	SAMPLE	250995-003	2698837
097	SAMPLE	250995-004	2708982
098	CCV		2646844
099	CCB		2636106
100	SAMPLE	250995-005	2592787
101	SAMPLE	250995-006	2550978
102	ICSAB		2358264
103	SAMPLE	250995-007	2719378
104	SAMPLE	250995-008	2687084
105	SAMPLE	250995-009	2597635
106	SAMPLE	250995-010	2644209
107	SAMPLE	250995-011	2635709
108	SAMPLE	250995-012	2594807
109	SAMPLE	250995-013	2597984
110	SAMPLE	250995-014	2661020
111	CCV		2689645
112	CCB		2683730
113	SAMPLE	250995-015	2723914
114	SER	QC718081	2591309
115	PDS	QC718082	2599584
116	SAMPLE	251024-002	2313110
117	SAMPLE	251024-002	2535791
118	SAMPLE	251024-003	2551753
119	SAMPLE	251024-004	2567930
120	SAMPLE	251024-005	2544059
121	CCV		2731603
122	CCB		2638573
123	ICSAB		2373422
125	SAMPLE	251470-005	2804380
127	BLANK	QC719128	2735450
128	BS	QC719129	2620376
129	BSD	QC719130	2613551
130	SAMPLE	251102-001	2556551
131	SAMPLE	251102-002	2682229
132	CCV		2770938
133	CCB		2700726
134	SAMPLE	251102-003	2746398

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83497356

Date : 12/11/13 Reference : met08_sn_6010
Sequence : MET08 12/11/13 Analyzed : 12/11/13 09:22

#	Type	Sample ID	Y A
135	SAMPLE	251102-004	2700764
136	SAMPLE	251102-005	2653543
137	SAMPLE	251102-006	2733231
138	SAMPLE	251102-007	2541312
139	SAMPLE	251102-008	2523820
140	SAMPLE	251102-009	2526097
141	SAMPLE	251102-010	2666222
142	SAMPLE	251102-011	2707495
143	SAMPLE	251102-012	2535449
144	CCV		2740683
146	CCB		2682653
147	ICSAB		2380097
148	SAMPLE	251102-013	2709373
149	SAMPLE	251102-014	2709767
150	SAMPLE	251102-015	2606588
151	SAMPLE	251102-016	2727059
152	SAMPLE	251102-017	2666163
153	SAMPLE	251102-018	2540549
155	BLANK	QC719131	2759111
156	BS	QC719132	2596545
157	BSD	QC719133	2664811
158	CCV		2773534
160	CCB		2760500
161	SAMPLE	251102-019	2728047
162	SAMPLE	251102-020	2660605
163	SAMPLE	251102-021	2715543
164	SAMPLE	251102-022	2704295
165	SAMPLE	251102-023	2614770
166	SAMPLE	251102-024	2543582
167	SAMPLE	251102-025	2651231
168	SAMPLE	251102-026	2555832
169	SAMPLE	251102-027	2524742
170	SAMPLE	251102-028	2698904
171	CCV		2754609
172	CCB		2750041
173	ICSAB		2408348
174	SAMPLE	251102-029	2719016
175	SAMPLE	251102-030	2573591
176	SAMPLE	251102-031	2692617
177	SAMPLE	251102-032	2598016
178	SAMPLE	251102-033	2555324
179	SAMPLE	251102-034	2661724
180	CCV		2774877
181	CCB		2735050
182	ICSAB		2421835

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 251273 METALS Water: EPA 6010B

Inst : MET08 Reviewer : ---
Calnum : 83497356001 Date : 11-DEC-2013 09:16
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	met08_sn_6010	83497356002	CRI5.1	11-DEC-2013 09:22	S23685
L2	met08_sn_6010	83497356003	CS100	11-DEC-2013 09:27	S23687
L3	met08_sn_6010	83497356004	CS1K	11-DEC-2013 09:31	S23686
L4	met08_sn_6010	83497356005	CS10K	11-DEC-2013 09:35	S23688
L5	met08_sn_6010	83497356006	CS100K	11-DEC-2013 09:42	S23689

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Chromium	A	104.30	100.76	105.14	101.35		LOR0	0.00000	0.00986		102.89	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Chromium	A	5.0000	3	100.00	-1	1000.0	4	10000	0		

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 251273 METALS Water
EPA 6010B

Inst : MET08
Calnum : 83497356001 Cal Date : 11-DEC-2013

ICV 83497356007 (11-DEC-2013) stds: S23692

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Chromium	A	5000	4841	ug/L	-3	10	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 251273 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83497356010 File : met08_sn_6010 Time : 11-DEC-2013 10:20
Cal : 83497356001 Caldate : 11-DEC-2013

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Chromium	A	ND	5.000	2.500	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2516381	2588127	2.85

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR 251273 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83497356011 File : met08_sn_6010 Time : 11-DEC-2013 10:25
Cal : 83497356001 Caldate : 11-DEC-2013
Standards: S23690

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19360	ug/L	97
Copper	A	20000	21920	ug/L	110
Manganese	A	20000	18110	ug/L	91
Nickel	A	20000	18050	ug/L	90
Vanadium	A	20000	19760	ug/L	99
Aluminum	R	500000	489600	ug/L	98
Calcium	R	500000	473700	ug/L	95
Iron	R	200000	187100	ug/L	94
Magnesium	R	500000	486800	ug/L	97
Titanium	R	20000	20880	ug/L	104

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2516381	2258254	-10.26

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 251273 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83497356052 File : met08_sn_6010 Time : 11-DEC-2013 13:37
Cal : 83497356001 Caldate : 11-DEC-2013
Standards: S23691

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	491.4	ug/L	-2	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2516381	2359673	-6.23

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 251273 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83497356061 File : met08_sn_6010 Time : 11-DEC-2013 14:55
Cal : 83497356001 Caldate : 11-DEC-2013
Standards: S23693

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	102.89	96.948	5000	4781	ug/L	-4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2516381	2695475	7.12

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 251273 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83497356062 File : met08_sn_6010 Time : 11-DEC-2013 15:01
Cal : 83497356001 Caldate : 11-DEC-2013

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Chromium	A	ND	5.000	2.500	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2516381	2648988	5.27

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 251273 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83497356073 File : met08_sn_6010 Time : 11-DEC-2013 15:50
Cal : 83497356001 Caldate : 11-DEC-2013
Standards: S23693

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	102.89	96.100	5000	4739	ug/L	-5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2516381	2729919	8.49

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 251273 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83497356074 File : met08_sn_6010 Time : 11-DEC-2013 15:57
Cal : 83497356001 Caldate : 11-DEC-2013

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Chromium	A	ND	5.000	2.500	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2516381	2613510	3.86

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 251273 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83497356077 File : met08_sn_6010 Time : 11-DEC-2013 16:11
Cal : 83497356001 Caldate : 11-DEC-2013
Standards: S23691

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	495.5	ug/L	-1	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2516381	2357709	-6.31

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 251273 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83497356086 File : met08_sn_6010 Time : 11-DEC-2013 16:52
Cal : 83497356001 Caldate : 11-DEC-2013
Standards: S23693

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	102.89	96.272	5000	4748	ug/L	-5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2516381	2691526	6.96

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 251273 METALS Water
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83497356087 File : met08_sn_6010 Time : 11-DEC-2013 16:59
Cal : 83497356001 Caldate : 11-DEC-2013

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Chromium	A	ND	5.000	2.500	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2516381	2653584	5.45

SAMPLE PREPARATION SUMMARY

Batch # : 205844 Analysis : ICAP
Started By : NCD Prep Date : 06-DEC-2013 17:50 Finished By : NCD
Method : 3010A SOP Version : 3010A_icp_rv15 Units : mL
Spike #1 ID : S21652 Spike #2 ID : S21653

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
251246-001		Water	50	50	1	1.0						HARDNESS	
251273-001		Water	50	50	1	1.0						CR	
251273-002		Water	50	50	1	1.0						CR	
251273-003		Water	50	50	1	1.0						CR	
251273-004		Water	50	50	1	1.0						CR	
251273-005		Water	50	50	1	1.0						CR	
251273-008		Water	50	50	1	1.0						CR	
251273-009		Water	50	50	1	1.0						CR	
251273-010		Water	50	50	1	1.0						CR	
QC719222	BLANK	Water	50	50	1	1.0							
QC719223	BS	Water	50	50	1	1.0		.5	.5				
QC719224	BSD	Water	50	50	1	1.0		.5	.5				
QC719225	MS	Water	50	50	1	1.0		.5	.5				
QC719226	MSD	Water	50	50	1	1.0		.5	.5				
QC719227	SER	Water	50	50	1	1.0							
QC719228	PDS	Water	50	50	1	1.0							

Analyst: CRT Date: 12/11/13 Reviewer: PRW Date: 12/13/13

Water Digestion for ICP Curtis & Tompkins, Ltd.

LIMS Batch #: 205844
Digested by: NCD
Date Digested: 12/6/2013

Digestion Method
☒ EPA 3010a for ICP
☐ EPA 200.7
☐ _____

BK3498
Page 82

Lvl.	Sample #	Container ID	Volume Sample(mL)	Final Volume (mL)	Filtered? (y/n)	ID Π	Comments
	BLK 71922		☑ 50	☑ 50	no	✓	
	BS 23		☑ 50	☑ 50		✓	
	BSD 24		☑ 50	☑ 50		✓	
II	251275-001	D	☑ 50	☑ 50		✓	MS
5	-001		☑ 50	☑ 50		✓	MSD
	-001		☑ 50	☑ 50		✓	
	-002		☑ 50	☑ 50		✓	
	-003		☑ 50	☑ 50		✓	
	-004		☑ 50	☑ 50		✓	
10	-005		☑ 50	☑ 50		✓	
	-008		☑ 50	☑ 50		✓	-008
	-009		☑ 50	☑ 50		✓	-009
	-010		☑ 50	☑ 50		✓	
II	251246-001	A	☑ 50	☑ 50		✓	Verified pH<2
15			☐ 50	☐ 50			
			☐ 50	☐ 50			
			☐ 50	☐ 50			
			☑ 50	☑ 50			
			☑ 50	☑ 50			
20			☐ 50	☐ 50			
			☐ 50	☐ 50			
			☐ 50	☐ 50			
			☐ 50	☐ 50			
			☐ 50	☐ 50			
			☐ 50	☐ 50			

NCD 12/6/2013

	Reagent ID or LIMS #	Initials / Date
Digestion tubes, lot #	164172	NCD 12/6/2013
0.5 mL of spike solution (Std1) was added to all spikes	S21653	
0.5 mL of spike solution (Std2) was added to all spikes	S21652	
Digestion Temperature (°C), Block and Probe Location	95°C A3U	
Digestion begun at (time)	12:50	
☑ Conc. HNO3 or ☐ 1:1 HNO3	L12065	
1:1 HCl	90272-163115	
digestion ended at (time)	17:50	
☐ filtered thru' Whatman # 541		
Relinquished to ICP group	ICAP	

12/6/2013
Prep Chemist / Date

Continued from page _____.
Continued on page _____.

Reviewed Online / See LIMS

Laboratory Job Number 251273

ANALYTICAL REPORT

Metals

Matrix: Filtrate

Curtis & Tompkins, Ltd.

Dissolved Chromium

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Sampled:	12/02/13
Matrix:	Filtrate	Received:	12/03/13
Units:	ug/L	Prepared:	12/05/13
Diln Fac:	1.000	Analyzed:	12/10/13
Batch#:	205813		

Field ID	Type	Lab ID	Result	RL	MDL
AST-INF	SAMPLE	251273-001	72	5.0	0.69
AST-EFF	SAMPLE	251273-002	53	5.0	0.69
GAC-02 INF	SAMPLE	251273-003	7.4	5.0	0.69
GAC-02 EFF	SAMPLE	251273-004	2.1 J	5.0	0.69
E-07R	SAMPLE	251273-005	37	5.0	0.69
E-12	SAMPLE	251273-008	0.90 J	5.0	0.69
E-17	SAMPLE	251273-009	39	5.0	0.69
E-117	SAMPLE	251273-010	50	5.0	0.69
	BLANK	QC719090	ND	5.0	0.69

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

33.0

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Chromium

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Batch#:	205813
Field ID:	AST-INF	Sampled:	12/02/13
MSS Lab ID:	251273-001	Received:	12/03/13
Matrix:	Filtrate	Prepared:	12/05/13
Units:	ug/L	Analyzed:	12/10/13
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC719091		200.0	206.6	103	80-120		
BSD	QC719092		200.0	206.7	103	80-120	0	20
MS	QC719093	72.44	200.0	268.9	98	76-120		
MSD	QC719094		200.0	274.8	101	76-120	2	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Chromium

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	AST-INF	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	205813
MSS Lab ID:	251273-001	Sampled:	12/02/13
Lab ID:	QC719095	Received:	12/03/13
Matrix:	Filtrate	Analyzed:	12/10/13

MSS Result	MSS RL	Result	RL	% Diff	Lim
72.44	5.000	71.82	25.00	1	10

RL= Reporting Limit

35.0

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Chromium

Lab #:	251273	Location:	PGA South
Client:	Haley & Aldrich	Prep:	EPA 3010A
Project#:	39049-103	Analysis:	EPA 6010B
Analyte:	Chromium	Units:	ug/L
Field ID:	AST-INF	Diln Fac:	1.000
Type:	Post Digest Spike	Batch#:	205813
MSS Lab ID:	251273-001	Sampled:	12/02/13
Lab ID:	QC719096	Received:	12/03/13
Matrix:	Filtrate	Analyzed:	12/10/13

MSS Result	Spiked	Result	%REC	Limits
72.44	200.0	276.3	102	75-125

REPORTING SUMMARY FOR 251273 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CR
251273-001	MET08	12/10/13 16:35	1.0	+
251273-002	MET08	12/10/13 17:12	1.0	+
251273-003	MET08	12/10/13 17:17	1.0	+
251273-004	MET08	12/10/13 17:22	1.0	+
251273-005	MET08	12/10/13 17:27	1.0	+
251273-008	MET08	12/10/13 17:33	1.0	+
251273-009	MET08	12/10/13 17:38	1.0	+
251273-010	MET08	12/10/13 17:43	1.0	+
QC719090	MET08	12/10/13 16:22	1.0	+
QC719091	MET08	12/10/13 16:27	1.0	+
QC719092	MET08	12/10/13 16:31	1.0	+
QC719093	MET08	12/10/13 23:35	1.0	+
QC719094	MET08	12/10/13 23:39	1.0	+
QC719095	MET08	12/10/13 16:51	5.0	+
QC719096	MET08	12/10/13 16:56	1.0	+

ICP Data

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83495796

Instrument : MET08 Begun : 12/10/13 07:16
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	met08_sn_6010	ICALBLK				12/10/13 07:16	1.0		
002	met08_sn_6010	ICAL	CRI5.1			12/10/13 07:21	1.0	1	
003	met08_sn_6010	ICAL	CS100			12/10/13 07:26	1.0	2	
004	met08_sn_6010	ICAL	CS1K			12/10/13 07:30	1.0	3	
005	met08_sn_6010	ICAL	CS10K			12/10/13 07:34	1.0	4	
006	met08_sn_6010	ICAL	CS100K			12/10/13 07:41	1.0	5	
007	met08_sn_6010	ICV				12/10/13 07:48	1.0	6	
008	met08_sn_6010	XCRI				12/10/13 07:55	1.0	7	
009	met08_sn_6010	XCRI				12/10/13 08:08	1.0	7	
010	met08_sn_6010	CRI				12/10/13 08:15	1.0	7	
011	met08_sn_6010	ICB				12/10/13 08:22	1.0		
012	met08_sn_6010	ICSA				12/10/13 08:27	1.0	8	10:AL=520000
013	met08_sn_6010	X	QC719369	WET Leachate	205882	12/10/13 08:47	10.0		1:NA=120000
014	met08_sn_6010	X	QC719376	WET Leachate	205882	12/10/13 08:52	10.0		1:NA=160000
015	met08_sn_6010	X	QC719569	WET Leachate	205882	12/10/13 08:57	10.0		1:NA=150000
016	met08_sn_6010	X	QC719370	WET Leachate	205882	12/10/13 09:02	1.0		
017	met08_sn_6010	X	QC719371	WET Leachate	205882	12/10/13 09:07	1.0		
018	met08_sn_6010	X	251322-001	WET Leachate	205882	12/10/13 09:11	10.0		1:NA=110000
019	met08_sn_6010	X	QC719372	WET Leachate	205882	12/10/13 09:15	10.0		
020	met08_sn_6010	X	QC719373	WET Leachate	205882	12/10/13 09:19	10.0		
021	met08_sn_6010	CCV				12/10/13 09:23	1.0	9	
022	met08_sn_6010	CCB				12/10/13 09:30	1.0		
023	met08_sn_6010	X	QC719374	WET Leachate	205882	12/10/13 09:35	50.0		
024	met08_sn_6010	X	QC719375	WET Leachate	205882	12/10/13 09:39	10.0	10	
025	met08_sn_6010	X	251322-004	WET Leachate	205882	12/10/13 09:43	10.0		1:NA=120000
026	met08_sn_6010	X	251322-005	WET Leachate	205882	12/10/13 09:47	10.0		1:NA=110000
027	met08_sn_6010	X	251322-008	WET Leachate	205882	12/10/13 09:52	10.0		1:NA=120000
028	met08_sn_6010	X	251322-010	WET Leachate	205882	12/10/13 09:56	10.0		1:NA=110000
029	met08_sn_6010	X	251322-013	WET Leachate	205882	12/10/13 10:00	10.0		1:NA=110000
030	met08_sn_6010	CCV				12/10/13 10:04	1.0	9	
031	met08_sn_6010	CCB				12/10/13 10:11	1.0		
032	met08_sn_6010	ICSAB				12/10/13 10:16	1.0	11	5:MG=490000
033	met08_sn_6010	BLANK	QC719369	WET Leachate	205882	12/10/13 11:12	10.0		1:NA=140000
034	met08_sn_6010	BLANK	QC719376	WET Leachate	205882	12/10/13 11:17	10.0		1:NA=110000
035	met08_sn_6010	BLANK	QC719569	WET Leachate	205882	12/10/13 11:22	10.0		1:NA=160000
036	met08_sn_6010	BS	QC719370	WET Leachate	205882	12/10/13 11:27	1.0		
037	met08_sn_6010	BSD	QC719371	WET Leachate	205882	12/10/13 11:31	1.0		
038	met08_sn_6010	MSS	251322-001	WET Leachate	205882	12/10/13 11:35	10.0		1:NA=110000
039	met08_sn_6010	MS	QC719372	WET Leachate	205882	12/10/13 11:39	10.0		1:NA=110000
040	met08_sn_6010	MSD	QC719373	WET Leachate	205882	12/10/13 11:43	10.0		1:NA=110000
041	met08_sn_6010	CCV				12/10/13 11:47	1.0	9	
042	met08_sn_6010	CCB				12/10/13 11:54	1.0		
043	met08_sn_6010	SER	QC719374	WET Leachate	205882	12/10/13 11:59	50.0		
044	met08_sn_6010	PDS	QC719375	WET Leachate	205882	12/10/13 12:04	10.0	10 12	1:NA=130000
045	met08_sn_6010	SAMPLE	251322-004	WET Leachate	205882	12/10/13 12:08	10.0		1:NA=120000
046	met08_sn_6010	SAMPLE	251322-005	WET Leachate	205882	12/10/13 12:12	10.0		1:NA=110000
047	met08_sn_6010	SAMPLE	251322-008	WET Leachate	205882	12/10/13 12:16	10.0		1:NA=120000
048	met08_sn_6010	SAMPLE	251322-010	WET Leachate	205882	12/10/13 12:20	10.0		1:NA=110000
049	met08_sn_6010	SAMPLE	251322-013	WET Leachate	205882	12/10/13 12:24	10.0		1:NA=120000
050	met08_sn_6010	CCV				12/10/13 12:28	1.0	9	
051	met08_sn_6010	CCB				12/10/13 12:35	1.0		
052	met08_sn_6010	ICSAB				12/10/13 12:40	1.0	11	5:MG=500000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83495796

Instrument : MET08 Begun : 12/10/13 07:16
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
053	met08_sn_6010	X	RINSE			12/10/13 13:29	1.0		
054	met08_sn_6010	X	RINSE			12/10/13 13:34	1.0		
055	met08_sn_6010	X	RINSE			12/10/13 13:39	1.0		
056	met08_sn_6010	IDL				12/10/13 13:44	1.0		
057	met08_sn_6010	IDL				12/10/13 13:49	1.0		
058	met08_sn_6010	IDL				12/10/13 13:54	1.0		
059	met08_sn_6010	IDL				12/10/13 13:59	1.0		
060	met08_sn_6010	IDL				12/10/13 14:04	1.0		
061	met08_sn_6010	IDL				12/10/13 14:09	1.0		
062	met08_sn_6010	IDL				12/10/13 14:14	1.0		
063	met08_sn_6010	CCV				12/10/13 14:19	1.0	9	
064	met08_sn_6010	CCB				12/10/13 14:26	1.0		
065	met08_sn_6010	BLANK	QC718670	Water	205709	12/10/13 14:31	1.0		
066	met08_sn_6010	BS	QC718671	Water	205709	12/10/13 14:36	1.0		
067	met08_sn_6010	BSD	QC718672	Water	205709	12/10/13 14:40	1.0		
068	met08_sn_6010	MSS	251176-002	Water	205709	12/10/13 14:44	1.0		1:NA=390000
069	met08_sn_6010	MS	QC718673	Water	205709	12/10/13 14:48	1.0		
070	met08_sn_6010	MSD	QC718674	Water	205709	12/10/13 14:52	1.0		
071	met08_sn_6010	SAMPLE	251179-002	Water	205709	12/10/13 14:57	1.0		
072	met08_sn_6010	CCV				12/10/13 15:02	1.0	9	
073	met08_sn_6010	CCB				12/10/13 15:09	1.0		
074	met08_sn_6010	ICSAB				12/10/13 15:14	1.0	11	5:AL=500000
075	met08_sn_6010	BLANK	QC719090	Filtrate	205813	12/10/13 16:22	1.0		
076	met08_sn_6010	BS	QC719091	Filtrate	205813	12/10/13 16:27	1.0		
077	met08_sn_6010	BSD	QC719092	Filtrate	205813	12/10/13 16:31	1.0		
078	met08_sn_6010	MSS	251273-001	Filtrate	205813	12/10/13 16:35	1.0		3:NA=390000
079	met08_sn_6010	XMS	QC719093	Filtrate	205813	12/10/13 16:41	1.0		
080	met08_sn_6010	XMSD	QC719094	Filtrate	205813	12/10/13 16:46	1.0		
081	met08_sn_6010	SER	QC719095	Filtrate	205813	12/10/13 16:51	5.0		
082	met08_sn_6010	PDS	QC719096	Filtrate	205813	12/10/13 16:56	1.0	13 14	
083	met08_sn_6010	CCV				12/10/13 17:00	1.0	9	
084	met08_sn_6010	CCB				12/10/13 17:07	1.0		
085	met08_sn_6010	SAMPLE	251273-002	Filtrate	205813	12/10/13 17:12	1.0		3:NA=400000
086	met08_sn_6010	SAMPLE	251273-003	Filtrate	205813	12/10/13 17:17	1.0		1:CA=210000
087	met08_sn_6010	SAMPLE	251273-004	Filtrate	205813	12/10/13 17:22	1.0		1:CA=210000
088	met08_sn_6010	SAMPLE	251273-005	Filtrate	205813	12/10/13 17:27	1.0		2:NA=340000
089	met08_sn_6010	SAMPLE	251273-008	Filtrate	205813	12/10/13 17:33	1.0		3:CA=310000
090	met08_sn_6010	SAMPLE	251273-009	Filtrate	205813	12/10/13 17:38	1.0		3:CA=400000
091	met08_sn_6010	SAMPLE	251273-010	Filtrate	205813	12/10/13 17:43	1.0		3:CA=420000
092	met08_sn_6010	SAMPLE	251298-008	Filtrate	205813	12/10/13 17:48	1.0		1:MG=220000
093	met08_sn_6010	SAMPLE	251298-009	Filtrate	205813	12/10/13 17:55	1.0		2:CA=360000
094	met08_sn_6010	X	RINSE			12/10/13 18:02	1.0		
095	met08_sn_6010	CCV				12/10/13 18:07	1.0	9	
096	met08_sn_6010	CCB				12/10/13 18:14	1.0		
097	met08_sn_6010	SAMPLE	251322-005	WET Leachate	205882	12/10/13 18:21	10.0		1:NA=110000
098	met08_sn_6010	X	RINSE			12/10/13 18:25	1.0		
099	met08_sn_6010	ICSAB				12/10/13 18:30	1.0	11	5:AL=490000
100	met08_sn_6010	BLANK	QC718345	Soil	205625	12/10/13 18:37	1.0		
101	met08_sn_6010	BS	QC718346	Soil	205625	12/10/13 18:42	1.0		
102	met08_sn_6010	BSD	QC718347	Soil	205625	12/10/13 18:46	1.0		
103	met08_sn_6010	MSS	251198-039	Soil	205625	12/10/13 18:50	1.0		3:FE=390000
104	met08_sn_6010	MS	QC718348	Soil	205625	12/10/13 18:53	1.0		1:FE=420000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83495796

Instrument : MET08 Begun : 12/10/13 07:16
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
105	met08_sn_6010	MSD	QC718349	Soil	205625	12/10/13 18:57	1.0		1:FE=410000
106	met08_sn_6010	SAMPLE	251198-041	Soil	205625	12/10/13 19:00	1.0		4:FE=400000
107	met08_sn_6010	SAMPLE	251198-042	Soil	205625	12/10/13 19:03	1.0		3:FE=430000
108	met08_sn_6010	CCV				12/10/13 19:06	1.0	9	
109	met08_sn_6010	CCB				12/10/13 19:13	1.0		
110	met08_sn_6010	CCB				12/10/13 19:17	1.0		
111	met08_sn_6010	SAMPLE	251198-044	Soil	205625	12/10/13 19:22	1.0		5:FE=430000
112	met08_sn_6010	SAMPLE	251198-046	Soil	205625	12/10/13 19:25	1.0		4:FE=490000
113	met08_sn_6010	SAMPLE	251198-048	Soil	205625	12/10/13 19:29	1.0		5:FE=440000
114	met08_sn_6010	SAMPLE	251198-050	Soil	205625	12/10/13 19:32	1.0		3:FE=420000
115	met08_sn_6010	SAMPLE	251198-052	Soil	205625	12/10/13 19:35	1.0		3:FE=430000
116	met08_sn_6010	SAMPLE	251198-053	Soil	205625	12/10/13 19:38	1.0		3:FE=390000
117	met08_sn_6010	SAMPLE	251198-055	Soil	205625	12/10/13 19:41	1.0		2:FE=340000
118	met08_sn_6010	SAMPLE	251198-057	Soil	205625	12/10/13 19:44	1.0		5:FE=430000
119	met08_sn_6010	SAMPLE	251198-059	Soil	205625	12/10/13 19:48	1.0		2:FE=370000
120	met08_sn_6010	SAMPLE	251198-061	Soil	205625	12/10/13 19:51	1.0		3:FE=410000
121	met08_sn_6010	CCV				12/10/13 19:54	1.0	9	
122	met08_sn_6010	X				12/10/13 20:01	1.0		
123	met08_sn_6010	CCB				12/10/13 20:05	1.0		
124	met08_sn_6010	SAMPLE	251198-063	Soil	205625	12/10/13 20:10	1.0		3:FE=420000
125	met08_sn_6010	SAMPLE	251198-065	Soil	205625	12/10/13 20:13	1.0		3:FE=420000
126	met08_sn_6010	ICSAB				12/10/13 20:16	1.0	11	5:AL=490000
127	met08_sn_6010	SAMPLE	251198-067	Soil	205625	12/10/13 20:23	1.0		2:FE=320000
128	met08_sn_6010	SAMPLE	251198-069	Soil	205625	12/10/13 20:26	1.0		2:FE=380000
129	met08_sn_6010	SAMPLE	251198-070	Soil	205625	12/10/13 20:30	1.0		2:FE=400000
130	met08_sn_6010	SAMPLE	251198-072	Soil	205625	12/10/13 21:17	1.0		3:FE=400000
131	met08_sn_6010	SAMPLE	251198-074	Soil	205625	12/10/13 21:20	1.0		4:FE=410000
132	met08_sn_6010	X	RINSE			12/10/13 21:23	1.0		
133	met08_sn_6010	BLANK	QC719714	Soil	205961	12/10/13 21:27	1.0		
134	met08_sn_6010	BS	QC719715	Soil	205961	12/10/13 21:31	1.0		
135	met08_sn_6010	CCV				12/10/13 21:35	1.0	9	
136	met08_sn_6010	CCB				12/10/13 21:42	1.0		
137	met08_sn_6010	BSD	QC719716	Soil	205961	12/10/13 21:47	1.0		
138	met08_sn_6010	MSS	251356-001	Soil	205961	12/10/13 21:52	1.0		7:MG=2000000
139	met08_sn_6010	MS	QC719717	Soil	205961	12/10/13 21:55	1.0		1:MG=1500000
140	met08_sn_6010	MSD	QC719718	Soil	205961	12/10/13 21:58	1.0		
141	met08_sn_6010	SER	QC719719	Soil	205961	12/10/13 22:01	5.0		
142	met08_sn_6010	PDS	QC719720	Soil	205961	12/10/13 22:04	1.0	10 12	
143	met08_sn_6010	SAMPLE	251356-002	Soil	205961	12/10/13 22:08	1.0		5:MG=1800000
144	met08_sn_6010	SAMPLE	251356-003	Soil	205961	12/10/13 22:11	1.0		6:MG=1100000
145	met08_sn_6010	SAMPLE	251356-004	Soil	205961	12/10/13 22:14	1.0		6:MG=1200000
146	met08_sn_6010	SAMPLE	251356-005	Soil	205961	12/10/13 22:18	1.0		6:MG=1100000
147	met08_sn_6010	CCV				12/10/13 22:21	1.0	9	
148	met08_sn_6010	X				12/10/13 22:28	1.0		
149	met08_sn_6010	CCB				12/10/13 22:31	1.0		
150	met08_sn_6010	SAMPLE	251356-006	Soil	205961	12/10/13 22:36	1.0		6:MG=1500000
151	met08_sn_6010	SAMPLE	251356-007	Soil	205961	12/10/13 22:39	1.0		6:MG=1500000
152	met08_sn_6010	ICSAB				12/10/13 22:43	1.0	11	5:MG=500000
153	met08_sn_6010	SAMPLE	251356-008	Soil	205961	12/10/13 22:49	1.0		6:FE=440000
154	met08_sn_6010	SAMPLE	251356-009	Soil	205961	12/10/13 22:53	1.0		6:MG=760000
155	met08_sn_6010	SAMPLE	251465-005	Soil	205961	12/10/13 22:59	1.0		6:FE=460000
156	met08_sn_6010	SAMPLE	251466-005	Soil	205961	12/10/13 23:03	1.0		6:FE=640000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 83495796

Instrument : MET08 Begun : 12/10/13 07:16
Method : EPA 6010B SOP Version : icp metals_rv9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
157	met08_sn_6010	SAMPLE	251467-005	Soil	205961	12/10/13 23:06	1.0		6:FE=460000
158	met08_sn_6010	SAMPLE	251468-005	Soil	205961	12/10/13 23:09	1.0		6:FE=350000
159	met08_sn_6010	SAMPLE	251469-005	Soil	205961	12/10/13 23:13	1.0		3:FE=290000
160	met08_sn_6010	SAMPLE	251470-005	Soil	205961	12/10/13 23:16	1.0		8:FE=450000
161	met08_sn_6010	CCV				12/10/13 23:23	1.0	9	
162	met08_sn_6010	CCB				12/10/13 23:30	1.0		
163	met08_sn_6010	MS	QC719093	Filtrate	205813	12/10/13 23:35	1.0		
164	met08_sn_6010	MSD	QC719094	Filtrate	205813	12/10/13 23:39	1.0		
165	met08_sn_6010	CCV				12/10/13 23:43	1.0	9	
166	met08_sn_6010	CCB				12/10/13 23:50	1.0		
167	met08_sn_6010	ICSAB				12/10/13 23:55	1.0	11	5:MG=490000

NT 12/10/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 13.

JDB 12/10/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 14 through 32.

CRT 12/10/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 33 through 133.

JDB 12/11/13 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 134 through 167.

JDB 12/11/13 : Sample runs 013-029 were removed due to an ICSAB not being ran after the ICSA

Standards used: 1=S23685 2=S23687 3=S23686 4=S23688 5=S23689 6=S23692 7=S23694 8=S23690 9=S23693 10=S23461 11=S23691 12=S23462 13=S21652 14=S21653

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83495796

Date : 12/10/13 Reference : met08_sn_6010
Sequence : MET08 12/10/13 Analyzed : 12/10/13 07:21

#	Type	Sample ID	Y A
		ICAL STD	2693142
		LOWER LIMIT	807943
		UPPER LIMIT	5386284
011	ICB		2736066
012	ICSA		2373852
021	CCV		2778245
022	CCB		2639229
030	CCV		2761345
031	CCB		2658853
032	ICSAB		2406704
033	BLANK	QC719369	2535875
034	BLANK	QC719376	2571699
035	BLANK	QC719569	2528477
036	BS	QC719370	2676832
037	BSD	QC719371	2685473
039	MS	QC719372	2655895
040	MSD	QC719373	2602477
041	CCV		2743117
042	CCB		2664794
043	SER	QC719374	2777980
044	PDS	QC719375	2610912
050	CCV		2738055
051	CCB		2666456
052	ICSAB		2381099
063	CCV		2739179
064	CCB		2728389
065	BLANK	QC718670	2834170
066	BS	QC718671	2829097
067	BSD	QC718672	2809301
068	MSS	251176-002	2562212
069	MS	QC718673	2530082
070	MSD	QC718674	2490551
071	SAMPLE	251179-002	2638164
072	CCV		2763172
073	CCB		2676507
074	ICSAB		2394162
075	BLANK	QC719090	2787164
076	BS	QC719091	2797569
077	BSD	QC719092	2758991
078	MSS	251273-001	2358493
081	SER	QC719095	2542850
082	PDS	QC719096	2474157
083	CCV		2728342
084	CCB		2687655
085	SAMPLE	251273-002	2362222
086	SAMPLE	251273-003	2473833
087	SAMPLE	251273-004	2460685
088	SAMPLE	251273-005	2370093
089	SAMPLE	251273-008	2368403
090	SAMPLE	251273-009	2346608
091	SAMPLE	251273-010	2352647

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83495796

Date : 12/10/13 Reference : met08_sn_6010
Sequence : MET08 12/10/13 Analyzed : 12/10/13 07:21

#	Type	Sample ID	Y A
092	SAMPLE	251298-008	2200017
093	SAMPLE	251298-009	2435764
095	CCV		2765611
096	CCB		2703093
099	ICSAB		2436901
100	BLANK	QC718345	2783077
101	BS	QC718346	2746069
102	BSD	QC718347	2762308
103	MSS	251198-039	2843419
104	MS	QC718348	2745989
105	MSD	QC718349	2820904
106	SAMPLE	251198-041	2842816
107	SAMPLE	251198-042	2764025
108	CCV		2789588
109	CCB		2740925
110	CCB		2702188
111	SAMPLE	251198-044	2796613
112	SAMPLE	251198-046	2831795
113	SAMPLE	251198-048	2857897
114	SAMPLE	251198-050	2864497
115	SAMPLE	251198-052	2839832
116	SAMPLE	251198-053	2814546
117	SAMPLE	251198-055	2824960
118	SAMPLE	251198-057	2752981
119	SAMPLE	251198-059	2800168
120	SAMPLE	251198-061	2854216
121	CCV		2792223
123	CCB		2731192
124	SAMPLE	251198-063	2812711
125	SAMPLE	251198-065	2837273
126	ICSAB		2439875
127	SAMPLE	251198-067	2829295
128	SAMPLE	251198-069	2756718
129	SAMPLE	251198-070	2861504
130	SAMPLE	251198-072	2910521
131	SAMPLE	251198-074	2814167
133	BLANK	QC719714	2939341
134	BS	QC719715	2735093
135	CCV		2806513
136	CCB		2735792
137	BSD	QC719716	2741966
139	MS	QC719717	2428338
140	MSD	QC719718	2493636
141	SER	QC719719	2677932
142	PDS	QC719720	2432185
147	CCV		2809574
149	CCB		2753801
152	ICSAB		2433526
155	SAMPLE	251465-005	2773944
156	SAMPLE	251466-005	2686291
157	SAMPLE	251467-005	2738644
158	SAMPLE	251468-005	2779328

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 83495796

Date : 12/10/13 Reference : met08_sn_6010
Sequence : MET08 12/10/13 Analyzed : 12/10/13 07:21

#	Type	Sample ID	Y A
159	SAMPLE	251469-005	2862908
160	SAMPLE	251470-005	2657675
161	CCV		2829854
162	CCB		2732783
163	MS	QC719093	2486726
164	MSD	QC719094	2461926
165	CCV		2775190
166	CCB		2698546
167	ICSAB		2432076

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 251273 METALS Filtrate: EPA 6010B

Inst : MET08 Reviewer : ---
Calnum : 83495796001 Date : 10-DEC-2013 07:16
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	met08_sn_6010	83495796002	CRI5.1	10-DEC-2013 07:21	S23685
L2	met08_sn_6010	83495796003	CS100	10-DEC-2013 07:26	S23687
L3	met08_sn_6010	83495796004	CS1K	10-DEC-2013 07:30	S23686
L4	met08_sn_6010	83495796005	CS10K	10-DEC-2013 07:34	S23688
L5	met08_sn_6010	83495796006	CS100K	10-DEC-2013 07:41	S23689

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Chromium	A	108.26	100.46	100.89	99.107		LOR0	0.00000	0.01009		102.18	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Chromium	A	5.0000	9	100.00	1	1000.0	2	10000	0		

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 251273 METALS Filtrate
EPA 6010B

Inst : MET08
Calnum : 83495796001 Cal Date : 10-DEC-2013

ICV 83495796007 (10-DEC-2013) stds: S23692

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Chromium	A	5000	5031	ug/L	1	10	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 251273 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83495796011 File : met08_sn_6010 Time : 10-DEC-2013 08:22
Cal : 83495796001 Caldate : 10-DEC-2013

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Chromium	A	ND	5.000	2.500	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2693142	2736066	1.59

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR 251273 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83495796012 File : met08_sn_6010 Time : 10-DEC-2013 08:27
Cal : 83495796001 Caldate : 10-DEC-2013
Standards: S23690

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	20240	ug/L	101
Copper	A	20000	21220	ug/L	106
Manganese	A	20000	19450	ug/L	97
Nickel	A	20000	18970	ug/L	95
Vanadium	A	20000	20340	ug/L	102
Aluminum	R	500000	516600	ug/L	103
Calcium	R	500000	502700	ug/L	101
Iron	R	200000	196200	ug/L	98
Magnesium	R	500000	515000	ug/L	103
Titanium	R	20000	21700	ug/L	109

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2693142	2373852	-11.86

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 251273 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83495796072 File : met08_sn_6010 Time : 10-DEC-2013 15:02
Cal : 83495796001 Caldate : 10-DEC-2013
Standards: S23693

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	102.18	101.88	5000	5139	ug/L	3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2693142	2763172	2.60

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 251273 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83495796073 File : met08_sn_6010 Time : 10-DEC-2013 15:09
Cal : 83495796001 Caldate : 10-DEC-2013

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Chromium	A	ND	5.000	2.500	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2693142	2676507	-0.62

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 251273 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83495796074 File : met08_sn_6010 Time : 10-DEC-2013 15:14
Cal : 83495796001 Caldate : 10-DEC-2013
Standards: S23691

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	531.3	ug/L	6	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2693142	2394162	-11.10

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 251273 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83495796083 File : met08_sn_6010 Time : 10-DEC-2013 17:00
Cal : 83495796001 Caldate : 10-DEC-2013
Standards: S23693

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	102.18	103.65	5000	5228	ug/L	5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2693142	2728342	1.31

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 251273 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83495796084 File : met08_sn_6010 Time : 10-DEC-2013 17:07
Cal : 83495796001 Caldate : 10-DEC-2013

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Chromium	A	ND	5.000	2.500	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2693142	2687655	-0.20

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 251273 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83495796095 File : met08_sn_6010 Time : 10-DEC-2013 18:07
Cal : 83495796001 Caldate : 10-DEC-2013
Standards: S23693

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	102.18	100.71	5000	5080	ug/L	2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2693142	2765611	2.69

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 251273 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83495796096 File : met08_sn_6010 Time : 10-DEC-2013 18:14
Cal : 83495796001 Caldate : 10-DEC-2013

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Chromium	A	ND	5.000	2.500	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2693142	2703093	0.37

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 251273 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83495796152 File : met08_sn_6010 Time : 10-DEC-2013 22:43
Cal : 83495796001 Caldate : 10-DEC-2013
Standards: S23691

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	500.0	524.4	ug/L	5	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2693142	2433526	-9.64

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 251273 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83495796161 File : met08_sn_6010 Time : 10-DEC-2013 23:23
Cal : 83495796001 Caldate : 10-DEC-2013
Standards: S23693

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	102.18	99.283	5000	5008	ug/L	0	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2693142	2829854	5.08

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 251273 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83495796162 File : met08_sn_6010 Time : 10-DEC-2013 23:30
Cal : 83495796001 Caldate : 10-DEC-2013

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Chromium	A	ND	5.000	2.500	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2693142	2732783	1.47

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 251273 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83495796165 File : met08_sn_6010 Time : 10-DEC-2013 23:43
Cal : 83495796001 Caldate : 10-DEC-2013
Standards: S23693

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Chromium	A	102.18	101.39	5000	5114	ug/L	2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2693142	2775190	3.05

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 251273 METALS Filtrate
EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 83495796166 File : met08_sn_6010 Time : 10-DEC-2013 23:50
Cal : 83495796001 Caldate : 10-DEC-2013

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Chromium	A	ND	5.000	2.500	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2693142	2698546	0.20

SAMPLE PREPARATION SUMMARY

Batch # : 205813 Analysis : ICAP
Started By : NCD Prep Date : 05-DEC-2013 17:00 Finished By : NCD
Method : 3010A SOP Version : 3010A_icp_rv15 Units : mL
Spike #1 ID : S21652 Spike #2 ID : S21653

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
251273-001		Filtrate	50	50	1	1.0						CR	
251273-002		Filtrate	50	50	1	1.0						CR	
251273-003		Filtrate	50	50	1	1.0						CR	
251273-004		Filtrate	50	50	1	1.0						CR	
251273-005		Filtrate	50	50	1	1.0						CR	
251273-008		Filtrate	50	50	1	1.0						CR	
251273-009		Filtrate	50	50	1	1.0						CR	
251273-010		Filtrate	50	50	1	1.0						CR	
251298-008		Filtrate	50	50	1	1.0						FE, MN	
251298-009		Filtrate	50	50	1	1.0						FE, MN	
QC719090	BLANK	Filtrate	50	50	1	1.0							
QC719091	BS	Filtrate	50	50	1	1.0		.5	.5				
QC719092	BSD	Filtrate	50	50	1	1.0		.5	.5				
QC719093	MS	Filtrate	50	50	1	1.0		.5	.5				
QC719094	MSD	Filtrate	50	50	1	1.0		.5	.5				
QC719095	SER	Filtrate	50	50	1	1.0							
QC719096	PDS	Filtrate	50	50	1	1.0							

Analyst: AH Date: 12/11/13 Reviewer: PRW Date: 12/19/13

Water Digestion for ICP

Curtis & Tompkins, Ltd.

LIMS Batch #: 205813
Digested by: NCD
Date Digested: 12/4/2013

Digestion Method
☒ EPA 3010a for ICP
☐ EPA 200.7
☒ Filtrate prep

BK3498
Page 79

Lvl.	Sample #	Container ID	Volume Sample(mL)	Final Volume (mL)	Filtered? (y/n)	ID Π	Comments
	BLK 719090		☑ 50 ☐	☑ 50 ☐	NO	✓	BLK filter 251273
	BS 91		☑ 50 ☐	☑ 50 ☐		✓	
	BS 92		☑ 50 ☐	☑ 50 ☐		✓	
Π	251273-001	E	☑ 50 ☐	☑ 50 ☐		✓	MS
5	-001		☑ 50 ☐	☑ 50 ☐		✓	MSD
	-001		☑ 50 ☐	☑ 50 ☐		✓	
	-002		☑ 50 ☐	☑ 50 ☐		✓	
	-003		☑ 50 ☐	☑ 50 ☐		✓	
	-004		☑ 50 ☐	☑ 50 ☐		✓	
10	-005		☑ 50 ☐	☑ 50 ☐		✓	
	-006		☑ 50 ☐	☑ 50 ☐		✓	
	-007		☑ 50 ☐	☑ 50 ☐		✓	
	-010		☑ 50 ☐	☑ 50 ☐		✓	
Π	251298-008		☑ 50 ☐	☑ 50 ☐		✓	verified DHCE
15	-009		☑ 50 ☐	☑ 50 ☐		✓	
			☐ 50 ☐	☐ 50 ☐			
			☐ 50 ☐	☐ 50 ☐			
			☐ 50 ☐	☐ 50 ☐			
			☐ 50 ☐	☐ 50 ☐			
20			☐ 50 ☐	☐ 50 ☐			
			☐ 50 ☐	☐ 50 ☐			
			☐ 50 ☐	☐ 50 ☐			
			☐ 50 ☐	☐ 50 ☐			
			☐ 50 ☐	☐ 50 ☐			
			☐ 50 ☐	☐ 50 ☐			

NCD 12/4/2013

	Reagent ID or LIMS #	Initials / Date
Digestion tubes, lot #	159172	NCD 12/4/2013
0.5 mL of spike solution (Std1) was added to all spikes	521653	
0.5 mL of spike solution (Std2) was added to all spikes	521652	
Digestion Temperature (°C), Block and Probe Location	— —	
Digestion begun at (time)	17:00	
☐ Conc. HNO3 or ☑ 1:1 HNO3	3290-12013	
1:1 HCl	6272-103113	
digestion ended at (time)		
☐ filtered thru' Whatman # 541		
Relinquished to ICP group	1:00	

12/4/2013
Prep Chemist / Date

Continued from page _____.
Continued on page _____.

Reviewed Online / See LIMS

APPENDIX B

Field Forms

(provided on CD in Hard Copy Report)

Draft

Pheonix Goodyear Airport South
Field Sampling Form

Date: 7-1-13
Technician: MWS
Weather: Sunny

Project Number: 39049-103
Well ID: PGAS System Sampling

Equipment

	Water Level Meter	Water Quality Meter		#1	#2
Make			YSI	556,	
Model			Hach	2100P.	
Calibrated			Date/Time		

Full Purge Calculations
Well Diameter (Circle One)

	2"	4"	6"	Other _____
Volumes to purge	=.163 gal/ft	=.652 gal/ft	=1.47 gal/ft	

Elevation of Well (TOC) _____
Total Depth _____
- Depth to water _____
=Depth to water column _____
x volums to purge _____
Total Volume to Purge _____

Sampling Method and Pump Information (circle one)

2" Rediflo* Hydrosleeve Bailer Pump Hang Depth _____
Dedicated** Extraction Well (System)

Purge Time Start _____
Purge Time End _____
Time Sample Collected _____

Filter _____
Unfiltered _____

Sample Observations
Odor _____
Color _____

			Circle One	Stabilization Criteria 3 consecutive readings (acceptable to sample)					
				+/- 0.1	+/- 3 %	+ / - 10 % when > than 10 ntu	+/- 10 mv	+/- 0.3 mg/l	
Time	Flow Rate (ml/min)	Volume Purged (gal)	Temperature deg F deg C	pH (su)	Spec. Conductivity ms/cm s/cm	Turbidity (ntu)	ORP (mv)	DO (mg/l)	DTW
0930			28.43	7.17	4140	1.50	119.1	3.61	AST-Inf
0935			28.65	7.49	4224	26.2	114.1	3.88	AST-Eff
0905			27.08	7.12	2428	.71	121.2	2.82	GAC-02 Inf
0910			27.31	6.87	2391	1.78	115.2	.86	GAC-02 Eff
0820			29.23	6.41	3564	1.02	177.3	2.68	E-07R
1330			30.45	6.58	3786	1.45	140.1	4.03	C06-20
1340			29.78	7.29	1928	2.18	138.5	2.97	C06-11
0840			27.75	6.28	3781	.52	57.2	2.26	E-12
0850			27.05	6.45	4669	1.79	126.9	2.87	E-17

Observations:
Wellhead conditions Locked ( ) Plug or Cap in Place ( ) Well Lid Secure ( )
Comment _____

Samples Collected:

	Check	Qty	Vol	Preservative	Type
8260 Full List			40 ml	HCL	P G
8260 Halogenated Only			40 ml	HCL	P G
6010 B Total Chromium			250 ml	HNO3	P G

Other Samples
_____
_____

Sample sheets should be filled out completely
Any changes should have single line drawn through, initialed and dated

Phoenix Goodyear Airport South
Superfund Site
Monthly Water Level Readings

DATE: 7-1-13
TECH: mark

Subunit	Well	Time	Depth to Water (feet)	Notes
A	EMW-03	0745	71.18	
A	EMW-04	0747	68.12	
A	EMW-07R	0750	64.28	Aero Turbine Fence
A	EMW-08R	0845	70.60	
A	EMW-10R	0847	68.20	
A	GMW-03	1015	69.30	Cavco
A	GMW-04	0555	71.98	Lockheed Parking Lot combo for lock 5600
A	GMW-05	0600	65.64	Lockheed Parking Lot
A	GMW-06	0730	70.57	Lockheed
A	GMW-07	—	DRY	Lockheed
C	IO-101	0735	78.12	Lockheed
C	IO-102	0737	78.19	Lockheed
C	COG-05	1350	91.97	
C	EMW-21UC	0855	86.18	
C	EMW-22LC	0549	82.89	
C	SB-08LC	0857	84.64	
C	GAC-03	0740	80.82	Cavco - notify Jeff M for access
C	GMW-01	1017	79.78	Cavco
C	GMW-02	1020	79.99	Cavco

C	GMW-09MC	1025	79.79	Cavco
C	GMW-13UC	0545	80.08	Church
C	GMW-14UC	0524	86.71	Cotton Field
C	GMW-15UC	0534	86.48	Cotton Field
C	GMW-16UC	0536	90.68	Cotton Field
C	GMW-17UC	0528	91.82	Cotton Field
C	GMW-18UC	0526	92.43	Cotton Field
C	GMW-19LC	0530	92.75	Cotton Field
C	GMW-20LC	0532	97.82	Cotton Field

Phoenix Goodyear Airport Superfund Site
Monthly Totalizer Readings

DATE: 7-1-13

TECH: MWK

SYSTEM	FLOW RATE gpm	SCADA TOTALIZER READING	LOCAL TOTALIZER READING
GAC-02	750	NR	31787
GAC-03	0	NR	35639
E-101	0	NR	420622

Comments:

Recorded E-101 from meter just prior to GAC-02 vessels, NW corner of CAVCO lot

Recorded GAC-02 from inclined pipe, NW corner of CAVCO lot

PGA-South Water Levels
3rd Quarter 2013

Well	Subunit	Date	Time	Water Level Feb 2013	Water Level August 2013	GW Elevation	Comments
E-03	A	8-6	0635	63.3	60.56		
E-04	A	8-6	0625	51.02	56.85		
E-11	A	8-6	0655	59.68	DRY 78.40		
E-16	A	8-5	0633	80.4	73.09		
E-17	A	8-6	0910	78.38	87.43		
EMW-03	A	8-6	1012	70.94	72.60		
EMW-06	A	8-6	1000	66.81	68.68		
EMW-07R	A	8-6	0700	64.05	66.51		
EMW-08R *	A	8-6	0900	69.66	71.44		
EMW-09	A	8-6	0848	49.6	—		Dry 48' Bottom
EMW-10R *	A	8-6	0850	67.87	68.96		
EMW-11R *	A	8-6	0935	66.7	67.68		
EMW-12R *	A	8-6	0710	66.45	68.84		Civil air patrol hanger
EMW-13	A	8-6	0645	59.49	64.15		
EMW-14R *	A	8-6	0720	66.06	67.84		
EMW-15	A	8-5	0617	65.99	65.03		
EMW-16	A	8-5	0641	68.35	66.40		
EMW-29A	A	8-6	1330	76.94	78.42		COG - by COG-5 ~~Locked (jeff)~~
EO-01	A	8-6	0542	55.72	64.35		

PGA-South Water Levels
3rd Quarter 2013

Well	Subunit	Date	Time	Water Level Feb 2013	Water Level August 2013	GW Elevation	Comments
EO-02	A	8-6	0545	57.1	64.35		
EO-03	A	8-6	0548	57.58	62.54		
EO-04	A	8-6	0551	57.95	60.30		
EO-05	A	8-6	0554	60.1	61.79		
EO-07	A	8-6	0925	69.15	70.57		
EO-12	A	8-6	0955	67.12	DRY		
EO-17	A	8-6	0912	72.97	75.14		
EP-02R	A	8-6	0730	63.29	64.12		
GMW-03	A	8-6	1050	68.81	70.60		
GMW-04	A	8-6	1035	71.3	73.06		Code 5600
GMW-06	A	8-7	0735	70.1	71.67		Lockheed
GMW-24A	A	8-6	0615	52.74	61.57		~~Gavec~~
IO-01	A	8-5	0536	40.71	45.80		
IO-02	A	8-5	0539	34.65	36.93		
IO-04	A	8-5	0546	48.58	57.43		35ft from Van H toward Rusby / ~~Obstruction at 35'~~
IO-05	A	8-5	0544	37.12	38.66		
IO-06	A	8-5	0553	55.26	61.34		
IO-07	A	8-5	0550	41.28	42.35		
IO-08	A	8-5	0558	58.44	67.03		

PGA-South Water Levels
3rd Quarter 2013

Well	Subunit	Date	Time	Water Level Feb 2013	Water Level August 2013	GW Elevation	Comments
IO-09	A	8-5	0601	50.26	53.19		
IO-10	A	8-5	0603	50.21	56.45		
IO-12	A	8-5	0606	42.77	40.32		
IO-13	A	8-5	0608	56.74	58.68		
IO-14	A	8-5	0533	38.06	41.76		
IO-16	A	8-5	0542	34.92	34.59		
IO-17	A	8-5	0555	53.8	59.83		
IO-18	A	8-5	0611	62.89	64.15		
NEW-01	A	8-6	0530	48.02	57.90		
NEW-03	A	8-6	0610	62.65	65.29		
NEW-09	A	8-6	1400	63.68	69.52		
COG-05	C	8-6	1335	83.7	97.90		Next to EMW29A (Call City_
E-201	C	8-5	0910	81.35	95.15		Enclosure in Field by Planes
EMW-02	C	8-6	1140	69.38	83.18		still has pump
EMW-19LC	C	8-6	0600	62.75	75.47		still has pump Field by Tower
EMW-20LC	C	8-5	0635	70.23	83.81		~~Obstruction at 49'~~
EMW-21UC	C	8-5	0800	77.68	91.62		
EMW-22LC	C	8-6	1042	71.94	87.24		
EMW-28LC	C	8-6	0740	63.83	77.11		Taxiway

PGA-South Water Levels
3rd Quarter 2013

Well	Subunit	Date	Time	Water Level Feb 2013	Water Level August 2013	GW Elevation	Comments
EMW-28UC	C	8-6	0920	64.3	77.55		Taxiway
GAC-03	C	8-7	0745	72.88	84.70		Jeff
GMW-01	C	8-6	1100	72	84.90		Cavco
GMW-02	C	8-6	1110	71.73	86.92		Cavco
GMW-09MC	C	8-6	1120	71.4	85.50		Cavco
GMW-10LC	C	8-6	0810	75.18	76.40		
GMW-11LC	C	8-6	0942	63.65	77.45		
GMW-11UC	C	8-6	0944	63.72	77.50		
GMW-12LC	C	8-6	0930	68.98	82.32		still has pump
GMW-13UC	C	8-5	1025	74.18	88.15		Church parking lot
GMW-14UC	C	8-5	1030	80.82	94.59		Cotton Field
GMW-15UC	C	8-5	1230	81.38	94.81		Cotton Field
GMW-16UC	C	8-5	1215	85.6	98.92		Cotton Field
GMW-17UC	C	8-5	1100	86.58	100.00		Cotton Field
GMW-18UC	C	8-5	1050	88.78	100.43		Cotton Field
GMW-19LC	C	8-5	1120	87.54	100.92		Cotton Field
GMW-20LC	C	8-5	1200	92.62	106.33		Cotton Field
GMW-21UC	C	8-6	0830	67.07	81.35		
GMW-22UC	C	8-7	0733	68.13	80.34		

PGA-South Water Levels
3rd Quarter 2013

Well	Subunit	Date	Time	Water Level Feb 2013	Water Level August 2013	GW Elevation	Comments
GMW-23UC	C	8-6	1130	69.4	83.25		
GMW-25LC	C	8-5	1150	NM	108.08		
GMW-26LC	C	8-5	1135	NM	103.00		
I-101	C	8-7	0739	68.89	81.02		Lockheed / need flat bar
I-102	C	8-7	0743	66.18	71.31		Lockheed / need flat bar
I-201	C	8-5	0505	3.5	13.20		
I-202	C	8-5	0932	9.24	7.45		
I-203	C	8-5	0958	3.2	09.68		Infield green spring loaded/ ~~Rusted Shut~~
SB-06LC	C	8-5	0645	73.88	87.68		
SB-07LC	C	8-5	0905	75.34	89.10		
SB-08LC	C	8-5	0730	76.41	90.37		
SB-09LC	C	8-5	0810	78.12	91.96		
SB-10LC	C	8-5	0912	82.12	96.05		
SB-11LC	C	8-6	0745	65.4	79.19		
SB-12LC	C	8-5	0803	82.35	96.47		
SB-13LC	C	8-5	0930	82.5	96.17		

I0-101

I0-102

Pheonix Goodyear Airport South
Field Sampling Form

Date 8-7-13
Technician
Weather

Project Number Semi Annual
Well ID

Equipment

	Water Level Meter	Water Quality Meter		#1	#2
Make					
Model					
Calibrated			Date/Time		

Full Purge Calculations
Well Diameter (Circle One)

	2"	4"	6"	Other _____
Volumes to purge	=.163 gal/ft	=.652 gal/ft	=1.47 gal/ft	

Elevation of Well (TOC) _____
Total Depth _____
- Depth to water _____
=Depth to water column _____
x volums to purge _____
Total Volume to Purge _____

Sampling Method and Pump Information (circle one)

2" Rediflo* Hydrosleeve Bailer Pump Hang Depth _____
Dedicated** Extraction Well

Purge Time Start _____
Purge Time End _____
Time Sample Collected _____

Sample Observations
Odor _____
Color _____

Filter _____
Unfiltered _____

			Circle One	Stabilization Criteria 3 consecutive readings (acceptable to sample)					
				+/- 0.1	+/- 3 %	+ / - 10 % when > than 10 ntu	+/- 10 mv	+/- 0.3 mg/l	
Time	Flow Rate (ml/min)	Volume Purged (gal)	Temperature deg F deg C	pH (su)	Spec. Conductivity ms/cm s/cm	Turbidity (ntu)	ORP (mv)	DO (mg/l)	DTW
0800			27.16	6.94	3035	127	299.1	3.11	E-101
0810			27.36	7.29	2859	9.23	283.3	2.55	GAC-02
0750			27.29	6.96	2794	14.8	266.5	1.92	GAC-03
1400						324			CO6-05
1100			27.08	7.25	3392	1.45	325.2	2.19	NE-02
1045			28.95	7.10	3850	3.08	-59.4	1.80	NE-03
1015			28.76	6.93	4019	3.29	267.9	2.37	NE-04
0620			24.92	7.09	2092	143	328.9	5.03	E-201
0845			26.15	7.29	2461	5.78	129.4	2.36	E-102

Observations:
Wellhead conditions Locked ( ) Plug or Cap in Place ( ) Well Lid Secure ( )
Comment

Samples Collected:

	Check	Qty	Vol	Preservative	Type
8260 Full List			40 ml	HCL	P G
8260 Halogenated Only			40 ml	HCL	P G
6010 B Total Chromium			250 ml	HNO3	P G

Other Samples

Sample sheets should be filled out completely
Any changes should have single line drawn through, initialed and dated

Pheonix Goodyear Airport South
Field Sampling Form

Date 8-8-13
Technician Mark
Weather

Project Number Semi Annual
Well ID

Equipment

	Water Level Meter	Water Quality Meter		#1	#2
Make					
Model					
Calibrated			Date/Time		

Full Purge Calculations
Well Diameter (Circle One)

	2"	4"	6"	Other _____
Volumes to purge	=.163 gal/ft	=.652 gal/ft	=1.47 gal/ft	

Elevation of Well (TOC) _____
Total Depth _____
- Depth to water _____
=Depth to water column _____
x volums to purge _____
Total Volume to Purge _____

Sampling Method and Pump Information (circle one)

2" Rediflo* Hydrosleeve Bailer Pump Hang Depth _____
Dedicated** Extraction Well

Purge Time Start _____
Purge Time End _____
Time Sample Collected _____

Filter _____
Unfiltered _____

Sample Observations
Odor _____
Color _____

			Circle One	Stabilization Criteria 3 consecutive readings (acceptable to sample)					
				+/- 0.1	+/- 3 %	+ / - 10 % when > than 10 ntu	+/- 10 mv	+/- 0.3 mg/l	
Time	Flow Rate (ml/min)	Volume Purged (gal)	Temperature deg F deg C	pH (su)	Spec. Conductivity ms/cm s/cm	Turbidity (ntu)	ORP (mv)	DO (mg/l)	DTW
0900						1.35			GMW-01
0915						1.91			GMW-02
0930						1.99			GMW-03
0945						247			GMW-09MC
0550						10.8			EMW-14R
0830						3.31			EMW-03
0815						16.6			EMW-06
0725						1.20			EMW-08R
0715						2.49			EMW-10R
0745						6.01			EMW-11R
0605						4.06			EP-02R

Observations:
Wellhead conditions Locked ( ) Plug or Cap in Place ( ) Well Lid Secure ( )
Comment

Samples Collected:

	Check	Qty	Vol	Preservative	Type
8260 Full List			40 ml	HCL	P G
8260 Halogenated Only			40 ml	HCL	P G
6010 B Total Chromium			250 ml	HNO3	P G

Other Samples

Sample sheets should be filled out completely
Any changes should have single line drawn through, initialed and dated

Pheonix Goodyear Airport South
Field Sampling Form

Date: 8-8-13
Technician: MLW
Weather: Sunny

Project Number: Semi-annual
Well ID:

Equipment

	Water Level Meter	Water Quality Meter		#1	#2
Make					
Model					
Calibrated			Date/Time		

Full Purge Calculations
Well Diameter (Circle One)

	2"	4"	6"	Other _____
Volumes to purge	=.163 gal/ft	=.652 gal/ft	=1.47 gal/ft	

Elevation of Well (TOC) _____
Total Depth _____
- Depth to water _____
=Depth to water column _____
x volums to purge _____
Total Volume to Purge _____

Sampling Method and Pump Information (circle one)

2" Rediflo* Hydrosleeve Bailer Pump Hang Depth _____
Dedicated** Extraction Well

Purge Time Start _____
Purge Time End _____
Time Sample Collected _____

Filter _____
Unfiltered _____

Sample Observations
Odor _____
Color _____

			Circle One	Stabilization Criteria 3 consecutive readings (acceptable to sample)					
				+/- 0.1	+/- 3 %	+ / - 10 % when > than 10 ntu	+/- 10 mv	+/- 0.3 mg/l	
Time	Flow Rate (ml/min)	Volume Purged (gal)	Temperature deg F deg C	pH (su)	Spec. Conductivity ms/cm s/cm	Turbidity (ntu)	ORP (mv)	DO (mg/l)	DTW
1015						6.00			NEW-03
0845						2.21			GMW-13UC
0540						10.7			EMW-12R
0620						9.60			SB-11LC
0645						46.3			GMW-10LC
0700						26.8			GMW-21UC
0800						15.2			GMW-11 UC
1000						5.77			GMW-23 UC
1030						2.58			EMW-07R

Observations:
Wellhead conditions Locked ( ) Plug or Cap in Place ( ) Well Lid Secure ( )
Comment

Samples Collected:

	Check	Qty	Vol	Preservative	Type	
8260 Full List			40 ml	HCL	P	G
8260 Halogenated Only			40 ml	HCL	P	G
6010 B Total Chromium			250 ml	HNO3	P	G

Other Samples

Sample sheets should be filled out completely
Any changes should have single line drawn through, initialed and dated

Pheonix Goodyear Airport South
Field Sampling Form

Date 8-9-13
Technician
Weather

Project Number
Well ID

Equipment

	Water Level Meter	Water Quality Meter		#1	#2
Make					
Model					
Calibrated			Date/Time		

Full Purge Calculations
Well Diameter (Circle One)

	2"	4"	6"	Other
Volumes to purge	=.163 gal/ft	=.652 gal/ft	=1.47 gal/ft	

Elevation of Well (TOC)
Total Depth
- Depth to water
=Depth to water column
x volums to purge
Total Volume to Purge

Sampling Method and Pump Information (circle one)

2" Rediflo* Hydrosleeve Bailer Pump Hang Depth

Dedicated** Extraction Well

Purge Time Start
Purge Time End
Time Sample Collected

Sample Observations
Odor
Color

Filter
Unfiltered

			Circle One	Stabilization Criteria 3 consecutive readings (acceptable to sample)					
				+/- 0.1	+/- 3 %	+ / - 10 % when > than 10 ntu	+/- 10 mv	+/- 0.3 mg/l	
Time	Flow Rate (ml/min)	Volume Purged (gal)	Temperature deg F deg C	pH (su)	Spec. Conductivity ms/cm s/cm	Turbidity (ntu)	ORP (mv)	DO (mg/l)	DTW
0620						2.12			EMW-13
0630						133			E-03
0600						2.70			E-04
0605						6.50			GMW-24 A
0545						10.3			NEW-01
0645						5.99			EMW-15
0700						16.3			SB-06 LC
0710						63.1			SB-06UC
0745						15.5			SB-08LC
0800						20.1			SB-08UC
0810						17.5			SB-09LC

Observations:
Wellhead conditions Locked ( ) Plug or Cap in Place ( ) Well Lid Secure ( )
Comment

Samples Collected:

	Check	Qty	Vol	Preservative	Type
8260 Full List			40 ml	HCL	P G
8260 Halogenated Only			40 ml	HCL	P G
6010 B Total Chromium			250 ml	HNO3	P G

Other Samples

Sample sheets should be filled out completely
Any changes should have single line drawn through, initialed and dated

Pheonix Goodyear Airport South
Field Sampling Form

Date 8-9-13
Technician Mark
Weather

Project Number
Well ID

Equipment

	Water Level Meter	Water Quality Meter		#1	#2
Make					
Model					
Calibrated			Date/Time		

Full Purge Calculations
Well Diameter (Circle One)

	2"	4"	6"	Other
Volumes to purge	=.163 gal/ft	=.652 gal/ft	=1.47 gal/ft	

Elevation of Well (TOC) _____
Total Depth _____
- Depth to water _____
=Depth to water column _____
x volums to purge _____
Total Volume to Purge _____

Sampling Method and Pump Information (circle one)

2" Rediflo* Hydrosleeve Bailer Pump Hang Depth _____

Dedicated** Extraction Well

Purge Time Start _____
Purge Time End _____
Time Sample Collected _____

Filter _____
Unfiltered _____

Sample Observations
Odor _____
Color _____

			Circle One	Stabilization Criteria 3 consecutive readings (acceptable to sample)					
				+/- 0.1	+/- 3 %	+ / - 10 % when > than 10 ntu	+/- 10 mv	+/- 0.3 mg/l	
Time	Flow Rate (ml/min)	Volume Purged (gal)	Temperature deg F deg C	pH (su)	Spec. Conductivity ms/cm s/cm	Turbidity (ntu)	ORP (mv)	DO (mg/l)	DTW
0820						12.2			SB40LC
0900						19.3			GMW-14 uc
1030						55.1			GMW-15 uc
1015						9.47			GMW-16 uc
0930						13.1			GMW-17 uc
0915						7.05			GMW-18 uc
0945						24.5			GMW-19 LC
1000						65.0			GMW-20 LC

Observations:
Wellhead conditions Locked ( ) Plug or Cap in Place ( ) Well Lid Secure ( )
Comment

Samples Collected:

	Check	Qty	Vol	Preservative	Type
8260 Full List			40 ml	HCL	P G
8260 Halogenated Only			40 ml	HCL	P G
6010 B Total Chromium			250 ml	HNO3	P G

Other Samples

Sample sheets should be filled out completely
Any changes should have single line drawn through, initialed and dated

Pheonix Goodyear Airport South
Field Sampling Form

Date 8-12-13
Technician
Weather

Project Number
Well ID

Equipment

	Water Level Meter	Water Quality Meter		#1	#2
Make					
Model					
Calibrated			Date/Time		

Full Purge Calculations
Well Diameter (Circle One)

	2"	4"	6"	Other _____
Volumes to purge	=.163 gal/ft	=.652 gal/ft	=1.47 gal/ft	

Elevation of Well (TOC) _____
Total Depth _____
- Depth to water _____
=Depth to water column _____
x volums to purge _____
Total Volume to Purge _____

Sampling Method and Pump Information (circle one)

2" Rediflo* Hydrosleeve Bailer Pump Hang Depth _____

Dedicated** Extraction Well

Purge Time Start _____
Purge Time End _____
Time Sample Collected _____

Sample Observations
Odor _____
Color _____

Filter _____
Unfiltered _____

			Circle One	Stabilization Criteria 3 consecutive readings (acceptable to sample)					
				+/- 0.1	+/- 3 %	+ / - 10 % when > than 10 ntu	+/- 10 mv	+/- 0.3 mg/l	
Time	Flow Rate (ml/min)	Volume Purged (gal)	Temperature deg F deg C	pH (su)	Spec. Conductivity ms/cm s/cm	Turbidity (ntu)	ORP (mv)	DO (mg/l)	DTW
0700						8.14			GMW-25 LC
0715						8.22			GMW-26 LC

Observations:
Wellhead conditions Locked ( ) Plug or Cap in Place ( ) Well Lid Secure ( )
Comment

Samples Collected:

	Check	Qty	Vol	Preservative	Type
8260 Full List			40 ml	HCL	P G
8260 Halogenated Only			40 ml	HCL	P G
6010 B Total Chromium			250 ml	HNO3	P G

Other Samples

Sample sheets should be filled out completely
Any changes should have single line drawn through, initialed and dated

4
17
1

Phoenix Goodyear Airport - SOUTH
Instrument Calibration Record

Date 8-7-13

Equipment Information

Make	Model #
Hach	2100P.24
YSI	556:04

Calibration Solution Information

Parameter	Exp. date	Lot #	Comments
pH 4.0	12-13	10089	
7.0	12-13	10094	
10.0	10-13	9957	
Conductivity	12-13	10093	
ORP	9-14	073013	

Calibration Information

Temperature

Time	0515	Time	1440
Temperature	27.06 deg C/F	Temperature	27.24 deg C/F

pH

Time 0515		
std.	Units	Reading
4.0		4.0
7.0		7.0
10.0		9.99

Time 1440		
std.	Units	Reading
4.0		4.0
7.0		7.0
10.0		9.96

Turbidity

Time 0515		
std.	Units	Reading
5.81	NTU	5.85

Time 1440		
std.	Units	Reading
5.81	NTU	5.83

Conductivity

Time 0520		
std.	Units	Reading
1000	us/cm	1000

Time 1450		
std.	Units	Reading
1000	us/cm	1000

Dissolved Oxygen

Time 0530		
Barometric Pressure		
std.	Units	Reading
100	%	100

Time 1500		
Barometric Pressure		
std.	Units	Reading
100	%	100

Redox

Time 0525		
std.	Units	Reading
231.0	mV	231

Time 1455		
std.	Units	Reading
231.0	mV	231

Comments:

Phoenix Goodyear Airport - SOUTH
Instrument Calibration Record

Date 8-8-13

Equipment Information

Make Hach

Model # 2100P. 24

Calibration Solution Information

Parameter	Exp. date	Lot #	Comments

Calibration Information

Temperature

Time _____
Temperature _____ deg C/F

Time _____
Temperature _____ deg C/F

pH

Time		
std.	Units	Reading
4.0		
7.0		
10.0		

Time		
std.	Units	Reading
4.0		
7.0		
10.0		

Turbidity

Time 0530		
std.	Units	Reading
5.81	NTU	5.84

Time 1100		
std.	Units	Reading
5.81	NTU	5.83

Conductivity

Time		
std.	Units	Reading

Time		
std.	Units	Reading

Dissolved Oxygen

Time		
Barometric Pressure		
std.	Units	Reading

Time		
Barometric Pressure		
std.	Units	Reading

Redox

Time		
std.	Units	Reading

Time		
std.	Units	Reading

Comments:

Phoenix Goodyear Airport - SOUTH
Instrument Calibration Record

Date 8-9-13

Equipment Information

Make Hach

Model # 2100P, 2Y

Calibration Solution Information

Parameter	Exp. date	Lot #	Comments

Calibration Information

Temperature

Time _____
Temperature _____ deg C/F

Time _____
Temperature _____ deg C/F

pH

Time		
std.	Units	Reading
4.0		
7.0		
10.0		

Time		
std.	Units	Reading
4.0		
7.0		
10.0		

Turbidity

Time 0515		
std.	Units	Reading
5.81	NTU	5.82

Time 1045		
std.	Units	Reading
5.81	NTU	5.85

Conductivity

Time		
std.	Units	Reading

Time		
std.	Units	Reading

Dissolved Oxygen

Time		
Barometric Pressure		
std.	Units	Reading

Time		
Barometric Pressure		
std.	Units	Reading

Redox

Time		
std.	Units	Reading

Time		
std.	Units	Reading

Comments: _____

Phoenix Goodyear Airport - SOUTH
Instrument Calibration Record

Date 8-12-13

Equipment Information

Make Hach

Model # 2100P, 24

Calibration Solution Information

Parameter	Exp. date	Lot #	Comments

Calibration Information

Temperature

Time _____
Temperature _____ deg C/F

Time _____
Temperature _____ deg C/F

pH

Time		
std.	Units	Reading
4.0		
7.0		
10.0		

Time		
std.	Units	Reading
4.0		
7.0		
10.0		

Turbidity

Time 0615		
std.	Units	Reading
5.81	NTU	5.82

Time 0745		
std.	Units	Reading
5.81	NTU	5.82

Conductivity

Time		
std.	Units	Reading

Time		
std.	Units	Reading

Dissolved Oxygen

Time		
Barometric Pressure		
std.	Units	Reading

Time		
Barometric Pressure		
std.	Units	Reading

Redox

Time		
std.	Units	Reading

Time		
std.	Units	Reading

Comments:

Phoenix Goodyear Airport Superfund Site
Monthly Sampling Form

Date 9-4-13
Technician MWK

Monthly Sample Data

Location	Sample Collection Time	Temperature	pH	Specific Conductivity	Turbidity	ORP	DO	Observations
		degrees C		ms/cm	NTU	mV	mg/L	
AST-Inf	0535	26.80	5.70	3945	.48	274.4	5.98	
AST-Eff	0545	26.03	6.08	3984	4.11	295.4	6.88	
GAC-02Inf	0550	25.57	6.39	2372	1.46	256.7	4.89	
GAC-02Eff	0600	25.91	6.33	2314	1.42	179.1	3.30	
E-07R	0710	27.54	6.69	3574	41.7	142.6	5.34	
COG-20	0730	27.25	6.66	3577	3.14	178.1	3.79	
COG-11	0745	27.88	7.10	1959	.66	166.1	2.67	
E-12	0655	26.77	6.45	3779	.96	109.0	3.73	
E-17	0625	26.20	6.57	4510	5.25	158.1	3.96	

Monthly Totalizer Readings

System	Totalizer	Comments
	Gallons	
GAC-02	46800	
GAC-03	35,718	
E-101	420638	00

Comments

Phoenix Goodyear Airport Superfund Site
Monthly Water Level Readings

Date 9-4-13
Technician MWK

Subunit	Well	Time	Depth to Water (Feet)	Notes
A	EMW-03	0925	73.21	
A	EMW-04	0930	DRY	
A	EMW-07R	0935	67.48	
A	EMW-08R	0638	72.37	
A	EMW-10R	0640	69.86	
A	GMW-03	0910	71.41	
A	GMW-04	0820	73.56	CODE 5600
A	GMW-05	0825	67.21	
A	GMW-06	0830	72.31	
A	GMW-07	—	DRY	
C	IO-101	0835	80.76	
C	IO-102	0840	80.42	
C	COG-05	0755	94.80	
C	EMW-21UC	0618	88.71	
C	EMW-22LC	0815	84.22	
C	SB-08LC	0615	87.38	
C	GAC-03	0845	82.96	
C	GMW-01	0915	82.28	
C	GMW-02	0920	82.50	
C	GMW-09MC	0925	82.30	
C	GMW-13UC	0810	85.45	
C	GMW-14UC	1140	92.14	
C	GMW-15UC	1210	91.88	
C	GMW-16UC	1205	95.88	
C	GMW-17UC	1150	97.12	
C	GMW-18UC	1145	98.20	
C	GMW-19LC	1155	97.82	
C	GMW-20LC	1200	102.96	

Comments

Phoenix Goodyear Airport - SOUTH
Instrument Calibration Record

Date 9-4-13

Equipment Information

Make	Model #
Hach	2100P.24
YSI	556.04

Calibration Solution Information

Parameter	Exp. date	Lot #	Comments
ph 4.0	12-13	10089	
7.0	12-13	10094	
10.0	10-13	9957	
conductivity	12-13	10093	
ORP	8-14	073013	

Calibration Information

Temperature

Time 0515
Temperature 33.43 deg C/F

Time 1230
Temperature 33.65 deg C/F

pH

Time 0515		
std.	Units	Reading
4.0		4.0
7.0		7.0
10.0		9.99

Time 1230		
std.	Units	Reading
4.0		4.0
7.0		7.0
10.0		9.98

Turbidity

Time 0515		
std.	Units	Reading
62.7	NTU	62.4

Time 1230		
std.	Units	Reading
62.7	NTU	62.5

Conductivity

Time 0525		
std.	Units	Reading
1000	us/cm	1000

Time 1235		
std.	Units	Reading
1000	us/cm	1000

Dissolved Oxygen

Time 0532		
Barometric Pressure		
std.	Units	Reading
100	%	100

Time 1245		
Barometric Pressure		
std.	Units	Reading
100	%	100

~~Redox~~ ORP

Time 0528		
std.	Units	Reading
237.5	mV	237.5

Time 1240		
std.	Units	Reading
237.5	mV	237.5

Comments:

Phoenix Goodyear Airport Superfund Site
Monthly Sampling Form

Date 10-2-13
Technician NJ

Monthly Sample Data

Location	Sample Collection Time	Temperature	pH	Specific Conductivity	Turbidity	ORP	DO	Observations
		degrees C		ms/cm	NTU	mV	mg/L	
AST-Inf	1045	26.83	7.06	4247	1.20	303.4	3.54	
AST-Eff	1100	26.41	7.55	4213	114.0	252.9	3.97	
GAC-02Inf	0645	23.08	6.12	2336	7.05	140.1	4.50	
GAC-02Eff	0700	19.94	5.90	2178	1.39	36.6	2.11	
E-07R	1025	27.31	7.00	3731	2.68	157.1	2.81	
COG-20	0900	27.78	7.43	971	3.90	167.8	4.33	
COG-11	0910	28.36	7.72	1936	1.33	140.4	4.05	
E-12	1010	26.96	6.96	3930	12.8	157.6	3.15	
E-17	0710	23.10	6.56	4458	8.60	67.4	4.04	

Monthly Totalizer Readings

System	Totalizer	Comments
	Gallons	
GAC-02	51894	
GAC-03	35718	
E-101	420638	

Comments

Phoenix Goodyear Airport Superfund Site
Monthly Water Level Readings

Date 10-2-13
Technician MWK

Subunit	Well	Time	Depth to Water (Feet)	Notes
A	EMW-03	1003	73.47	
A	EMW-04	1005	DRY	
A	EMW-07R	1035	67.30	
A	EMW-08R	0715	72.83	
A	EMW-10R	0717	70.11	
A	GMW-03	0735	71.83	
A	GMW-04	0956	73.86	CODE 5600
A	GMW-05	1000	67.76	
A	GMW-06	0725	72.78	
A	GMW-07	—	DRY	
C	IO-101	0730	79.44	
C	IO-102	0732	78.99	
C	COG-05	0915	93.93	
C	EMW-21UC	0707	82.17	
C	EMW-22LC	0948	83.18	
C	SB-08LC	0705	85.75	
C	GAC-03	0745	81.42	
C	GMW-01	0737	80.68	
C	GMW-02	0739	80.92	
C	GMW-09MC	0741	80.73	
C	GMW-13UC	0808	84.90	
C	GMW-14UC	0810	91.00	
C	GMW-15UC	0822	90.41	
C	GMW-16UC	0824	94.64	
C	GMW-17UC	0816	96.01	
C	GMW-18UC	0814	97.35	
C	GMW-19LC	0818	96.60	
C	GMW-20LC	0820	101.50	

Comments

33
16

Phoenix Goodyear Airport - SOUTH
Instrument Calibration Record

Date 10-2-13

Equipment Information

Make	Model #
Hach	2100P.05
YSI	556.04

Calibration Solution Information

Parameter	Exp. date	Lot #	Comments
ph 4.0	12-13	10089	
7.0	12-13	10094	
10.0	10-13	9957	
conductivity	12-13	10093	
ORP	8-14	073013	

Calibration Information

Temperature

Time 0610
Temperature 26.21 deg C/F

Time 1115
Temperature 28.63 deg C/F

pH

Time 0610		
std.	Units	Reading
4.0		4.0
7.0		7.0
10.0		9.99

Time 1115		
std.	Units	Reading
4.0		4.0
7.0		7.0
10.0		9.98

Turbidity

Time 0610		
std.	Units	Reading
55.8	NTU	56.2

Time 1115		
std.	Units	Reading
55.8	NTU	56.1

Conductivity

Time 0620		
std.	Units	Reading
1000	us/cm	1000

Time 1120		
std.	Units	Reading
1000	us/cm	1000

Dissolved Oxygen

Time 0630		
Barometric Pressure		
std.	Units	Reading
100	%	100

Time 1130		
Barometric Pressure		
std.	Units	Reading
100	%	100

~~Redox~~ ORP

Time 0625		
std.	Units	Reading
231.0	mV	231.0

Time 1125		
std.	Units	Reading
231.0	mV	231.0

Comments:

Phoenix Goodyear Airport Superfund Site
Monthly Water Level Readings

Date 11-4-13
Technician MWK

Subunit	Well	Time	Depth to Water (Feet)	Notes
A	EMW-03	1020	73.73	
A	EMW-04	—	DRY	
A	EMW-07R	0950	67.35	
A	EMW-08R	0810	73.27	
A	EMW-10R	0815	70.80	
A	GMW-03	1115	72.10	
A	GMW-04	1034	74.33	CODE 5600
A	GMW-05	1030	67.97	
A	GMW-06	1053	73.02	
A	GMW-07	—	DRY	
C	IO-101	1110	76.22	
C	IO-102	1115	75.86	
C	COG-05	1400	90.42	
C	EMW-21UC	0735	85.31	
C	EMW-22LC	1040	79.62	
C	SB-08LC	0733	84.00	
C	GAC-03	0730	78.65	
C	GMW-01	1130	77.16	
C	GMW-02	1145	77.26	
C	GMW-09MC	1200	77.20	
C	GMW-13UC	0620	80.02	
C	GMW-14UC	0640	86.88	
C	GMW-15UC	1000	88.10	
C	GMW-16UC	0945	92.30	
C	GMW-17UC	0725	92.95	
C	GMW-18UC	0700	92.65	
C	GMW-19LC	0755	94.31	
C	GMW-20LC	0915	100.0	
	25	0900	101.60	
	26	0830	96.50	

Comments

Phoenix Goodyear Airport Superfund Site
Monthly Sampling Form

Date 11-5
Technician MWK

Monthly Sample Data

Location	Sample Collection Time	Temperature	pH	Specific Conductivity	Turbidity	ORP	DO	Observations
		degrees C		~~um~~s/cm	NTU	mV	mg/L	
AST-Inf	0625	24.2	6.89	3842	.21	233.2	3.86	
AST-Eff	0635	23.5	7.47	3745	28.8	71.9	4.33	
GAC-02Inf	0855	24.2	7.11	2225	1.69	36.3	2.84	
GAC-02Eff	0905	23.2	7.18	2258	9.79	44.7	3.51	
E-07R	0820	24.6	6.80	3286	3.55	4.9	4.61	
COG-20	1330	24.7	7.15	3443	.66	166.5	4.30	
COG-11	1345	24.1	7.07	2097	.89	157.9	3.15	
E-12	0810	24.4	6.70	3538	3.02	-30.4	2.98	
E-17	0840	25.2	6.78	4317	70.1	-15.8	3.51	

Monthly Totalizer Readings

System	Totalizer	Comments
	Gallons	
GAC-02	56705	
GAC-03	35858	
E-101	420654	

Comments

11-5

130

EMW-04 DRY

PGA-South Water Levels
4th Quarter 2013

Well	Subunit	Date	Time	Water Level Feb 2013	Water Level Nov 2013	GW Elevation	Comments
E-03	A	11-4	0940	63.3	58.00		
E-04	A		0921	51.02	56.74		
E-11	A		0926	59.68	64.58		
E-16	A		0723	80.4	80.12		
E-17	A		0804	78.38	90.71		
EMW-03	A		1020	70.94	73.73		
EMW-06	A		1015	66.81	70.43		
EMW-07R	A		0950	64.05	67.35		
EMW-08R *	A		0810	69.66	73.27		
EMW-09	A		0817	49.6	DRY		Bottom 49.8
EMW-10R *	A		0815	67.87	70.80		
EMW-11R *	A		1005	66.7	69.15		
EMW-12R *	A		0850	66.45	69.71		Civil air patrol hanger
EMW-13	A		0935	59.49	64.54		
EMW-14R *	A		0845	66.06	68.91		
EMW-15	A		0719	65.99	66.54		
EMW-16	A	11-4	0728	68.35	68.60		
EMW-29A	A	11-5	1405	76.94	79.63		
EO-01	A	11-4	0914	55.72	62.91		

PGA-South Water Levels
4th Quarter 2013

Well	Subunit	Date	Time	Water Level Feb 2013	Water Level Nov 2013	GW Elevation	Comments
EO-02	A	11-4	0911	57.1	63.30		
EO-03	A		0908	57.58	62.23		
EO-04	A		0902	57.95	61.00		
EO-05	A		0900	60.1	62.82		
EO-07	A		0955	69.15	71.66		
EO-12	A		—	67.12	DRY		
EO-17	A		0808	72.97	76.95		
EP-02R	A	11-4	0842	63.29	65.50		
GMW-03	A	11-5	1115	68.81	72.10		Cavco
GMW-04	A	11-4	1034	71.3	74.33		Code 5600
GMW-06	A		1053	70.1	73.02		Lockheed
GMW-24A	A		0924	52.74	59.18		Cavco
IO-01	A		0635	40.71	43.70		
IO-02	A		0638	34.65	35.70		
IO-04	A		0645	48.58	56.15		35ft from Van H toward Rusby / Obstruction at 35'
IO-05	A		0642	37.12	38.40		
IO-06	A		0652	55.26	62.98		
IO-07	A		0649	41.28	42.42		
IO-08	A		0657	58.44	66.56		

GMW-05
1030 67.97

PGA-South Water Levels
4th Quarter 2013

Well	Subunit	Date	Time	Water Level Feb 2013	Water Level Nov 2013	GW Elevation	Comments
IO-09	A	11-4	0659	50.26	54.70		
IO-10	A		0703	50.21	56.11		
IO-12	A		0705	42.77	44.20		
IO-13	A		0710	56.74	60.00		
IO-14	A	11-4	0630	38.06	39.82		
IO-16	A		0640	34.92	36.90		
IO-17	A		0654	53.8	60.82		
IO-18	A		0713	62.89	DRY		65' Bottom
NEW-01	A		0917	48.02	55.55		
NEW-03	A		0853	62.65	66.13		
NEW-04	A	11-4	0715		67.73		
NEW-09	A	11-5	1425	63.68	69.10		
COG-05	C	11-5	1400	83.7	90.42		Next to EMW29A (Call City_
E-201	C	11-4	0750	81.35	88.83		Enclosure in Field by Planes
EMW-02	C		1017	69.38	76.36		Still has pump
EMW-19LC	C		0858	62.75	70.13		pump still in Field by Tower
EMW-20LC	C		0726	70.23	77.77		
EMW-21UC	C		0735	77.68	85.31		
EMW-22LC	C		1040	71.94	79.62		

PGA-South Water Levels
4th Quarter 2013

Well	Subunit	Date	Time	Water Level Feb 2013	Water Level Nov 2013	GW Elevation	Comments
EMW-28LC	C	11-4	0835	63.83	71.22		Taxiway
EMW-28UC	C	11-4	0838	64.3	71.71		Taxiway
GAC-03	C	11-5	0730	72.88	78.65		Jeff
GMW-01	C	11-5	1130	72	77.16		Cavco
GMW-02	C	11-5	1145	71.73	77.26		Cavco
GMW-09MC	C	11-5	1200	71.4	77.20		Cavco
GMW-10LC	C	11-4	0823	75.18	69.90		
GMW-11LC	C	11-4	1010	63.65	71.07		
GMW-11UC	C	11-4	1012	63.72	71.12		
GMW-12LC	C	11-4	1000	68.98	76.26		stil has pump
GMW-13UC	C	11-5	0620	74.18	80.02		Church parking lot
GMW-14UC	C		0640	80.82	86.88		Cotton Field
GMW-15UC	C		1000	81.38	88.10		Cotton Field
GMW-16UC	C		0945	85.6	92.30		Cotton Field
GMW-17UC	C		0725	86.58	92.95		Cotton Field
GMW-18UC	C		0700	88.78	92.65		Cotton Field
GMW-19LC	C		0755	87.54	94.31		Cotton Field
GMW-20LC	C		0915	92.62	100.0		Cotton Field
GMW-21UC	C	11-4	0820	67.07	74.60		

5

PGA-South Water Levels
4th Quarter 2013

Well	Subunit	Date	Time	Water Level Feb 2013	Water Level Nov 2013	GW Elevation	Comments
GMW-22UC	C	11-4	1050	68.13	74.95		
GMW-23UC	C	11-4	1046	69.4	76.45		
GMW-25LC	C	11-5	0900	NM	101.60		
GMW-26LC	C	11-5	0830	NM	96.50		
I-101	C	11-4	1107	68.89	75.63		Lockheed / need flat bar
I-102	C		1112	66.18	71.45		Lockheed / need flat bar
I-201	C		0743	3.5	7.12		
I-202	C		0755	9.24	4.80		
I-203	C		0835	3.2	6.82		Infield green spring loaded
SB-06LC	C		0730	73.88	81.49		
SB-07LC	C		0746	75.34	82.96		
SB-08LC	C		0733	76.41	84.00		
SB-09LC	C		0744	78.12	85.72		
SB-10LC	C		0752	82.12	89.70		
SB-11LC	C		0830	65.4	72.72		
SB-12LC	C		0740	82.35	90.12		
SB-13LC	C		0758	82.5	90.18		

11-4
IO-101
1110 76.22
IO-102
1115 75.86

Pheonix Goodyear Airport South
Field Sampling Form

Date 11-5-13
Technician Sunny
Weather Mark

Project Number PGAS
Well ID 4th Qrtr Sampling

Equipment

	Water Level Meter	Water Quality Meter			#1	#2
Make						
Model						
Calibrated			Date/Time			

Full Purge Calculations
Well Diameter (Circle One)

	2"	4"	6"	Other _____
Volumes to purge	=.163 gal/ft	=.652 gal/ft	=1.47 gal/ft	

Elevation of Well (TOC) _____
Total Depth _____
- Depth to water _____
=Depth to water column _____
x volums to purge _____
Total Volume to Purge _____

Sampling Method and Pump Information (circle one)

2" Rediflo* Hydrosleeve Bailer Pump Hang Depth _____

Dedicated** Extraction Well

Purge Time Start _____
Purge Time End _____
Time Sample Collected _____

Sample Observations
Odor _____
Color _____

Filter _____
Unfiltered _____

	Time	Flow Rate (ml/min)	Volume Purged (gal)	Temperature deg F deg C (Circle One)	pH (su) (+/- 0.1)	Spec. Conductivity ms/cm s/cm (+/- 3 %)	Turbidity (ntu) (+ / - 10 % when > than 10 ntu)	ORP (mv) (+/- 10 mv)	DO (mg/l) (+/- 0.3 mg/l)	DTW	
T	0750			22.5	6.86	2568	109	131.7	3.71	E-101	Dup
	0800			24.2	6.99	2540	5.67	115.3	3.13	GAC-02	Dup
	0730			22.4	6.88	2327	8.59	115.2	3.37	GAC-03	MS/MSD
	1115			24.0	7.30	3067	.71	22.1	4.19	NE-02	MS/MSD
	1105			24.5	7.05	3450	1.50	81.5	3.59	NE-03	
	1055			25.1	6.87	3648	.85	144.3	4.03	NE-04	
T	1035						23.9			E-04	
T	1045						5.57			GMW-24A	
T	1025						39.8			NEW-01	Dup
T	0915			22.9	7.37	2040	534	87.8	4.61	E-201	

Observations:
Wellhead conditions Locked ( ) Plug or Cap in Place ( ) Well Lid Secure ( )
Comment _____

Samples Collected:

	Check	Qty	Vol	Preservative	Type
8260 Full List			40 ml	HCL	P G
8260 Halogenated Only			40 ml	HCL	P G
6010 B Total Chromium			250 ml	HNO3	P G

Other Samples
_____
_____

Sample sheets should be filled out completely
Any changes should have single line drawn through, initialed and dated

Pheonix Goodyear Airport South
Field Sampling Form

Date 11-6-13
Technician Mark
Weather Sunny

Project Number 4th Quarter
Well ID P6AS

Equipment

	Water Level Meter	Water Quality Meter		#1	#2
Make					
Model					
Calibrated			Date/Time		

Full Purge Calculations
Well Diameter (Circle One)

	2"	4"	6"	Other _____
Volumes to purge	=.163 gal/ft	=.652 gal/ft	=1.47 gal/ft	

Elevation of Well (TOC) _____
Total Depth _____
- Depth to water _____
=Depth to water column _____
x volums to purge _____
Total Volume to Purge _____

Sampling Method and Pump Information (circle one)

2" Rediflo* Hydrosleeve Bailer Pump Hang Depth _____
Dedicated** Extraction Well

Purge Time Start _____
Purge Time End _____
Time Sample Collected _____

Filter _____
Unfiltered _____

Sample Observations
Odor _____
Color _____

			Circle One	Stabilization Criteria 3 consecutive readings (acceptable to sample)					
				+/- 0.1	+/- 3 %	+ / - 10 % when > than 10 ntu	+/- 10 mv	+/- 0.3 mg/l	
Time	Flow Rate (ml/min)	Volume Purged (gal)	Temperature deg F deg C	pH (su)	Spec. Conductivity ms/cm s/cm	Turbidity (ntu)	ORP (mv)	DO (mg/l)	DTW
0755						12.2			6MW-19LC
0915						508.0		—	6MW-20LC
0900						12.2			6MW-25LC
0830						33.4			6MW-26LC

Observations:
Wellhead conditions Locked ( ) Plug or Cap in Place ( ) Well Lid Secure ( )
Comment _____

Samples Collected:

	Check	Qty	Vol	Preservative	Type
8260 Full List			40 ml	HCL	P G
8260 Halogenated Only			40 ml	HCL	P G
6010 B Total Chromium			250 ml	HNO3	P G

Other Samples
_____
_____

Sample sheets should be filled out completely
Any changes should have single line drawn through, initialed and dated

Pheonix Goodyear Airport South
Field Sampling Form

Date 11-6-13
Technician MWK
Weather Sunny

Project Number 4th Quarter
Well ID P6AS

Equipment

	Water Level Meter	Water Quality Meter		#1	#2
Make					
Model					
Calibrated			Date/Time		

Full Purge Calculations
Well Diameter (Circle One)

	2"	4"	6"	Other _____
Volumes to purge	=.163 gal/ft	=.652 gal/ft	=1.47 gal/ft	

Elevation of Well (TOC) _____
Total Depth _____
- Depth to water _____
=Depth to water column _____
x volums to purge _____
Total Volume to Purge _____

Sampling Method and Pump Information (circle one)

2" Rediflo* Hydrosleeve Bailer Pump Hang Depth _____
Dedicated** Extraction Well

Purge Time Start _____
Purge Time End _____
Time Sample Collected _____

Filter _____
Unfiltered _____

Sample Observations
Odor _____
Color _____

			Circle One	Stabilization Criteria 3 consecutive readings (acceptable to sample)					
				+/- 0.1	+/- 3 %	+ / - 10 % when > than 10 ntu	+/- 10 mv	+/- 0.3 mg/l	
Time	Flow Rate (ml/min)	Volume Purged (gal)	Temperature deg F deg C	pH (su)	Spec. Conductivity ms/cm s/cm	Turbidity (ntu)	ORP (mv)	DO (mg/l)	DTW
1130						3.83			6MW-01
1145						7.73			6MW-02
1200						139.0			6MW-09MC
1100						28.7			C06-05
1020			23.20	7.19	2206	1.64	138.5	3.72	E-102
0630						3.23			6MW-13MC
0645						95.2			6MW-14MC
1000						185.0			6MW-15MC
0945						47.80	47.80		6MW-16MC
0725						103.0			6MW-17MC
0700						5.35			6MW-18MC

Observations:
Wellhead conditions Locked ( ) Plug or Cap in Place ( ) Well Lid Secure ( )
Comment

Samples Collected:

	Check	Qty	Vol	Preservative	Type
8260 Full List			40 ml	HCL	P G
8260 Halogenated Only			40 ml	HCL	P G
6010 B Total Chromium			250 ml	HNO3	P G

Other Samples

Sample sheets should be filled out completely
Any changes should have single line drawn through, initialed and dated

Phoenix Goodyear Airport - SOUTH
Instrument Calibration Record

Date 11-4-13

Equipment Information

Make	Model #
Hach	2100 Q
YSI	proplus

Calibration Solution Information

Parameter	Exp. date	Lot #	Comments
ph 4.0	12-13	10089	
7.0	12-13	10094	
Conductivity	12-13	10093	
ORP	9-14	073013	

Calibration Information

Temperature

Time	0600		Time	1430	
Temperature	20.7	deg C/F	Temperature	21.3	deg C/F

pH

Time	0600	
std.	Units	Reading
4.0	ph	4.0
7.0		7.0
10.0		

Time	1430	
std.	Units	Reading
4.0	ph	4.0
7.0		7.0
10.0		

Turbidity

Time	0600	
std.	Units	Reading
10	NTU	9.89

Time	1430	
std.	Units	Reading
10	NTU	9.91

Conductivity

Time	0605	
std.	Units	Reading
1000	us/cm	1073

Time	1435	
std.	Units	Reading
1000	us/cm	1067

Dissolved Oxygen

Time	0615	
Barometric Pressure		
std.	Units	Reading
100	%	106.3

Time	1445	
Barometric Pressure		
std.	Units	Reading
100	%	105.2

~~Redox~~ orp

Time	0610	
std.	Units	Reading
237.5	MV	226.2

Time	1440	
std.	Units	Reading
237.5	MV	~~23~~7.9

227.9

Comments:

Phoenix Goodyear Airport Superfund Site
Monthly Water Level Readings

Date 12-2-13
Technician MWR

Subunit	Well	Time	Depth to Water (Feet)	Notes
A	EMW-03	0830	73.53	
A	EMW-04	—	DRY	
A	EMW-07R	1045	67.07	
A	EMW-08R	0745	73.05	
A	EMW-10R	0750	70.62	
A	GMW-03	0950	71.59	
A	GMW-04	0845	73.63	CODE 5600
A	GMW-05	0840	67.80	
A	GMW-06	1030	72.94	
A	GMW-07	—	DRY	
C	IO-101	1035	72.06	
C	IO-102	1040	71.79	
C	COG-05	1130	87.12	
C	EMW-21UC	0727	81.70	
C	EMW-22LC	0855	74.70	
C	SB-08LC	0725	80.71	
C	GAC-03	1020	74.12	
C	GMW-01	0955	73.93	
C	GMW-02	1000	74.24	
C	GMW-09MC	1005	74.17	
C	GMW-13UC	0905	77.08	
C	GMW-14UC	0910	83.83	
C	GMW-15UC	0940	84.64	
C	GMW-16UC	0935	88.61	
C	GMW-17UC	0920	89.55	
C	GMW-18UC	0915	91.03	
C	GMW-19LC	0925	90.61	
C	GMW-20LC	0930	95.94	

Comments

Phoenix Goodyear Airport Superfund Site
Monthly Sampling Form

Date 12-2-13
Technician Mark

Monthly Sample Data

Location	Sample Collection Time	Temperature	pH	Specific Conductivity	Turbidity	ORP	DO	Observations
		degrees C		us/cm	NTU	mV	mg/L	
AST-Inf	0630	22.2	6.89	3832	.43	235.8	3.70	
AST-Eff	0645	22.0	7.40	3681	30.4	49.4	4.36	
GAC-02Inf	0700	19.9	7.15	2100	22.3	55.3	3.23	
GAC-02Eff	0715	21.5	7.16	2292	.38	85.1	3.00	.38
E-07R	0810	22.4	6.83	3225	2.47	49.7	3.06	
COG-20	1100	23.9	7.02	3249	1.20	149.5	4.34	
COG-11	1115	23.7	7.48	1796	.54	133.1	3.70	
E-12	0755	23.1	6.76	3483	1.85	-5.2	3.05	
E-17	0735	21.8	6.80	4129	37.8	54.1	3.83	

Monthly Totalizer Readings

System	Totalizer	Comments
	Gallons	
GAC-02	58,766	
GAC-03	35,858	
E-101	420654	

Comments

33 VOA
1L BATES

Phoenix Goodyear Airport - SOUTH
Instrument Calibration Record

Date 12-2-13

Equipment Information

Make	Model #
Hach	2100Q
YSI	Pro plus

Calibration Solution Information

Parameter	Exp. date	Lot #	Comments
pH 4.0	12-13	10089	
7.0	12-13	10094	
10.0	12-13	9957	
conductivity	12-13	10093	
ORP	8-14	073013	

Calibration Information

Temperature

Time 0548
Temperature 20.2 deg C/F

Time 1200
Temperature 20.5 deg C/F

pH

Time 0548		
std.	Units	Reading
4.0		4.04
7.0		6.96
10.0		9.96

Time 1200		
std.	Units	Reading
4.0		4.02
7.0		7.00
10.0		9.98

Turbidity

Time 0548		
std.	Units	Reading
10.0	NTU	10.1

Time 1200		
std.	Units	Reading
10.0	NTU	9.9

Conductivity

Time 0600		
std.	Units	Reading
1000	us/cm	1018

Time 1215		
std.	Units	Reading
1000	us/cm	1012

Dissolved Oxygen

Time 0610		
Barometric Pressure		
std.	Units	Reading
100	%	100

Time 1225		
Barometric Pressure		
std.	Units	Reading
100	%	100

~~Redox~~ ORP

Time 0605		
std.	Units	Reading
237.1	mV	236.7

Time 1220		
std.	Units	Reading
237.1	mV	236.5

Comments:

APPENDIX C

Historical Analytical and Water Level Data

(provided on CD in Hard Copy Report)

Draft

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
AST-EFF	2/7/1990						<0.2	1.9			<0.2	<0.2		2564
AST-EFF	2/15/1990		23.3	3600			< 1	< 1		1	< 1	< 1		2622
AST-EFF	2/20/1990	6.96	22	6330		4210	< 1	< 1		< 1	< 1	< 1		2653
AST-EFF	5/23/1990			5630		3700	<0.2	<0.2		3.1	<0.2	<0.2		5760
AST-EFF	6/20/1990	7.86	27.1	5560		3750	<0.2	<0.2		2.5	<0.2	<0.2		6772
AST-EFF	7/18/1990	7.86	27.1	5660		3780	<0.2	<0.2		2.6	<0.2	<0.2		7728
AST-EFF	8/17/1990	7.81	27.6	5600		3740	<0.2	<0.2		2.8	<0.2	<0.2		8664
AST-EFF	9/23/1990	7.79	26.6	5610		3740	<0.2	<0.2		0.8	<0.2	<0.2		9768
AST-EFF	10/18/1990	7.92	25.2	5500		3670	< 1	< 1		< 1	< 1	< 1		10721
AST-EFF	11/25/1990	7.73	20.1	5280		3520	<0.2	<0.2		1.8	<0.2	<0.2		11779
AST-EFF	12/18/1990	7.54	20.1	5280		3520	<0.2	<0.2		1.5	<0.2	<0.2		12764
AST-EFF	1/23/1991	7.59	21.5	5200		3470	<0.2	<0.2		1.8	<0.2	<0.2		101748
AST-EFF	2/17/1991	7.54	23.8	5160		3440	<0.2	<0.2		1.7	<0.2	<0.2		102699
AST-EFF	3/17/1991	7.55	21.8	5210		3480	<0.2	<0.2		1.2	<0.2	<0.2		103798
AST-EFF	4/22/1991	7.44	24.8	5240		3490	<0.2	<0.2		1.1	<0.2	<0.2		104816
AST-EFF	5/22/1991	7.33	26.2	5280		3530	<0.2	<0.2		1.8	<0.2	<0.2		105819
AST-EFF	6/19/1991	7.7	25.9	5220		3500	<0.2	<0.2		1.7	<0.2	<0.2		107817
AST-EFF	7/12/1991						<0.2	<0.2		1.7	<0.2	<0.2		107690
AST-EFF	7/21/1991	8.15	26.2	5180		3450	<0.2	<0.2		1.2	<0.2	<0.2		107817
AST-EFF	8/18/1991	8.16	26.5	5190		3460	<0.2	<0.2		1.9	<0.2	<0.2		108745
AST-EFF	9/22/1991	7.79	26.8	5160		3450	<0.2	<0.2		1	<0.2	<0.2		109886
AST-EFF	1/19/1992	7.78	22.6	4250		2840	<0.2	<0.2		0.9	<0.2	<0.2		201734
AST-EFF	3/30/1992	7.33	25.2	0		0	<0.2	<0.2		2.5	<0.2	<0.2		203992
AST-EFF	5/15/1992						<0.2	<0.2		4.6	<0.2	<0.2		205840
AST-EFF	5/27/1992	7.34	26.7				<0.2	<0.2		2.4	<0.2	<0.2		205028
AST-EFF	6/19/1992						<0.2	<0.2		2.4	<0.2	<0.2		206900
AST-EFF	7/13/1992	7.02	25.8	4650		3080	<0.2	<0.2		1.8	<0.2	<0.2		207683
AST-EFF	7/22/1992						<0.2	<0.2		2.4	<0.2	<0.2		207854
AST-EFF	8/20/1992	7.6	26				<0.2	<0.2		2.3	<0.2	<0.2		208894
AST-EFF	9/22/1992	6.96	25				<0.2	<0.2		2.6	<0.2	<0.2		209800
AST-EFF	10/2/1992	7.08	25.2	4800		3210	<0.2	<0.2		1.2	<0.2	<0.2		210533
AST-EFF	11/10/1992						<0.2	<0.2		4.4	<0.2	<0.2		211653
AST-EFF	11/17/1992	7.15					<0.2	<0.2		3.9	<0.2	<0.2		211769
AST-EFF	11/24/1992						0.2	<0.2		4.6	<0.2	<0.2		211897
AST-EFF	12/1/1992						<0.2	<0.2		4	<0.2	<0.2		212515
AST-EFF	12/9/1992	7.16	23.3	4400		2930	<0.2	0.4		3.1	<0.2	<0.2		212687
AST-EFF	12/10/1992												0.034	212726
AST-EFF	1/30/1993	7.25	22.6	3620		2450	<0.2	<0.2		3.6	<0.2	<0.2		30251002
AST-EFF	2/22/1993						<0.2	<0.2		2.6	<0.2	<0.2		30281502
AST-EFF	3/15/1993	7.6	24.2	3930		2630	<0.2	<0.2		4	<0.2	<0.2		30377307
AST-EFF	4/14/1993	7.57	24.9	4290		2860							0.034	304731
AST-EFF	5/14/1993	6.98	26	4490		3000							0.038	305743
AST-EFF	6/23/1993		26				< 1	< 1		4.1	< 1	< 1		30694802
AST-EFF	6/24/1993		25.8				<0.2	<0.2		4.1	<0.2	<0.2		30697002
AST-EFF	6/25/1993	6.97	27	4300		1550	<0.2	<0.2		3.4	<0.2	<0.2		30600902
AST-EFF	7/12/1993						<0.2	<0.2		2.6	<0.2	<0.2		30765202
AST-EFF	7/13/1993	7.22	26.3	4380		2920	<0.2	<0.2		3.8	<0.2	<0.2		30768402
AST-EFF	8/18/1993	7.34	26.7	3960		2660							0.042	308791
AST-EFF	8/30/1993	7.35	26	4420		2880	<0.2	<0.2		4.5	<0.2	<0.2		30801902
AST-EFF	9/13/1993	7.56	26.4	4500		2830	<0.2	<0.2		3.8	<0.2	<0.2		30968402
AST-EFF	9/21/1993	7.52	26.7	5010		3400	<0.2	<0.2		3	<0.2	<0.2		30987802
AST-EFF	10/8/1993	7.3	26.1	5420		3620	<0.2	<0.2		2	<0.2	<0.2		31070927
AST-EFF	10/13/1993	7.55	26	5430		3640	<0.2	<0.2		1.7	<0.2	<0.2		31074107
AST-EFF	10/14/1993	7.55	26	5430		3640	<0.2	<0.2		1.9	<0.2	<0.2		31076002
AST-EFF	10/15/1993	7.6	26.2				<0.2	<0.2		3	<0.2	<0.2		31081402
AST-EFF	10/18/1993	7.63	25	4610		3310	<0.2	<0.2		1.9	<0.2	<0.2		31092916
AST-EFF	11/4/1993	7.51	24.9	4030			<0.2	<0.2		2.9	<0.2	<0.2		31164106
AST-EFF	11/9/1993	7.53	24.4	4220			<0.2	<0.2		0.7	<0.2	<0.2		31175602
AST-EFF	11/10/1993	7.49	24.8	4450		2980	<0.2	<0.2		3	<0.2	<0.2		31175604
AST-EFF	11/19/1993	7.69	24.5	4020			<0.2	<0.2		2	<0.2	<0.2		31198204
AST-EFF	12/1/1993	7.58	24.5	4310		2870	<0.2	<0.2		1.8	<0.2	<0.2		31253004
AST-EFF	12/10/1993	7.77	23.6	4430		2940	<0.2	<0.2		2.6	<0.2	<0.2	0.045	31285602
AST-EFF	12/20/1993	7.71	22.9	4300		2860	<0.2	<0.2		3.4	<0.2	<0.2		31207913
AST-EFF	1/6/1994	7.1	21.9	4290		2860	<0.2	<0.2		3.9	<0.2	<0.2		40158608
AST-EFF	1/21/1994	7.03	24.5	4160		2780	<0.2	<0.2		3.6	<0.2	<0.2		40192005
AST-EFF	2/9/1994		22.6	4230		2830	<0.2	<0.2		1.7	<0.2	<0.2	0.049	40273602
AST-EFF	2/15/1994	7.53	23.7	5130			<0.2	<0.2		3.8	<0.2	<0.2		40285103
AST-EFF	2/23/1994	7.86	21.7	4260		2840	<0.2	<0.2		1.9	<0.2	<0.2		40204703
AST-EFF	3/1/1994	7.49	24.9	4360		2910	<0.2	<0.2		2.3	<0.2	<0.2		40351711
AST-EFF	3/8/1994	7.52	24.6	4290		2860	<0.2	<0.2		2.1	<0.2	<0.2		40378313
AST-EFF	3/15/1994	7.63	25.3	4320		2860	<0.2	<0.2		1.6	<0.2	<0.2		40385502

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
AST-EFF	3/22/1994	7.79	25.4	4280		2850	<0.2	<0.2		2.2	<0.2	<0.2		40308702
AST-EFF	3/29/1994	7.61	25.6	4190		2800	<0.2	<0.2		2.7	<0.2	<0.2		40452605
AST-EFF	4/5/1994						<0.2	<0.2		2.4	<0.2	<0.2		40467402
AST-EFF	4/12/1994						<0.2	<0.2		2.6	<0.2	<0.2		40475009
AST-EFF	4/19/1994	7.58	26	4140		2760	<0.2	<0.2		2.8	<0.2	<0.2	0.04	40494809
AST-EFF	4/26/1994	7.56	25.1	4080		2720	<0.2	<0.2		3.3	<0.2	<0.2		40411002
AST-EFF	5/3/1994	7.59	28.8	3850		2560	<0.2	<0.2		3.3	<0.2	<0.2		40565802
AST-EFF	5/11/1994	7.66	24.7	4530			<0.2	<0.2		2.3	<0.2	<0.2		40574402
AST-EFF	5/13/1994												0.042	40587512
AST-EFF	5/18/1994	7.64	24.8	4150		2770	<0.2	<0.2		1.4	<0.2	<0.2		40596902
AST-EFF	5/24/1994	7.56	25.6	4150		2760	<0.2	<0.2		1	<0.2	<0.2		40511001
AST-EFF	5/31/1994	7.29	27	4190		2720	<0.2	<0.2		2.8	<0.2	<0.2		40657502
AST-EFF	6/7/1994	7.47	26.5	4080		2720	<0.2	<0.2		1	<0.2	<0.2		40667308
AST-EFF	6/16/1994	7.15	25.5	4080		2720	<0.2	<0.5		2.8	<0.2	<0.2		40684419
AST-EFF	6/28/1994	7.58	26.3	4070		2720	<0.2	<0.5		2.6	<0.2	<0.2		40752202
AST-EFF	7/5/1994	7.5	27.3	3920		2590	<0.2	<0.2		2.6	<0.2	<0.2		40760502
AST-EFF	7/12/1994	7.78	27.8	3990		2660	<0.2	<0.5		1.9	<0.2	<0.2		40776001
AST-EFF	7/19/1994	7.54	26.5	3700		2470	<0.2	<0.2		3.2	<0.2	<0.2		40786502
AST-EFF	7/26/1994	7.26	26.5	3670		2390	<0.2	<0.2		2.7	<0.2	<0.2		40706202
AST-EFF	8/2/1994	7.39	26.3	3370		2250	<0.2	<0.2		3.1	<0.2	<0.2		40863002
AST-EFF	8/3/1994												0.045	408559
AST-EFF	8/9/1994	7.32	27	3530		2360	<0.2	<0.2		2.4	<0.2	<0.2		40879402
AST-EFF	8/16/1994	7.28	26.3	3450		2300	<0.2	<0.2		1.4	<0.2	<0.2		40893302
AST-EFF	8/30/1994	7.06	26.5	3580		2420	<0.2	<0.2		2.5	<0.2	<0.2		40810702
AST-EFF	9/14/1994	7.62	25.4	2910			<0.2	< 1		0.6	<0.2	<0.5		40938602
AST-EFF	9/27/1994	7.76	80	4500		3000	<0.2	< 1		2.4	<0.2	<0.5		40992213
AST-EFF	10/7/1994	7.26	25.5	2790			<0.2	<0.2		1.5	<0.2	<0.2		41059803
AST-EFF	10/26/1994	7.44	25.4	2630			<0.2	<0.2		1.5	<0.2	<0.2		9410015551
AST-EFF	11/1/1994	7.76	24.5	2570			<0.2	<0.2		1.5	<0.2	<0.2		9410016582
AST-EFF	11/14/1994	7.86	24.3	2550		2480	<0.2	<0.2		1.5	<0.2	<0.2		9411019132
AST-EFF	12/12/1994	7.19	12.2	3910		2620	<0.2	<0.2		1.7	<0.2	<0.2		9412023861
AST-EFF	12/21/1994												0.031	9412026717
AST-EFF	12/28/1994	7	25.3	3990		3160	<0.2	<0.2		5	<0.2	<0.2		9412027071
AST-EFF	1/6/1995	7.01	24.4	3950		2660	<0.2	<0.2		2.3	<0.2	<0.2		9501028651
AST-EFF	1/17/1995	7.5	25.1	3850		3990	<0.2	<0.2		1.6	<0.2	<0.2		9501030602
AST-EFF	2/7/1995	7.75	24.2	4000		2780	<0.2	<0.2		1.7	<0.2	<0.2		9502034711
AST-EFF	2/21/1995	7.67	25.2	3990		2720	< 1	< 1		< 1	< 1	< 1		9502-03777-2
AST-EFF	3/7/1995	7.41	25.5	4140		2180	< 1	< 1		1.69	< 1	< 1		9503-4139-2
AST-EFF	3/23/1995	7.16	25.4	4300		2880	< 1	< 1		1.6	< 1	< 1		9503-4380-17
AST-EFF	4/4/1995	7.54	25.4	4160		2780	< 1	< 1		1.6	< 1	< 1		9504-4674-2
AST-EFF	5/3/1995	7.55	25.6	4130		2770	< 1	< 1		1.6	< 1	< 1		9505-5187-2
AST-EFF	6/14/1995	7.7	26.3	3960		2640	< 1	< 1		1.5	< 1	< 1		9506-05930-10
AST-EFF	7/7/1995	7.42	26.3	4140		2760	< 1	< 1		1.6	< 1	< 1		9507-06296-2
AST-EFF	8/11/1995	7.41	27.5	4090		2730	< 1	< 1		1.4	< 1	< 1		9508-06941-9
AST-EFF	9/8/1995	7.32	27.4	3860		2630	< 1	< 1		1.7	< 1	< 1		9509-07402-2
AST-EFF	10/5/1995	7.22	25.5	3980		2660	< 1	< 1		1.3	< 1	< 1		9510-07900-2
AST-EFF	11/14/1995	7.56	25.7	3800		2540	< 1	< 1		< 1	< 1	< 1		9511-08545-7
AST-EFF	12/26/1995	7.6	24.4	4360		3070	< 1	< 1		1.8	< 1	< 1		9512-09221-2
AST-EFF	1/16/1996	7.52	24.9	4210		2810	< 1	< 1		< 1	< 1	< 1		9601-00275-6
AST-EFF	2/9/1996	7.5	26.1	3910		0	< 1	< 1		1.2	< 1	< 1		9602-00661-6
AST-EFF	3/8/1996	7.59	24.8	4120		2740	< 1	< 1		< 1	< 1	< 1		9603-01159-2
AST-EFF	4/9/1996	7.94	24.5	3790		2580	< 1	< 1		1	< 1	< 1		9604-01764-2
AST-EFF	5/14/1996	7.46	25.8	3770		2520	< 1	< 1		2.4	< 1	< 1		9605-02432-4
AST-EFF	6/6/1996	7.35	27.3	3550		2360	< 1	< 1		< 1	< 1	< 1		9606-02833-4
AST-EFF	6/6/1996						<0.5		<0.5	0.77	<0.5			DelMar
AST-EFF	7/15/1996	7.63	26.9	3950		4010	< 1	< 1		< 1	< 1	< 1		9607-03554-2
AST-EFF	8/16/1996	7.6	27.8	3770		2520	< 1	< 1		< 1	< 1	< 1		9608-04199-1
AST-EFF	9/9/1996	7.21	27.6	3750		2570	< 1	< 1		< 1	< 1	< 1		9609-04599-3
AST-EFF	10/4/1996	7.51	26.5	3810		2540	< 1	< 1		< 1	< 1	< 1		9610-05144-1
AST-EFF	11/4/1996	7.25	24.7	3820		2550	< 1	< 1		< 1	< 1	< 1		9611-05675-1
AST-EFF	12/10/1996	7.18	25.2	2520		3770	< 1	< 1		< 1	< 1	< 1		9612-06480-3
AST-EFF	1/9/1997	7.57	24	3840		2920	< 1	< 1		< 1	< 1	< 1		9701-00271-1
AST-EFF	2/10/1997	7.6	24.2	3800		0	< 1	< 1		< 1	< 1	< 1	0.037	9702-00937-1
AST-EFF	3/6/1997	7.45	25.3	2620		1760	< 1	< 1		< 1	< 1	< 1	0.028	9703-01479-1
AST-EFF	4/7/1997	7.13	26.6	2560		1710	< 1	< 1		< 1	< 1	< 1		9704-02127-1
AST-EFF	5/8/1997												0.042	9705-02889-2
AST-EFF	5/9/1997	7.38	26.7	2500		1660	< 1	< 1		< 1	< 1	< 1		9705-02889-1
AST-EFF	6/10/1997	7.32	27.3	2420		1600	< 1	< 1		< 1	< 1	< 1		9706-03639-11
AST-EFF	7/7/1997	7.32	28.4	2520		1680	< 1	< 1		< 1	< 1	< 1		9707-04237-2
AST-EFF	8/8/1997	7.34	27.9	2480		1650	< 1	< 1		1.2	< 1	< 1		9708-05140-3
AST-EFF	10/9/1997	7.36	25.2	2570		1720	< 1	< 1		< 1	< 1	< 1		9710-06571-1

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
AST-EFF	10/21/1997												0.043	9710-06823-8
AST-EFF	11/6/1997	7.39	25.3	2550		1700	< 1	< 1		< 1	< 1	< 1		9711-07207-1
AST-EFF	12/9/1997	7.53	23.8	2600		1740	< 1	< 1		< 1	< 1	< 1		9712-07967-1
AST-EFF	1/12/1998	7.35	23.8	2530		1700	< 1	< 1		< 1	< 1	< 1	0.057	9801-00254-3
AST-EFF	1/21/1998	7.47	24.2	2600		1740	< 1	< 1		< 1	< 1	< 1		9801-00564-1
AST-EFF	2/12/1998	7.54	24.9	2530		1700	< 1	< 1		< 1	< 1	< 1		9802-01069-1
AST-EFF	3/10/1998	7.53	25.9	2580		1720	< 1	< 1		< 1	< 1	< 1		9803-01614-1
AST-EFF	4/10/1998	7.29	26.3	2460		1640	< 1	< 1		< 1	< 1	< 1	0.057	9804-02474-1
AST-EFF	5/6/1998	7.53	25.5	2610		1740	< 1	< 1		< 1	< 1	< 1		9805-03152-1
AST-EFF	6/10/1998	7.44		2560		1710	< 1	< 1			< 1	< 1		9806-03991-1
AST-EFF	7/30/1998	7.45	27.3	2550		1680	< 1	< 1		1.1	< 1	< 1		9807-05285-1
AST-EFF	8/11/1998	7.39	27.6	2580		1730	< 1	< 1		1.2	< 1	< 1	0.063	9808-05612-2
AST-EFF	9/12/1998	0.42	27.2	2550		1710	< 1	< 1		< 1	< 1	< 1		9809-06400-5
AST-EFF	10/10/1998	7.42	26.4	2530		1690	< 1	< 1		< 1	< 1	< 1	0.041	9810-07135-1
AST-EFF	11/3/1998	7.45	26.6	2520		1680	< 1	< 1		1.4	< 1	< 1		9811-07908-1
AST-EFF	11/10/1998	7.43	26.5	2520		1680	< 1	< 1		1.2	< 1	< 1		9811-08185-1
AST-EFF	11/17/1998												0.047	9811-08434-001
AST-EFF	12/10/1998	7.56	7.56	2590		1730	< 1	< 1		< 1	< 1	< 1	0.055	9812-09040-001
AST-EFF	1/7/1999	7.45	24	2600		1740	< 1	< 1		< 1	< 1	< 1	0.051	9901-00233-01
AST-EFF	2/11/1999	7.36	24.1	2570		1720	< 1	< 1		< 1	< 1	< 1	0.038	9902-01433-01
AST-EFF	3/10/1999	7.35	24	2630		1760	< 1	< 1		2.3	< 1	< 1	0.049	9903-02392-001
AST-EFF	4/9/1999	7.42	24.8	2510		1680	< 1	< 1		3.3	< 1	< 1	0.064	9904-03361-05
AST-EFF	5/10/1999	7.31	26.9	2560		1710	< 1	< 1		2.6	< 1	< 1	0.049	9905-04269-05
AST-EFF	6/9/1999	7.38	26.9	2600		1740	< 1	< 1		1.1	< 1	< 1	0.055	9906-05238-01
AST-EFF	7/12/1999	7.4	27.1	2570		1720	< 1	< 1		< 1	< 1	< 1	0.045	9907-06192-001
AST-EFF	8/10/1999	7.3	27	2570		1720	< 1	< 1		< 1	< 1	< 1	0.033	9908-07278-001
AST-EFF	9/13/1999	7.46	26.8	2530		1690	< 1	< 1		< 1	< 1	< 1	0.055	9909-08258-001
AST-EFF	10/8/1999	7.45	26.4	2580		1730	< 1	< 1		< 1	< 1	< 1	0.019	9910-09178-001
AST-EFF	11/10/1999	7.44	25.2	2460		1620	< 1	< 1		< 1	< 1	< 1	0.075	9911-10331-004
AST-EFF	12/8/1999	7.46	24.6	2550		1700	< 1	< 1		1.2	< 1	< 1	0.069	9912-11043-006
AST-EFF	1/10/2000	7.38	24.2	2570		1720	< 1	< 1		< 1	< 1	< 1	0.065	0001-00301-001
AST-EFF	2/8/2000	7.43	24.3	2460		1650	< 1	< 1		< 1	< 1	< 1	0.058	0002-01344-001
AST-EFF	3/7/2000	7.33	24.1	2480		1660	< 1	< 1		< 1	< 1	< 1	0.063	0003-2088-001
AST-EFF	4/11/2000	7.45	26.2	2620		1750	< 2	< 2		< 2	< 2	< 2	0.066	0004-03322-001
AST-EFF	5/10/2000	7.36	27.7	2640		1710	1.5	< 1		< 1	< 1	< 1	0.064	0005-04330-003
AST-EFF	6/9/2000	7.4	26.6	2640		1770	< 1	< 1		< 1	< 1	< 1	0.06	0006-05131-006
AST-EFF	7/10/2000	7.33	26.5	2580		1730	< 1	< 1		< 1	< 1	< 1	0.086	0007-05952-001
AST-EFF	8/11/2000	7.39	28.1	2600		1740	< 1	< 1		< 1	< 1	< 1	0.057	0008-07186-002
AST-EFF	9/11/2000	7.41	28	2570		1710	< 1	< 1		< 1	< 1	< 1	0.069	0009-07995-001
AST-EFF	10/10/2000	7.4	27.8	2540		1700	< 1	< 1		< 1	< 1	< 1	0.068	0010-08886-001
AST-EFF	11/15/2000	7.47	23.4	2590		1730	< 1	< 1		< 1	< 1	< 1	0.083	0011-09900-001
AST-EFF	12/8/2000	7.36	25.8	2580		1720	< 1	< 1		< 1	< 1	< 1	0.052	0012-10488-001*
AST-EFF	1/9/2001	7.37	24.4	2610		1740	< 1	< 1		< 1	< 1	< 1	0.055	0101-00226-005
AST-EFF	2/15/2001	7.36	24.5	2550		1700	< 1	< 1		< 1	< 1	< 1	0.071	0102-01213-001
AST-EFF	3/13/2001	7.5	25.5	2570		1720	< 1	< 1		< 1	< 1	< 1	0.062	0103-01881-001
AST-EFF	4/10/2001	7.58	24.5	2590		1740	< 1	< 1		< 1	< 1	< 1	0.063	0104-02624-001
AST-EFF	5/9/2001	7.7	26.2	2560		1720	< 1	< 1		1.2	< 1	< 1	0.086	0105-03408-002
AST-EFF	6/7/2001	7.4	27.8	2490		1660	< 1	< 1		< 1	< 1	< 1	0.06	0106-04180-003
AST-EFF	6/18/2001												0.06	0106-04427-009
AST-EFF	6/25/2001												0.072	0106-04615-010
AST-EFF	7/2/2001												0.079	0107-04779-010
AST-EFF	7/10/2001	7.44	27.8	2430		1620	< 1	< 1		< 1	< 1	< 1	0.069	0107-04949-003
AST-EFF	7/13/2001												0.071	0107-05115-011
AST-EFF	8/9/2001												0.089	0108-05808-011
AST-EFF	8/10/2001	7.51	27.7	2540		1700	< 1	< 1		< 1	< 1	< 1	0.088	0108-05840-001
AST-EFF	9/10/2001	7.4	27.5	2510		1680	< 1	< 1		< 1	< 1	< 1	0.088	0109-06717-006
AST-EFF	10/11/2001	7.38	27.5	2450		1640	< 1	< 1		< 1	< 1	< 1	0.079	0110-07730-001
AST-EFF	10/12/2001												0.079	0110-07753-011
AST-EFF	11/12/2001	7.57	27.1	2520		1700	< 1	< 1		< 1	< 1	< 1	0.075	0111-08678-002
AST-EFF	12/14/2001	7.45	23.2	2530		1690	< 1	< 1		< 1	< 1	< 1	0.067	0112-09595-002
AST-EFF	1/14/2002	7.6	24.3	2560		1710	< 1	< 1		< 1	< 1	< 1	0.07	0201-00427-006
AST-EFF	2/12/2002	7.46	24.8	2450		1640	< 1	< 1		< 1	< 1	< 1	0.053	0202-01294-002
AST-EFF	3/13/2002	7.37	26	2450		1620	< 1	< 1		< 1	< 1	< 1	0.059	0203-02102-004
AST-EFF	3/19/2002												0.067	0203-0258-001
AST-EFF	4/11/2002												0.102	0204-03063-006
AST-EFF	4/16/2002	7.45	26.9	2430		1619	< 1	< 1		< 1	< 1	< 1		0204-03128-001
AST-EFF	5/9/2002	7.53	26.8	2360		1580	< 1	< 1		< 1	< 1	< 1	0.065	0205-03823-006
AST-EFF	6/14/2002	7.35	29.6	2310		1520	< 1	< 1		< 1	< 1	< 1	0.083	0206-04956-004
AST-EFF	7/16/2002	7.33	27.5	2280		1520	< 1	< 1		< 1	< 1	< 1	0.081	0207-05904-001
AST-EFF	8/14/2002	7.6	27.5	2290		1530	< 1	< 1		< 1	< 1	< 1	0.065	0208-06905-004
AST-EFF	9/10/2002	7.38	27.5	2290		1520	< 1	< 1		< 1	< 1	< 1	0.088	0209-07587-006

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
AST-EFF	10/7/2002												0.086	0210-08395-011
AST-EFF	10/11/2002	7.37	27.1	2320		1550	< 1	< 1		1.4	< 1	< 1		0210-08611-006
AST-EFF	11/6/2002	7.45	27.5	2290		1530	< 1	< 1		< 1	< 1	< 1	0.087	0211-09350-001
AST-EFF	12/12/2002	7.43	25.6	2370		1580	< 1	< 1		< 1	< 1	< 1	0.073	0212-10571-007
AST-EFF	1/14/2003	7.45	25.8	2320		1550	< 1	< 1		< 1	< 1	< 1	0.089	0301-00459-003
AST-EFF	2/18/2003	7.42	24.8	2310		1540	< 1	< 1		< 1	< 1	< 1	0.082	0302-01525-001
AST-EFF	3/13/2003	7.45	27.1	2270		1520	< 1	< 1	< 1	< 1	< 1	< 1	0.069	030302316003
AST-EFF	4/11/2003	7.43	26.6	2260		1510	< 1	< 1	< 1	< 1	< 1	< 1	0.068	030403290006
AST-EFF	5/15/2003	7.32	27.5	2370		1580	< 1	< 1	< 1	< 1	< 1	< 1	0.079	030504425006
AST-EFF	6/16/2003	7.6	26.8	2300		1540	< 1	< 1	< 1	< 1	< 1	< 1	0.08	030605492004
AST-EFF	7/10/2003	7.36	27.4	2320		1550	< 1	< 1	< 1	< 1	< 1	< 1	0.075	030706280006
AST-EFF	8/15/2003	7.57	30.8	2140		1420	< 1	< 1	< 1	< 1	< 1	< 1	0.101	030807651006
AST-EFF	9/11/2003	7.6	27.6	2310		1540	< 1	< 1	< 1	< 1	< 1	< 1	0.098	030908692001
AST-EFF	10/16/2003	7.4	29	2230		1490	< 1	< 1	< 1	< 1	< 1	< 1	0.044	031009963008
AST-EFF	11/14/2003	7.58	25.4	2330		1560	< 1	< 1	< 1	< 1	< 1	< 1	0.073	031111068006
AST-EFF	12/12/2003	7.55	23.2	2330		1560	< 1	< 1	< 1	1.1	< 1	< 1	0.078	031212173001
AST-EFF	1/16/2004	7.62	23.8	2330		1560	< 1	< 1	< 1	< 1	< 1	< 1	0.072	040100605006
AST-EFF	2/12/2004	7.49	23.5	2330		1560	< 1	< 1	< 1	< 1	< 1	< 1	0.07	040201599006
AST-EFF	3/11/2004	6.98	27.3	2300		1540							0.068	040302734005
AST-EFF	4/20/2004	7.63	23.5	2220		1480	< 1	< 1	< 1	< 1	< 1	< 1	0.05	040404233008
AST-EFF	5/18/2004	7.64	29.7	2180		1430	< 1	< 1	< 1	< 1	< 1	< 1	0.069	040505500003
AST-EFF	7/23/2004	7.45	27.8	1440		2170	< 1	< 1	< 1	< 1	< 1	< 1	0.023	040708258003
AST-EFF	8/17/2004	7.6	28.5	2350		1570	< 5	< 2	< 2	< 2	< 2	< 2	0.05	040809425003
AST-EFF	9/17/2004	7.45	26.7	2120		1400	< 1	< 1	< 1	0.71	< 1	< 1	0.069	040910776009
AST-EFF	10/14/2004	7.29	25.5	2360		1580	< 1	< 1	< 1	< 1	< 1	< 1	0.083	04101076-05D
AST-EFF	11/11/2004	7.08	24.3	2320		1550	< 1	< 1	< 1	< 1	< 1	< 1	0.073	04110939-06D
AST-EFF	12/10/2004	7.18	24	2330		1560	< 1	< 1	< 1	< 1	< 1	< 1	0.071	04120925-01D
AST-EFF	1/13/2005	7.21	23.7	2380		1600	< 1	< 1	< 1	1.1	< 1	< 1	0.099	05011033-17D
AST-EFF	2/10/2005	7.36	23.1	2380		1590	< 1	< 1	< 1	< 1	< 1	< 1	0.082	05021023-07D
AST-EFF	3/11/2005	7.35	23.7	2310		1540	< 1	< 1	< 1	< 1	< 1	< 1	0.084	05031045-05D
AST-EFF	4/13/2005	7.38	23.7	2280		1530	< 1	< 1	< 1	< 1	< 1	< 1	0.089	05041031-16D
AST-EFF	5/11/2005	7.52	27.8	2180		1450	< 1	< 1	< 1	< 1	< 1	< 1	0.076	05050902-07D
AST-EFF	6/10/2005	7.5	27.3	2320		1550	< 1	< 1	< 1	< 1	< 1	< 1	0.064	05060846-25D
AST-EFF	7/13/2005	7.47	28.7	2260		1500	< 1	< 1	< 1	< 1	< 1	< 1	0.0767	05070997-07D
AST-EFF	8/11/2005	7.59	27.8	2260		1510	< 1	< 1	< 1	< 1	< 1	< 1	0.07	05080907-09D
AST-EFF	9/13/2005	6.98	29.2	2320		1550	< 1	< 1	< 1	2.1	< 1	< 1	0.06	05090940-11D
AST-EFF	10/14/2005	7.67	28.2	1980		1320	< 1	< 1	< 1	< 1	< 1	< 1	0.062	05101155-07D
AST-EFF	11/14/2005	7.42	27.4	1980		1520	< 1	< 1	< 1	1.1	< 1	< 1	0.083	05111097-02D
AST-EFF	12/9/2005	7.49	23.9	2290		1530	< 1	< 1	< 1	< 1	< 1	< 1	0.073	05120894-25D
AST-EFF	1/6/2006	7.29	19.8	2520		1680	< 1	< 1	< 1	< 1	< 1	< 1	0.076	06010681-03D
AST-EFF	2/13/2006	7.29	19.8	2530		1690	< 1	< 1	< 1	< 1	< 1	< 1	0.071	06021236-03D
AST-EFF	3/17/2006	7.45	28	2020		1340	< 1	< 1	< 1	< 1	< 1	< 1	0.078	06031366-04D
AST-EFF	4/13/2006	7.52	28.9	2150		1440	< 1	< 1	< 1	< 1	< 1	< 1	0.058	06041175-01D
AST-EFF	5/11/2006	7.14	29.4	2000		1330	< 1	< 1	< 1	< 1	< 1	< 1	0.064	06050997-08D
AST-EFF	8/14/2006	6.8	26.7	2840		1900	< 1	< 1	< 1	< 1	< 1	< 1	0.2	06080585-04D
AST-EFF	8/31/2006												0.055	06081187-10
AST-EFF	9/12/2006	7.45	27.8	1940		1300	< 1	< 1	< 1	< 1	< 1	< 1	0.0695	06090520-09D
AST-EFF	10/19/2006	7.58	29	2170		1430	< 1	< 1	< 1	< 1	< 1	< 1	0.0834	06100842-10D
AST-EFF	11/15/2006	7.48	21.5	2520		1690	< 1	< 1	< 1	< 1	< 1	< 1	0.0601	06110625-05D
AST-EFF	12/12/2006	7.49	22.4	2600		1740	< 1	< 1	< 1	< 1	< 1	< 1	0.0922	06120441-05D
AST-EFF	1/12/2007	7.1	19.3	2710		1820	< 1	< 1	< 1	< 1	< 1	< 1	0.0667	07010389-05D
AST-EFF	2/13/2007	7.47	20.1	2590		1740	< 1	< 1	< 1	< 1	< 1	< 1	0.0669	07020516-04D
AST-EFF	3/12/2007	5	27.5	2200		1470	< 1	< 1	< 1	< 1	< 1	< 1	0.0785	07030441-08D
AST-EFF	4/11/2007	7.52	28	2290		1530	< 1	< 1	< 1	< 1	< 1	< 1	0.102	07040678-03D
AST-EFF	5/15/2007	7.58	27.5	2200		1450	< 1	< 1	< 1	< 1	< 1	< 1	0.0682	07050624-05D
AST-EFF	6/14/2007	7.38	29.5	2240		1490	< 1	< 1	< 1	< 1	< 1	< 1	0.0643	07060543-05D
AST-EFF	7/13/2007	7.47	25.6	2250		1500	< 1	< 1	< 1	< 1	< 1	< 1	0.0819	07070476-10D
AST-EFF	8/8/2007	7.51	29.9	2420		1610	< 1	< 1	< 1	< 1	< 1	< 1	0.0707	07080415-04D
AST-EFF	9/13/2007					1610	< 1	< 1	< 1	< 1	< 1	< 1	0.0984	07090478-08D
AST-EFF	10/10/2007						<0.5	<0.5	<0.5	0.5	<0.5	<0.5	0.068	198348-005
AST-EFF	11/7/2007						<0.5	<0.5	<0.5	0.2	<0.5	<0.5	0.047	199171-005
AST-EFF	12/7/2007						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.064	199822-005
AST-EFF	1/16/2008						<0.5	<0.5	<0.5	0.3	<0.5	<0.5	0.052	200623-004
AST-EFF	2/12/2008	8.03					<0.5	<0.5	<0.5	0.3	<0.5	<0.5	0.053	201202-010
AST-EFF	3/13/2008	7.89					<0.5	<0.5	<0.5	0.3	<0.5	<0.5	0.066	20931010
AST-EFF	4/18/2008	7.68					<0.5	<0.5	<0.5	0.3	<0.5	<0.5	0.046	202698-010
AST-EFF	5/15/2008												0.036	203344-002
AST-EFF	5/19/2008						<0.5	<0.5	<0.5	0.2	<0.5	<0.5		203404-002
AST-EFF	6/18/2008						<0.5	<0.5	<0.5	0.8	<0.5	<0.5	0.028	204079-012
AST-EFF	7/14/2008						<0.5	<0.5	<0.5	0.3	<0.5	<0.5	0.023	204674-002
AST-EFF	8/20/2008	8.11	27	3220		1.61	<0.5	<0.5	<0.5	0.3	<0.5	<0.5	0.028	205469-009

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
AST-EFF	9/11/2008						<0.5	<0.5	<0.5	0.3	<0.5	<0.5	0.031	206007-010
AST-EFF	10/7/2008						<0.5	<0.5	<0.5	0.4	<0.5	<0.5	0.035	206689-008
AST-EFF	11/18/2008						<0.5	<0.5	<0.5	0.4	<0.5	<0.5	0.035	208075-005
AST-EFF	12/17/2008	7.32	24	3140		1.56								209312-004
AST-EFF	12/17/2008	7.54	24.4	3.1		1.55	<0.5	<0.5	<0.5	0.2	<0.5	<0.5	25	208810-002
AST-EFF	1/14/2009						<0.5	<0.5	<0.5	0.2	<0.5	<0.5	21	209312-004
AST-EFF	2/18/2009						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	29	210201-002
AST-EFF	3/12/2009	7.25	24.2	3.71		1.85	<0.5	<0.5	<0.5	0.3	<0.5	<0.5	43	210629-010
AST-EFF	4/15/2009	7.72	23.9	3340		1666	<0.5	<0.5	<0.5	0.4	<0.5	<0.5	32	211506-008
AST-EFF	5/27/2009						<0.5	<0.5	<0.5	0.3	<0.5	<0.5	80	212433-008
AST-EFF	6/29/2009	7.82	26.7	3220		1.6	<0.5	<0.5	<0.5	0.3	<0.5	<0.5	38	213205-008
AST-EFF	7/16/2009	7.99	26.7	3170		1.58	<0.5	<0.5	<0.5	0.2	<0.5	<0.5	34	213608-009
AST-EFF	8/21/2009						<0.5	<0.5	<0.5	0.5	<0.5	<0.5		214383-002
AST-EFF	9/16/2009						<0.5	<0.5	<0.5	0.3	<0.5	<0.5		215010-006
AST-EFF	10/21/2009						<0.5	<0.5	<0.5	0.2	<0.5	<0.5		215908-011
AST-EFF	11/18/2009	7.68	24.4	3440		1.72	<0.5	<0.5	<0.5	0.2	<0.5	<0.5		216662-010
AST-EFF	12/2/2009	8.08	24.2	3470		1.73	<0.5	<0.5	<0.5	0.3	<0.5	<0.5		217016-002
AST-EFF	1/14/2010						<0.5	<0.5	<0.5	0.3	<0.5	<0.5		217772-010
AST-EFF	2/24/2010	7.97	23.7	3410		1.71	<0.5	<0.5	<0.5	0.3	<0.5	<0.5		218482-009
AST-EFF	3/9/2010						<0.5	<0.5	<0.5	0.3	<0.5	<0.5		218712-006
AST-EFF	4/13/2010						<0.5	<0.5	<0.5	0.2	<0.5	<0.5		219502-002
AST-EFF	5/13/2010	7.7	25.4	3400		1.7	<0.5	<0.5	<0.5	0.3	<0.5	<0.5	28	220168-014
AST-EFF	6/22/2010						<0.5	<0.5	<0.5	0.2	<0.5	<0.5	33	220905-010
AST-EFF	7/15/2010	8.33	26.9	3320		1.65	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	32	221286-008
AST-EFF	8/18/2010	8.34	27	3350		1.67	<0.5	<0.5	<0.5	0.2	<0.5	<0.5	33	221992-011
AST-EFF	10/20/2010						<0.5	<0.5	<0.5	0.2	<0.5	<0.5	28	223362-008
AST-EFF	11/4/2010						<0.5	<0.5	0.3	0.2	<0.5	<0.5	46	223810-003
AST-EFF	12/1/2010						<0.5	<0.5	<0.5	0.2	<0.5	<0.5	34	224639-044
AST-EFF	1/4/2011						0.5	0.5	0.5	0.5	0.5	0.5	48	PGA SOUTH
AST-EFF	2/3/2011	7.67	19.94	3644	2.1		<0.5	<0.5	<0.5	0.1	<0.5	<0.5	34	PGA SOUTH
AST-EFF	3/1/2011						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	20	PGA SOUTH
AST-EFF	4/5/2011						<0.5	<0.5	<0.5	0.2	<0.5	<0.5	23	PGA SOUTH
AST-EFF	5/3/2011						<0.5	<0.5	<0.5	0.2	<0.5	<0.5	20	PGA SOUTH
AST-EFF	6/2/2011						<0.5	<0.5	<0.5	0.3	<0.5	<0.5	33	PGA SOUTH
AST-EFF	7/5/2011						<0.5	<0.5	<0.5	0.2	<0.5	<0.5	62	PGA SOUTH
AST-EFF	8/1/2011						<0.5	<0.5	<0.5	0.2	<0.5	<0.5	65	PGA SOUTH
AST-EFF	9/7/2011						<0.5	<0.5	<0.5	0.2	<0.5	<0.5	64	PGA SOUTH
AST-EFF	10/5/2011						<0.5	<0.5	<0.5	0.2	<0.5	<0.5	37	154540
AST-EFF	11/7/2011						<0.5	<0.5	<0.5	0.2	<0.5	<0.5	36	PGA SOUTH
AST-EFF	12/7/2011						<0.5	<0.5	<0.5	0.5	<0.5	<0.5	55	189044
AST-EFF	1/4/2012	7.59	22.83	4038	11.5		<0.5	<0.5	<0.5	0.2	<0.5	<0.5	58	189044
AST-EFF	2/2/2012	8.05	22.98	3503	1.06		<0.5	<0.5	<0.5	0.2	<0.5	<0.5	35	189044
AST-EFF	3/1/2012						<0.5	<0.5	<0.5	0.1	<0.5	<0.5	62	189044
AST-EFF	4/2/2012						<0.5	<0.5	<0.5	0.1	<0.5	<0.5	96	189044
AST-EFF	5/11/2012	7.53	25.23	3352	7.17		<0.5	<0.5	<0.5	0.2	<0.5	<0.5	54	189044
AST-EFF	6/4/2012	7.85	24.57	3523	2.94		<0.5	<0.5	<0.5	0.2	<0.5	<0.5	56	189044
AST-EFF	7/2/2012	7.17	26.66	3274	46.7		<0.5	<0.5	<0.5	0.5	<0.5	<0.5	55	189044
AST-EFF	8/2/2012	7.78	26.11	3408	10.7		<0.5	<0.5	<0.5	0.2	<0.5	<0.5	61	189044
AST-EFF	9/4/2012	7.43	27.9	4028	16.7		<0.5	<0.5	<0.5	0.2	<0.5	<0.5	76	189044
AST-EFF	10/1/2012	7.8	27.84	4131	1.41		<0.5	<0.5	<0.5	0.1	<0.5	<0.5	55	189044
AST-EFF	11/5/2012	8.07	24	2994	0.3		<0.5	<0.5	<0.5	0.1	<0.5	<0.5	54	189044
AST-EFF	12/3/2012	7.68	21.77	3786	4.81		<0.5	<0.5	<0.5	0.1	<0.5	<0.5	56	189044
AST-EFF	1/2/2013						<0.5	<0.5	<0.5	0.1	<0.5	<0.5	48	189044
AST-EFF	2/4/2013	7.57	19.27	3749	23.5		<0.5	<0.5	<0.5	0.1	<0.5	<0.5	53	189044
AST-EFF	3/4/2013						<0.5	<0.5	<0.5	0.2	<0.5	<0.5	69	189044
AST-EFF	4/1/2013						<0.5	<0.5	<0.5	0.2	<0.5	<0.5	71	189044
AST-EFF	5/6/2013	7.31	24.18	3869	16.5		<0.5	<0.5	<0.5	0.2	<0.5	<0.5	67	PGA South
AST-EFF	6/3/2013						<0.5	<0.5	<0.5	0.2	<0.5	<0.5	73	39049-103
AST-EFF	7/1/2013						< 0.5	< 0.5	< 0.5	0.2 J	< 0.5	< 0.5	75	246655-002
AST-EFF	8/7/2013						< 0.5	< 0.5	< 0.5	0.2 J	< 0.5	< 0.5	67	247738-002
AST-EFF	9/4/2013						< 0.5	< 0.5	< 0.5	0.2 J	< 0.5	< 0.5	69	248701-002
AST-EFF	10/2/2013						< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	86	249598-002
AST-EFF	11/5/2013						< 0.5	< 0.5	< 0.5	0.1 J	< 0.5	< 0.5	67	250558-002
AST-EFF	12/2/2013						< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	99	251273-002
AST-INF	2/7/1990						<0.2	0.4		<0.2	1.6	0.6		2564
AST-INF	2/15/1990		23.5	3460			5	<0.2		340	0.5	0.5		2622
AST-INF	2/20/1990	6.98	22.6	5240		3510	4	< 2		300	< 2	< 2		2653
AST-INF	5/23/1990			5630		3730	3	< 2		245	< 2	< 2		5760
AST-INF	6/20/1990		26.5	5550		3670	4	< 2		380	< 2	< 2		6772
AST-INF	7/18/1990	7.2	28.8	5600		3670	< 5	< 2		340	< 2	< 2		7728
AST-INF	8/17/1990	7.34	27.8	5600		3740	< 5	< 5		340	< 5	< 5		8664

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
AST-INF	9/23/1990	7.35	27	5630		3760	8	< 2		370	< 2	< 2		9768
AST-INF	10/18/1990	7.34	26.3	5440		3640	< 5	< 5		220	< 5	< 5		10721
AST-INF	11/25/1990	7.19	27.5	5230		3480	14	< 2		490	< 2	< 2		11779
AST-INF	12/18/1990	7.23	19.8	5230		3600	7	< 2		300	< 2	< 2		12764
AST-INF	1/23/1991	7.37	22.2	5190		3450	3	< 2		191	< 2	< 2		101748
AST-INF	2/17/1991	7.39	24	4950		3430	< 2	< 2		150	< 2	< 2		102699
AST-INF	3/17/1991	7.31	22	5190		3490	3	< 2		210	< 2	< 2		103798
AST-INF	4/22/1991	7.31	25.8	5150		3470	5.9	< 2		210	< 2	< 2		104816
AST-INF	5/22/1991	7.37	26.7	5230		3500	5	< 2		210	< 2	< 2		105819
AST-INF	6/20/1991	7.17	26.7	5200		3470	< 8.5	<0.2		240	<0.2	<0.4		106811
AST-INF	7/12/1991						5.5	<0.2		240	0.8	0.4		107690
AST-INF	7/21/1991	7.18	25.6	5200		3470	8.5	<0.2		250	<0.2	0.4		107817
AST-INF	8/18/1991	7.56	26.8	5230		3490	5	< 2		227	< 2	< 2		108745
AST-INF	9/22/1991	7.61	26.7	5150		3420	4	< 2		170	< 2	< 2		109886
AST-INF	1/19/1992	5.88	25.3	4380		2930	4	< 2		200	< 2	< 2		201734
AST-INF	3/30/1992	5.31	25.6	0		0	3	< 1		180	< 1	< 1		203992
AST-INF	5/15/1992						4.6	<0.2		160	0.7	0.3		205840
AST-INF	5/27/1992	5.43	26.5				0.6	0.6		289	<0.2	<0.2		205028
AST-INF	6/19/1992						3.5	0.5		160	1.1	0.4		206900
AST-INF	7/13/1992	7.18	25.8	4540		3020	4.5	<0.2		250	0.6	0.3		207683
AST-INF	7/22/1992						5.2	<0.2		250	0.7	0.3		207854
AST-INF	8/20/1992	7.03	24				3.2	<0.2		150	0.9	<0.2		208894
AST-INF	9/22/1992	7.19	24.9				< 1	< 1		160	< 1	< 1		209800
AST-INF	10/2/1992	7.34	25.5	4710		3140	4.1	<0.2		200	1.1	0.2		210533
AST-INF	11/10/1992						2	< 1		180	< 1	< 1		211653
AST-INF	11/17/1992	5.44					1.4	< 1		160	< 1	< 1		211769
AST-INF	11/24/1992						4.2	0.2		260	0.8	0.4		211897
AST-INF	12/1/1992						< 2	2		220	< 2	< 2		212515
AST-INF	12/9/1992	7.24	23.6	4380		2920	5.5	<0.4		200	<0.4	0.4		212687
AST-INF	12/10/1992												0.033	212726
AST-INF	1/30/1993	7.13	23.4	3830		2560	12	<0.2		220	<0.2	0.5		30251001
AST-INF	2/22/1993						5.4	<0.2		210	0.3	0.3		30281501
AST-INF	3/15/1993	7	24.7	3940		2620	6.6			220	0.8	0.5		30377306
AST-INF	4/14/1993	7.12	25.5	4170		2780							0.036	304731
AST-INF	5/14/1993	7.23	25.9	4350		2870							0.036	305743
AST-INF	6/23/1993		26.7				5	< 1		240	< 1	< 1		30694801
AST-INF	6/24/1993		26.1				7	< 1		200	< 1	< 1		30697001
AST-INF	6/25/1993	6.99	27.5	4700		1600	6	< 1		170	< 1	< 1		30600901
AST-INF	7/9/1993	7.19	26.1	4460		2980	7	< 1		150	< 1	< 1	0.041	30762801
AST-INF	7/10/1993	7.17	27.6	4260		2820	7	< 1		160	< 1	< 1		30762802
AST-INF	7/12/1993						6	< 1		220	< 1	< 1		30765201
AST-INF	7/13/1993	7.1	26.4	4340		2890	7	< 1		190	< 1	< 1		30768401
AST-INF	8/12/1993	7.12	25.6	4290		2860							0.044	308726
AST-INF	8/18/1993	7.14	26.5	3970		2650							0.038	308791
AST-INF	8/30/1993	6.96	26.3	4240		2870	12	0.7		310	<0.4	0.9		30801901
AST-INF	9/13/1993	7.18	26.3	4470		2960	5.8	< 1		250	< 1	< 1		30968401
AST-INF	9/21/1993	7.2	26.7	5010		3400	< 1	< 1		220	2	< 1	0.04	30987801
AST-INF	9/24/1993												0.042	309964
AST-INF	10/8/1993	7.22	26.2	5420		3620	8	< 2		180	< 2	< 2		31070928
AST-INF	10/13/1993						11	1.3		260	<0.4	0.5		31074106
AST-INF	10/14/1993	7.18	26	5420		3640	8	0.6		230	<0.4	0.4		31076001
AST-INF	10/15/1993	7.23	25.9	5430		3640	9.5	0.7		220	<0.2	0.6		31081401
AST-INF	10/18/1993	7.06	25.5	4790		3220	7.5	< 1		190	< 1	< 1		31092915
AST-INF	11/4/1993	7.1	25.4	4320			7	2		150	< 1	< 1		31164105
AST-INF	11/9/1993	7.2	24.7	4510			9.4	0.4		180	<0.2	0.3		31175601
AST-INF	11/10/1993	7.05	24.5	4450		2960	7.2	0.3		170	<0.2	0.3		31175603
AST-INF	11/19/1993	7.1	25.3	4120			9	< 1		190	< 1	< 1		31198203
AST-INF	12/1/1993	7.16	25.1	4270		2850	10	0.9		200	<0.2	0.5		31253003
AST-INF	12/10/1993	7.09	24.5	4440		2950	12	< 1		210	< 1	< 1		31285601
AST-INF	12/20/1993	7.08	22.1	4250		2830	8.1	0.9		210	<0.2	0.5		31207914
AST-INF	1/6/1994	6.96	23.6	4130		2750	49	0.8		190	<0.2	0.7		40158607
AST-INF	1/21/1994	6.96	24.6	4140		2760	< 2	< 2		210	< 2	< 2		40192004
AST-INF	2/9/1994	6.99	23.7	4180		2790	15	1		160	0.6	0.8	0.048	40273601
AST-INF	2/15/1994	7.13	24.1	5040			16	0.5		150	<0.2	0.5		40285102
AST-INF	2/23/1994	7.36	21.1	4370		2920	10	2.6		180	< 2	3.6		40204704
AST-INF	3/1/1994	7.12	25.6	4320		2880	20	0.8		190	0.5	0.8		40351710
AST-INF	3/8/1994	7.26	24.4	4310		2880	13	0.9		170	0.8	0.8		40378312
AST-INF	3/15/1994	7.21	25.6	4410		2940	9.9	< 1		200	< 1	< 1		40385501
AST-INF	3/22/1994	7.2	25.6	4380		2910	13	0.6		110	0.6	0.7		40308701
AST-INF	3/29/1994	7.35	25.6	4220		2820	15	1		160	0.6	0.7		40452604
AST-INF	4/5/1994						13	1		180	0.7	1.1		40467401

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
AST-INF	4/12/1994						9.8	1.6		140	< 1	< 1		40475008
AST-INF	4/19/1994	7.04	25.5	4140		2760	7.6	< 1		180	< 1	< 1		40494808
AST-INF	4/26/1994	7.22	25.6	4090		2730	15	1		190	0.7	1.2		40411001
AST-INF	5/3/1994	7.06	25.6	3800		2540	13	1.5		160	0.6	<0.2		40565801
AST-INF	5/11/1994	7.07	25.6	4550			16	1		210	< 1	1.4		40574401
AST-INF	5/18/1994	7.21	25.6	4130		2760	8.2	<0.2		120	0.7	0.7		40596901
AST-INF	5/24/1994	7.09	25.6	4170		2770	7.7	< 1		140	< 1	< 1		40511002
AST-INF	5/31/1994	7.07	25.6	4110		2730	10	< 1		180	< 1	1		40657501
AST-INF	6/7/1994	7.08	25.6	4130		2760	< 1	< 1		160	< 1	< 1		40667307
AST-INF	6/16/1994	7.04	25.6	4040		2700	8.5	0.6		130	0.5	0.8		40684418
AST-INF	6/28/1994	7.07	25.6	3960		2670	12	<0.5		200	< 1	1		40752201
AST-INF	7/5/1994	7.15	25.6	4060		2690	12	< 2		220	< 2	< 2		40760501
AST-INF	7/12/1994	7.18	25.6	4000		2660	12	<0.5		210	0.6	1.2		40776001
AST-INF	7/19/1994	6.92	25.6	3680		2460	13	< 1		190	< 1	1.4		40786501
AST-INF	7/26/1994	7.14	25.6	3770		2510	8.4	1		150	1	1		40706201
AST-INF	8/2/1994	7	25.5	3390		2320	12	1		230	1	1.2		40863001
AST-INF	8/3/1994												0.047	40855901
AST-INF	8/9/1994	7.17	25.5	3660		2440	9.7	1		180	1	1		40879401
AST-INF	8/16/1994	7.21	25.5	3530		2350	3.5	<0.2		130	<0.2	<0.2		40893301
AST-INF	8/30/1994	7.13	25.5	3630		2430	6.8	<0.2		160	1.2	1		40810701
AST-INF	9/14/1994	7.1	25.5	2820			9.2	< 1		160	0.4	<0.5		40938601
AST-INF	9/27/1994	7.28	80	4030		2700	12	< 1		230	0.6	1.1		40992212
AST-INF	10/7/1994	7.04	25.3	3080			7.6	0.7		170	0.5	1.1		41059802
AST-INF	10/26/1994	6.98	25.5	2640			6.5	<0.2		160	<0.2	1.2		9410015551
AST-INF	11/1/1994	7.02	25	2610			8.3	<0.2		180	<0.2	<0.2		9410016581
AST-INF	11/14/1994	7.86	24.3	2550		2480	9	<0.2		190	<0.2	1.1		9411019132
AST-INF	12/12/1994	7.04	24.1	3820		2550								
AST-INF	12/28/1994	7.04	0	3920		3160	6.2	<0.2		180	<0.2	<0.2		9412027072
AST-INF	1/6/1995	7.01	24.8	3930		2650	7.4	<0.2		140	<0.2	1.7		9501028652
AST-INF	1/17/1995						3.3	<0.2		125	<0.2	1.2		9501030601
AST-INF	2/7/1995	7.22	24.4	3900		2680	5.6	<0.2		107	<0.2	1.5		9502034712
AST-INF	2/21/1995	7.08	25.5	3930		2690	< 1	< 1		151	< 1	< 1		9502-03777-1
AST-INF	3/7/1995	7.12	25.9	4070		2790	2.65	< 1		164	< 1	< 1		9503-4139-1
AST-INF	3/23/1995	7.66	24.7	4490		3000	< 1	< 1		168	< 1	< 1		9503-4380-18
AST-INF	4/4/1995	7.16	25.5	4130		2770	4.7	< 1		135	< 1	< 1		9504-4674-1
AST-INF	5/3/1995	7.09	25.5	4140		2770	5	< 1		162	< 1	1.4		9505-5187-1
AST-INF	6/14/1995	7.31	26.3	3980		2640	6.5	< 1		173	< 1	2		9506-05930-9
AST-INF	7/7/1995	7.21	26.4	4100		2730	3.6	< 1		81.9	< 1	1.5		9507-06296-1
AST-INF	8/11/1995	7.31	26.8	4050		2700	< 1	< 1		105	< 1	< 1		9508-06941-8
AST-INF	9/8/1995	7.11	27.4	3880		2640	4.1	< 1		123	< 1	< 1		9509-07402-1
AST-INF	10/5/1995	7.11	25.7	3940		2640	3.3	< 1		153	< 1	2.3		9510-07900-1
AST-INF	11/14/1995	7.2	25.9	3800		2540	< 1	< 1		145	< 1	< 1		9511-08545-6
AST-INF	12/26/1995	7.18	24.7	4530		3240	4.8	< 1		99.9	< 1	3		9512-09221-1
AST-INF	1/16/1996	7.08	25.8	4140		2770	< 1	< 1		104	< 1	< 1		9601-00275-5
AST-INF	2/9/1996	7.22	26.2	3970		0	< 1	< 1		108	< 1	< 1		9602-00661-5
AST-INF	3/8/1996	7.15	25.5	3880		2600	< 1	< 1		120	< 1	< 1		9603-01159-1
AST-INF	4/9/1996	7.33	25.7	3720		2480	4.1	< 1		138	< 1	2.5		9604-01764-1
AST-INF	5/14/1996	7.06	26.4	3690		2450	4.2	< 1		158	< 1	< 1		9605-02432-3
AST-INF	6/6/1996	7.16	27.6	3440		2300	3.8	< 1		138	< 1	< 1		9606-02833-3
AST-INF	6/6/1996						< 10		< 10	170	< 10			DelMar
AST-INF	7/15/1996	7.15	27	3760		3920	< 1	< 1		239	< 1	< 1		9607-03554-1
AST-INF	8/16/1996	7.26	27.6	3610		2420	< 1	< 1		146	< 1	< 1		9608-04199-2
AST-INF	9/9/1996	7.24	27.7	3710		2490	< 1	< 1		130	< 1	< 1		9609-04599-4
AST-INF	10/4/1996	7.25	26.5	3700		2480	< 1	< 1		124	< 1	< 1		9610-05144-2
AST-INF	11/4/1996	7.25	24.8	3780		2530	< 1	< 1		109	< 1	< 1		9611-05675-2
AST-INF	12/10/1996	7.1	25.2	3740		2500	< 1	< 1		133	< 1	< 1		9612-06480-4
AST-INF	1/9/1997	7.15	24.7	3790		2810	< 1	< 1		136	< 1	< 1		9701-00271-2
AST-INF	2/10/1997	7.19	24.9	3760		0	< 1	< 1		119	< 1	< 1		9702-00937-2
AST-INF	3/6/1997	7.15	25.4	2620		1750	3.7	< 1		112	< 1	2.3		9703-01479-2
AST-INF	4/7/1997	7.06	26.7	2480		1660	4.7	< 1		141	< 1	2.8		9704-02127-2
AST-INF	5/7/1997												.031H	9705-02785-1
AST-INF	5/8/1997												0.042	9705-02889-2
AST-INF	5/9/1997	7.1	26.6	2470		1650	3.9	< 1		133	< 1	2.2		9705-02889-3
AST-INF	6/6/1997												.039H	9706-03503-9
AST-INF	6/10/1997	7.2	27.4	2410		1600	3.1	< 1		104	< 1	< 1		9706-03639-12
AST-INF	7/7/1997	7.29	28.5	2430		1620	4.1	< 1		97	< 1	2.1		9707-04237-1
AST-INF	8/8/1997	7.35	28.3	2490		1660	5	< 1		130	< 1	2.6		9708-05140-4
AST-INF	9/11/1997	7.31	27.2	2560		1710	4.98	< 1		131	< 1	2.16		9709-05871-17
AST-INF	10/9/1997	7.13	25.8	2550		1710	4.4	< 1		111	< 1	2.4		9710-06571-2
AST-INF	10/21/1997												0.06	9710-06823-7
AST-INF	11/6/1997	7.15	25.3	2520		1690	3.9	< 1		113	< 1	< 1		9711-07207-2

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
AST-INF	12/9/1997	7.13	24	2560		1720	4.2	< 1		101	< 1	1.4		9712-07967-2
AST-INF	1/12/1998	6.99	24.3	2520		1690	4.1	< 1		127	< 1	2.5		9801-00254-4
AST-INF	2/12/1998	7.19	25.1	2520		1680	3.2	< 1		81.2	< 1	1.7		9802-01069-2
AST-INF	3/10/1998	7.18	25.9	2500		1670	3.8	< 1		98.6	< 1	1.9		9803-01614-2
AST-INF	4/10/1998	7.11	26.3	2470		1650	3.4	< 1		91.2	< 1	2.3		9804-02474-2
AST-INF	5/6/1998	7.07	25.6	2580		1720	3.7	< 1		184	< 1	2.1		9805-03152-2
AST-INF	6/10/1998	7.2	25.7	2570		1720	3			93.3				9806-03991-2
AST-INF	7/30/1998	7.15	27.4	2560		1700	3.9	< 1		101	< 1	2.1		9807-05285-2
AST-INF	8/11/1998	7.11	27.6	2530		1690	3.4	< 1		86.5	< 1	2.1		9808-05612-1
AST-INF	9/12/1998	7.13	26.9	2480		1690	3.1	< 1		91.3	< 1	1.8		9809-06400-6
AST-INF	10/10/1998	7.29	26.5	2480		1650	3.7	< 1		661	< 1	18		9810-07135-2
AST-INF	11/3/1998	7.26	26.7	2470		1640	3	< 1		96	< 1	1.4		9811-07908-2
AST-INF	11/10/1998	7.24	26.6	2470		1640	4	< 1		91.7	< 1	1.9		9811-08185-2
AST-INF	11/17/1998												0.047	9811-08434-002
AST-INF	12/10/1998	7.13	24.2	2570		1720	3.6	< 1		94.7	< 1	1.7	0.06	9812-09040-002
AST-INF	1/7/1999	7.15	24.3	2590		1730	4	< 1		96.9	< 1	2	0.055	9901-00233-02
AST-INF	2/11/1999	7.07	24.3	2560		1720	3	< 1		71.3	< 1	< 1	0.04	9902-01433-02
AST-INF	3/10/1999	7.12	24.3	2590		1730	2.9	< 1		92.6	< 1	1.2	0.047	9903-02392-002
AST-INF	4/9/1999	7	25.1	2540		1700	5	< 1		125	< 1	2	0.066	9904-03361-06
AST-INF	5/10/1999	7.26	26.8	2530		1690	3.6	< 1		87.4	< 1	1.2	0.046	9905-04269-06
AST-INF	6/9/1999	7.21	26.8	2550		1700	4	< 1		117	< 1	1.5	0.059	9906-05238-02
AST-INF	7/12/1999	7.15	27	2470		650	3.3	< 1		87.7	< 1	< 1	0.063	9907-06192-002
AST-INF	8/10/1999	7.1	26.9	2560		1720	7.1	< 1		93.7	< 1	1.1	0.034	9908-07278-002
AST-INF	9/13/1999	7.05	26.7	2500		1680	3.9	< 1		85	< 1	1.2	0.062	9909-08258-002
AST-INF	10/8/1999	7.1	26.3	2570		1720	3.6	< 1		93.9	< 1	1.1	0.054	9910-09178-002
AST-INF	11/10/1999	7.1	25.4	2560		1710	4.5	< 1		105	< 1	< 1	0.065	9911-10331-005
AST-INF	12/8/1999	7.08	25.7	2540		1700	3.6	< 1		128	< 1	1.8	0.073	9912-11043-007
AST-INF	1/10/2000	7.1	24.6	2550		1710	3	< 1		77.4	< 1	1.1	0.065	0001-00301-002
AST-INF	2/8/2000	7.16	24.3	2460		1640	3.5	< 1		78.4	< 1	1.3	0.059	0002-01344-002
AST-INF	3/7/2000	7.1	24.4	2500		1670	2.2	< 1		61.2	< 1	1.1	0.066	0003-2088-002
AST-INF	4/11/2000	7.22	26.3	2540		1690	3.5	< 1		80.9	< 1	< 1	0.066	0004-03322-002
AST-INF	5/10/2000	7.2	27.2	2410		1640	< 1	< 1		76.7	< 1	< 1	0.064	0005-04330-004
AST-INF	6/9/2000	7.18	26.2	2610		1740	5.2	< 1		82.2	< 1	1	0.069	0006-05131-007
AST-INF	7/10/2000	7.11	26.2	2570		1720	5.2	< 1		89.1	< 1	< 1	0.083	0007-05952-002
AST-INF	8/11/2000	7.22	28.2	2570		1720	3	< 1		69.6	< 1	1	0.057	0008-07186-003
AST-INF	9/11/2000	7.34	28.3	2560		1710	3.8	< 1		88	< 1	1.2	0.07	0009-07995-002
AST-INF	10/10/2000	7.15	27.9	2460		1640	3.7	< 1		90.7	< 1	< 1	0.067	0010-08886-002
AST-INF	11/15/2000	6.9	24.9	2580		1720	5.4	< 1		154	< 1	1.6	0.083	0011-09900-002
AST-INF	12/8/2000	7.05	25.9	2550		1700	3.4	< 1		88.1	< 1	< 1	0.052	0012-10488-002*
AST-INF	1/9/2001	7.18	24.9	2590		1740	3.6	< 1		65.3	< 1	1.1	0.056	0101-00226-006
AST-INF	2/15/2001	7.15	24.9	2540		1700	3.4	< 1		95.1	< 1	1.5	0.07	0102-01213-002
AST-INF	3/13/2001	6.97	25.4	2560		1710	3.7	< 1		71	< 1	1.2	0.06	0103-01881-002
AST-INF	4/10/2001	7.11	24.5	2550		1710	5.7	< 1		93.4	< 1	1.7	0.063	0104-02624-002
AST-INF	5/9/2001	7.15	26.6	2530		1690	3.9	< 1		85.9	< 1	1.8	0.068	0105-03408-003
AST-INF	6/7/2001	7.12	28.1	2520		1680	4.1	< 1		75.5	< 1	1.5	0.07	0106-04180-004
AST-INF	7/10/2001	7.04	28.8	2490		1670	2.7	< 2		104	< 2	< 2	0.07	0107-04949-004
AST-INF	8/10/2001	7.16	27.9	2500		1670	2.6	< 1		96	< 1	< 1	0.088	0108-05840-002
AST-INF	9/10/2001	7.29	27.6	2470		1650	3.1	< 1		96	< 1	< 1	0.08	0109-06717-007
AST-INF	10/11/2001	7.16	27.1	2440		1630	3.7	< 1		99.4	< 1	1.6	0.077	0110-07730-002
AST-INF	11/12/2001	7.1	27.4	2520		1670	4.4	< 1		88.8	< 1	< 1	0.076	0111-08678-003
AST-INF	12/14/2001	7.12	23.2	2520		1690	3.5	< 1		88.6	< 1	< 1	0.065	0112-09595-003
AST-INF	1/14/2002	7.05	24.6	2580		1730	3.2	< 1		118	< 1	< 1	0.074	0201-00427-007
AST-INF	2/12/2002	6.97	26.3	2460		1650	2.8	< 1		140	< 1	< 1	0.043	0202-01294-003
AST-INF	3/13/2002	7.08	27.4	2420		1620	2.7	< 1		110	< 1	1.1	0.071	0203-02102-005
AST-INF	4/11/2002												0.099	0204-03063-007
AST-INF	4/16/2002	7.1	27.8	2450		1640	3.6	< 1		100	< 1	1.1		0204-03128-002
AST-INF	5/9/2002	7.17	27.2	2450		1640	4.9	< 1		106	< 1	< 1	0.066	0205-03823-007
AST-INF	6/14/2002	7.27	29.7	2410		1610	4.7	< 1		170	< 1	1.1	0.08	0206-04956-005
AST-INF	7/16/2002	7.16	27.6	2310		1540	3.5	< 1		115	< 1	< 1	0.08	0207-05904-002
AST-INF	8/14/2002	7.12	27.6	2310		1550	4.2	< 1		76.9	< 1	< 1	0.064	0208-06905-005
AST-INF	9/10/2002	7.06	27.4	2380		1590	2.8	< 1		147	< 1	< 1	0.084	0209-07587-007
AST-INF	10/11/2002	7.15	27.3	2350		1570	5.6	< 1		169	< 1	< 1	0.094	0210-08611-007
AST-INF	11/6/2002	7.05	26.5	2300		1540	3.5	< 1		144	< 1	< 1	0.085	0211-09350-002
AST-INF	12/12/2002	6.96	25.8	2390		1600	3.8	< 1		193	< 1	< 1	0.072	0212-10571-008
AST-INF	1/14/2003	7.08	25.5	2360		1580	< 1	< 1		129	< 1	< 1	0.087	0301-00459-004
AST-INF	2/18/2003	6.99	25	2330		1560	2.7	< 1		68.4	< 1	< 1	0.071	0302-01525-002
AST-INF	3/13/2003	7.04	26.7	2340		1560	3.2	< 1	< 1	115	< 1	< 1	0.066	030302316004
AST-INF	4/11/2003	6.99	26.7	2330		1560	3	< 1	< 1	85.9	< 1	< 1	0.066	030403290007
AST-INF	5/15/2003	6.85	27.6	2320		1550	3.9	< 1	< 1	86	< 1	< 1	0.08	030504425007
AST-INF	6/16/2003	7	26.5	2330		2560	3.7	< 1	< 1	94.2	< 1	< 1	0.08	030605492005
AST-INF	7/10/2003	7.19	27.3	2350		1570	5.2	< 1	< 1	126	< 1	< 1	0.072	030706280007

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
AST-INF	8/15/2003	7.16	28.5	2320		1550	3.2	< 1	< 1	94.6	< 1	< 1	0.1	030807651007
AST-INF	9/11/2003	7.06	28.6	2330		1560	3	< 1	< 1	105	< 1	< 1	0.094	030908692002
AST-INF	10/16/2003	7.11	29.5	2250		1480	1.6	< 1	< 1	48.1	< 1	< 1	0.054	031009963009
AST-INF	11/14/2003	7.15	25.3	2360		1580	2.7	< 1	< 1	110	< 1	1.2	0.09	031111068007
AST-INF	12/12/2003	7.17	23.8	2330		1560	3	< 1	< 1	114	< 1	< 1	0.08	031212173002
AST-INF	1/16/2004	7.17	23.8	2380		1590	3.8	< 1	< 1	80	< 1	< 1	0.074	040100605007
AST-INF	2/12/2004	7.14	23.9	2350		1570	4.6	< 1	< 1	88.7	< 1	1.4	0.071	040201599007
AST-INF	3/11/2004	7.17	26.6	2280		1520							0.068	040302734006
AST-INF	4/20/2004	7.18	24.6	2290		1530	3.4	< 1	< 1	74	< 1	1.2	0.051	040404233009
AST-INF	5/18/2004	7.19	27.1	2400		1600	2.6	< 2.5	< 2.5	81	< 2.5	< 2.5	0.071	040505500004
AST-INF	7/23/2004	7.15	27.7	1430		2130	< 1	< 1	< 1	12	< 1	< 1	0.026	040708258004
AST-INF	8/17/2004	7.11	29	2350		1570	< 5	< 2	< 2	77	< 2	< 2	0.051	040809425004
AST-INF	9/17/2004	7.07	27.4	2380		1600	< 5	< 5	< 5	70	< 5	< 5	0.058	040910776010
AST-INF	10/14/2004	6.83	25.8	2390		1600	2.4	< 1	< 1	89	< 1	< 1	0.091	04101076-06D
AST-INF	11/11/2004	7.05	25.1	2400		1600	2.2	< 1	< 1	64	< 1	< 1	0.072	04110939-07D
AST-INF	12/10/2004	7.06	24.6	2380		1590	1.9	< 1	< 1	37	< 1	1.1	0.076	04120925-02D
AST-INF	1/13/2005	7.08	24	2440		1630	2.4	< 1	< 1	100	< 1	1.1	<0.097	05011033-18D
AST-INF	2/10/2005	7.11	23.4	2430		1630	2.4	< 1	< 1	83	< 1	< 1	0.081	05021023-08D
AST-INF	3/11/2005	7.1	24.2	2340		1570	< 2.4	< 1	< 1	88	< 1	< 1	0.094	05031045-06D
AST-INF	4/13/2005	7.13	23.5	2290		1530	2.8	< 1	< 1	84	< 1	1.2	0.088	05041031-17D
AST-INF	5/11/2005	7.06	27.5	2250		1500	3	< 1	< 1	83	< 1	1.2	0.078	05050902-08D
AST-INF	6/10/2005	7.04	27.5	2280		1530	3.1	< 1	< 1	71	< 1	< 1	0.066	05060846-26D
AST-INF	7/13/2005	7.04	28.7	2290		1530	3.26	< 1	< 1	83.05	< 1	1.2	0.0735	05070997-08D
AST-INF	8/11/2005	7	27.4	2290		1530	2.6	< 1	< 1	77	< 1	< 1	0.075	05080907-10D
AST-INF	9/13/2005	6.98	29.2	2320		1550	2.9	< 1	< 1	70	< 1	< 1	0.061	05090940-12D
AST-INF	10/14/2005	7.15	28.5	2030		1360	2.1	< 1	< 1	66	< 1	< 1	0.06	05101155-08D
AST-INF	11/14/2005	7.36	27.4	2000		1330	2.1	< 1	< 1	73	< 1	< 1	0.081	05111097-03D
AST-INF	12/9/2005	6.99	24.3	2340		1570	3.4	< 1	< 1	99	< 1	1.2	0.07	05120894-26D
AST-INF	1/6/2006	6.94	21.8	2460		1640	3	< 1	< 1	80	< 1	1.1	0.075	06010681-04D
AST-INF	2/13/2006	6.94	20.3	2450		1650	3	< 1	< 1	74	< 1	1.1	0.074	06021236-04D
AST-INF	3/17/2006	6.95	26.9	2090		1380	1.6	< 1	< 1	56	< 1	< 1	0.074	06031366-05D
AST-INF	4/13/2006	6.98	28.4	2030		1350	1.4	< 1	< 1	46	< 1	< 1	0.058	06041175-02D
AST-INF	5/11/2006	6.93	30.5	1980		1320	1.2	< 1	< 1	49	< 1	< 1	0.063	06050997-09D
AST-INF	8/14/2006	6.86	29	2030		1390	1.5	< 1	< 1	56	< 1	< 1	0.055	06080585-05D
AST-INF	8/31/2006												0.044	06081187-11
AST-INF	9/12/2006	7.1	27.9	2010		1330	2.04	< 1	< 1	81.72	< 1	< 1	0.0658	06090520-10D
AST-INF	10/19/2006	7.01	25.8	2470		1660	1.61	< 1	< 1	69.53	< 1	< 1	0.0792	06100842-11D
AST-INF	11/15/2006	7.14	23.5	2490		1660	2.25	< 1	< 1	78.82	< 1	< 1	0.0592	06110625-06D
AST-INF	12/12/2006	7.11	22.4	2600		1740	1.88	< 1	< 1	66.24	< 1	< 1	0.0569	06120441-06D
AST-INF	1/12/2007	7.16	21	2620		1750	2.4	< 1	< 1	76.43	< 1	< 1	0.0602	07010389-06D
AST-INF	2/13/2007	7.18	21.1	2600		1740	2.19	< 1	< 1	66.17	< 1	< 1	0.0697	07020516-05D
AST-INF	3/12/2007	7.27	27.9	2210		1480	2.42	< 1	< 1	47.13	< 1	< 1	0.0433	07030441-09D
AST-INF	4/11/2007	7.09	26.9	2310		1550	3.21	< 1	< 1	82.16	< 1	< 1	0.0714	07040678-04D
AST-INF	5/15/2007	7.01	28.1	2060		1360	1.97	< 1	< 1	54.25	< 1	< 1	0.0696	07050624-06D
AST-INF	6/14/2007	7.12	27.7	2300		1540	1.63	< 1	< 1	50.75	< 1	< 1	0.0627	07060543-06D
AST-INF	7/13/2007	6.9	25.4	2290		1490	1.76	< 1	< 1	52.3	< 1	< 1	0.0658	07070476-11D
AST-INF	8/8/2007	6.97	28.6	2450		1630	1.66	< 1	< 1	51.52	< 1	< 1	0.0715	07080415-05D
AST-INF	9/13/2007					1580	1.4	< 1	< 1	53.26	< 1	< 1	0.0755	07090478-09D
AST-INF	10/10/2007						1.8	<0.5	0.3	53	<0.5	0.8	0.049	198348-004
AST-INF	11/7/2007						0.9	<0.5	0.2	26	<0.5	0.5	0.046	199171-004
AST-INF	12/7/2007						1.6	<0.5	0.4	55	<0.5	0.9	0.065	199822-004
AST-INF	1/16/2008						1.9	<0.5	0.3	55	<0.5	1	0.053	200623-003
AST-INF	2/12/2008	7.41					1.8	<0.5	0.4	64	<0.5	1.3	0.053	201202-009
AST-INF	3/13/2008	7.26					2.2	<0.5	0.3	63	<0.5	1.2	0.057	20931009
AST-INF	4/18/2008	6.89												202698-010
AST-INF	4/18/2008						2.3	<0.5	0.3	57	<0.5	1.2	0.047	202698-009
AST-INF	5/15/2008												0.045	203344-001
AST-INF	5/19/2008						1.8	<0.5	0.3	47	<0.5	1.1		203404-001
AST-INF	6/18/2008						2	<0.5	0.3	43	<0.5	1	0.029	204079-011
AST-INF	7/14/2008						1	<0.5	0.3	41	<0.5	0.5	0.021	204674-001
AST-INF	8/20/2008						1.4	<0.5	0.2	48	<0.5	0.7	0.025	205469-008
AST-INF	9/11/2008						1.6	<0.5	0.3	49	<0.5	0.9	0.029	206007-009
AST-INF	10/7/2008						1.4	<0.5	0.2	42	<0.5	0.9	0.033	206689-007
AST-INF	11/18/2008						1.3	<0.5	0.2	36	<0.5	0.9	0.031	208075-004
AST-INF	12/17/2008	7.05	25	3090		1.55								209312-003
AST-INF	12/17/2008	6.76	25	2.95		1.47	1.1	<0.5	0.2	29	<0.5	0.3	20	208810-001
AST-INF	1/14/2009						1.1	<0.5	0.1	24	<0.5	0.4	21	209312-003
AST-INF	2/18/2009						1.4	<0.5	0.1	37	<0.5	0.9	28	210201-001
AST-INF	3/12/2009	7.03	25.1	3.68		1.83	2.1	<0.5	0.3	51	<0.5	1.2	44	210629-009
AST-INF	4/15/2009	7.05	24.5	3290		1630	1.5	<0.5	0.2	37	<0.5	1.1	29	211506-007
AST-INF	5/27/2009						1.5	<0.5	0.2	36	<0.5	1.1	34	212433-007

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
AST-INF	6/29/2009	7.12	27.1	3180		1.59	1.6	<0.5	0.2	38	<0.5	1.1	34	213205-007
AST-INF	7/16/2009	6.99	27.5	3170		1.58	1.8	<0.5	0.2	37	<0.5	1	33	213608-008
AST-INF	8/21/2009						1.4	<0.5	<0.5	37	<0.5	1.1		214383-001
AST-INF	9/16/2009						1.3	<0.5	0.2	31	<0.5	0.8		215010-005
AST-INF	10/21/2009						1.2	<0.5	<0.5	32	<0.5	1		215908-010
AST-INF	11/18/2009	6.88	25.7	3420		1.7	1.1	<0.5	0.1	25	<0.5	0.7		216662-009
AST-INF	12/2/2009	7.2	23.7	3560		1.78	1.4	<0.5	<0.5	35	<0.5	1.3		217016-001
AST-INF	1/14/2010						1.7	<0.5	0.2	31	<0.5	0.8		217772-009
AST-INF	2/24/2010	7.1	24.5	3390		1.69	1.9	<0.5	0.3	29	<0.5	0.8		218482-008
AST-INF	3/9/2010						1.5	<0.5	0.2	28	<0.5	0.8		218712-005
AST-INF	4/13/2010						1.7	<0.5	0.2	39	<0.5	1.4		219502-001
AST-INF	5/13/2010	6.94	26.7	3380		1.69	1.4	<0.5	0.2	28	<0.5	0.9	29	220168-013
AST-INF	6/22/2010						1.2	<0.5	<0.5	20	<0.5	0.6	27	220905-009
AST-INF	7/15/2010	7.62	27.5	3320		1.65	1.2	<0.5	0.2	25	<0.5	0.8	32	221286-007
AST-INF	8/18/2010	7.63	27.5	1807		895	1.1	<0.5	0.2	23	<0.5	0.8	29	221992-010
AST-INF	10/20/2010						1.4	<0.5	0.2	26	<0.5	0.8	29	223362-007
AST-INF	11/4/2010						0.9	<0.5	0.1	20	<0.5	0.6	29	223810-002
AST-INF	12/1/2010						1.2	<0.5	0.2	27	<0.5	1	34	224639-043
AST-INF	1/4/2011						2.2	0.5	0.3	43	0.5	1.6	56	PGA SOUTH
AST-INF	2/3/2011	7.39	20.07	3641	0.41		1.8	<0.5	0.2	31	<0.5	1.4	31	PGA SOUTH
AST-INF	3/1/2011						1.6	<0.5	0.1	28	<0.5	1.4	25	PGA SOUTH
AST-INF	4/5/2011						1.2	<0.5	0.2	22	<0.5	0.6	22	PGA SOUTH
AST-INF	5/3/2011						1.4	<0.5	0.2	34	<0.5	0.8	23	PGA SOUTH
AST-INF	6/2/2011						1.5	<0.5	0.2	23	<0.5	0.9	33	PGA SOUTH
AST-INF	7/5/2011						1.9	<0.5	0.3	35	<0.5	1.2	63	PGA SOUTH
AST-INF	8/1/2011						1.5	<0.5	0.2	30	<0.5	1.1	66	PGA SOUTH
AST-INF	9/7/2011						2.4	<0.5	0.3	43	<0.5	1.8	74	PGA SOUTH
AST-INF	10/5/2011						1.5	<0.5	0.2	36	<0.5	1	38	154540
AST-INF	11/7/2011						0.9	<0.5	0.1	19	<0.5	0.6	35	PGA SOUTH
AST-INF	12/7/2011						1.8	<0.5	0.1	27	<0.5	2.3	59	189044
AST-INF	1/4/2012	7.54	23.98	3914	2.19		1.7	<0.5	0.2	42	<0.5	1.5	65	189044
AST-INF	2/2/2012	7.22	22.96	3454	2.41		1.3	<0.5	0.2	31	<0.5	0.8	37	189044
AST-INF	3/1/2012						2	<0.5	0.3	38	<0.5	1.5	61	189044
AST-INF	4/2/2012						1.6	<0.5	0.2	43	<0.5	1.4	67	189044
AST-INF	5/11/2012	7.11	25.6	3397	2.09		2	<0.5	0.2	40	<0.5	1.7	51	189044
AST-INF	6/4/2012	7.21	24.16	3493	0.23		2.1	<0.5	0.3	38	<0.5	2.1	57	189044
AST-INF	7/2/2012	6.8	28.07	3346	0.27		2	<0.5	0.2	38	<0.5	1.6	55	189044
AST-INF	8/2/2012	7.11	27.45	3374	1.03		2.2	<0.5	0.3	40	<0.5	1.8	55	189044
AST-INF	9/4/2012	7	27.92	3974	0.32		2	<0.5	0.3	40	<0.5	2	49	189044
AST-INF	10/1/2012	7.05	27.51	4039	0.54		2.5	<0.5	0.3	41	<0.5	1.9	53	189044
AST-INF	11/5/2012	7.62	23.98	2986	0.68		1.6	<0.5	0.2	39	<0.5	1.6	53	189044
AST-INF	12/3/2012	7.11	21.59	3740	0.88		1.5	<0.5	0.3	33	<0.5	1.3	54	189044
AST-INF	1/2/2013						1.9	<0.5	0.3	38	<0.5	1.7	42	189044
AST-INF	2/4/2013	6.84	22.8	3906	2.37		1.9	<0.5	0.3	34	<0.5	1.6	51	189044
AST-INF	3/4/2013						1.6	<0.5	0.2	35	<0.5	1.6	68	189044
AST-INF	4/1/2013						1.9	<0.5	0.2	33	<0.5	1.7	73	189044
AST-INF	5/6/2013	6.56	24.02	3797	0.31		2	<0.5	0.2	34	<0.5	2	64	PGA South
AST-INF	6/3/2013						1.9	<0.5	<0.5	27	<0.5	1.5	63	39049-103
AST-INF	7/1/2013						2.0	< 0.5	0.3 J	35	< 0.5	1.7	65	246655-001
AST-INF	8/7/2013						1.6	< 0.5	0.2 J	34	< 0.5	1.9	65	247738-001
AST-INF	9/4/2013						2.2	< 0.5	0.2 J	33	< 0.5	1.9	67	248701-001
AST-INF	10/2/2013						1.7	< 0.5	0.2 J	37	< 0.5	2.0	75	249598-001
AST-INF	11/5/2013						1.2	< 0.5	< 0.5	33	< 0.5	1.5	75	250558-001
AST-INF	12/2/2013						1.8	< 0.5	0.2 J	34	< 0.5	2.0	74	251273-001
AVONSCH-02	10/24/1984												34	ENSECO-CA
AVONSCH-02	4/3/1986												17	RMAL
AVONSCH-02	8/20/1986												17	RMAL
AVONSCH-02	12/10/1986												32	RMAL
AVONSCH-02	4/2/1987												13	RMAL
AVONSCH-02	6/25/1987												19	CH2M-RD
AVONSCH-02	9/30/1987									0.7				
AVONSCH-02	4/11/1988												20	CH2M-RD
COG-01	2/16/1970												10	ADHS
COG-01	3/21/1974												10	ADHS
COG-01	9/3/1982												10	VERSAR
COG-01	5/17/1984									6.8				RMAL
COG-01	10/1/1985									0.11				RMAL
COG-01	11/3/1986												34	ATL
COG-01	6/25/1987									1.9			19	CH2M-RD
COG-01	7/6/1987												20	ATL
COG-01	10/22/1987												23	ENSECO-CA

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
COG-01	4/7/1988												40	CH2M-RD
COG-01	1/11/1993	7.2	22.8	1113		745	<0.2	<0.2		<0.2	<0.2	<0.2		301603
COG-01	6/24/1993	7.3	25.3	1700		1300	<0.2	<0.2		<0.2	<0.2	<0.2		30697101
COG-01	10/25/1993	7.15	24.6	1770			<0.2	<0.2		0.4	<0.2	<0.2		31002201
COG-01	1/13/1994	7.02	20	1310		870	<0.2	<0.2		<0.2	<0.2	<0.2		40173301
COG-01	7/12/1994	7.21	26.5	1540		1040	<0.2	<0.5		<0.2	<0.2	<0.2		40776003
COG-01	1/24/1995	6.9	24.2	1380			<0.2	<0.2		<0.2	<0.2	<0.2		9501031944
COG-01	6/22/1995	7.24	25.6	1750		1160	< 1	< 1		< 1	< 1	< 1		9506-06046-5
COG-01	9/26/1995	7.14	25.3	1650		1120	< 1	< 1		< 1	< 1	< 1		9509-07704-6
COG-01	12/27/1995	7.08	23.6	1850		1320	< 1	< 1		< 1	< 1	< 1		9512-09221-21
COG-01	3/26/1996	7.37	24.4	1360		900	< 1	< 1		< 1	< 1	< 1		9603-01505-1
COG-01	6/20/1996	7.03	26.4	1580		1060	< 1	< 1		< 1	< 1	< 1		9606-03103-6
COG-01	9/24/1996	7.39	25.4	1610		1200	< 1	< 1		< 1	< 1	< 1		9609-04903-8
COG-01	12/27/1996	7.25	24.5	1440		950	< 1	< 1		< 1	< 1	< 1		9612-06704-1
COG-01	2/27/1997	7.3	24.4	1470			< 1	< 1		< 1	< 1	< 1		9702-01315-9
COG-01	6/17/1997	7.39	28.4	940		6300	< 1	< 1		< 1	< 1	< 1		9706-03832-12
COG-01	9/24/1997	7.29	25.9	1100		740	< 1	< 1		< 1	< 1	< 1		9709-06208-19
COG-01	12/19/1997	7.39	24.7	920		610	< 1	< 1		< 1	< 1	< 1		9712-08185-9
COG-01	2/26/1998	7.31	25.4	830		550	< 1	< 1		< 1	< 1	< 1		9802-01359-1
COG-01	4/27/1998	7.35	27.3	830		550	< 1	< 1		< 1	< 1	< 1		9804-02904-2
COG-01	9/11/1998	7.25	25.7	1170		790	< 1	< 1		< 1	< 1	< 1		9809-06400-1
COG-01	10/15/1998	7	24.9	1030		690	< 1	< 1		< 1	< 1	< 1		9810-07356-1
COG-01	2/9/1999	7.07	25.1	820		550	< 1	< 1		< 1	< 1	< 1		9902-01334-11
COG-01	4/13/1999	7.26	25.7	780		520	< 1	< 1		< 1	< 1	< 1		9904-03467-01
COG-01	7/27/1999	7.15	26	1340		900	< 1	< 1		< 1	< 1	< 1		9907-06764-001
COG-01	10/18/1999	7.39	25.3	1050		710	< 1	< 1		< 1	< 1	< 1		9910-09616-001
COG-01	2/9/2000	7.31	26	860		580	< 1	< 1		< 1	< 1	< 1		0002-01382-001
COG-01	4/11/2000	7.33	27	920		640	< 1	< 1		< 1	< 1	< 1		0004-03322-007
COG-01	8/1/2000	7.36	27.2	1060		710	< 1	< 1		< 1	< 1	< 1		0008-06763-001
COG-01	10/13/2000	7.35	26.4	920		620	< 1	< 1		< 1	< 1	< 1		0010-09034-001
COG-01	1/25/2001	7.15	24.1	890		590	< 1	< 1		< 1	< 1	< 1		0101-00696-001
COG-01	4/18/2001	7.34	27.8	900		610	< 1	< 1		< 1	< 1	< 1		0104-02938-003
COG-01	8/20/2001	7.2	27.9	1060		710	< 1	< 1		< 1	< 1	< 1		0108-06145-001
COG-01	11/20/2001	7.23	24.7	790		530	< 1	< 1		< 1	< 1	< 1		0111-08927-001
COG-01	1/23/2002	7.33	25.4	880		590	< 1	< 1		< 1	< 1	< 1		0201-00680-005
COG-01	5/30/2002	7.34	28.2	860		580	< 1	< 1		< 1	< 1	< 1		0205-04370-001
COG-01	9/19/2002	7.41	26.7	680		460	< 1	< 1		< 1	< 1	< 1		0209-07897-009
COG-01	10/28/2002	7.12	25.4	690		460	< 1	< 1		< 1	< 1	< 1		0210-09104-001
COG-01	3/31/2003	7.01	26.4	750		500	< 1	< 1	< 1	< 1	< 1	< 1		030302797001
COG-01	6/24/2003	7.18	26.6	1260		840	< 1	< 1	< 1	< 1	< 1	< 1		030605833001
COG-01	9/17/2003	7.2	29.7	1220		820	< 1	< 1	< 1	< 1	< 1	< 1		030908952003
COG-01	12/8/2003	7.61	22.5	1360		920	< 1	< 1	< 1	< 1	< 1	< 1		031212090002
COG-01	2/19/2004	7.43	21.9	1330		890	< 1	< 1	< 1	< 1	< 1	< 1		040201896001
COG-01	4/22/2004	7.6	24.5	1220		820	< 1	< 1	< 1	< 1	< 1	< 1		040404468001
COG-01	12/14/2004	7.28	24	1270		850	< 1	< 1	< 1	< 1	< 1	< 1		04121090-02D
COG-01	1/19/2005	7.18	26.7	1230		830	< 1	< 1	< 1	< 1	< 1	< 1		05011295-02D
COG-01	6/9/2005	7.2	25.4	1270		850	< 1	< 1	< 1	< 1	< 1	< 1		05060846-09D
COG-01	9/12/2005	7.2	27.7	1110		740	< 1	< 1	< 1	< 1	< 1	< 1		05090940-02D
COG-01	12/1/2005	7	26.7	1230		820	< 1	< 1	< 1	< 1	< 1	< 1		05120523-03D
COG-01	2/15/2006	7.1	26	1190		800	< 1	< 1	< 1	< 1	< 1	< 1		06021236-12D
COG-01	6/13/2006	7.01	29	1140		760	< 1	< 1	< 1	< 1	< 1	< 1		06060615-03D
COG-01	9/14/2006	7.15	28.5	1160		780	< 1	< 1	< 1	< 1	< 1	< 1		06090740-02D
COG-01	11/15/2006	7.15	24.5	1370		920								06110625-08D
COG-01	11/16/2006						< 1	< 1	< 1	< 1	< 1	< 1		06110625-08D
COG-01	3/14/2007	7.15	28.6	1260		840	< 1	< 1	< 1	< 1	< 1	< 1		07030679-04
COG-01	5/23/2007	7.01	25.2	1360		910	< 1	< 1	< 1	< 1	< 1	< 1		07050912-03
COG-01	8/22/2007	6.99	27.2	1330		890	< 1	< 1	< 1	< 1	< 1	< 1		07080915-09D
COG-01	10/25/2007	6.84	28	2160			<0.5	<0.5	<0.5	0.3	<0.5	0.3		198750-003
COG-01	8/14/2008						<0.5	<0.5	<0.5	0.2	<0.5	0.4		205346-006
COG-01	11/21/2008						<0.5	<0.5	<0.5	<0.5	<0.5	4.1		208077-001
COG-01	8/24/2009	7.28	27.3	1927		967	<0.5	<0.5	<0.5	0.1	<0.5	0.8		214393-015
COG-01	5/19/2010	7.03	25.1	846		1696	<0.5	<0.5	<0.5	0.2	<0.5	0.9		220306-004
COG-01	8/24/2010	7.78	28.7	1788		896	<0.5	<0.5	<0.5	0.1	<0.5	0.7		222046-001
COG-01	2/8/2011	7.35	25.08	1488	2.08		<0.5	<0.5	<0.5	0.4	<0.5	3.4		PGA SOUTH
COG-01	5/9/2011	7.22	26.4	2303	150		<0.5	<0.5	<0.5	0.2	<0.5	0.8		PGA SOUTH
COG-01	8/3/2011	6.15	26.59	2215			<0.5	<0.5	<0.5	0.1	<0.5	0.8		PGA SOUTH
COG-01	11/16/2011	7.16	24.61	1375	11.4		<0.5	<0.5	<0.5	0.1	<0.5	0.7	2.8	154540
COG-01	2/8/2012	7.23	24.3	2260	0.79		<0.5	<0.5	<0.5	<0.5	<0.5	0.7		189044
COG-01	8/13/2012	7.35	30.3	1898	2.48		<0.5	<0.5	<0.5	0.1	<0.5	0.9		189044
COG-02	7/1/1987									0.5				RMAL
COG-02NEW	3/8/1977												10	ADHS

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
COG-02NEW	10/5/1979												17	ATL
COG-02NEW	3/31/1982												28	ATL
COG-02NEW	6/22/1982									2.1				
COG-02NEW	8/11/1982									2.4				
COG-02NEW	9/2/1982												10	VERSAR
COG-02NEW	9/3/1982									2.4				VERSAR
COG-02NEW	6/15/1983									2.5			19	ATL
COG-02NEW	11/2/1983												14	ATL
COG-02NEW	5/17/1984									2.6				RMAL
COG-02NEW	6/22/1984									2				RMAL
COG-02NEW	10/1/1984									2				
COG-02NEW	10/22/1984									2			31	ENSECO-CA
COG-02NEW	4/1/1985									1.5				RMAL
COG-02NEW	7/1/1985									1.3				RMAL
COG-02NEW	10/1/1985									1.6				RMAL
COG-02NEW	1/6/1986									1.4				
COG-02NEW	4/1/1986									1.6			12	RMAL
COG-02NEW	4/2/1986									1.6				RMAL
COG-02NEW	8/20/1986												17	RMAL
COG-02NEW	10/2/1986									1.9				RMAL
COG-02NEW	11/3/1986												20	ATL
COG-02NEW	12/10/1986												26	RMAL
COG-02NEW	3/9/1987									1.3				
COG-02NEW	4/1/1987												26	RMAL
COG-02NEW	4/14/1987									8				RMAL
COG-02NEW	4/27/1987									1				CH2M-RD
COG-02NEW	6/24/1987									0.6			32	CH2M-RD
COG-02NEW	9/29/1987									1				
COG-02NEW	9/30/1987									0.9				
COG-02NEW	1/6/1988									1.2				
COG-02NEW	1/19/1988									0.7				
COG-02NEW	4/7/1988												30	CH2M-RD
COG-05	6/22/1982									0.3				RMAL
COG-05	5/17/1984									1.4				RMAL
COG-05	6/22/1984									2.1				RMAL
COG-05	4/1/1985									1.1				RMAL
COG-05	7/1/1985									5				RMAL
COG-05	10/1/1985									4.1				RMAL
COG-05	4/1/1986									9.2			27	RMAL
COG-05	8/20/1986									5			137	RMAL
COG-05	10/6/1986									7.7				RMAL
COG-05	11/3/1986												140	RMAL
COG-05	12/10/1986									5.4			167	RMAL
COG-05	12/11/1986									5.8				RMAL
COG-05	1/6/1987									1.1				RMAL
COG-05	3/10/1987									8.4				RMAL
COG-05	4/1/1987									8			20	RMAL
COG-05	4/14/1987									8				RMAL
COG-05	6/24/1987									8.9			19	RMAL
COG-05	6/25/1987									8.7				RMAL
COG-05	7/1/1987									8.3				RMAL
COG-05	9/29/1987									8.1			20	RMAL
COG-05	10/9/1987									11				RMAL
COG-05	1/6/1988									21				RMAL
COG-05	1/19/1988									6.8			50	RMAL
COG-05	4/7/1988									11			20	RMAL
COG-05	7/30/1991						<0.2	<0.2		6.3	<0.2	<0.2		107931
COG-05	2/3/1992	7.36	23.3	1860		1200	<0.2	<0.2		5.9	<0.2	<0.2		202510
COG-05	8/6/1992	7.23	26.4	3210		2140	<0.2	<0.2		14.9	<0.2	<0.2		208604
COG-05	7/6/1993	7.16	25.5	2790		1880	<0.2	<0.2		15	<0.2	<0.2		30755701
COG-05	3/1/1994	7.06	26.7	31		2230								40378305
COG-05	3/11/1994	7.23	25.4	2540		1700	<0.2	<0.2		11	<0.2	<0.2		40378305
COG-05	7/14/1994						<0.2	<0.5		15	<0.2	<0.2		40776010
COG-05	1/25/1995	7.2	24.2	2310		1600	1	<0.2		8.3	<0.2	<0.2		9501032408
COG-05	6/22/1995	7.38	25.6	3080		2050	< 1	< 1		11.9	< 1	< 1		9506-06046-4
COG-05	9/26/1995	7.17	25.3	3170		2110	< 1	< 1		14.7	< 1	< 1		9509-07704-2
COG-05	12/28/1995	7.23	24.7	2890		2390	< 1	< 1		11.5	< 1	< 1		9512-09221-46
COG-05	12/28/1995	7.23	24.7	2890		2390	< 1	< 1		11	< 1	< 1		9512-09221-45
COG-05	3/28/1996	7.24	24.1	3200		2130	< 1	< 1		16.4	< 1	< 1		9603-01561-9
COG-05	6/18/1996	7.2	26.6	3410		2270	< 1	< 1		16.9	< 1	< 1		9606-03052-5
COG-05	9/24/1996	6.99	24.3	3220		2370	< 1	< 1		20.2	< 1	< 1		9609-04903-15

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
COG-05	12/31/1996	7.06	22.7	2620		1760	< 1	< 1		13.7	< 1	< 1		9701-00017-1
COG-05	2/27/1997	7.07	24.4	2630			< 1	< 1		15.2	< 1	< 1		9702-01315-11
COG-05	6/18/1997	7.13	26.5	2310		1550	30.4	< 1		15	< 1	2.3		9706-03832-19
COG-05	6/18/1997	7.13	26.5	2310		1550	< 1	< 1		15	< 1	< 1		9706-03832-18
COG-05	9/25/1997	7.12	24.9	2400		1610	< 1	< 1		18.2	< 1	< 1		9709-06208-28
COG-05	12/19/1997	7.21	23.8	2070		1380	< 1	< 1		16	< 1	< 1		9712-08185-13
COG-05	2/27/1998	7.18	24.4	1860		1240	< 1	< 1		10.7	< 1	< 1		9803-01373-1
COG-05	4/27/1998	7.3	25.8	1940		1290	< 1	< 1		15.2	< 1	< 1		9804-02904-3
COG-05	8/13/1998									12			54	PHH00614
COG-05	8/13/1998	7.17	27.5	2010		1320	< 1	< 1		14.9	< 1	< 1		9808-05688-4
COG-05	9/3/1998	7.11	24.4	2150		1480	< 1	< 1		16.1	< 1	< 1	18	9809-06227-5
COG-05	10/30/1998	7	22.5	2080		1400	< 1	< 1		14.1	< 1	< 1		9811-07838-18
COG-05	2/9/1999	7.14	24.5	1950		1300	< 1	< 1		10.4	< 1	< 1		9902-01334-14
COG-05	4/13/1999	7.13	23.8	2080		1390	< 1	< 1		14.5	< 1	< 1		9904-03467-11
COG-05	7/13/1999	7.13	26.4	2260		1510	< 1	< 1		14.6	< 1	< 1		9907-06230-001
COG-05	10/18/1999	7.13	24.9	2190		1470	< 1	< 1		14.3	< 1	< 1		9910-09616-005
COG-05	2/4/2000	7.1	23	1910		1280	< 1	< 1		12.7	< 1	< 1		0002-01169-002
COG-05	4/11/2000	7.26	25.9	2220		1480	< 1	< 1		12.9	< 1	< 1		0004-03322-011
COG-05	4/11/2000	7.26	25.9	2220		1480	< 1	< 1		13.2	< 1	< 1		0004-03322-008
COG-05	7/20/2000	7.17	25.4	2300		1540	< 1	< 1		12.9	< 1	< 1		0007-06410-002
COG-05	10/13/2000	7.24	25.3	2380		1590	< 1	< 1		14.3	< 1	< 1		0010-09034-004
COG-05	1/25/2001	7.13	23.9	1940		1290	< 1	< 1		12.3	< 1	< 1		0101-00696-003
COG-05	4/19/2001	7.18	25.6	1900		1260	< 1	< 1		10.8	< 1	< 1		0104-02938-005
COG-05	9/28/2001	7.09	25.4	2360		1580	< 1	< 1		14.1	< 1	< 1		0110-07277-001
COG-05	11/23/2001	7.11	24.5	2130		1440	< 1	< 1		7.5	< 1	< 1		0111-08940-008
COG-05	1/23/2002	7.11	23.6	1860		1240	< 1	< 1		7.9	< 1	< 1		0201-00680-003
COG-05	5/22/2002	7.14	25.3	2390		1600	< 1	< 1		13.1	< 1	< 1		0205-04201-002
COG-05	9/19/2002	7.15	25.5	2340		1570	< 1	< 1		12.9	< 1	< 1		0209-07897-010
COG-05	10/30/2002	7.02	24.2	2220		1490	< 1	< 1		13.1	< 1	< 1		0210-09104-004
COG-05	3/31/2003	7.13	26.5	2140		1430	< 1	< 1	< 1	10.7	< 1	< 1		030302797003
COG-05	6/25/2003	7.12	25.3	2130		1430	< 1	< 1	< 1	13.7	< 1	< 1		030605833005
COG-05	9/17/2003	7.01	26.7	2220		1480	< 1	< 1	< 1	11.9	< 1	< 1		030908952004
COG-05	12/9/2003	7.19	19.4	2290		1540	< 1	< 1	< 1	10.4	< 1	< 1		031212090010
COG-05	2/19/2004	7.16	21.7	2220		1490	< 1	< 1	< 1	11	< 1	< 1		040201896002
COG-05	4/23/2004	7.14	22.2	2360		1570	< 1	< 1	< 1	9.7	< 1	< 1		040404468006
COG-05	9/22/2004	7.02	27	2100		1400	< 1	< 1	< 1	11	< 1	< 1		040911070007
COG-05	12/15/2004	7.03	23.1	2050		1370	< 1	< 1	< 1	9.5	< 1	< 1		04121090-04D
COG-05	1/27/2005	7.18	20	2200		1470	< 1	< 1	< 1	8.6	< 1	< 1		05011481-08D
COG-05	6/9/2005	7.17	24.8	1780		1180	< 1	< 1	< 1	8.2	< 1	< 1		05060846-10D
COG-05	9/13/2005	7.07	29	1920		1260	< 1	< 1	< 1	10	< 1	< 1		05090940-07D
COG-05	12/1/2005	7.04	24.6	1900		1270	< 1	< 1	< 1	8	< 1	< 1		05120523-02D
COG-05	2/16/2006	6.86	23	2070		1390	< 1	< 1	< 1	8.5	< 1	< 1		06021236-19D
COG-05	6/9/2006	7.16	28.1	1930		1290	< 1	< 1	< 1	8.4	< 1	< 1		06060404-10D
COG-05	9/14/2006	7.14	25.4	2450		1640	< 1	< 1	< 1	8.77	< 1	< 1		06090740-01D
COG-05	11/16/2006	7.05	23.9	2410		1620	< 1	< 1	< 1	8.21	< 1	< 1		06110625-07D
COG-05	3/14/2007	7.2	26.9	2010		1350	< 1	< 1	< 1	6.6	< 1	< 1		07030679-03
COG-05	5/23/2007	6.8	23.6	2580		1720	< 1	< 1	< 1	7.11	< 1	< 1		07050912-04
COG-05	8/22/2007	7.02	26.2	2450		1640	< 1	< 1	< 1	1.26	< 1	< 1		07080915-08D
COG-05	10/25/2007	6.71	24.4	4240			<0.5	<0.5	<0.5	7	<0.5	<0.5		198750-001
COG-05	11/24/2008	6.76	23.67	4920		3300	0.1	<0.5	<0.5	6.1	<0.5	<0.5		208170-001
COG-05	2/20/2009	6.89	24.7	4730	54.3	3.08	<0.5	<0.5	<0.5	4.2	<0.5	<0.5		210249-024
COG-05	5/21/2009	6.87	24.58	4607	5.69	3.09	0.5	0.5	0.5	8.6	0.5	0.5		212365-004
COG-05	8/28/2009	7.1	32.3	4720	199	3.16	<0.5	<0.5	<0.5	7.1	<0.5	<0.5		214574-019
COG-05	11/20/2009	7.02	23.82	4132	7.49	2.77	0.2	<0.5	<0.5	6.6	<0.5	<0.5		216790-005
COG-05	2/5/2010	6.95	26.46	804	9.42	0.539	0.1	<0.5	<0.5	8.6	<0.5	<0.5		218218-006
COG-05	5/4/2010	7.16	28.23	3911	17.3	2.62	<0.5	<0.5	<0.5	8.6	<0.5	<0.5	33	220017-011
COG-05	8/31/2010	7.27	25.99	1166	0.91	0.781	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		222178-004
COG-05	12/1/2010						<0.5	<0.5	<0.5	0.1	<0.5	<0.5		224639-041
COG-05	2/9/2011	691	22.26	3912	96.5		<0.5	<0.5	<0.5	8.4	<0.5	<0.5		PGA SOUTH
COG-05	5/9/2011	6.99	26.43	4285	162		<0.5	<0.5	<0.5	7.4	<0.5	<0.5		PGA SOUTH
COG-05	8/3/2011	6.55	25.58	4354	35.1		<0.5	<0.5	<0.5	7.6	<0.5	<0.5		PGA SOUTH
COG-05	11/16/2011	7.23	22.64	892	1.03		<0.5	<0.5	<0.5	0.1	<0.5	<0.5	< 5	154540
COG-05	2/8/2012	7	23.02	4910	26.8		<0.5	<0.5	<0.5	7.9	<0.5	<0.5	48	189044
COG-05	5/2/2012	6.96	25.52	3834	73.1		<0.5	<0.5	<0.5	7.5	<0.5	<0.5		189044
COG-05	8/13/2012	6.83	27.93	4055	11.5		<0.5	<0.5	<0.5	6.4	<0.5	<0.5		189044
COG-05	11/7/2012				5.67		<0.5	<0.5	0.1	1	<0.5	<0.5		189044
COG-05	2/6/2013				4.71		<0.5	<0.5	<0.5	2	<0.5	<0.5	69	189044
COG-05	5/7/2013				32		<0.5	<0.5	<0.5	3	<0.5	<0.5	300	PGA South
COG-05	8/7/2013				324		<0.5	<0.5	<0.5	5.4	<0.5	<0.5	690	247736-004
COG-05	11/6/2013				28.7		<0.5	<0.5	<0.5	2.8	<0.5	<0.5	83	250604-004
COG-06	10/21/1974												10	ATL

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
COG-06	3/8/1977												20	ADS
COG-06	1/11/1978												10	ATL
COG-06	8/4/1981												13	ATL
COG-06	11/24/1981									0.4				
COG-06	9/3/1982												20	VERSAR
COG-06	6/15/1983												12	ATL
COG-06	11/2/1983												13	ATL
COG-06	4/1/1984												10	RMAL
COG-06	10/22/1984												22	ENSECO-CA
COG-06	8/20/1986												12	RMAL
COG-06	10/6/1986									0.8				RMAL
COG-06	11/3/1986												47	ATL
COG-07	11/9/1977												30	ATL
COG-07	1/9/1978												30	ATL
COG-07	8/4/1981												41	ATL
COG-07	9/3/1982												40	VERSAR
COG-07	11/2/1983												40	ATL
COG-07	4/1/1986												37	RMAL
COG-07	11/3/1986												43	ATL
COG-07	1/11/1993	7.71	27.2	1420		950	<0.2	<0.2		<0.2	<0.2	<0.2		301603
COG-07	6/24/1993	7.54	29	2500		1350	<0.2	<0.2		<0.2	<0.2	<0.2		30697103
COG-07	10/25/1993	7.64	27.9	2460			<0.2	<0.2		0.4	<0.2	<0.2		31002202
COG-07	1/13/1994	7.02	22.2	2210		1470	<0.2	<0.2		<0.2	<0.2	<0.2		40173302
COG-07	7/12/1994	7.3	27.3	2030		1350	<0.2	<0.5		<0.2	<0.2	<0.2		40776005
COG-07	1/24/1995	6.9	28.3	2230			<0.2	<0.2		<0.2	<0.2	<0.2		9501031945
COG-07	6/22/1995	7.64	29.4	2110		1400	< 1	< 1		< 1	< 1	< 1		9506-06046-8
COG-07	6/22/1995	7.64	29.4	2110		1400	< 1	< 1		< 1	< 1	< 1		9506-06046-7
COG-07	9/26/1995	7.5	29.5	2000		1340	< 1	< 1		< 1	< 1	< 1		9509-07704-9
COG-07	12/27/1995	7.53	27.9	2370		1710	< 1	< 1		< 1	< 1	< 1		9512-09221-23
COG-07	3/26/1996	7.73	28.9	1650		1100	< 1	< 1		< 1	< 1	< 1		9603-01505-3
COG-07	6/20/1996	7.53	30.7	1760		1230	< 1	< 1		< 1	< 1	< 1		9606-03103-8
COG-07	9/24/1996	7.66	29.8	1670		1120	< 1	< 1		< 1	< 1	< 1		9609-04903-10
COG-07	12/27/1996	7.75	29	1600		1070	< 1	< 1		< 1	< 1	< 1		9612-06704-2
COG-07	2/27/1997	7.83	28.8	1610			< 1	< 1		< 1	< 1	< 1		9702-01315-10
COG-07	6/17/1997	7.66	32.2	900		1340	< 1	< 1		< 1	< 1	< 1		9706-03832-14
COG-07	9/24/1997	7.51	29.7	1500		1000	< 1	< 1		< 1	< 1	< 1		9709-06208-21
COG-07	12/19/1997	7.58	27.1	1450		970	< 1	< 1		< 1	< 1	< 1		9712-08185-11
COG-07	2/26/1998	7.63	22.2	1420		960	< 1	< 1		< 1	< 1	< 1		9802-01359-3
COG-07	4/27/1998	7.39	27.1	1330		890	< 1	< 1		< 1	< 1	< 1		9804-02904-1
COG-07	9/11/1998	7.6	28.1	1340		900	< 1	< 1		< 1	< 1	< 1		9809-06400-3
COG-07	10/15/1998	7.5	29.8	1410		940	< 1	< 1		< 1	< 1	< 1		9810-07356-3
COG-07	2/9/1999	7.52	23.4	1390		930	< 1	< 1		< 1	< 1	< 1		9902-01334-13
COG-07	4/13/1999	7.48	28.9	1380		910	< 1	< 1		< 1	< 1	< 1		9904-03467-02
COG-07	7/30/1999	7.1	25.2	3420		2290	< 1	< 1		< 1	< 1	< 1		9908-06887-001
COG-07	10/18/1999	7.51	30.1	1460		980	< 1	< 1		< 1	< 1	< 1		9910-09616-002
COG-07	2/4/2000	7.36	27	1460		970	< 1	< 1		< 1	< 1	< 1		0002-01169-004
COG-07	4/11/2000	7.33	27.9	1410		930	< 1	< 1		< 1	< 1	< 1		0004-03322-009
COG-07	7/20/2000	7.15	27.8	1530		1020	< 1	< 1		< 1	< 1	< 1		0007-06410-001
COG-07	10/13/2000	7.11	28.1	1520		1020	< 1	< 1		< 1	< 1	< 1		0010-09034-002
COG-07	1/25/2001	6.97	25	1590		1010	< 1	< 1		< 1	< 1	< 1		0101-00696-002
COG-07	4/18/2001	7.9	28.8	1440		970	< 1	< 1		< 1	< 1	< 1		0104-02938-004
COG-07	8/20/2001	8.13	28.9	1300		870	< 1	< 1		< 1	< 1	< 1		0108-06145-002
COG-07	11/20/2001	7.85	25.2	1260		850	< 1	< 1		< 1	< 1	< 1		0111-08927-002
COG-07	1/23/2002	7.96	25.8	1170		790	< 1	< 1		< 1	< 1	< 1		0201-00680-006
COG-07	5/30/2002	7.98	29.9	1020		680	< 1	< 1		< 1	< 1	< 1		0205-04370-002
COG-07	9/19/2002	8.62	28.2	980		650	< 1	< 1		< 1	< 1	< 1		0209-07897-011
COG-07	12/11/2002	8.24	27.1	930		620	< 1	< 1		< 1	< 1	< 1		0212-10571-001
COG-07	3/31/2003	7.79	28.1	910		610	< 1	< 1	< 1	< 1	< 1	< 1		030302797002
COG-07	3/10/2004	7.24	28.7	1030		680	< 1	< 1	< 1	< 1	< 1	< 1		040302676009
COG-07	1/19/2005	8.04	27	1050		710	< 1	< 1	< 1	< 1	< 1	< 1		05011295-01D
COG-11	6/7/1983												16	ATL
COG-11	10/25/1984									3			39	ENSECO-CA
COG-11	4/5/1986									0.2			15	RMAL
COG-11	4/6/1986									1.8				RMAL
COG-11	4/7/1986									1.5				RMAL
COG-11	8/20/1986									2			17	RMAL
COG-11	12/10/1986												15	RMAL
COG-11	10/12/1987									0.7				
COG-11	10/19/1987												20	RMAL
COG-11	4/18/1988												20	BC LABS
COG-11	1/29/1993	7.41	24.4	1170		780	<0.2	<0.2		<0.2	<0.2	<0.2		30194301

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
COG-11	1/30/1993	7.41	24.4	1170		780	<0.2	<0.2		<0.2	<0.2	<0.2		30194302
COG-11	6/24/1993	7.45	25.9	1350		1250	<0.2	<0.2		<0.2	<0.2	<0.2		30697102
COG-11	10/25/1993	7.57	25.2	1410			<0.2	<0.2		0.3	<0.2	<0.2		31002203
COG-11	12/3/1993	7.63	25.4	1240		820	<0.2	<0.2		0.5	<0.2	<0.2		31260901
COG-11	1/13/1994	7.03	20.5	1090		730	<0.2	<0.2		0.3	<0.2	<0.2		40173303
COG-11	2/15/1994	7.39	24.8	1270		850	<0.2	<0.2		0.3	<0.2	<0.2		40285101
COG-11	3/25/1994	7.49	25.2	1290		860	<0.2	<0.2		0.2	<0.2	<0.2		40308705
COG-11	4/28/1994	7.39	24.9	1220		810	<0.2	<0.2		0.6	<0.2	<0.2		404110
COG-11	5/27/1994	7.38	26.8	1210		800	<0.2	<0.2		<0.2	<0.2	<0.2		40511003
COG-11	6/9/1994	7.35	26.8	1180		790	<0.2	<0.2		<0.2	<0.2	<0.2		40667313
COG-11	7/12/1994	7.25	27	1130		780	<0.2	<0.5		<0.2	<0.2	<0.2		40776004
COG-11	8/26/1994	7.23	27.1	1160		790	<0.2	<0.2		0.2	<0.2	<0.2		40804803
COG-11	9/27/1994						<0.2	< 1		0.4	<0.2	<0.5		40938605
COG-11	10/13/1994						<0.2	<0.2		<0.2	<0.2	<0.2		9410012835
COG-11	11/17/1994						<0.2	<0.2		<0.2	<0.2	<0.2		9411020402
COG-11	12/22/1994						<0.2	<0.2		<0.2	<0.2	<0.2		9412026723
COG-11	1/10/1995	7.2	25.5	1480			<0.2	<0.2		<0.2	<0.2	<0.2		9501029237
COG-11	2/9/1995						<0.2	<0.2		<0.2	<0.2	<0.2		9502035681
COG-11	5/10/1995	7.53	27.5	1280		850	< 1	< 1		< 1	< 1	< 1		9505-5294-1
COG-11	6/22/1995	7.55	26.4	1300		870	< 1	< 1		< 1	< 1	< 1		9506-06046-6
COG-11	9/26/1995	7.18	26.5	1310		890	< 1	< 1		< 1	< 1	< 1		9509-07704-8
COG-11	9/26/1995	7.18	26.5	1310		890	< 1	< 1		< 1	< 1	< 1		9509-07704-7
COG-11	12/27/1995	7.14	24	1840		1310	< 1	< 1		< 1	< 1	< 1		9512-09221-22
COG-11	3/26/1996	7.33	25.5	1250		840	< 1	< 1		< 1	< 1	< 1		9603-01505-2
COG-11	6/20/1996	7.26	26.9	1350		900	< 1	< 1		< 1	< 1	< 1		9606-03103-7
COG-11	9/24/1996	7.69	25.4	1130		770	< 1	< 1		< 1	< 1	< 1		9609-04903-9
COG-11	12/27/1996	7.32	24.8	1460		1400	< 1	< 1		1.1	< 1	< 1		9612-06704-3
COG-11	3/14/1997	7.36	26.1	970		650	< 1	< 1		< 1	< 1	< 1		9703-01631-1
COG-11	6/17/1997	7.66	28.8	930		630	< 1	< 1		< 1	< 1	< 1		9706-03832-13
COG-11	9/24/1997	7.45	26.4	1000		670	< 1	< 1		1.2	< 1	< 1		9709-06208-20
COG-11	12/19/1997	7.4	24.7	990		660	< 1	< 1		1.3	< 1	< 1		9712-08185-10
COG-11	3/10/1998	7.58	27.4	860		570	< 1	< 1		< 1	< 1	< 1		9803-01614-5
COG-11	4/20/1998	7.47	26.5	890		600	< 1	< 1		< 1	< 1	< 1		9804-02699-1
COG-11	5/14/1998	7.65	27	880		590	< 1	< 1		< 1	< 1	< 1		9805-03347-1
COG-11	6/15/1998	7.29	27.1	830		550	< 1	< 1		< 1	< 1	< 1		9806-04079-1
COG-11	7/9/1998	7.23	27.3	1000		670	< 1	< 1		< 1	< 1	< 1		9807-04743-1
COG-11	8/14/1998	7.35	27.6	830		560	< 1	< 1		< 1	< 1	< 1		9808-05688-8
COG-11	9/11/1998	7.4	25.9	900		610	< 1	< 1		< 1	< 1	< 1		9809-06400-2
COG-11	10/15/1998	7	26.4	880		590	< 1	< 1		< 1	< 1	< 1		9810-07356-2
COG-11	11/18/1998	7.46	24.6	1000		670	< 1	< 1		1	< 1	< 1		9811-08434-004
COG-11	12/14/1998	7.47	25.7	870		590	< 1	< 1		< 1	< 1	< 1		9812-09087-001
COG-11	1/7/1999	7.4	26.1	860		580	< 1	< 1		< 1	< 1	< 1		9901-00233-07
COG-11	2/9/1999	7.24	24.3	1060		710	< 1	< 1		< 1	< 1	< 1		9902-01334-12
COG-11	3/10/1999	7.38	26.1	1010		670	< 1	< 1		1.1	< 1	< 1		9903-02392-007
COG-11	4/12/1999	7.5	27.1	880		590	< 1	< 1		< 1	< 1	< 1		9904-03402-01
COG-11	5/11/1999	7.51	26.2	870		580	< 1	< 1		< 1	< 1	< 1		9905-04269-07
COG-11	6/9/1999	7.31	26.4	980		630	< 1	< 1		< 1	< 1	< 1		9906-05238-05
COG-11	7/13/1999	7.66	26.6	860		570	< 1	< 1		< 1	< 1	< 1		9907-06230-002
COG-11	8/12/1999	7.68	26.3	840		560	< 1	< 1		< 1	< 1	< 1		9908-07333-001
COG-11	9/17/1999	7.6	26.2	870		580	< 1	< 1		< 1	< 1	< 1		9909-08493-001
COG-11	10/14/1999	7.31	25.4	1100		740	< 1	< 1		< 1	< 1	< 1		9910-09459-001
COG-11	11/10/1999	7.2	24	1170		780	< 1	< 1		< 1	< 1	< 1		9911-10331-001
COG-11	12/8/1999	7.41	24.3	1140		760	< 1	< 1		1.4	< 1	< 1		9912-11043-001
COG-11	1/10/2000	7.53	25.6	890		590	< 1	< 1		< 1	< 1	< 1		0001-00301-003
COG-11	2/4/2000	7.32	25.4	860		580	< 1	< 1		< 1	< 1	< 1		0002-01169-003
COG-11	3/7/2000	7.18	25.3	1110		750	< 1	< 1		1.6	< 1	< 1		0003-2088-003
COG-11	4/11/2000	7.48	27.8	880		580	< 1	< 1		< 1	< 1	< 1		0004-03322-010
COG-11	5/10/2000	7.64	28.3	870		580	< 1	< 1		< 1	< 1	< 1		0005-04330-008
COG-11	6/9/2000	7.27	25.4	880		590	< 1	< 1		< 1	< 1	< 1		0006-05131-003
COG-11	7/10/2000	7.59	28.4	860		580	< 1	< 1		< 1	< 1	< 1		0007-05952-005
COG-11	8/11/2000	7.69	27.8	880		590	< 1	< 1		< 1	< 1	< 1		0008-07186-001
COG-11	9/11/2000	7.49	28.8	910		610	< 1	< 1		< 1	< 1	< 1		0009-07995-005
COG-11	10/10/2000	7.36	27.6	940		630	< 1	< 1		< 1	< 1	< 1		0010-08886-005
COG-11	11/15/2000	7.32	24.1	1230		820	< 1	< 1		1.1	< 1	< 1		0011-09900-007
COG-11	12/8/2000	7.35	27.4	890		590	< 1	< 1		< 1	< 1	< 1		0012-10488-003
COG-11	1/9/2001	7.37	26	920		620	< 1	< 1		< 1	< 1	< 1		0101-00226-008
COG-11	2/15/2001	7.58	26.2	890		600	< 1	< 1		< 1	< 1	< 1		0102-01213-003
COG-11	3/13/2001	7.51	27.3	930		620	< 1	< 1		< 1	< 1	< 1		0103-01881-003
COG-11	4/10/2001	7.51	25.1	1070		720	< 1	< 1		< 1	< 1	< 1		0104-02624-003
COG-11	5/9/2001	7.41	26	1240		830	< 1	< 1		1.5	< 1	< 1		0105-03408-001
COG-11	6/7/2001	7.43	27.7	1190		800	< 1	< 1		1.4	< 1	< 1		0106-04180-005

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
COG-11	7/10/2001	7.66	28.5	900		600	< 1	< 1		< 1	< 1	< 1		0107-04949-005
COG-11	8/10/2001	7.47	27.8	1260		840	< 1	< 1		1.3	< 1	< 1		0108-05840-003
COG-11	9/10/2001	7.46	28.6	850		570	< 1	< 1		< 1	< 1	< 1		0109-06717-001
COG-11	10/11/2001	7.62	27.3	910		610	< 1	< 1		< 1	< 1	< 1		0110-07730-003
COG-11	11/12/2001	7.57	27.4	890		600	< 1	< 1		< 1	< 1	< 1		0111-08678-001
COG-11	12/14/2001	7.31	22.9	1260		850	< 1	< 1		< 1	< 1	< 1		0112-09595-001
COG-11	1/14/2002	7.31	25.8	1210		820	< 1	< 1		1.1	< 1	< 1		0201-00427-001
COG-11	2/12/2002	7.3	24.9	1230		820	< 1	< 1		1.1	< 1	< 1		0202-01294-001
COG-11	3/13/2002	7.48	25.2	980		660	< 1	< 1		< 1	< 1	< 1		0203-02102-001
COG-11	4/11/2002	7.43	25.4	1140		760	< 1	< 1		< 1	< 1	< 1		0204-03063-001
COG-11	5/9/2002	7.53	28.1	820		550	< 1	< 1		< 1	< 1	< 1		0205-03823-003
COG-11	6/12/2002	7.34	26.1	1190		800	< 1	< 1		< 1	< 1	< 1		0206-04893-001
COG-11	7/11/2002	7.45	28.2	1110		740	< 1	< 1		< 1	< 1	< 1		0207-05800-003
COG-11	8/13/2002	7.39	28.3	1110		740	< 1	< 1		< 1	< 1	< 1		0208-06811-001
COG-11	9/10/2002	7.4	27.9	1170		790	< 1	< 1		< 1	< 1	< 1		0209-07587-003
COG-11	10/11/2002	7.28	26.7	1090		730	< 1	< 1		1.1	< 1	< 1		0210-08611-001
COG-11	11/5/2002	7.32	26.4	1100		740	< 1	< 1		< 1	< 1	< 1		0211-09350-010
COG-11	12/11/2002	7.09	25.2	1130		760	< 1	< 1		< 1	< 1	< 1		0212-10571-002
COG-11	3/12/2003						< 1	< 1	< 1	< 1	< 1	< 1		030302279012
COG-11	4/11/2003						< 1	< 1	< 1	< 1	< 1	< 1		030403290001
COG-11	5/14/2003						< 1	< 1	< 1	< 1	< 1	< 1		030504425001
COG-11	6/13/2003	7.44	27.8	1110		740	< 1	< 1	< 1	< 1	< 1	< 1		030605405003
COG-11	7/9/2003	7.4	27.5	1140		760	< 1	< 1	< 1	< 1	< 1	< 1		030706280001
COG-11	8/15/2003	7.49	29	1060		710	< 1	< 1	< 1	< 1	< 1	< 1		030807651005
COG-11	9/11/2003	7.48	28.3	1100		740	< 1	< 1	< 1	1	< 1	< 1		030908692003
COG-11	10/15/2003	7.45	29.4	1080		730	< 1	< 1	< 1	< 1	< 1	< 1		031009963010
COG-11	11/13/2003	7.44	25.4	1100		740	< 1	< 1	< 1	1	< 1	< 1		031111068001
COG-11	12/10/2003	7.52	21.3	1170		780	< 1	< 1	< 1	1	< 1	< 1		031212090020
COG-11	1/16/2004	7.53	24.6	1140		470	< 1	< 1	< 1	< 1		< 1		040100605005
COG-11	2/12/2004	7.48	24	1330		890	< 1	< 1	< 1	1.2		< 1		040201599005
COG-11	8/10/2004									<0.5		< 2		Arcadis
COG-11	9/21/2004	7.33	27.8	1020		680	< 1	< 1	< 1	0.98	< 1	< 1		040911070005
COG-11	11/10/2004									< 1		< 2		Arcadis
COG-11	11/17/2004	7.21	24.7	1160		770	< 1	< 1	< 1	< 1	< 1	< 1		04111285-01D
COG-11	12/9/2004	7.37	21.7	1230		820	< 1	< 1	< 1	1	< 1	< 1		04120828-05D
COG-11	1/11/2005	7.39	24	1180		790	< 1	< 1	< 1	< 1	< 1	< 1		05011033-01D
COG-11	2/4/2005									1.1		< 2		Arcadis
COG-11	2/10/2005	7.37	22.3	1250		840	< 1	< 1	< 1	1	< 1	< 1		05021023-02D
COG-11	3/9/2005	7.35	23.6	1140		760	< 1	< 1	< 1	1	< 1	< 1		05030895-10D
COG-11	4/12/2005	7.23	27.8	1080		730	< 1	< 1	< 1	1.1	< 1	< 1		05041031-01D
COG-11	5/10/2005									1		2.2		Arcadis
COG-11	5/11/2005	7.38	24.6	1150		770	< 1	< 1	< 1	1.1	< 1	< 1		05050902-04D
COG-11	6/9/2005	7.45	26.5	1140		770	< 1	< 1	< 1	1	< 1	< 1		05060846-08D
COG-11	7/12/2005	7.34	28.9	1040		690	< 1	< 1	< 1	< 1	< 1	< 1		05070997-06D
COG-11	8/11/2005	7.39	26.5	1170		790	< 1	< 1	< 1	< 1	< 1	< 1		05080907-11D
COG-11	9/12/2005	7.47	26.4	1060		710	< 1	< 1	< 1	1.4	< 1	< 1		05090940-01D
COG-11	10/12/2005	7.36	29.1	950		630	< 1	< 1	< 1	< 1	< 1	< 1		05101155-06D
COG-11	11/10/2005	7.26	26.5	1130		760	< 1	< 1	< 1	1.2	< 1	< 1		05111011-05D
COG-11	12/7/2005	7.12	24.4	1150		760	< 1	< 1	< 1	1.2	< 1	< 1		05120894-05D
COG-11	1/5/2006	7.11	24.9	1160		770	< 1	< 1	< 1	1.1	< 1	< 1		06010681-02D
COG-11	2/15/2006	7.09	25.9	1140		760	< 1	< 1	< 1	< 1	< 1	< 1		06021236-13D
COG-11	3/13/2006	6.88	25.4	1110		740	< 1	< 1	< 1	1.2	< 1	< 1		06031132-05D
COG-11	4/11/2006	7.19	26.5	1150		770	< 1	< 1	< 1	1	< 1	< 1		06041030-01D
COG-11	5/11/2006	7.07	29	1030		680	< 1	< 1	< 1	1.1	< 1	< 1		06050997-07D
COG-11	6/13/2006	7.03	28.6	1080		730	< 1	< 1	< 1	1.2	< 1	< 1		06060615-04D
COG-11	7/19/2006	7.39	28.1	1080		720	< 1	< 1	< 1	1.1	< 1	< 1		06070722-02D
COG-11	8/14/2006	7.11	28.5	1050		700	< 1	< 1	< 1	1.1	< 1	< 1		06080585-01D
COG-11	9/12/2006	7.29	26.7	1240		830	< 1	< 1	< 1	1.16	< 1	< 1		06090520-07D
COG-11	10/13/2006	7.28	25.8	1300		860	< 1	< 1	< 1	< 1	< 1	< 1		06100597-03D
COG-11	11/13/2006	7.29	24.5	1190		800	< 1	< 1	< 1	1.06	< 1	< 1		06110625-03D
COG-11	12/12/2006	7.21	25.5	1290		800	< 1	< 1	< 1	1.06	< 1	< 1		06120441-08D
COG-11	1/11/2007	7.33	26.1	1170		780	< 1	< 1	< 1	1.14	< 1	< 1		07010389-01
COG-11	2/12/2007	7.34	24	1240		830	< 1	< 1	< 1	1.08	< 1	< 1		07020516-01
COG-11	5/14/2007	7.23	27.5	1330		890	< 1	< 1	< 1	1.28	< 1	< 1		07050624-01
COG-11	6/14/2007	7.21	29.1	1150		770	< 1	< 1	< 1	1.07	< 1	< 1		07060543-04
COG-11	7/13/2007	7.05	26.4	1200		820	< 1	< 1	< 1	1.23	< 1	< 1		07070476-12D
COG-11	8/8/2007	6.93	27.2	1290		860	< 1	< 1	< 1	1.17	< 1	< 1		07080415-01D
COG-11	9/12/2007	7.07	27.9	1210		800	< 1	< 1	< 1	1.13	< 1	< 1		07090478-07D
COG-11	10/25/2007	7.15	26.9	1960			<0.5	<0.5	<0.5	0.8	<0.5	<0.5		198750-002
COG-11	11/7/2007						<0.5	<0.5	<0.5	0.6	<0.5	<0.5		199171-010
COG-11	12/6/2007						<0.5	<0.5	<0.5	0.8	<0.5	<0.5		199822-009

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
COG-11	2/12/2008						<0.5	<0.5	<0.5	0.8	<0.5	<0.5		201202-007
COG-11	3/12/2008						<0.5	<0.5	<0.5	1	<0.5	<0.5		201931001
COG-11	4/17/2008						<0.5	<0.5	<0.5	0.9	<0.5	<0.5		202698-001
COG-11	5/13/2008						<0.5	<0.5	<0.5	0.8	<0.5	<0.5		203270-005
COG-11	6/17/2008						<0.5	<0.5	<0.5	1	<0.5	<0.5		204079-005
COG-11	7/16/2008						<0.5	<0.5	<0.5	0.7	<0.5	<0.5		204674-009
COG-11	8/14/2008						<0.5	<0.5	<0.5	1	<0.5	<0.5	14	205346-005
COG-11	9/11/2008						<0.5	<0.5	<0.5	1	<0.5	<0.5		206007-008
COG-11	10/7/2008						<0.5	<0.5	<0.5	0.9	<0.5	<0.5		206689-011
COG-11	11/21/2008						<0.5	<0.5	<0.5	0.7	<0.5	<0.5		208077-002
COG-11	2/20/2009	7.34	25.1	1856		928	<0.5	<0.5	<0.5	0.6	<0.5	<0.5		210262-003
COG-11	3/12/2009	7.05	26.2	1.813		0.909	<0.5	<0.5	<0.5	0.7	<0.5	<0.5		210629-007
COG-11	4/14/2009	7.09	24.1	1831		913	<0.5	<0.5	<0.5	0.7	<0.5	<0.5		211506-009
COG-11	8/24/2009	7.67	27.7	1699		851	<0.5	<0.5	<0.5	0.6	<0.5	<0.5		214393-016
COG-11	9/17/2009						<0.5	<0.5	<0.5	0.8	<0.5	<0.5		215010-010
COG-11	10/21/2009						<0.5	<0.5	<0.5	0.7	<0.5	<0.5		215908-006
COG-11	11/18/2009	6.98	23.6	1600		797	<0.5	<0.5	<0.5	0.6	<0.5	<0.5		216662-007
COG-11	12/3/2009	6.48	22.9	1607		785	<0.5	<0.5	<0.5	0.7	<0.5	<0.5		217016-015
COG-11	1/14/2010						<0.5	<0.5	<0.5	0.8	<0.5	<0.5		217772-006
COG-11	2/24/2010	6.79	24.3	1474		738	<0.5	<0.5	<0.5	0.6	<0.5	<0.5		218482-012
COG-11	4/14/2010						<0.5	<0.5	<0.5	0.6	<0.5	<0.5		219502-009
COG-11	5/19/2010	7.04	25.9	720		1444	<0.5	<0.5	<0.5	0.6	<0.5	<0.5		220306-005
COG-11	6/22/2010						<0.5	<0.5	<0.5	0.7	<0.5	<0.5		220905-007
COG-11	7/15/2010	7.73	28.2	1415		708	<0.5	<0.5	<0.5	0.7	<0.5	<0.5		221286-009
COG-11	8/24/2010	7.8	28.5	1523		765	<0.5	<0.5	<0.5	0.5	<0.5	<0.5		222046-002
COG-11	2/3/2011	7.56	19.8	2151	0.65		<0.5	<0.5	<0.5	0.6	<0.5	<0.5		PGA SOUTH
COG-11	3/1/2011						<0.5	<0.5	<0.5	0.6	<0.5	<0.5		PGA SOUTH
COG-11	4/5/2011						<0.5	<0.5	<0.5	0.6	<0.5	<0.5		PGA SOUTH
COG-11	5/3/2011						<0.5	<0.5	<0.5	0.7	<0.5	<0.5		PGA SOUTH
COG-11	6/2/2011						<0.5	<0.5	<0.5	0.7	<0.5	<0.5		PGA SOUTH
COG-11	7/5/2011						<0.5	<0.5	<0.5	0.6	<0.5	<0.5		PGA SOUTH
COG-11	8/1/2011						<0.5	<0.5	<0.5	0.6	<0.5	<0.5		PGA SOUTH
COG-11	9/7/2011						<0.5	<0.5	<0.5	0.7	<0.5	<0.5		PGA SOUTH
COG-11	10/2/2011						<0.5	<0.5	<0.5	0.6	<0.5	<0.5		154540
COG-11	11/7/2011						<0.5	<0.5	<0.5	0.5	<0.5	<0.5		PGA SOUTH
COG-11	12/7/2011						<0.5	<0.5	<0.5	0.7	<0.5	<0.5		189044
COG-11	1/4/2012	7.89	23.04	1945	2.99		<0.5	<0.5	<0.5	0.5	<0.5	<0.5		189044
COG-11	2/2/2012	7.57	24.48	1861	0.17		<0.5	<0.5	<0.5	0.8	<0.5	<0.5		189044
COG-11	3/1/2012						<0.5	<0.5	<0.5	0.7	<0.5	<0.5		189044
COG-11	4/2/2012						<0.5	<0.5	<0.5	0.6	<0.5	<0.5		189044
COG-11	5/2/2012	7.35	24.13	1620	0.53		<0.5	<0.5	<0.5	0.7	<0.5	<0.5		189044
COG-11	6/4/2012	7.69	23.79	1659	0.2		<0.5	<0.5	<0.5	0.7	<0.5	<0.5		189044
COG-11	7/2/2012	7.49	27.78	1558	0.44		<0.5	<0.5	<0.5	0.5	<0.5	<0.5		189044
COG-11	8/2/2012	7.64	26.37	1522	0.55		<0.5	<0.5	<0.5	0.6	<0.5	<0.5		189044
COG-11	9/4/2012	7.53	29.68	2047	0.42		<0.5	<0.5	<0.5	0.5	<0.5	<0.5		189044
COG-11	10/1/2012	7.09	27.76	2000	0.59		<0.5	<0.5	<0.5	0.6	<0.5	<0.5		189044
COG-11	11/5/2012	8.05	27.29	1495	0.95		<0.5	<0.5	<0.5	0.5	<0.5	<0.5		189044
COG-11	12/3/2012	7.62	27.38	1972	5.71		<0.5	<0.5	<0.5	0.6	<0.5	<0.5		189044
COG-11	1/2/2013						<0.5	<0.5	<0.5	1.1	<0.5	<0.5		189044
COG-11	2/4/2013	7.59	26.14	2084	2.72		<0.5	<0.5	<0.5	0.6	<0.5	<0.5		189044
COG-11	3/4/2013						<0.5	<0.5	<0.5	0.5	<0.5	<0.5		189044
COG-11	4/1/2013						<0.5	<0.5	<0.5	0.6	<0.5	<0.5		189044
COG-11	5/6/2013	7.26	27.57	1934	0.64		<0.5	<0.5	<0.5	0.6	<0.5	<0.5		PGA South
COG-11	6/3/2013						<0.5	<0.5	<0.5	0.5	<0.5	<0.5		39049-103
COG-11	7/1/2013						<0.5	<0.5	<0.5	0.5 J	<0.5	<0.5		246655-007
COG-11	8/7/2013						<0.5	<0.5	<0.5	0.5	<0.5	<0.5		247738-007
COG-11	9/4/2013						<0.5	<0.5	<0.5	0.6	<0.5	<0.5		248701-007
COG-11	10/2/2013						<0.5	<0.5	<0.5	0.5	<0.5	<0.5		249598-007
COG-11	11/5/2013						<0.5	<0.5	<0.5	0.5 J	<0.5	<0.5		250558-007
COG-11	12/2/2013						<0.5	<0.5	<0.5	1.0	<0.5	<0.5		251273-007
COG-20	10/6/1987									1.4				
COG-20	2/2/2006									< 1				
COG-20	4/7/2006									< 1				
COG-20	6/28/2007									2.3				
COG-20	8/24/2007									2.2				
COG-20	11/11/2007									2				
COG-20	3/1/2008									< 1				
COG-20	4/1/2008									2.1				
COG-20	5/15/2008									2				
COG-20	6/2/2008									2.2				
COG-20	7/3/2008									2.1				

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
COG-20	8/6/2008									2.2				
COG-20	2/20/2009	7.31	24.5	3050		1.52	<0.5	<0.5	<0.5	1.8	<0.5	<0.5		210262-002
COG-20	3/12/2009	6.98	24.4	1.49		0.746	<0.5	<0.5	0.1	2.3	<0.5	<0.5		210629-008
COG-20	4/14/2009						<0.5	<0.5	<0.5	2.3	<0.5	<0.5		211506-010
COG-20	4/15/2009	7.02	23	3030		1560								211506-010
COG-20	5/27/2009						<0.5	<0.5	0.1	2.1	<0.5	<0.5		212433-006
COG-20	7/16/2009	7	26.5	2920		1.46	<0.5	<0.5	0.1	2	<0.5	<0.5		213608-010
COG-20	8/24/2009	7.17	26.4	3280		1.64	<0.5	<0.5	<0.5	2.1	<0.5	<0.5		214393-017
COG-20	9/17/2009						<0.5	<0.5	0.1	2.5	<0.5	<0.5		215010-009
COG-20	10/21/2009						<0.5	<0.5	<0.5	2	<0.5	<0.5		215908-007
COG-20	11/18/2009	6.98	25	3200		1.6	<0.5	<0.5	<0.5	2	<0.5	<0.5		216662-008
COG-20	12/3/2009	6.75	23.2	3370		1.68	<0.5	<0.5	<0.5	1.5	<0.5	<0.5		217016-016
COG-20	1/14/2010						<0.5	<0.5	<0.5	1.7	<0.5	<0.5		217772-007
COG-20	2/24/2010	6.61	23.3	3220		1.6	<0.5	<0.5	<0.5	2.1	<0.5	<0.5		218482-013
COG-20	3/9/2010						<0.5	<0.5	<0.5	2.4	<0.5	<0.5		218712-009
COG-20	4/14/2010						<0.5	0.1	<0.5	2.1	<0.5	<0.5		219502-010
COG-20	5/19/2010	6.97	25.2	3190		1.59	<0.5	<0.5	<0.5	1.8	<0.5	<0.5		220306-006
COG-20	6/22/2010						<0.5	<0.5	<0.5	2.6	<0.5	<0.5		220905-008
COG-20	7/15/2010	7.64	27	3140		1.57	<0.5	<0.5	<0.5	2.7	<0.5	<0.5		221286-010
COG-20	8/24/2010	7.66	28.4	3270		7.63	<0.5	<0.5	<0.5	2.1	<0.5	<0.5		222046-003
COG-20	10/19/2010						<0.5	<0.5	<0.5	1.3	<0.5	<0.5		223344-005
COG-20	11/4/2010						<0.5	<0.5	0.1	2.1	<0.5	<0.5		223810-001
COG-20	12/1/2010						<0.5	<0.5	0.2	2.1	<0.5	<0.5		224639-042
COG-20	1/4/2011						0.5	0.5	0.5	2	0.5	0.5		PGA SOUTH
COG-20	2/3/2011	7.23	17.78	3360	0.75		<0.5	<0.5	<0.5	2.2	<0.5	<0.5		PGA SOUTH
COG-20	3/1/2011						<0.5	<0.5	<0.5	0.3	<0.5	<0.5		PGA SOUTH
COG-20	4/5/2011						<0.5	<0.5	<0.5	0.4	<0.5	<0.5		PGA SOUTH
COG-20	5/3/2011						<0.5	<0.5	0.2	2.5	<0.5	<0.5		PGA SOUTH
COG-20	6/2/2011						<0.5	<0.5	0.1	2.4	<0.5	<0.5		PGA SOUTH
COG-20	7/5/2011						<0.5	<0.5	<0.5	2	<0.5	<0.5		PGA SOUTH
COG-20	8/1/2011						<0.5	<0.5	<0.5	2.3	<0.5	<0.5		PGA SOUTH
COG-20	9/7/2011						<0.5	<0.5	<0.5	2.3	<0.5	<0.5		PGA SOUTH
COG-20	10/2/2011						<0.5	<0.5	<0.5	2.3	<0.5	<0.5		154540
COG-20	12/7/2011						<0.5	<0.5	<0.5	0.6	<0.5	<0.5		189044
COG-20	1/4/2012	7.66	19.6	3515	11.1		<0.5	<0.5	<0.5	0.5	<0.5	<0.5		189044
COG-20	2/2/2012	7.2	23.22	3398	1.22		<0.5	<0.5	<0.5	2.4	<0.5	<0.5		189044
COG-20	3/1/2012						<0.5	<0.5	0.2	3.3	<0.5	<0.5		189044
COG-20	4/2/2012						<0.5	<0.5	<0.5	2.3	<0.5	<0.5		189044
COG-20	5/2/2012	7.36	23.6	3035	1.33		<0.5	<0.5	<0.5	2.2	<0.5	<0.5		189044
COG-20	6/4/2012	7.29	23.42	3030	0.23		<0.5	<0.5	0.1	2.4	<0.5	<0.5		189044
COG-20	7/2/2012	6.97	26.94	2843	1.57		<0.5	<0.5	<0.5	2	<0.5	<0.5		189044
COG-20	8/2/2012	7.59	25.79	2874	0.49		<0.5	<0.5	<0.5	2.3	<0.5	<0.5		189044
COG-20	9/4/2012	7.27	29.17	3658	0.47		<0.5	<0.5	<0.5	1.9	<0.5	<0.5		189044
COG-20	10/1/2012	7.32	27.51	2637	1.52		<0.5	<0.5	<0.5	1.3	<0.5	<0.5		189044
COG-20	11/5/2012	7.27	26.9	1495	0.59		<0.5	<0.5	<0.5	2.5	<0.5	<0.5		189044
COG-20	12/3/2012	7.19	27.2	3597	1.09		<0.5	<0.5	<0.5	2.4	<0.5	<0.5		189044
COG-20	3/4/2013						<0.5	<0.5	<0.5	2.1	<0.5	<0.5		189044
COG-20	4/1/2013						<0.5	<0.5	<0.5	2.5	<0.5	<0.5		189044
COG-20	5/6/2013	6.86	28.43	3685	1.06		<0.5	<0.5	<0.5	2.5	<0.5	<0.5		PGA South
COG-20	6/3/2013						<0.5	<0.5	<0.5	2.1	<0.5	<0.5		39049-103
COG-20	7/1/2013						<0.5	<0.5	<0.5	2.3	<0.5	<0.5		246655-006
COG-20	8/7/2013						<0.5	<0.5	<0.5	2.3	<0.5	<0.5		247738-006
COG-20	9/4/2013						<0.5	<0.5	<0.5	2.4	<0.5	<0.5		248701-006
COG-20	10/2/2013						<0.5	<0.5	<0.5	0.6	<0.5	<0.5		249598-006
COG-20	11/5/2013						<0.5	<0.5	<0.5	2.1	<0.5	<0.5		250558-006
COG-20	12/2/2013						<0.5	<0.5	<0.5	2.4	<0.5	<0.5		251273-006
E-03	1/30/1990										<0.2	<0.2		1745
E-03	2/2/1990	7.68	21.6			1310	<0.2	<0.2			<0.2	<0.2		2529
E-03	3/2/1990	7.78	23.1	2080		1390	<0.2	<0.2		1.1	<0.2	<0.2		3529
E-03	3/21/1990	7.67	23.3	1910		1250	<0.2	<0.2		<0.2	<0.2	<0.2		3755
E-03	4/19/1990	7.59	25.5	1920		1300	<0.2	<0.2		<0.2	<0.2	<0.2		4665
E-03	5/23/1990			2210		1480	<0.2	<0.2		<0.2	<0.2	<0.2		5760
E-03	6/19/1990		25.8	2170		1450	<0.2	<0.2		<0.2	<0.2	<0.2		6772
E-03	7/18/1990	7.61	26.7	2110		1410	<0.2	<0.2		<0.2	<0.2	<0.2		7728
E-03	8/17/1990	7.57	28	2140		1430	<0.2	<0.2		<0.2	<0.2	<0.2		8664
E-03	9/22/1990	7.64	26.9	2130		1420	<0.2	<0.2		<0.2	<0.2	<0.2		9768
E-03	10/21/1990	7.78	25.1	2220		1480	<0.2	<0.2		<0.2	<0.2	<0.2		10738
E-03	11/24/1990	7.97	25.1	2200		1470	<0.2	<0.2		<0.2	<0.2	<0.2		11779
E-03	12/17/1990	8.07	20.9	2160		1440	<0.2	<0.2		<0.2	<0.2	<0.2		12764
E-03	1/21/1991	8.07	22.1	2220		1480	<0.2	<0.2		<0.2	<0.2	<0.2		101748
E-03	3/17/1991	8.03	22.7	2193		1463	<0.2	<0.2		<0.2	<0.2	<0.2		103798

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
E-03	6/30/1991	8.22	27.9	2300		1520	<0.2	<0.2		0.2	<0.2	<0.2		107711
E-03	9/24/1991	8.24	27.4	2260		1510	<0.2	<0.2		<0.2	<0.2	<0.2		109886
E-03	8/13/1998									1.6				PHH00613
E-03	8/13/1998	7.06	28.3	70		2070	< 1	< 1		2.8	< 1	< 1		9808-05688-3
E-03	10/30/1998	7.07	25.4	3070		2070	< 1	< 1		2.2	< 1	< 1		9811-07838-6
E-03	2/12/1999	6.76	24.3	2930		1960	< 1	< 1		< 1	< 1	< 1		9902-01472-09
E-03	4/20/1999	7.07	26.2	2860		1920	< 1	< 1		2.5	< 1	< 1		9904-03705-09
E-03	7/31/1999	6.93	28.2	2790		1860	< 1	< 1		2.4	< 1	< 1		9908-06887-014
E-03	10/20/1999	8.06	25.1	200		130	< 1	< 1		< 1	< 1	< 1		9910-09613-007
E-03	1/28/2000	7.1	25.1	2380		1590	< 1	< 1		< 1	< 1	< 1		0001-00901-003
E-03	1/28/2000	7.1	25.1	2380		1590	< 1	< 1		< 1	< 1	< 1		0001-00901-002
E-03	4/6/2000	7.37	25.5	1970		1310	< 1	< 1		< 1	< 1	< 1		0004-03196-003
E-03	7/29/2000	7.08	26.4	2430		1620	< 1	< 1		< 1	< 1	< 1		0007-06667-008
E-03	7/29/2000	7.08	26.4	2430		1620	< 1	< 1		< 1	< 1	< 1		0007-06667-007
E-03	10/20/2000	7.03	25.6	2710		1810	< 1	< 1		2.1	< 1	< 1		0010-09219-016
E-03	2/26/2001	7.39	25	1500		1000	< 1	< 1		< 1	< 1	< 1		0102-01473-004
E-03	2/26/2001	7.39	25	1500		1000	< 1	< 1		< 1	< 1	< 1		0102-01473-005
E-03	4/24/2001	7.27	26.2	2280		1520	< 1	< 1		1.1	< 1	< 1		0104-03010-007
E-03	9/27/2001	7.12	27.5	2610		1740	< 1	< 1		2.1	< 1	< 1		0109-07260-007
E-03	11/23/2001	7.12	24.8	2490		1670	< 1	< 1		< 1	< 1	< 1		0111-08940-001
E-03	2/16/2002	7.15	25.2	2500		1690	< 1	< 1		1.5	< 1	< 1		0202-01372-001
E-03	6/14/2002						< 1	< 1		4.9	< 1	< 1		0206-04956-008
E-03	9/17/2002	7.48	27.8	1380		930	< 1	< 1		< 1	< 1	< 1		0207-07807-010
E-03	10/24/2002	7.16	25.7	2230		1490	< 1	< 1		< 1	< 1	< 1		0210-09002-007
E-03	3/26/2003	7.31	26.2	1390		940	< 1	< 1	< 1	< 1	< 1	< 1		030302776012
E-03	3/26/2003	7.31	26.2	1390		940	< 1	< 1	< 1	< 1	< 1	< 1		030302776013
E-03	9/23/2003	7.24	28.2	1940		1270	< 1	< 1	< 1	< 1	< 1	< 1		030909106015
E-03	3/4/2004	7.33	22.4	1620		1080	< 1	< 1	< 1	< 1	< 1	< 1		040302470008
E-03	9/28/2004	7.18	24.7	1730		1150	< 2	< 2	< 2	< 2	< 2	< 2		040911253007
E-03	3/16/2005	7.66	24.6	190		120	< 1	< 1	< 1	< 1	< 1	< 1		05031240-11D
E-03	9/30/2005	7.13	29	1480		1000	< 1	< 1	< 1	< 1	< 1	< 1		05100435-05D
E-03	3/23/2006	7.1	25.7	2510		1680	< 1	< 1	< 1	2.5	< 1	< 1		06031725-07D
E-03	9/19/2006	7.44	26.9	160		110	< 1	< 1	< 1	< 1	< 1	< 1		06090740-13D
E-03	3/28/2007	7.27	22.9	1190		800	< 1	< 1	< 1	< 1	< 1	< 1		07030871-28
E-03	9/26/2007	7.18	27.9	1370		910	< 1	< 1	< 1	1.04	< 1	< 1		07091009-14D
E-03	1/7/2008	7.23	23.61	3146		2110	<0.5	<0.5	<0.5	0.8	<0.5	<0.5		200453-007
E-03	7/29/2008	7.01	24.11	4540		2955	<0.5	<0.5	<0.5	1.1	<0.5	<0.5		204966-005
E-03	2/18/2009	4.98	25.32	1730	283	1.16	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		210202-008
E-03	8/24/2009	6.52	28.36	448	460	0.3	<0.5	<0.5	<0.5	0.3	<0.5	<0.5		214393-018
E-03	2/4/2010	7.59	23.54	3041	85.6	2.04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		218209-007
E-03	8/26/2010	6.99	29.43	3982	65	2.67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		222121-001
E-03	2/9/2011	7.54	23.49	99	27.9		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 5	PGA SOUTH
E-03	5/5/2011	6.7	27.87	120	23.6		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		PGA SOUTH
E-03	8/2/2011						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5	PGA SOUTH
E-03	8/3/2011	7.23	33.18	143	6.32		<0.5	<0.5	<0.5	<0.5	<0.5	0.2	3	PGA SOUTH
E-03	2/2/2012	8.39	21.06	186	19		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6	189044
E-03	8/7/2012	7.85	30.91	122	153		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		189044
E-03	2/7/2013				98.6		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		189044
E-03	8/9/2013				133		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		247902-012
E-04	4/17/1990									2.4				4665
E-04	5/23/1990			5390		3940	<0.2	<0.2		2	<0.2	<0.2		5760
E-04	6/19/1990		25	5400		3540	<0.2	<0.2		1.6	<0.2	<0.2		6772
E-04	7/17/1990	7.13	27.2	5480		3650	<0.2	<0.2		2.3	<0.2	<0.2		7728
E-04	8/16/1990	7.22	28.2	5340		3560	<0.2	<0.2		1.8	<0.2	<0.2		8644
E-04	9/22/1990	7.25	25.2	5300		3540	<0.2	<0.2		2.1	<0.2	<0.2		9768
E-04	10/17/1990	7.15	27.7	5380		1250	<0.2	<0.2		2.5	<0.2	<0.2		10721
E-04	11/24/1990	7.35	26.1	5290		3530	<0.2	<0.2		1.7	<0.2	<0.2		11779
E-04	1/18/1991	7.24	22.8	5180		3480	<0.2	<0.2		1.6	<0.2	<0.2		101748
E-04	3/17/1991	7.28	24.8	4420		2956	<0.2	<0.2		2.2	<0.2	<0.2		103798
E-04	6/21/1991	7.32	25.8	5530		3700	<0.2	<0.2		3	<0.2	<0.2		106863
E-04	9/24/1991	7.53	22.5	5540		3700	<0.2	<0.2		1.8	<0.2	<0.2		109886
E-04	1/19/1992	7.42	24.5	4640		3110	<0.2	<0.2		1.8	<0.2	<0.2		201734
E-04	3/26/1992	7.44	24.2	4500		3000	<0.2	<0.2		1.8	<0.2	<0.2		203951
E-04	6/27/1992	7.22	26.4	4730		4760	<0.2	<0.2		1.9	<0.2	<0.2		206044
E-04	10/7/1992	7.41	27.1	4410		2950	<0.2	<0.2		1.9	<0.2	<0.2		210612
E-04	12/18/1992	7.36	23.2	4710		3140	<0.2	<0.2		0.9	<0.2	<0.2		212907
E-04	3/10/1993	6.9	25.5	4180		2790	<0.2	<0.2		2.2	<0.2	<0.2		30372401
E-04	6/22/1993	7.08	26.2	4750		1600	<0.2	<0.2		2.3	<0.2	<0.2		30695107
E-04	10/19/1993	7.14	26	5080			<0.2	<0.2		2.6	<0.2	<0.2		31092906
E-04	1/2/1994	6.87	19.3	5120			<0.2	<0.2		3	<0.2	<0.2		40151201
E-04	1/3/1994	6.87	19.3	5120			<0.2	<0.2		2.6	<0.2	<0.2		40151202

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
E-04	4/6/1994	7.2	24.7	4450		3000	<0.2	<0.2		1.9	<0.2	<0.2		40467414
E-04	6/15/1994	6.96	25.2	4650		3110	<0.2	<0.5		3.2	<0.2	12		40684429
E-04	6/16/1994	6.96	25.2	4650		3110	<0.2	<0.5		3.3	<0.2	13		40684430
E-04	9/26/1994	6.78	24.7	3140			<0.2	<0.2		4.8	<0.2	<0.2		4093609
E-04	12/29/1994	7.01	24.6	4690		3180	<0.2	<0.2		4.2	<0.2	<0.2		9412027718
E-04	12/30/1994	7.01	24.6	4690		3180	<0.2	<0.2		4.4	<0.2	<0.2		9412027717
E-04	3/22/1995	7.16	25	4890		3280	< 1	< 1		4.1	< 1	< 1		9503-4380-14
E-04	6/16/1995	7.22	24.9	4950		3310	< 1	< 1		4.2	< 1	< 1		9506-05955-2
E-04	9/19/1995	7.33	27.4	5010		3330	< 1	< 1		5	< 1	< 1		9509-07574-10
E-04	12/18/1995	7.22	24.2	4890		3290	< 1	< 1		4.8	< 1	< 1		9512-09134-3
E-04	3/27/1996	7.3	25.7	4690		3130	< 1	< 1		6.1	< 1	< 1		9603-01526-3
E-04	6/21/1996	7.4	26.5	4860		3240	< 1	< 1		7.7	< 1	< 1		9606-03105-2
E-04	9/20/1996	7.27	26.6	4840		3230	1.3	< 1		5.7	< 1	< 1		9609-04837-3
E-04	12/19/1996	7.27	23.5	4660		3110	< 1	< 1		10.4	< 1	< 1		9612-06624-1
E-04	2/19/1997	7.18	25.6	4810			< 1	< 1		11.3	< 1	< 1		9702-01144-11
E-04	6/11/1997	7.23	26.5	3350		2240	< 1	< 1		12.7	< 1	< 1		9706-03639-8
E-04	9/12/1997	7.26	26.8	3370		2260	<0.5	<0.5		20.5	<0.5	<0.5		9709-05902-2
E-04	12/4/1997	7.12	24.3	3350		2240	< 1	< 1		16.8	< 1	< 1		9712-07851-3
E-04	2/6/1998	7.13	24.6	3280		2200	< 1	< 1		20.3	< 1	< 1		9802-00902-6
E-04	2/6/1998	7.13	24.6	3280		2200	< 1	< 1		21.3	< 1	3		9802-00902-1
E-04	9/9/1998	7.3	27.1	3080		2090	< 1	< 1		29	< 1	< 1		9809-06345-2
E-04	10/30/1998	7.38	24.4	3250		2170	< 1	< 1		30.9	< 1	< 1		9811-07838-3
E-04	10/30/1998	7.38	24.4	3250		2170	< 1	< 1		31.1	< 1	< 1		9811-07838-21
E-04	2/7/1999	7.05	24.8	3250		2180	< 1	< 1		26.4	< 1	< 1		9902-01284-24
E-04	4/20/1999	7.16	27.6	3280		2200	< 1	< 1		34.6	< 1	< 1		9904-03705-05
E-04	4/20/1999	7.16	27.6	3280		2200	< 1	< 1		33.4	< 1	< 1		9904-03705-04
E-04	7/30/1999	7.15	25.3	3260		2190	< 1	< 1		34.4	< 1	< 1		9908-06887-003
E-04	10/20/1999	7.07	25.7	3310		2220	< 1	< 1		51.3	< 1	< 1		9910-09613-004
E-04	1/25/2000	7.07	25.4	2020		1350	< 1	< 1		45.8	< 1	< 1		0001-00788-004
E-04	4/6/2000	7.18	25.7	3280		2200	< 1	< 1		65	< 1	< 1		0004-03196-001
E-04	7/27/2000	7.24	25.7	3430		2300	< 1	< 1		39.1	< 1	< 1		0007-06600-006
E-04	10/19/2000	7.09	25	3480		2330	< 1	< 1		59.8	< 1	< 1		0010-09219-005
E-04	10/19/2000	7.09	25	3480		2330	< 1	< 1		58	< 1	< 1		0010-09219-004
E-04	2/22/2001	7.13	25.6	3350		2240	< 1	< 1		53	< 1	< 1		0102-01393-008
E-04	4/20/2001	7.14	26.2	3500		2340	< 1	< 1		46.3	< 1	< 1		0104-02944-003
E-04	4/20/2001	7.14	26.2	3500		2340	< 1	< 1		47.5	< 1	< 1		0104-02944-004
E-04	9/24/2001	7.11	27.3	3380		2270	< 1	< 1		50.1	< 1	< 1		0109-07100-004
E-04	11/21/2001	7.13	26.3	3410		2280	< 1	< 1		53	< 1	< 1		0111-08941-003
E-04	2/13/2002	7.11	25.1	3320		2220	< 1	< 1		100	< 1	< 1		0202-01324-005
E-04	5/30/2002	7.24	27.4	3330		2230	< 1	< 1		58.7	< 1	< 1		0205-04370-007
E-04	5/30/2002	7.24	27.4	3330		2230	< 1	< 1		56.5	< 1	< 1		0205-04370-006
E-04	9/13/2002	7.22	28.6	3250		2180	< 1	< 1		70.6	< 1	< 1		0209-07700-011
E-04	10/23/2002	7.17	26.2	3170		2110	< 1	< 1		79.8	< 1	< 1		0210-09002-004
E-04	3/24/2003	7.23	25.1	2930		1960	< 1	< 1	< 1	57.6	< 1	< 1		030302652001
E-04	6/26/2003	7.22	27.3	2950		1970	< 1	< 1	< 1	87.1	< 1	< 1		030605833013
E-04	9/22/2003	7.17	27.3	3020		2020	< 1	< 1	< 1	82.7	< 1	< 1		030909106001
E-04	12/9/2003	7.26	23.3	3010		2010	< 1	< 1	< 1	68.3	< 1	< 1		031212090012
E-04	12/9/2003	7.26	23.3	3010		2010	< 1	< 1	< 1	102	< 1	< 1		031212090013
E-04	3/2/2004	7.15	22.3	3060		2050	0.52	< 1	< 1	78	< 1	< 1		040302356007
E-04	5/6/2004	6.93	29	2670		1790	< 1	< 1	< 1	78	< 1	< 1		040505018005
E-04	9/24/2004	7.02	24.7	2920		1940	< 2.5	< 2.5	< 2.5	73	< 2.5	< 2.5		040911070015
E-04	9/24/2004	7.02	24.7	2920		1940	< 2.5	< 2.5	< 2.5	70	< 2.5	< 2.5		040911070016
E-04	12/20/2004	7.07	23.7	2830		1890	< 1	< 1	< 1	72	< 1	< 1		04121265-02D
E-04	3/22/2005	7.21	22.2	2810		1880	< 1	< 1	< 1	77	< 1	< 1		05031440-10D
E-04	6/8/2005	7.17	27.3	2770		1850	< 1	< 1	< 1	76	< 1	< 1		05060846-04D
E-04	9/27/2005	7.17	27.9	2840		1900	< 1	< 1	< 1	91	< 1	< 1		05091650-10D
E-04	9/27/2005	7.17	27.9	2840		1900	< 1	< 1	< 1	91	< 1	< 1		05091650-11D
E-04	12/9/2005	7.16	22.8	3030		2030	< 1	< 1	< 1	82	< 1	< 1		05120894-17D
E-04	3/14/2006	7.14	23.1	2930		1960	< 1	< 1	< 1	73	< 1	< 1		06031132-10D
E-04	6/14/2006	7.08	27.5	2880		1940	< 1	< 1	< 1	91	< 1	< 1		06060615-11D
E-04	6/14/2006	7.08	27.5	2880		1940	< 1	< 1	< 1	90	< 1	< 1		06060615-10D
E-04	9/27/2006	7.17	28.7	2790		1880	< 1	< 1	< 1	87.7	< 1	< 1		06091031-14D
E-04	9/27/2006	7.17	28.7	2790		1880	< 1	< 1	< 1	118.4	< 1	< 1		06091031-13D
E-04	12/22/2006	7.17	21.9	2780		1830	< 1	< 1	< 1	77.76	< 1	< 1		06120700-11D
E-04	3/26/2007	7.07	27.6	2910		1950	< 1	< 1	< 1	84.89	< 1	< 1		07030871-16
E-04	6/7/2007	6.95	26.5	3150		2120	< 1	< 1	< 1	87.1	< 1	< 1		07060256-14
E-04	9/24/2007	7.02	28.2	2840		1920	< 1	< 1	< 1	78.1	< 1	< 1		07091009-04D
E-04	10/9/2007	7.04	25	5250		2390	1.8	<0.5	<0.5	77	<0.5	<0.5		198353-002
E-04	1/9/2008	6.93	24.7	5147		3450	1.9	<0.5	0.2	87	<0.5	0.2		200451-004
E-04	8/4/2008	6.87	25	5110		3321	2.2	<0.5	0.3	86	<0.5	0.2		205110-009
E-04	11/18/2008	6.9	24.87	5310		3560	1.4	<0.5	0.2	61	<0.5	0.2		208075-009

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
E-04	2/18/2009	6.97	24.72	5278	12.7	3.43	2.6	<0.5	0.2	70	<0.5	0.1		210202-022
E-04	5/18/2009	7.03	24.95	5005	14.7	3.25	2.5	<0.5	0.2	66	<0.5	0.2		212306-003
E-04	8/24/2009	7.06	25.5	5326	29.9	3.57	1.6	<0.5	0.2	66	<0.5	0.1		214514-013
E-04	11/17/2009	6.94	24.9	5108	15.4	3.42	1.7	<0.5	<0.5	50	<0.5	<0.5		216704-003
E-04	2/2/2010	7.18	24.72	4962		48.2	2.5	<0.5	0.2	64	<0.5	0.2		218171-023
E-04	5/6/2010	7.05	25	4717		48.3	2.9	<0.5	0.2	71	<0.5	0.2		220017-019
E-04	8/24/2010	7.35	25.46	4424	17.7	2.96	2.5	<0.5	0.2	57	<0.5	0.2		222127-005
E-04	11/30/2010						2.7	<0.5	0.3	56	<0.5	0.2		224639-034
E-04	2/8/2011	6.71	24.21	5396	11.8		4.4	<0.5	<0.5	61	<0.5	0.3		PGA SOUTH
E-04	5/9/2011	6.88	24.81	4295	13.2		3.1	<0.5	0.3	56	<0.5	0.2		PGA SOUTH
E-04	8/6/2011	8.81	24.8	4169	17.8		2.5	<0.5	<0.5	56	<0.5	0.2		PGA SOUTH
E-04	11/8/2011	7.03	23.93	4206	8.49		2.4	<0.5	0.2	41	<0.5	0.2		154540
E-04	11/10/2011	6.91	24.04	3566	6.78								31	154540
E-04	2/5/2012	7.05	24.44	5821	15.6		3.6	<0.5	0.2	60	<0.5	0.3		189044
E-04	5/5/2012	6.91	25.24	4282	2.63		3.5	<0.5	0.2	59	<0.5	0.2		189044
E-04	8/9/2012	6.64	29.8	4226	3.36		2.1	<0.5	0.2	48	<0.5	0.2		189044
E-04	11/7/2012				13.8		2.1	<0.5	0.1	41	<0.5	0.2		189044
E-04	2/7/2013				15.2		3.7	<0.5	0.1	51	<0.5	0.2		189044
E-04	5/7/2013				2.11		3.4	<0.5	0.2	52	<0.5	0.2		PGA South
E-04	8/9/2013				2.7		1.5	<0.5	0.1 J	45	<0.5	0.1 J		247902-013
E-04	11/5/2013				23.9		1.3	<0.5	0.1 J	36	<0.5	<0.5		250555-014
E-07	12/23/1992	7.64	24.7				<0.2	0.3		62.6	0.2	<0.2		212987
E-07	1/5/1993	7.8	25	4500		3020	3.1	0.8		150	0.5	<0.2		301538
E-07	3/15/1993	7.6	25.3	4740		3160	15	2.9		100	0.5	0.4		30377308
E-07	5/14/1993	7.46	28.4	5280		3550	17	2.5		120	<0.2	0.4		30574306
E-07	6/25/1993	7.59	28	5000		1700	10	2		90	< 1	< 1		30602717
E-07R	12/20/1993	7.1	24.5	4300		2860	16	1.1		260	1	0.4	42	31207906
E-07R	2/4/1994	6.73	23.3	4070		2720	15	1.6		300	1.8	< 1		40262801
E-07R	4/18/1994	7.05	21.1	4650			7.6	< 1		220	< 1	< 1		40486606
E-07R	5/10/1994												66	40587503
E-07R	6/16/1994	7.1	28.3	4040		2710	14	<0.5		290	0.9	0.7		40684423
E-07R	9/27/1994	7.12	28.8	4100		2730	7.9	< 1		260	0.3	<0.5		40992203
E-07R	12/12/1994						9.1	<0.2		510	<0.2	<0.2		9412023869
E-07R	12/12/1994	7.42	24.2	3690		2470	9.1	<0.2			<0.2	<0.2		9412023861
E-07R	12/21/1994												296	9412026711
E-07R	3/20/1995												75	9503-04305-1
E-07R	3/23/1995	7.34	25.7	4070		2730	< 1	< 1		865	< 1	< 1		9503-4380-16
E-07R	6/14/1995												43	9506-05930-3
E-07R	6/20/1995	7.47	27.2	3820		2550	7.9	< 1		205	< 1	< 1		9506-05974-10
E-07R	9/14/1995	7.53	26.4	3650		2430	5.2	< 1		216	< 1	< 1		9509-07511-8
E-07R	12/27/1995	7.48	26	4180		2960	< 1	< 1		187	< 1	< 1	62	9512-09221-26
E-07R	3/19/1996	7.39	27.3	3510		2360	< 1	< 1		195	< 1	< 1	55	9603-01387-3
E-07R	6/27/1996	7.28	26.6	3090		2070	6.1	< 1		292	< 1	1.6	77	9606-03238-5
E-07R	9/24/1996	7.45	26.3	3460		1490	< 1	< 1		195	< 1	< 1		9609-04903-11
E-07R	12/16/1996	7.28	24.5	3270		2200	< 1	< 1		255	< 1	< 1	340	9612-06522-1
E-07R	2/17/1997	7.39	27.3	3290			< 1	< 1		346	< 1	< 1	108	9702-01060-2
E-07R	4/25/1997	7.32	2601	2310		1540	< 1	< 1		325	< 1	< 1		9704-02536-9
E-07R	5/7/1997												142	9705-02785-7
E-07R	6/6/1997												175	9706-03503-6
E-07R	9/11/1997	7.41	27.8	2400		1600	5.22	< 1		234	< 1	2.88		9709-05871-7
E-07R	10/20/1997	7.34	26.1	2380		1580	6	< 1		307	< 1	3.6	186	9710-06789-3
E-07R	1/22/1998	7.32	25.3	2750		1840	6.7	< 1		277	< 1	3.4	216	9801-00564-2
E-07R	4/20/1998									281			187	980402699004
E-07R	4/20/1998	7.46	26.7	2410		1610	7.3	< 1		281	< 1	3.3	187	9804-02699-4
E-07R	7/23/1998	7.53	27.9	2370		1580	6.6	< 1		219	< 1	3.1	292	9807-05117-3
E-07R	8/11/1998	7.46	28.3	2350		1570	< 1	< 1			< 1	< 1		PHH00475
E-07R	8/11/1998	7.46	28.3	2350		1570	5	< 1		141	< 1	3.1	134	9808-05612-3
E-07R	10/30/1998	7.36	24.5	2370		1590	7.5	< 1		181	< 1	3.5	92	9811-07838-15
E-07R	1/30/1999	7.29	25	2360		1580	3.9	< 1		116	< 1	1	141	9901-00917-05
E-07R	4/13/1999	7.1	26.7	2030		1540	10.6	< 1		272	< 1	3.5	156	9904-03467-04
E-07R	7/13/1999												187	9907-06734-009
E-07R	7/26/1999	7.25	27.8	2300		1540	6.8	< 1		207	< 1	2.2		9907-06734-009
E-07R	10/15/1999	7.28	26.8	2230		1490	3.6	< 1		195	< 1	2.4	282	9910-09461-004
E-07R	1/18/2000	7.26	24.8	2230		1490	6.4	< 1		179	< 1	3.5	259	0001-00605-001
E-07R	4/3/2000	7.27	28.1	2200		1470	6.1	< 1		237	< 1	3.3	268	0004-02940-002
E-07R	7/19/2000	7.33	26.9	2280		1530	3.9	< 1		173	< 1	2.3	295	0007-06367-005
E-07R	10/16/2000	7.35	26.4	2460		1640	8.7	< 1		338	< 1	2.1	339	0010-09068-003
E-07R	1/22/2001	7.19	24.9	2400		1600	4.9	< 1		284	< 1	2.3	264	0101-00601-006
E-07R	4/17/2001	7.3	27.7	2300		1540	6.4	< 1		214	< 1	2.7	238	0104-02877-006
E-07R	6/25/2001												203	0106-04615-005
E-07R	7/2/2001												220	0107-04779-005

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
E-07R	7/13/2001												280	0107-05115-006
E-07R	8/9/2001												274	0108-05808-006
E-07R	8/17/2001	7.38	27.1	2420		1620	3	< 1		190	< 1	1.8	254	0108-06062-001
E-07R	9/10/2001												324	0109-06717-009
E-07R	10/12/2001												276	0110-07753-006
E-07R	11/12/2001												277	0111-08678-007
E-07R	11/16/2001	7.36	27.1	2400		1610	3.8	< 1		246	< 1	2.3	266	0111-08851-005
E-07R	12/14/2001												241	0112-09595-009
E-07R	1/14/2002												220	0201-00427-013
E-07R	1/21/2002	7.3	27.1	2360		1580	4.3	< 1		267	< 1	2.4	264	0201-00589-007
E-07R	2/12/2002												194	0202-01294-009
E-07R	3/13/2002												178	0203-02102-009
E-07R	3/19/2002												226	0203-02258-002
E-07R	4/12/2002												283	0204-03063-012
E-07R	5/9/2002												233	0205-03823-008
E-07R	5/21/2002	7.21	26.5	2470		1650	5.2	< 1		266	< 1	1.7		0205-04172-002
E-07R	6/14/2002												280	0206-04956-001
E-07R	7/16/2002												282	0207-05904-007
E-07R	8/14/2002												233	0208-06905-001
E-07R	8/27/2002	7.16	28.4	2510		1680	4.1	< 1		267	< 1	< 1		0208-07256-008
E-07R	9/10/2002												258	0209-07587-008
E-07R	10/7/2002												239	0210-08395-006
E-07R	10/17/2002	7.02	26.5	2480		1660	3.8	< 1		440	< 1	< 1		0210-08788-001
E-07R	11/6/2002												340	0211-09350-008
E-07R	12/12/2002												246	0212-10571-009
E-07R	1/14/2003												275	0301-00459-010
E-07R	2/18/2003												252	0302-01525-003
E-07R	3/7/2003	7.11	27.2	2290		1540	5.7	< 1	< 1	189	< 1	2.5		030302105007
E-07R	3/13/2003												222	030302316006
E-07R	4/11/2003												186	030403290013
E-07R	5/15/2003												216	030504425008
E-07R	6/16/2003												234	030605492001
E-07R	7/10/2003												240	030706280013
E-07R	8/15/2003												240	030807651008
E-07R	11/14/2003												245	031111068011
E-07R	12/12/2003												245	031212173004
E-07R	1/16/2004												236	040100605013
E-07R	2/12/2004												192	040201599008
E-07R	2/17/2004	7.25	23.4	2300		1550	3.3	< 1	0.7	260	< 1	2.9		040201839010
E-07R	3/11/2004												182	040302734007
E-07R	5/28/2004												170	040505862001
E-07R	9/24/2004	7.05	29.5	2220		1480	2.3	< 5	4.1	98	< 5	15	83	040911070019
E-07R	10/14/2004												340	04101076-11B
E-07R	12/21/2004												450	04121265-09B
E-07R	1/13/2005	7.23	20.5	2640		1780	3.2	< 1	< 1	370	< 1	1.7	270	05011033-13D
E-07R	3/10/2005												240	05031045-02B
E-07R	4/13/2005												260	05041031-12B
E-07R	5/11/2005												250	05050902-09B
E-07R	6/10/2005												220	05060846-24B
E-07R	6/10/2005	7.23	29.5	1980		1320	3.7	< 1	< 1	160	< 1	1.6		05060846-24D
E-07R	7/13/2005												180	05070997-14B
E-07R	8/10/2005												290	05080907-01B
E-07R	11/14/2005	7.15	29.5	1790		1190	3.1	< 1	< 1	130	< 1	1.2	240	05111097-01D
E-07R	12/9/2005												170	05120894-22B
E-07R	1/5/2006												160	06010681-07B
E-07R	2/13/2006												160	06021236-07B
E-07R	3/17/2006												140	06031366-14D
E-07R	3/21/2006	7.02	23.5	2240		1500	3.3	< 1	< 1	110	< 1	1.3	140	06031366-14D
E-07R	9/12/2006												183	06090520-01B
E-07R	9/12/2006	7.19	27.2	2320		1550	2.9	< 1	< 1	197.3	< 1	< 1		06090520-01D
E-07R	10/19/2006												193	06100842-05D
E-07R	11/15/2006												162	06110625-12D
E-07R	12/12/2006												163	06120441-02D
E-07R	1/12/2007												167	07010389-07
E-07R	2/12/2007												162	07020516-07
E-07R	3/21/2007	7.39	24.6	2350		1570	2.83	< 1	< 1	147.5	< 1	1.13		07030679-13
E-07R	4/11/2007												171	07040678-08
E-07R	5/8/2007	7.22	23.8	1970		1310								07050310-06
E-07R	5/15/2007												151	07050624-07
E-07R	5/30/2007	7.4	25.8	2300		1540							149	07051077-01
E-07R	6/14/2007												145	07060543-08

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
E-07R	7/13/2007												163	07070476-05B
E-07R	8/8/2007												213	07080415-06B
E-07R	8/22/2007	7.11	28.2	2310		1540	2.58	< 1	< 1	140	< 1	< 1		07080915-12D
E-07R	9/13/2007												294	07090478-01B
E-07R	9/20/2007	7.17	29.5	2060		1380							158	07090741-07A
E-07R	10/10/2007												140	198348-006
E-07R	11/7/2007												140	199171-006
E-07R	12/6/2007												150	199822-006
E-07R	1/23/2008						4.2	< 1	0.4	150	< 1	1.8	120	200727-001
E-07R	2/12/2008												120	201202-004
E-07R	3/13/2008												120	201931008
E-07R	4/17/2008												110	202698-002
E-07R	5/13/2008												110	203270-007
E-07R	6/16/2008												95	204021-001
E-07R	6/18/2008						4.8	<0.8	0.6	110	<0.8	1.2		204079-007
E-07R	7/16/2008												100	204674-003
E-07R	8/20/2008						4.1	<0.7	0.6	140	<0.7	1.6		205469-001
E-07R	8/20/2008						4.2	<0.8	0.6	140	<0.8	1.5	100	205469-002
E-07R	9/11/2008												110	206007-001
E-07R	10/7/2008												110	206689-001
E-07R	11/17/2008	6.62	26.3	3410		1.7								209312-005
E-07R	11/17/2008	6.75	25.9	3360		1660	3.7	< 1	0.4	120	< 1	1.6	110	208075-031
E-07R	12/18/2008	6.62	23.9	3400		1680							100	208810-007
E-07R	1/15/2009												93	209312-005
E-07R	2/19/2009	7.28	25.9	3420		1.71	3.1	< 1	0.4	110	< 1	1.6	130	210200-003
E-07R	3/11/2009	6.91	25.6	3.37		1.68							98	210629-003
E-07R	4/14/2009	6.65	26.6	3333		1670							84	211506-001
E-07R	5/14/2009	7.15	25.5	3270		1.63	2.6	<0.7	0.3	93	<0.7	1.2	85	212166-005
E-07R	6/29/2009	6.65	27.1	3220		1.61							100	213205-001
E-07R	7/15/2009	6.8	27.7	3130		1.57							78	213608-001
E-07R	8/23/2009	6.99	28.3	3540		1.77	3.7	< 1	0.3	94	< 1	1.2	81	214393-005
E-07R	9/16/2009												91	215010-002
E-07R	10/20/2009												79	215908-002
E-07R	11/18/2009	6.91	23.5	3450		1.71							70	216662-002
E-07R	12/2/2009	7.21	24.2	3.49		1.74	5.3	0.1	0.7	99	<0.5	1.5	79	217016-010
E-07R	1/13/2010												66	217772-005
E-07R	2/23/2010	6.76	25.5	3390		1.69	3.7	<0.5	0.5	78	<0.5	1.3	86	218482-004
E-07R	3/9/2010												56	218712-002
E-07R	4/14/2010												62	219502-004
E-07R	5/18/2010	6.85	25.6	3350		1.66	2.7	<0.5	0.4	58	<0.5	0.9	75	220306-001
E-07R	6/22/2010												9.9	220905-002
E-07R	7/14/2010	7.78	27.4	3320		1.66							5.3	221286-002
E-07R	8/18/2010	7.81	27.4	3350		1.67	<0.5	<0.5	<0.5	0.1	<0.5	<0.5	4.9	221992-006
E-07R	10/20/2010												1.9	223362-005
E-07R	11/4/2010												29	223810-005
E-07R	12/2/2010						0.3	<0.5	<0.5	3.1	<0.5	<0.5	9.2	224639-049
E-07R	1/4/2011												34	PGA SOUTH
E-07R	2/3/2011	7.56	21.8	3777	1.62								41	PGA SOUTH
E-07R	3/1/2011												27	PGA SOUTH
E-07R	4/5/2011												23	PGA SOUTH
E-07R	5/3/2011												28	PGA SOUTH
E-07R	5/6/2011												62	PGA SOUTH
E-07R	5/7/2011												23	PGA SOUTH
E-07R	6/2/2011												30	PGA SOUTH
E-07R	7/5/2011												49	PGA SOUTH
E-07R	7/8/2011						6	<0.5	0.4	75	<0.5	1.4		PGA SOUTH
E-07R	8/1/2011												58	PGA SOUTH
E-07R	9/7/2011												63	PGA SOUTH
E-07R	10/5/2011												67	154540
E-07R	11/7/2011						2.6	<0.5	0.4	70	<0.5	1.1	69	PGA SOUTH
E-07R	11/8/2011	7.07	23.41	2773	0.38		4.7	<0.5	0.5	97	<0.5	1.4		154540
E-07R	11/9/2011	6.94	24.44	2651	1.9								59	154540
E-07R	12/7/2011												83	189044
E-07R	1/3/2012	7.27	23.97	3604	4.68								59	189044
E-07R	2/2/2012	6.95	24.57	3484	0.48		5.9	<0.5	0.5	99	<0.5	1.9	56	189044
E-07R	3/1/2012						3.9	<0.5	0.4	74	<0.5	1.2	77	189044
E-07R	4/2/2012						4.2	<0.5	0.3	90	<0.5	1.3	57	189044
E-07R	5/11/2012	7.03	24.87	2999	0.42		6.7	<0.5	0.5	83	<0.5	1.9	48	189044
E-07R	6/4/2012	7.24	22.98	3082	3.41		7.3	<0.5	0.4	86	<0.5	1.8	52	189044
E-07R	7/2/2012	6.95	26.96	2929	3.12		4.2	<0.5	0.3	90	<0.5	1.4	46	189044
E-07R	8/2/2012	7.61	28.93	3000	2.07		4.7	<0.5	0.4	94	<0.5	1.5	49	189044

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
E-07R	9/4/2012	7.04	28.77	3747	0.53		5.6	<0.5	0.3	94	<0.5	1.3	47	189044
E-07R	10/1/2012	7.09	27.03	2636	1.96		4.9	<0.5	0.5	90	<0.5	1.5	47	189044
E-07R	11/5/2012	7.25	22.42	2692	18.2		4.1	<0.5	0.3	72	<0.5	1.5	48	189044
E-07R	12/3/2012	6.97	21.33	3332	11.5		4.7	<0.5	0.4	89	<0.5	1.5	50	189044
E-07R	1/2/2013						5	<0.5	0.4	82	<0.5	1.7	44	189044
E-07R	2/4/2013						4.7	<0.5	0.3	64	<0.5	1.5	45	189044
E-07R	3/4/2013						4	<0.5	0.3	69	<0.5	1.3	45	189044
E-07R	4/1/2013						7.4	<0.5	0.4	72	<0.5	1.6	42	189044
E-07R	5/6/2013	6.68	25.6	3424	10.7		4.8	<0.5	0.4	62	<0.5	1.4	42	PGA South
E-07R	6/3/2013						4.4	<0.5	0.3	59	<0.5	1.3	41	39049-103
E-07R	7/1/2013						3.9	<0.5	0.4 J	60	<0.5	1.3	46	246655-005
E-07R	8/7/2013						3	<0.5	0.2 J	58	<0.5	1.3	43	247738-005
E-07R	9/4/2013						5	<0.5	0.3 J	64	<0.5	1.5	35	248701-005
E-07R	10/2/2013						3.6	<0.5	0.3 J	67	<0.5	1.2	44	249598-005
E-07R	11/5/2013						2.7	<0.5	0.2 J	66	<0.5	1.1	41	250558-005
E-07R	12/2/2013						4.8	<0.5	0.4 J	64	<0.5	1.5	44	251273-005
E-08	12/23/1992	7.49	24.8				8.6	<0.2		38.2	0.9	0.3		2121987
E-08	5/14/1993	7.51	27.4	2490		1660	8.2	<0.2		23	0.2	0.4		30574307
E-08	6/25/1993	7.5	26.7	2800		1400	27	1		47	0.6	1.7		30602716
E-08	10/8/1993	7.4	26	2500		1650	3.7	<0.2		16	<0.2	<0.2		31070932
E-08	10/29/1993												173	310128
E-08	12/20/1993	7.5	24.1	2540		1700	6.6	<0.2		25	<0.2	0.5	192	31207907
E-08	4/18/1994	7.13	27.3	3140			6.1	0.3		16	<0.2	0.2		40486607
E-08	5/10/1994												236	40587504
E-08	6/16/1994	7.07	25.3	3310			17	2.1		28	0.6	1		40684422
E-08	9/27/1994	6.66	25.6	2450			23	1.9		48	0.4	1.8		40993633
E-08	12/12/1994	7.52	24	2640		1800	19	<0.2		42	<0.2	<0.2		9412023820
E-08	12/21/1994												164	9412026711
E-08	3/27/1995	7.03	25.3	2820		1910	22	< 1		33.9	< 1	1.1		9503-4436-1
E-08	6/14/1995	7.26	26.8	2830		1870	41.3	< 1		65.2	< 1	1.7		9506-05930-4
E-08	9/14/1995	7.41	26.8	2970		1960								9509-07511-12
E-08	9/15/1995						24.7	< 1		44	< 1	1.7		9509-07511-12
E-08	12/27/1995	7.64	17.8	2860		1850	< 1	< 1		24.4	< 1	< 1	13	9512-09221-28
E-08	3/28/1996	7.43	24.7	2980		1990	39.1	< 1		65.4	< 1	1.2	243	9603-01561-8
E-08	6/27/1996	7.3	27.1	2910		1930	25.3	1.5		31.1	< 1	1.9	247	9606-03238-8
E-08	9/26/1996	7.25	26.1	3000		2010	30.8	< 1		28.1	< 1	< 1	324	9609-04963-22
E-08	1/2/1997	7.44	24.7	2960		2600	42.1	< 1			< 1	1.3	286	9701-00119-2
E-08	1/2/1997	7.44	24.7	2960		2600	42.1	< 1		38.3	< 1	< 1		9701-00119-1
E-08	2/27/1997	7.3	23.9	2980			18.6	< 1		36.9	< 1	< 1	228	9702-01315-15
E-08	2/27/1997	7.3	23.9	2980			18.6	< 1		36.9	< 1	< 1	228	9702-01315-14
E-08	6/18/1997	7.27	27.3	1960		1300	29.6	< 1		46	< 1	2	298	9706-03832-17
E-08	9/25/1997	7.27	25.9	2060		1380	35.8	< 1		63	< 1	1.9		9709-06208-25
E-08	9/25/1997	7.27	25.9	2060		1380	36.6	< 1		60.7	< 1	1.9		9709-06208-24
E-08	12/19/1997	7.2	24	2050		1370	34.8	< 1		53.5	< 1	< 1	276	9712-08185-15
E-08	2/27/1998	7.2	24.7	2010		1350	33.9	< 1		55.5	< 1	1.7	199	9803-01373-4
E-08	9/15/1998	7.02	27.5	1930		1290	25.5	< 1		46	< 1	< 1	201	9809-06485-4
E-08	11/5/1998												189	9811-08032-2
E-08	2/9/1999	7.22	25.4	1980		1320	26.9	< 1		41.2	< 1	< 1	263	9902-01334-19
E-08	7/31/1999	7.23	24.9	1970		1320	29.8	< 1		50.7	< 1	1.5	185	9908-06887-021
E-08	2/4/2000	7.18	25.4	1820		1220	25.7	< 1		43.5	< 1	2		0002-01169-008
E-08	2/4/2000	7.18	25.4	1820		1220	25.7	< 1		45.8	< 1	2	179	0002-01169-005
E-08	7/19/2000	7.24	26.2	1770		1190	8.2	< 1		15.7	< 1	1.5	81	0007-06367-006
E-08	1/23/2001	7.09	25	1820		1220	13.7	< 1		18.1	< 1	2.4	66	0101-00601-014
E-08	6/18/2001												85	0106-04427-005
E-08	6/25/2001												59	0106-04615-006
E-08	7/2/2001												65	0107-04779-006
E-08	7/13/2001												59	0107-05115-007
E-08	8/9/2001												69	0108-05808-007
E-08	8/17/2001	7.29	27.5	1780		1190	8.4	< 1		11	< 1	2.1	63	0108-06062-002
E-08	1/14/2002												64	0201-00427-014
E-08	1/21/2002	7.31	26.1	1860		1240	8.9	< 1		13.2	< 1	1.7	71	0201-00589-008
E-08	4/12/2002												63	0204-03063-013
E-08	7/16/2002												65	0207-05904-008
E-08	8/27/2002	7.35	27.9	1780		1190	9.9	< 1		13	< 1	< 1		0208-07256-011
E-08	10/7/2002												56	0210-08395-007
E-08	1/14/2003												42	0301-00459-011
E-08	3/7/2003	7.17	27	1730		1160	9.7	< 1	< 1	14.3	< 1	< 1		030302105006
E-08	4/11/2003												51	030403290014
E-08	7/10/2003												77	030706280014
E-08	9/10/2003	7.31	27.3	1720		1150	9.6	< 1	< 1	11.9	< 1	2.1	54	030908571006
E-08	10/16/2003												65	031009963005

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
E-08	1/16/2004												50	040100605014
E-08	2/17/2004	7.42	22.7	1740		1170	4.1	< 1	< 1	8	< 1	1.4		040201839009
E-08	4/19/2004												41	040404233004
E-08	9/17/2004	7.27	25	1740		1160	11	< 1	< 1	14	< 1	2.3	50	040910776001
E-08	11/20/2008	7.33	26.3	3200		1600	5.2	<0.5	0.5	17	<0.5	2.1	77	208075-039
E-08	11/20/2008						5.2	<0.5	0.5	17	<0.5	2.3	77	208075-038
E-08	2/19/2009	7.36	30.1	3140		1.57	0.8	<0.5	0.3	8.6	<0.5	1.2	110	210200-004
E-10	12/23/1992	7.59	23.8											212987
E-10	1/29/1993												70	301943
E-10	3/15/1993	7.7	24.9	3260		2180	0.9	<0.2		120	<0.2	<0.2		30377309
E-10	5/14/1993	7.46	27.6	3960		2640	<0.2	<0.2		130	<0.2	<0.2		30574308
E-10	6/25/1993	6.97	28	4200		1500	< 1	< 1		180	< 1	< 1		30602715
E-10	8/3/1993												53	308534
E-10	8/13/1993												25	308726
E-10	10/8/1993	7.42	27.2	4000		2670	<0.2	<0.2		62	<0.2	<0.2		31070931
E-10	10/26/1993												18	310039
E-10	10/29/1993												23	310128
E-10	12/20/1993	7.2	25	3700		2500	<0.2	<0.2		78	<0.2	0.2	16	31207908
E-10	4/18/1994	7.11	29.4	3930			<0.2	<0.2		47	<0.2	0.3		40486608
E-10	5/10/1994												17	40587501
E-10	6/16/1994	7.11	25.1	3690			0.6	<0.5		90	<0.2	1	51	40684421
E-10	9/27/1994	7.19	27.7	3700		2510	<0.2	< 1		36	<0.5	<0.5		40992202
E-10	12/12/1994	7.17	25.3	2690		1770	<0.2	<0.2		46	<0.2	1.5		9412023862
E-10	12/21/1994												16	9412026711
E-10	3/31/1995	7.64	25	2960		1970	< 1	< 1		25.2	< 1	1.2		9503-4521-7
E-10	6/14/1995	7.62	26.9	2930		1950	< 1	< 1		43.7	< 1	2.4		9506-05930-2
E-10	9/14/1995	7.68	25.9	3020		2020								9509-07511-9
E-10	9/15/1995						< 1	< 1		27	< 1	2.6		9509-07511-9
E-10	12/27/1995	7.36	25.5	3170		2170	< 1	< 1		37.5	< 1	4.2	54	9512-09221-24
E-10	3/19/1996	7.34	27.2	2850		2260	< 1	< 1		41.3	< 1	5.2	8	9603-01387-1
E-10	5/6/1996	7.59	27.8	2770		1850	< 1	< 1		32.7	< 1	4.7		9605-02234-3
E-10	5/8/1996	7.86	28.3	2900		1930	< 1	< 1		16.9	< 1	< 1		9605-02314-1
E-10	5/10/1996	7.55	27.1	2760		1840	< 1	< 1		24.6	< 1	1.2		9605-02353-1
E-10	5/13/1996	7.61	26.8	2760		1840	< 1	< 1		13.3	< 1	< 1		9605-02432-7
E-10	5/17/1996	7.67	27.3	2780		1850	< 1	< 1		20.6	< 1	1.5		9605-02491-1
E-10	5/22/1996	7.59	26.6	2810		1860	< 1	< 1		19.7	< 1	1.9		9605-02546-1
E-10	6/3/1996	7.6	26.8	2800		1850	< 1	< 1		22	< 1	1.8		9606-02693-1
E-10	6/27/1996	7.6	26.8	2800		1850	< 1	< 1		12.4	< 1	< 1	334	9606-03238-11
E-10	7/16/1996	7.73	28.7	2680		2000	< 1	< 1		26.2	< 1	< 1		9607-03554-8
E-10	8/7/1996	7.61	29.4	2830		1850	< 1	< 1		5	< 1	< 1		9608-03978-1
E-10	8/8/1996	7.42	27.4	2870		1910	< 1	< 1		19.5	< 1	2.6		9608-04009-1
E-10	8/16/1996	7.33	28.3	2640		1770	< 1	< 1		20.3	< 1	4.7		9608-04199-3
E-10	8/21/1996	7.4	27.3	2860		1900	< 1	< 1		20.3	< 1	5.1		9608-04284-1
E-10	8/29/1996	7.41	29	2630		1760	< 1	< 1		14	< 1	4.1		9608-04429-1
E-10	9/25/1996	7.23	27.9	2590		1740	< 1	< 1		14.4	< 1	3.4	9	9609-04963-3
E-10	11/7/1996	7.32	23.7	2670		1830	< 1	< 1		10.3	< 1	4.2		9611-05791-1
E-10	12/16/1996	7.27	24.5	2720		1810	< 1	< 1		12.2	< 1	4.7	10	9612-06522-4
E-10	2/7/1997	7.31	26.1	2710			< 1	< 1		13.9	< 1	6.2	16	9702-00904-1
E-10	5/7/1997												18	9705-02785-9
E-10	6/6/1997	7.29	27.2	1880		1260	< 1	< 1		11.2	< 1	4.8	< 10	9706-03639-8
E-10	9/11/1997	7.39	27.5	1800		1210	< 1	< 1		7.73	< 1	3.57		9709-05871-4
E-10	10/20/1997	7.32	26.7	1800		1200	< 1	< 1		7.7	< 1	3.3	7	9710-06789-1
E-10	11/6/1997												< 10	9711-07207-3
E-10	1/23/1998	7.06	24.1	1900		1270	< 1	< 1		8.8	< 1	4.7	616	9801-00564-7
E-10	7/23/1998	7.28	28.4	1930		1290	< 1	< 1		9.6	< 1	4.6	20	9807-05117-1
E-10	11/5/1998												20	9811-08032-1
E-10	1/30/1999	7.19	24.6	1940		1300	< 1	< 1		7.4	< 1	2.8	36	9901-00917-06
E-10	7/13/1999												18	9907-06734-010
E-10	7/26/1999	7.18	28.2	1790		1200	< 1	< 1		5.9	< 1	2.6		9907-06734-010
E-10	1/11/2000	7.17	24.5	1710		1150	< 1	< 1		6.3	< 1	3.2	9	0001-00381-007
E-10	7/19/2000	7.28	36.5	1950		1310	1.6	< 1		102	< 1	5.2	128	0007-06367-007
E-10	1/22/2001	7.13	25.3	1710		1140	< 1	< 1		7.6	< 1	2.7	11	0101-00601-008
E-10	9/10/2001												17	0109-06717-010
E-10	9/28/2001	7.12	28.3	1680		1120	< 1	< 1		2.3	< 1	2.5	31	0110-07277-011
E-10	10/12/2001												< 5	0110-07753-007
E-10	1/14/2002												< 5	0201-00427-015
E-10	1/21/2002	7.17	23.9	1740		1160	< 1	< 1		5.6	< 1	2.3	8	0201-00589-009
E-10	4/12/2002												9	0204-03063-014
E-10	7/16/2002												8	0207-05904-009
E-10	8/27/2002	7.2	28.2	1530		1020								0210-08395-008
E-10	8/27/2002						< 1	< 1		5.8	< 1	1.6		0208-07256-010

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
E-10	10/7/2002												9	0210-08395-008
E-10	1/14/2003												6	0301-00459-012
E-10	3/11/2003	7.02	27.1	1550		1040	< 1	< 1	< 1	10.2	< 1	3.8		030302279001
E-10	4/11/2003												< 5	030403290015
E-10	7/10/2003												9	030706280015
E-101	10/26/1994						<0.2	<0.2		3.9	<0.2	<0.2		9410015553
E-101	11/1/1994						<0.2	<0.2		<0.2	<0.2	<0.2		9410016561
E-101	11/14/1994						<0.2	<0.2		3.5	<0.2	<0.2		9410019121
E-101	11/29/1994						<0.2	<0.2		3.7	<0.2	<0.2		9411021071
E-101	12/13/1994						<0.2	<0.2		5.8	<0.2	<0.2		9412023851
E-101	12/27/1994						<0.2	<0.2		3.8	<0.2	<0.2		9412026704
E-101	1/6/1995						<0.2	<0.2		4	<0.2	<0.2		9501028662
E-101	2/7/1995						<0.2	<0.2		3.2	<0.2	<0.2		9502034732
E-101	3/8/1995						< 1	< 1		2.69	< 1	< 1		9503-4139-3
E-101	4/7/1995	7.45	27.3	1810		1210	< 1	< 1		3.5	< 1	< 1		9504-4674-3
E-101	5/16/1995	7.78	27.2	1830		1210	< 1	< 1		3.7	< 1	< 1		9505-5400-8
E-101	6/6/1995	7.56	27.7	1780		1200	< 1	< 1		3.6	< 1	< 1		9506-05740-12
E-101	7/7/1995	7.45	27.9	1820		1210	< 1	< 1		4.7	< 1	< 1		9507-06296-6
E-101	8/10/1995	7.45	28.2	1850		1230	< 1	< 1		4	< 1	< 1		9508-06941-17
E-101	9/8/1995	7.45	28.2	1720		1120	< 1	< 1		4	< 1	< 1		9509-07402-8
E-101	10/6/1995	7.43	27.2	1820		1210	< 1	< 1		1.3	< 1	< 1		9510-07900-9
E-101	11/14/1995	7.33	26.3	1820		1220	< 1	< 1		4.1	< 1	< 1		9511-08545-8
E-101	12/26/1995	7.24	24.4	1940		1340	< 1	< 1		2.8	< 1	< 1		9512-09221-11
E-101	1/16/1996	7.19	25.9	1910		1280	< 1	< 1		3.9	< 1	< 1		9601-00275-3
E-101	2/9/1996	7.1	28	1920			< 1	< 1		2.9	< 1	< 1		9602-00661-3
E-101	3/8/1996	7.43	27.5	1870		1250	< 1	< 1		4	< 1	< 1		9603-01159-5
E-101	4/9/1996	7.38	27.6	1720		1150	< 1	< 1		3.9	< 1	< 1		9604-01764-5
E-101	5/14/1996	7.39	27.2	1730		1150	< 1	< 1		3.6	< 1	< 1		9605-02432-5
E-101	6/26/1996	7.21	27.4	1670		1130	< 1	< 1		3.2	< 1	< 1		9606-03238-1
E-101	7/15/1996	7.57	26.1	1960		1680	< 1	< 1		4.7	< 1	< 1		9607-03554-3
E-101	8/16/1996	7.49	27.9	1720		1160	< 1	< 1		3.9	< 1	< 1		9608-04199-7
E-101	9/27/1996	7.01	27.9	1720		1150	< 1	< 1		2.8	< 1	< 1		9609-04963-26
E-101	10/4/1996	7.03	27.9	1720		1150	< 1	< 1		3.1	< 1	< 1		9610-05144-6
E-101	11/4/1996	7.44	26.9	1690		1130	< 1	< 1		3.4	< 1	< 1		9611-05675-5
E-101	12/10/1996	7.4	26	1720		1150	< 1	< 1		2.8	< 1	< 1		9612-06480-6
E-101	1/9/1997	7.39	26.2	1700		1200	< 1	< 1		3.5	< 1	< 1		9701-00271-6
E-101	2/10/1997	7.3	26	1710			< 1	< 1		3.5	< 1	< 1		9702-00937-6
E-101	4/8/1997	7.3	27.1	1190		800	< 1	< 1		3.1	< 1	< 1		9704-02127-6
E-101	5/9/1997	7.18	28.3	1210		810	< 1	< 1		2.8	< 1	< 1		9705-02889-5
E-101	6/10/1997	7.16	29.1	1210		810	< 1	< 1		2.5	< 1	< 1		9706-03639-16
E-101	7/7/1997	7.5	29.1	1220		820	< 1	< 1		4.9	< 1	< 1		9707-04237-3
E-101	8/8/1997	7.35	28.3	1190		790	< 1	< 1		5.2	< 1	< 1		9708-05140-6
E-101	9/11/1997	7.28	27.9	1220		820	< 1	< 1		4.22	< 1	< 1		9709-05871-21
E-101	10/15/1997	7.35	26.9	1260		840	< 1	< 1		< 1	< 1	11.7		9710-06706-4
E-101	11/6/1997	7.36	26.2	1200		800	< 1	< 1		3.5	< 1	< 1		9711-07207-5
E-101	12/9/1997	7.29	25.2	1200		800	< 1	< 1		3.9	< 1	< 1		9712-07967-4
E-101	1/12/1998	7.25	26	1220		810	< 1	< 1		3.4	< 1	< 1		9801-00254-6
E-101	2/12/1998	7.49	27.1	1200		800	< 1	< 1		2.6	< 1	< 1		9802-01069-6
E-101	3/5/1998	7	28.2	1160		780	< 1	< 1		3.5	< 1	< 1		9803-01518-2
E-101	4/6/1998	7.32	26.4	1190		800	< 1	< 1		4.1	< 1	< 1		9804-02325-2
E-101	5/6/1998	7.41	27.8	1180		790	< 1	< 1		2.8	< 1	< 1		9805-03152-6
E-101	6/10/1998	7.28	27.8	820		1220	< 1	< 1		3	< 1	< 1		9806-03991-6
E-101	7/30/1998	7.31	27.9	1210		810	< 1	< 1		3.2	< 1	< 1		9807-05285-4
E-101	8/10/1998	7.32	29.3	1200		800	< 1	< 1		3.2	< 1	< 1		9808-05542-4
E-101	9/12/1998	7.38	28.6	1190		800	< 1	< 1		1.8	< 1	< 1	9	9809-06400-10
E-101	10/10/1998	7.24	27.2	1160		770	< 1	< 1		3.1	< 1	< 1		9810-07135-6
E-101	11/10/1998	7.46	24.7	1200		800	1	< 1		3.5	< 1	< 1		9811-08185-6
E-101	12/10/1998	7.22	24.3	1230		820	< 1	< 1		3.7	< 1	< 1		9812-09040-006
E-101	1/7/1999	7.11	25.1	1210		810	< 1	< 1		3.5	< 1	< 1		9901-00233-06
E-101	2/11/1999	7.34	25	1220		820	< 1	< 1		1.7	< 1	< 1		9902-01433-06
E-101	3/10/1999	7.17	26.1	1150		770	< 1	< 1		3.4	< 1	< 1		9903-02392-006
E-101	4/9/1999	7.26	25.3	1200		800	< 1	< 1		3	< 1	< 1		9904-03361-04
E-101	5/10/1999	7.46	27.6	1190		800	< 1	< 1		3	< 1	< 1		9905-04269-04
E-101	6/9/1999	7.16	27.7	970		630	< 1	< 1		2.4	< 1	< 1		9906-05238-07
E-101	7/12/1999	7.39	27.9	1200		800	< 1	< 1		3	< 1	< 1		9907-06192-006
E-101	8/10/1999	7.36	27.8	1210		810	< 1	< 1		2.6	< 1	< 1		9908-07278-006
E-101	9/13/1999	7.43	27.7	1200		800	< 1	< 1		2.9	< 1	< 1		9909-08258-004
E-101	10/8/1999	7.34	27.3	1220		820	< 1	< 1		2.1	< 1	< 1		9910-09178-006
E-101	11/10/1999	7.09	25.3	1220		820	< 1	< 1		1.8	< 1	< 1		9911-10331-003
E-101	12/8/1999	7.33	25.8	1200		810	< 1	< 1		2.6	< 1	< 1		9912-11043-003
E-101	1/10/2000	7.27	25.7	1220		820	< 1	< 1		2.2	< 1	< 1		0001-00301-005

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
E-101	2/8/2000	7.28	26.5	1170		790	< 1	< 1		2.4	< 1	< 1		0002-01344-005
E-101	3/7/2000	7.28	26.1	1230		820	< 1	< 1		2.5	< 1	< 1		0003-2088-005
E-101	4/11/2000	7.33	27.8	1220		820	< 1	< 1		2.3	< 1	< 1		0004-03322-006
E-101	5/10/2000	7.14	28.3	1220		820	< 1	< 1		1.7	< 1	< 1		0005-04330-002
E-101	6/9/2000	7.28	26.9	1220		820	< 1	< 1		1.8	< 1	< 1		0006-05131-005
E-101	7/10/2000	7.44	28.5	1220		820	< 1	< 1		< 1	< 1	< 1		0007-05952-007
E-101	8/11/2000	7.47	28.8	1240		830	< 1	< 1		1.7	< 1	< 1		0008-07186-008
E-101	9/11/2000	7.37	28.6	1260		840	< 1	< 1		1.3	< 1	< 1		0009-07995-007
E-101	10/10/2000	7.1	27.8	850		1270	< 1	< 1		< 1	< 1	< 1		0010-08886-007
E-101	11/15/2000	7.11	26.6	1300		870	< 1	< 1		1.8	< 1	< 1		0011-09900-006
E-101	12/8/2000	6.96	26	1290		860	< 1	< 1		1.7	< 1	< 1		0012-10488-007*
E-101	1/9/2001	7.22	24.8	1280		850	< 1	< 1		2	< 1	< 1		0101-00226-004
E-101	2/15/2001	7.24	25.8	1280		860	< 1	< 1		2	< 1	< 1		0102-01213-007
E-101	3/13/2001	7.05	26.2	1270		850	< 1	< 1		1.4	< 1	< 1		0103-01881-007
E-101	4/10/2001	7.23	24.5	1280		850	< 1	< 1		1.9	< 1	< 1		0104-02624-005
E-101	5/9/2001	7.44	28.6	1270		850	< 1	< 1		2.3	< 1	< 1		0105-03408-007
E-101	6/7/2001	7.36	28.5	1260		840	< 1	< 1		2.6	< 1	< 1		0106-04180-007
E-101	7/10/2001	7.39	28.5	1260		840	< 1	< 1		2.9	< 1	< 1		0107-04949-007
E-101	8/10/2001	7.42	28	1290		870	< 1	< 1		2.5	< 1	< 1		0108-05840-005
E-101	9/10/2001	7.4	28.1	1290		860	< 1	< 1		2.2	< 1	< 1		0109-06717-005
E-101	10/11/2001	7.41	27.6	1260		840	< 1	< 1		3.3	< 1	< 1		0110-07730-005
E-101	11/16/2001	7.26	26.7	1300		870	< 1	< 1		6.1	< 1	< 1		0111-08851-008
E-101	12/14/2001	7.27	23.8	1280		850	< 1	< 1		2.1	< 1	< 1		0112-09595-007
E-101	1/14/2002	7.14	26.1	1300		870	< 1	< 1		2.2	< 1	< 1		0201-00427-003
E-101	2/12/2002	7.22	25.8	1260		840	< 1	< 1		2.3	< 1	< 1		0202-01294-007
E-101	3/13/2002	7.32	27.3	1230		820	< 1	< 1		2.2	< 1	< 1		0203-02102-007
E-101	4/11/2002	7.28	27.3	1030		690	< 1	< 1		1.4	< 1	< 1		0204-03063-003
E-101	5/9/2002	7.39	28.6	1230		820	< 1	< 1		2.8	< 1	< 1		0205-03823-005
E-101	6/12/2002	7.37	29.5	1240		830	< 1	< 1		2.4	< 1	< 1		0206-04893-005
E-101	7/11/2002	7.35	27.9	1200		810	< 1	< 1		3.1	< 1	< 1	10	0207-05800-005
E-101	8/13/2002	7.33	27.8	1200		800	< 1	< 1		3.5	< 1	< 1		0208-06811-003
E-101	9/10/2002	7.32	28.4	1220		820	< 1	< 1		2.7	< 1	< 1		0209-07587-005
E-101	10/11/2002	7.39	28	1220		820	< 1	< 1		2.7	< 1	< 1		0210-08611-003
E-101	11/6/2002	7.1	27.2	1230		820	< 1	< 1		2.8	< 1	< 1		0211-09350-007
E-101	12/11/2002	7.02	26.5	1220		820	< 1	< 1		2.6	< 1	< 1		0212-10571-006
E-101	1/14/2003	7.13	26.6	1210		810	< 1	< 1		2	< 1	< 1		0301-00459-002
E-101	2/12/2003	7.18	26	1240		830	< 1	< 1		2.2	< 1	< 1		0302-01435-004
E-101	3/12/2003	7.18	27.9	1210		810	< 1	< 1	< 1	2.7	< 1	< 1		030302279011
E-101	4/11/2003	6.99	27.4	1210		810	< 1	< 1	< 1	2.5	< 1	< 1		030504425003
E-101	5/14/2003	6.98	28.1	1180		790	< 1	< 1	< 1	2.7	< 1	< 1		030504425003
E-101	6/13/2003	7.23	27.7	1210		810	< 1	< 1	< 1	4.8	< 1	< 1		030605405005
E-101	7/9/2003	7.27	27.9	1200		800	< 1	< 1	< 1	2.7	< 1	< 1		030706280003
E-101	8/15/2003	7.39	31	1190		800	< 1	< 1	< 1	1.7	< 1	< 1		030807651004
E-101	9/16/2003	7.33	27.9	1220		820	< 1	< 1	< 1	2.8	< 1	< 1		030908839002
E-101	10/15/2003	7.3	28.5	1200		810	< 1	< 1	< 1	3.7	< 1	< 1		031009963012
E-101	11/13/2003	7.39	26.1	1210		810	< 1	< 1	< 1	2.4	< 1	< 1		031111068003
E-101	12/10/2003	7.54	22.6	1300		870	< 1	< 1	< 1	2.7	< 1	< 1		031212090022
E-101	1/16/2004	7.38	25.3	1220		820	< 1	< 1	< 1	2.8	< 1	< 1		040100605004
E-101	2/11/2004	7.42	24.6	1230		820	< 1	< 1	< 1	3.6	< 1	< 1		040201599004
E-101	3/11/2004	7.48	26.2	1190		800	< 1	< 1	< 1	2.4	< 1	< 1		040302734002
E-101	4/16/2004	7.38	26.8	1180		790	< 1	< 1	< 1	2.4	< 1	< 1		040404165004
E-101	5/14/2004	7.41	26	1190		800	< 1	< 1	< 1	2.6	< 1	< 1		040505319002
E-101	6/21/2004	7.34	780	1170		28600	< 1	< 1	< 1	2.6	< 1	< 1		040606859002
E-101	8/31/2004	7.32	28.4	1130		760	< 1	< 1	< 1	3.9	< 1	< 1		040809988002
E-101	9/10/2004	7.2	25.9	960		640	< 1	< 1	< 1	3.5	< 1	< 1		040910453004
E-101	10/13/2004	7.22	28.7	1150		770	< 1	< 1	< 1	3	< 1	< 1		04101076-04D
E-101	11/11/2004	7.12	26	1230		820	< 1	< 1	< 1	3	< 1	< 1		04110939-05D
E-101	12/8/2004	7.23	25.3	1200		800	< 1	< 1	< 1	2.6	< 1	< 1		04120828-02D
E-101	1/11/2005	6.93	21.1	1280		850	< 1	< 1	< 1	4.3	< 1	< 1		05011033-04D
E-101	2/10/2005	7.37	23.7	1250		830	< 1	< 1	< 1	2.1	< 1	< 1		05021023-04D
E-101	3/9/2005	7.29	24.4	1250		840	< 1	< 1	< 1	< 1	< 1	< 1		05030895-12D
E-101	4/12/2005	7.27	28.6	1090		730	< 1	< 1	< 1	1.3	< 1	< 1		05041031-04D
E-101	5/10/2005	7.27	28.1	1070		710	< 1	< 1	< 1	3.2	< 1	< 1		05050902-02D
E-101	6/10/2005	7.26	26.9	1050		700	< 1	< 1	< 1	3.7	< 1	< 1		05060846-23D
E-101	7/12/2005	7.24	28.4	1110		740	< 1	< 1	< 1	5.33	< 1	< 1		05070997-05D
E-101	8/17/2005	7.37	29.2	1130		760	< 1	< 1	< 1	2	< 1	< 1		05081174-01D
E-101	9/9/2005	7.28	29	1080		720	< 1	< 1	< 1	1.6	< 1	< 1		05090779-02D
E-101	10/12/2005	7.39	29.1	1010		660	< 1	< 1	< 1	2	< 1	< 1		05101155-05D
E-101	11/11/2005	7.18	23	1280		860	< 1	< 1	< 1	1.9	< 1	< 1		05111011-06D
E-101	12/7/2005	6.9	23	1310		880	< 1	< 1	< 1	2.2	< 1	< 1		05120894-07D
E-101	1/6/2006	6.95	22.8	1260		850	< 1	< 1	< 1	1.9	< 1	< 1		06010681-05D

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
E-101	2/14/2006	6.9	26.6	1170		780	< 1	< 1	< 1	1.7	< 1	< 1		06021236-09D
E-101	3/14/2006	6.99	25.3	1170		780	< 1	< 1	< 1	1.7	< 1	< 1		06031132-09D
E-101	4/14/2006	7.1	27.3	1170		780	< 1	< 1	< 1	2.3	< 1	< 1		06041175-03D
E-101	5/11/2006	6.92	27	1160		780	< 1	< 1	< 1	1.5	< 1	< 1		06050997-06D
E-101	6/9/2006	7.02	28.5	1040		700	< 1	< 1	< 1	2	< 1	< 1		06060404-11D
E-101	7/20/2006	7.38	29	1150		770	< 1	< 1	< 1	2.4	< 1	< 1		06070776-01D
E-101	8/11/2006	7.12	29	1080		720	< 1	< 1	< 1	2.5	< 1	< 1		06080585-15D
E-101	9/12/2006	7.29	26.7	1240		830	< 1	< 1	< 1	3.56	< 1	< 1		06090520-08D
E-101	10/13/2006	7.31	26.1	1280		840	< 1	< 1	< 1	2.09	< 1	< 1		06100597-04D
E-101	11/14/2006	7.26	25.6	1250		830	< 1	< 1	< 1	2.57	< 1	< 1		06110625-04D
E-101	12/12/2006	7.23	25.5	1290		860	< 1	< 1	< 1	2.14	< 1	< 1		06120441-07D
E-101	1/12/2007	7.3	21.7	1390		930	< 1	< 1	< 1	2.3	< 1	< 1		07010389-02
E-101	2/13/2007	7.29	24.2	1310		880	< 1	< 1	< 1	1.88	< 1	< 1		07020516-06
E-101	3/13/2007	7.32	25.2	1220		820	< 1	< 1	< 1	1.98	< 1	< 1		07030441-13
E-101	3/21/2007	7.82	18.52			1286	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.834	07030638-01
E-101	4/18/2007	7.39	26	1180		790	< 1	< 1	< 1	1.99	< 1	< 1		07040678-13
E-101	5/15/2007	7.25	26.2	1290		860	< 1	< 1	< 1	1.97	< 1	< 1		07050624-04
E-101	6/14/2007	7.34	28.5	1100		730	< 1	< 1	< 1	2.12	< 1	< 1		07060543-03
E-101	7/13/2007	7.05	26.4	1290		850	< 1	< 1	< 1	2.14	< 1	< 1		07070476-13D
E-101	8/16/2007	7.21	28.3	1110		750	< 1	< 1	< 1	2.28	< 1	< 1		07080725-01D
E-101	9/11/2007	7.23	28	1110		745	< 1	< 1	< 1	2.43	< 1	< 1		07090478-10D
E-101	10/10/2007						<0.5	<0.5	<0.5	2.8	<0.5	<0.5		198348-001
E-101	11/7/2007						<0.5	<0.5	<0.5	2.3	<0.5	<0.5		199171-001
E-101	12/7/2007						<0.5	<0.5	<0.5	2	<0.5	<0.5		199822-001
E-101	1/12/2008						<0.5	<0.5	<0.5	1.9	<0.5	<0.5		200619-001
E-101	2/12/2008						<0.5	<0.5	<0.5	1.7	<0.5	<0.5		201202-006
E-101	3/12/2008						<0.5	<0.5	<0.5	1.7	<0.5	<0.5		201931002
E-101	4/18/2008						<0.5	<0.5	<0.5	2.1	<0.5	<0.5		202698-007
E-101	5/13/2008						<0.5	<0.5	<0.5	2	<0.5	<0.5		203270-001
E-101	6/17/2008						<0.5	<0.5	<0.5	2	<0.5	<0.5		204079-006
E-101	7/16/2008						<0.5	<0.5	<0.5	1.8	<0.5	<0.5		204674-010
E-101	8/12/2008						<0.5	<0.5	<0.5	2.3	<0.5	<0.5		205259-003
E-101	9/11/2008						<0.5	<0.5	<0.5	2.2	<0.5	<0.5		206007-007
E-101	10/7/2008						<0.5	<0.5	<0.5	1.7	<0.5	<0.5		206689-010
E-101	11/5/2008						< 2	< 2	< 2	4.88	< 2	< 2	12	8110498-01
E-101	11/6/2008						< 2	< 2	< 2	2.8	< 2	< 2	11	8110498-02
E-101	12/18/2008	6.81	25	2180		1080	<0.5	<0.5	<0.5	1.8	<0.5	<0.5		208810-009
E-101	12/23/2008						< 2	< 2	< 2	< 2	< 2	< 2		8121736-01
E-101	2/20/2009	7.51	25.4	2170		1.08	<0.5	<0.5	<0.5	1.6	<0.5	<0.5		210262-001
E-101	5/14/2009	7.25	27.2	2160		1.08	<0.5	<0.5	<0.5	2.5	<0.5	<0.5		212166-009
E-101	7/16/2009	6.99	27.4	1938		973	<0.5	<0.5	<0.5	2	<0.5	<0.5		213608-007
E-101	8/25/2009						<0.5	<0.5	<0.5	2.5	<0.5	<0.5		214514-003
E-101	12/3/2009	6.28	24.9	1909		954	<0.5	<0.5	<0.5	2.2	<0.5	<0.5		217016-014
E-101	2/24/2010	6.61	26.4	1814		2.4	<0.5	<0.5	<0.5	1.1	<0.5	<0.5		218482-015
E-101	5/13/2010						<0.5	<0.5	<0.5	2.2	<0.5	<0.5		220168-008
E-101	8/19/2010	8.14	27.9	1694		848	<0.5	<0.5	<0.5	1.7	<0.5	<0.5		221992-017
E-101	8/23/2010						<0.5	<0.5	<0.5	2.6	<0.5	<0.5	7.9	222046-004
E-101	12/2/2010						<0.5	<0.5	<0.5	1.6	<0.5	<0.5		224639-060
E-101	2/9/2011	7.17	24.09	2127	0.48		<0.5	<0.5	<0.5	1.8	<0.5	<0.5		PGA SOUTH
E-101	5/10/2011	7.16	26.33	2313	1.46		<0.5	<0.5	<0.5	2.1	<0.5	<0.5		PGA SOUTH
E-101	8/5/2011	7.01	25.44	2228	0.71		<0.5	<0.5	<0.5	1.7	<0.5	<0.5		PGA SOUTH
E-101	11/11/2011	7.22	23.85	1684	3.45		<0.5	<0.5	<0.5	1.5	<0.5	<0.5	6.3	154540
E-101	2/8/2012	7.15	24.26	1555	2.62		<0.5	<0.5	<0.5	2	<0.5	<0.5		234302
E-101	8/8/2012	7.21	25.31	2170	13.5		0.2	<0.5	<0.5	6.4	<0.5	<0.5		189044
E-101	11/6/2012	7.43	23.90	1896	22.1		0.3	<0.5	<0.5	12	<0.5	<0.5		189044
E-101	2/7/2013	7.18	22.7	2544	80.3		0.2	<0.5	<0.5	9.6	<0.5	<0.5		189044
E-101	5/7/2013	6.79	26.03	2739	126		0.7	<0.5	<0.5	25	<0.5	<0.5		PGA South
E-101	8/7/2013	6.94	27.16	3035	127		0.8	<0.5	<0.5	32	<0.5	0.1 J		247736-001
E-101	11/5/2013	6.86	22.5	2568	109		0.8	<0.5	<0.5	23	<0.5	<0.5	940 J	250555-001
E-102	11/11/2004	7.29	23.7	1300		870	< 1	< 1	< 1	4.8	< 1	< 1	16	04110939-03D
E-102	11/18/2004	7.31	22.6	1260		850	< 1	< 1	< 1	5.4	< 1	< 1	18	04111285-02D
E-102	12/2/2004	7.22	22.4	1130		760	< 1	< 1	< 1	5.2	< 1	< 1		04120510-01D
E-102	12/16/2004	7.21	23	1110		740	< 1	< 1	< 1	5.4	< 1	< 1		04121090-09D
E-102	12/30/2004	7.13	22.9	1090		730	< 1	< 1	< 1	4.9	< 1	< 1		04121481-01D
E-102	1/12/2005	7.37	18.9	1200		800	< 1	< 1	< 1	4.7	< 1	< 1	20	05011033-07D
E-102	2/10/2005	7.29	20.5	1190		800	< 1	< 1	< 1	5.1	< 1	< 1		05021023-01D
E-102	3/9/2005	7.34	27.6	990		660	< 1	< 1	< 1	4.3	< 1	< 1		05030895-20D
E-102	4/12/2005	7.38	26.9	1000		700	< 1	< 1	< 1	4.6	< 1	< 1		05041031-02D
E-102	5/11/2005	7.42	22.8	1050		710	< 1	< 1	< 1	5	< 1	< 1		05050902-03D
E-102	6/9/2005	7.34	28.5	950		640	< 1	< 1	< 1	5	< 1	< 1		05060846-15D
E-102	7/11/2005	7.07	28.4	910		600	< 1	< 1	< 1	4.95	< 1	< 1		05070997-03D

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
E-102	8/10/2005	7.36	27.8	1000		660	< 1	< 1	< 1	4.3	< 1	< 1		05080907-05D
E-102	9/9/2005	7.47	29	960		640	< 1	< 1	< 1	3.4	< 1	< 1		05090779-01D
E-102	10/11/2005	7.39	24.3	1070		710	< 1	< 1	< 1	4.8	< 1	< 1		05101155-03D
E-102	11/10/2005						< 1	< 1	< 1	5.2	< 1	< 1		05111011-04D
E-102	12/7/2005	7.27	24.5	1030		690	< 1	< 1	< 1	5.4	< 1	< 1		05120894-06D
E-102	1/25/2006	7.24	24.1	1140		770	< 1	< 1	< 1	4.6	< 1	< 1	20	06011686-01D
E-102	6/8/2006	6.97	26.9	1080		720	< 1	< 1	< 1	4.2	< 1	< 1		06060404-05D
E-102	9/13/2006	7.33	27.2	1150		770	< 1	< 1	< 1	5.15	< 1	< 1		06090520-18D
E-102	12/12/2006	7.19	21.9	1260		840	< 1	< 1	< 1	4.31	< 1	< 1		06120441-09D
E-102	2/22/2007	7.34	24.6	1240		830	< 1	< 1	< 1	4.12	< 1	< 1	19.5	07020844-02
E-102	5/22/2007	7.14	25.5	1220		810	< 1	< 1	< 1	4.45	< 1	< 1		07050912-01
E-102	8/22/2007	6.82	28	1180		790	< 1	< 1	< 1	4.26	< 1	< 1		07080915-14D
E-102	10/10/2007						<0.5	<0.5	<0.5	4.6	<0.5	<0.5		198348-011
E-102	1/15/2008						<0.5	<0.5	<0.5	4.1	<0.5	<0.5	17	200619-005
E-102	4/30/2008						<0.5	<0.5	<0.5	3.7	<0.5	<0.5		202978-002
E-102	8/20/2008						<0.5	<0.5	<0.5	3	<0.5	<0.5	14	205469-003
E-102	11/17/2008	7.47	24.5	1920		1000	<0.5	<0.5	<0.5	3	<0.5	<0.5		208075-002
E-102	2/18/2009	6.86	23	1924		961	<0.5	<0.5	<0.5	3.4	<0.5	<0.5	13	210199-005
E-102	5/14/2009	7.29	26.2	1852		0.932	<0.5	<0.5	<0.5	3.5	<0.5	<0.5		212166-010
E-102	8/23/2009	7.42	25.1	1933		950	<0.5	<0.5	<0.5	3	<0.5	<0.5		214393-009
E-102	12/2/2009	7.22	24.2	1930		1.08	<0.5	<0.5	<0.5	3.5	<0.5	<0.5		217016-013
E-102	2/18/2010						<0.5	<0.5	<0.5	2.8	<0.5	<0.5	14	218388-004
E-102	5/13/2010	7.1	23.7	1621		808	<0.5	<0.5	<0.5	3.4	<0.5	<0.5		220168-009
E-102	8/18/2010	7.74	26.2	1636		818	<0.5	<0.5	<0.5	2.7	<0.5	<0.5		221992-015
E-102	12/1/2010						<0.5	<0.5	<0.5	3	<0.5	<0.5		224639-058
E-102	12/2/2010												62	224639-052
E-102	2/8/2011	7.32	24.18	1951	0.55		<0.5	<0.5	<0.5	3	<0.5	<0.5	13	PGA SOUTH
E-102	5/4/2011	7.27	24.64	2.04	1.87		<0.5	<0.5	<0.5	3.1	<0.5	<0.5		PGA SOUTH
E-102	8/6/2011	7.33	25.04	1787	-93		<0.5	<0.5	<0.5	3	<0.5	<0.5		PGA SOUTH
E-102	11/18/2011	7.33	23.27	1293	0.61		<0.5	<0.5	<0.5	2.3	<0.5	<0.5	8.8	154540
E-102	2/21/2012	7.30	21.00	2313	0.36		<0.5	<0.5	<0.5	3.1	<0.5	<0.5	11	189044
E-102	5/2/2012	7.37	22.27	1964	0.79		<0.5	<0.5	<0.5	3	<0.5	<0.5		189044
E-102	8/7/2012	7.39	24.65	1892	2.05		<0.5	<0.5	<0.5	3.4	<0.5	<0.5		189044
E-102	11/5/2012	7.17	25.54	1802	.97		<0.5	<0.5	<0.5	3.1	<0.5	<0.5		189044
E-102	2/6/2013	7.12	24.75	2493	21.9		<0.5	<0.5	<0.5	3.4	<0.5	<0.5	11	189044
E-102	5/6/2013	6.94	25.33	2348	2.14		<0.5	<0.5	<0.5	3.2	<0.5	<0.5		PGA South
E-102	8/7/2013	7.29	26.15	2461	5.78		<0.5	<0.5	<0.5	3.1	<0.5	<0.5		247736-009
E-102	11/6/2013	7.19	23.2	2206	1.64		<0.5	<0.5	<0.5	3.0	<0.5	<0.5	15	250604-005
E-11	12/23/1992									15.1				212987
E-11	1/7/1993						1.5	<0.2		17	0.4	0.2		301587
E-11	5/14/1993	7.51	27.2	3050		2030	1.6	<0.2		6	<0.2	<0.2		30574309
E-11	6/25/1993	7.45	26.4	3300		1450	2.6	<0.2		5.6	<0.2	<0.2		30602718
E-11	10/8/1993	7.45	28	3040		2010	1.4	<0.2		7.7	<0.2	<0.2		31070930
E-11	10/29/1993												82	310128
E-11	12/20/1993	7.3	25	3100		2020	0.9	<0.2		7.7	<0.2	<0.2	77	31207909
E-11	4/18/1994	7.09	26.3	3670			1.5	<0.2		6.3	<0.2	<0.2		40486609
E-11	5/10/1994												76	40587505
E-11	6/16/1994	7.1	26.2	3740			2.6	<0.5		6	<0.2	0.2		40684417
E-11	9/27/1994	7.16	28	3730		2040	4	< 1		11	<0.2	<0.5		40992204
E-11	12/12/1994	7.2	24.6	3240		2180	3.4	<0.2		14	<0.2	<0.2		9412023862
E-11	12/21/1994												56	9412026711
E-11	3/23/1995	7.56	25.8	3860		2580	1.7	< 1		5.7	< 1	< 1		9503-4380-19
E-11	6/14/1995	7.58	26.4	3670		2460	1.6	< 1		5.1	< 1	< 1		9506-05930-5
E-11	9/14/1995	7.5	27.1	3600		2350								9509-07511-11
E-11	9/15/1995						1.9	< 1		5.7	< 1	< 1		9509-07511-11
E-11	12/27/1995	7.42	24.7	4030		2780	< 1	< 1		5.1	< 1	< 1	110	9512-09221-32
E-11	3/22/1996	7.38	25.3	3670		2450	1.5	< 1		4.4	< 1	< 1		9603-01428-14
E-11	3/22/1996	7.38	25.3	3670		2450	1.4	< 1		4.1	< 1	< 1	45	9603-01428-13
E-11	6/27/1996	7.65	26.5	3590		2380	1.8	< 1		7.2	< 1	< 1	68	9606-03238-10
E-11	9/25/1996	7.31	27.7	3500		2380	3.1	< 1		6.1	< 1	< 1	50	9609-04963-6
E-11	12/16/1996	7.51	24.6	3750		2500	1.1	< 1		4.4	< 1	< 1	44	9612-06522-2
E-11	2/7/1997	7.31	26.1	2710			1	< 1		3.8	< 1	< 1	43	9702-00904-3
E-11	5/7/1997												56	9705-02785-11
E-11	6/6/1997	7.57	26	2470		1650	< 1	< 1		3.5	< 1	< 1	50	9706-03503-1
E-11	9/11/1997	7.48	26.5	2420		1620	< 1	< 1		8.25	< 1	< 1		9709-05871-9
E-11	10/20/1997	7.45	25.7	2360		1570	1.5	< 1		6.1	< 1	< 1	< 5	9710-06789-5
E-11	1/23/1998	7.52	24.6	2620		1750	< 1	< 1		2.8	< 1	< 1	66	9801-00564-6
E-11	7/23/1998	7.43	27.7	2410		1650	2.1	< 1		6.6	< 1	< 1	48	9807-05117-5
E-11	1/30/1999	7.27	24.6	2740		1830	< 1	< 1		4	< 1	< 1	14	9901-00917-07
E-11	7/13/1999												33	9907-06734-008
E-11	7/26/1999	7.36	27.8	2520		1830	< 1	< 1		5	< 1	< 1		9907-06734-008

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
E-11	1/11/2000	7.54	24.7	2610		1750	< 1	< 1		3.4	< 1	< 1	42	0001-00381-006
E-11	7/19/2000	7.49	27.1	2640		1770	1.4	< 1		7.5	< 1	< 1	37	0007-06367-008
E-11	1/22/2001	7.26	24.6	2720		1820	< 1	< 1		4.5	< 1	< 1	30	0101-00601-009
E-11	6/18/2001												32	0106-04427-006
E-11	6/25/2001												34	0106-04615-007
E-11	7/2/2001												34	0107-04779-007
E-11	7/13/2001												33	0107-05115-008
E-11	8/9/2001												34	0108-05808-008
E-11	8/17/2001	7.43	28	2450		1640	1.4	< 1		4.7	< 1	< 1	37	0108-06062-003
E-11	10/12/2001												37	0110-07753-008
E-11	1/14/2002												26	0201-00427-016
E-11	1/21/2002	7.35	25.7	2540		1700	< 1	< 1		4.5	< 1	< 1	34	0201-00589-005
E-11	4/12/2002												38	0204-03063-015
E-11	7/16/2002												43	0207-05904-011
E-11	8/27/2002	7.3	27.8	2210		1480	< 1	< 1		6.7	< 1	< 1		0208-07256-005
E-11	10/7/2002												37	0210-08395-009
E-11	1/14/2003												31	0301-00459-013
E-11	3/11/2003	7.36	27.2	2330		1560	< 1	< 1	< 1	5	< 1	< 1		030302279003
E-11	4/11/2003												28	030403290016
E-11	7/10/2003												32	030706280016
E-11	9/9/2003	6.84	27.2	2140		1430	< 1	< 1	< 1	6.9	< 1	< 1	33	030908571004
E-11	10/16/2003												30	031009963006
E-11	1/16/2004												28	040100605015
E-11	2/16/2004	7.45	24.7	2380		1580	0.87	< 1	< 1	6.1	< 1	< 1		040201839006
E-11	4/19/2004												22	040404233005
E-11	7/23/2004												45	040708258008
E-11	9/17/2004	7.6	26	2110		1410	< 1	< 1	< 1	4.9	< 1	< 1		040910776003
E-11	10/14/2004												47	04101076-12B
E-11	1/13/2005	7.24	24.9	2280		1530	< 1	< 1	< 1	4.5	< 1	< 1	39	05011033-16D
E-11	4/13/2005												36	05041031-13B
E-11	7/13/2005												33.3	05070997-15B
E-11	9/13/2005	7.26	29.2	2150		1430	1.3	< 1	< 1	6.1	< 1	< 1		05090940-09D
E-11	10/14/2005												32	05101155-14B
E-11	2/15/2006	7.2	24.3	2380		1590	< 1	< 1	< 1	4	< 1	< 1		06021236-15D
E-11	4/13/2006												34	06041175-07B
E-11	8/14/2006												44	06080585-10B
E-11	9/13/2006	7.34	28	2190		1470	1.06	< 1	< 1	5.38	< 1	< 1		06090520-15D
E-11	10/19/2006												54.1	06100842-06B
E-11	1/12/2007												33.7	07010389-14
E-11	4/18/2007	7.29	25.9	2320		1550	< 1	< 1	< 1	3.33	< 1	< 1	43.3	07040678-14
E-11	7/12/2007												69.1	07070476-06B
E-11	8/22/2007	7.19	28	2120		1420	1.27	< 1	< 1	6.2	< 1	< 1		07080915-11D
E-11	10/9/2007												55	198348-017
E-11	11/18/2008	7.11	25.1	3970		1980	<0.5	<0.5	<0.5	0.5	<0.5	0.1	58	208075-003
E-11	2/19/2009	7.01	25.6	4320		2.15	<0.5	<0.5	<0.5	0.4	<0.5	<0.5	50	210200-005
E-11	5/14/2009	7.17	27.5	4.86		2.43							19	212166-006
E-11	8/23/2009	6.99	27.7	4880		2.43								214514-008
E-11	8/23/2009	6.99	27.7	4880		2.43							21	214393-011
E-11	8/23/2009	6.99	27.7	4880		2.43							17	214393-006
E-11	8/26/2009						<0.5	<0.5	<0.5	0.4	<0.5	<0.5		214514-008
E-11	2/8/2011	6.77	23.24	5430	3.95								19	PGA SOUTH
E-12	5/15/1992						2	< 1		420	< 1	< 1		205840
E-12	11/10/1992						< 1	< 1		200	< 1	< 1		211653
E-12	11/20/1992	7.55	22.7	3240		2160	<0.2	<0.2		72	<0.2	<0.2		211844
E-12	12/3/1992	7.5	23.7	3400		2270	< 2	< 2		260	< 2	< 2		212580
E-12	12/18/1992	7.35	24.8	3450			< 1	< 1		260	< 1	< 1		212907
E-12	12/31/1992	7.6	24.5	3490		2320	0.3	<0.2		210	<0.2	0.3		212030
E-12	1/12/1993	7.44	23.6	2990		1990	< 1	< 1		190	< 1	< 1		30163802
E-12	1/29/1993	7.43	25	3020		2010	1.8	1.1		310	0.9	0.6		30194307
E-12	1/30/1993	7.43	25	3020		2010	1.5	0.9		290	0.8	0.6		30194309
E-12	3/12/1993	7.3	25.4	3500		2340	1.5	1.4		310	0.6	0.5		30375806
E-12	4/2/1993	7.55	26.1	3190		2120	2	< 1		200	< 1	< 1		30453501
E-12	4/14/1993	7.54	25.4	3470		2320	1.5	0.7		170	0.5	0.3		30473101
E-12	5/14/1993	7.4	28	3330		2220	1.3	0.7		280	<0.2	0.4		30574310
E-12	5/27/1993	7.53	25.2	3600		2390	4.8	0.8		170	<0.2	0.4		30593102
E-12	6/11/1993						2.3	0.9		200	<0.2	0.4		30671902
E-12	6/25/1993	7.34	28.5	4100		1500	< 1	< 1		99	3	< 1		30602714
E-12	7/9/1993	7.54	29.6	3320		2200	2	< 1		120	< 1	< 1		30762804
E-12	7/30/1993	7.41	27.6	3210		2130	5	3		300	< 1	1		30854501
E-12	8/13/1993	7.42	25.9	3280		2190	8.1	2.2		280	0.8	1.4		30872601
E-12	8/25/1993	7.38	24.8	3120		2480	11	2.1		450	<0.2	0.9		30892301

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
E-12	9/9/1993	7.38	28.9	3450		2220	12	2.7		350	<0.4	1		30963301
E-12	9/24/1993	7.49	26.9	3610		2400	< 1	1		290	6.9	< 1		30996401
E-12	10/8/1993	7.45	30	3930			3	< 2		230	< 2	< 2		31070929
E-12	10/21/1993	7.34	25.1	3420			15	3		320	< 2	< 2		31095201
E-12	10/29/1993												48	310128
E-12	11/4/1993	7.31	25.3	3760			15	4		260	< 2	< 2		31164107
E-12	11/19/1993	7.75	24.9	3830			9	< 1		220	< 1	< 1		31198201
E-12	12/1/1993	7.33	25.6	3830		2570	16	3		240	< 1	< 1		31253001
E-12	12/20/1993	7.24	24.6	3820		2550	11	2.6		270	<0.2	0.9	51	31207910
E-12	12/21/1993	7.24	24.6	3820		2550	32	5.4		380	<0.2	1.3		31214702
E-12	1/5/1994	7.23	23.1	3690		2460	10	7		380	< 2	6		40158601
E-12	1/21/1994	7.01	22.4	3670		2460	< 2	< 2		310	< 2	< 2		40192002
E-12	2/4/1994	6.87	22.5	3700		2470	28	3.6		280	< 1	1.6		40262802
E-12	2/19/1994	7.42	24.4	3650		2440	24	2.3		200	<0.2	<0.2		40299402
E-12	3/4/1994	7.42	27	3500		2330	35	3.2		360	0.4	1.7		40363001
E-12	3/18/1994	7.49	25.7	3620		2420	38	2		220	<0.2	1.1		40393301
E-12	4/1/1994	7.54	27.4	3390		2240	32	3.9		270	<0.2	2.2		40452612
E-12	4/15/1994	7.32	27.5	3510		2550	28	2.4		270	<0.2	1.9		40484802
E-12	4/18/1994	7.15	28.1	4300			21	< 2		300	< 2	< 2		40486610
E-12	4/19/1994	7.15	28.1	4300			22	< 2		310	< 2	< 2		40486611
E-12	4/28/1994	7.25	25.7	3650		2480	62	7.5		330	< 1	5.1		40411005
E-12	5/10/1994												48	40587502
E-12	5/10/1994	7.5	27.3	3510		2320	28	2.6		270	< 1	< 1		40574404
E-12	5/27/1994	7.33	28.2	3100		2050	41	7.8		160	< 1	2.5		40511004
E-12	6/16/1994	7.02	24.5	3700		2480	27	2.5		240	0.4	2.9		40684420
E-12	9/27/1994	7.1	28	3650		2480	9.5	< 1		230	0.2	3.5		40992201
E-12	12/12/1994	7.27	24.2	3340		2220	14	<0.2		420	<0.2	5.8		9412023862
E-12	12/21/1994												23	9412026711
E-12	3/23/1995	7.21	25.3	3550		2380	< 1	< 1		385	< 1	< 1		9503-4380-15
E-12	6/14/1995	7.28	27	3220		2150	9.2	< 1		335	< 1	8.8		9506-05930-6
E-12	9/14/1995	7.27	26.8	3090		2050	3.7	< 1		289	< 1	7.6		9509-07511-6
E-12	12/27/1995	7.22	26.2	3520		2480	< 1	< 1		287	< 1	< 1		9512-09221-25
E-12	3/19/1996	7.18	27.5	2930		2120	< 1	< 1		258	< 1	10.6		9603-01387-2
E-12	6/20/1996	7.13	28.2	2880		1910	< 1	< 1		329	< 1	12.1		9606-03103-13
E-12	9/25/1996	7.23	27.9	2730		1830	< 1	< 1		272	< 1	< 1		9609-04963-4
E-12	12/16/1996	7.06	25.5	2740		1830	< 1	< 1		523	< 1	< 1		9612-06522-3
E-12	2/17/1997	7.16	26.1	2760			< 1	< 1		333	< 1	< 1		9702-01060-3
E-12	4/25/1997	7.41	25.7	1900		1260	< 1	< 1		273	< 1	< 1		9704-02536-10
E-12	5/7/1997												129	9705-02785-8
E-12	6/6/1997												127	9706-03503-7
E-12	9/11/1997	7.43	26.5	1900		1270	4.95	< 1		312	< 1	14		9709-05871-8
E-12	10/20/1997	7.4	26.8	1830		1220	4.6	< 1		281	< 1	13.4	170	9710-06789-2
E-12	1/22/1998	7.37	25.7	1830		1230	4.3	< 1		285	< 1	13.2		9801-00564-3
E-12	4/20/1998	7.34	27.7	1840		1230	3.8	< 1		273	< 1	10.8		9804-02699-5
E-12	7/23/1998	7.38	28.5	1740		1160	3.4	< 1		249	< 1	10.7	198	9807-05117-2
E-12	10/30/1998	7.25	24.5	1860		1250	2.4	< 1		238	< 1	9.6	153	9811-07838-13
E-12	1/30/1999	7.17	25.1	1890		1260	1.7	< 1		189	< 1	6.8	170	9901-00917-04
E-12	4/13/1999	7.47	26.2	1940		1300	1.7	< 1		165	< 1	6.2	169	9904-03467-06
E-12	7/13/1999	7.39	26.5	1840		1230	1.4	< 1		163	< 1	4.8	173	9907-06230-003
E-12	10/15/1999	7.17	27.8	1830		1220	2.8	< 1		216	< 1	9.1	275	9910-09461-006
E-12	1/18/2000	7.13	25.2	1940		1300	3.1	< 1		194	< 1	7.8	213	0001-00605-002
E-12	4/3/2000	7.3	27.6	1900		1270	2.5	< 1		164	< 1	7.4	188	0004-02940-003
E-12	7/19/2000	7.38	27.9	2120		1420	2.9	< 1		153	< 1	7.4	232	0007-06367-009
E-12	10/16/2000	7.42	27.3	1920		1280	2.3	< 1		160	< 1	10.7	100	0010-09068-004
E-12	1/22/2001	7.27	26.2	1970		1520	2	< 1		212	< 1	8.5	177	0101-00601-007
E-12	4/17/2001	7.07	27.9	1940		1290	4	< 1		249	< 1	10.3	180	0104-02877-002
E-12	6/18/2001												151	0106-04427-007
E-12	6/25/2001												148	0106-04615-008
E-12	7/2/2001												176	0107-04779-008
E-12	7/13/2001												165	0107-05115-009
E-12	8/9/2001												183	0108-05808-009
E-12	8/17/2001	7.21	28	2080		1390	2.3	< 1		170	< 1	4.2	207	0108-06062-004
E-12	9/10/2001												205	0109-06717-011
E-12	10/12/2001												186	0110-07753-009
E-12	11/12/2001												159	0111-08678-008
E-12	11/16/2001	7.24	27.5	1970		1320	2.2	< 1		190	< 1	9	148	0111-08851-006
E-12	12/14/2001												156	0112-09595-008
E-12	1/14/2002												145	0201-00427-017
E-12	1/21/2002	7.17	26.5	1970		1310	2	< 1		185	< 1	7.4	176	0201-00589-010
E-12	2/12/2002												168	0202-01294-010
E-12	3/13/2002												131	0203-02102-010

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
E-12	3/19/2002												146	0203-02258-004
E-12	4/12/2002												208	0204-03063-016
E-12	5/9/2002												157	0205-03823-009
E-12	5/21/2002	7.43	27.7	1560		1040	1.5	< 1		147	< 1	10.3		0205-04172-005
E-12	6/14/2002												192	0206-04956-002
E-12	7/16/2002												204	0207-05904-010
E-12	8/14/2002												171	0208-06905-002
E-12	8/27/2002	7.34	28.3	2260		1510	1.8	< 1		181	< 1	2.4		0208-07256-009
E-12	9/10/2002												181	0209-07587-009
E-12	10/7/2002												184	0210-08395-010
E-12	10/17/2002	7.29	26.9	2270		1520	1.6	< 1		205	< 1	2.5		0210-08788-002
E-12	11/6/2002												265	0211-09350-009
E-12	12/12/2002												188	0212-10571-010
E-12	1/14/2003												222	0301-00459-014
E-12	2/18/2003												200	0302-01525-004
E-12	3/11/2003	7.08	27.3	2240		1500	2	< 1	< 1	255	< 1	4.4		030302279002
E-12	3/13/2003												174	030302316007
E-12	4/11/2003												171	030403290017
E-12	5/15/2003												237	030504425009
E-12	6/16/2003												190	030605492002
E-12	7/10/2003												207	030706280017
E-12	8/15/2003												233	030807651009
E-12	9/10/2003	7.28	28.2	2300		1530	3.3	< 1	< 1	186	< 1	5	191	030908571007
E-12	11/14/2003												214	031111068010
E-12	12/12/2003												214	031212173005
E-12	1/16/2004												248	040100605016
E-12	2/12/2004												651	040201599011
E-12	2/17/2004	7.41	23.9	2300		1540	1.9	< 1	0.86	190	< 1	3.6		040201839011
E-12	3/11/2004												230	040302734009
E-12	4/19/2004												193	040404233006
E-12	5/14/2004												181	040505319004
E-12	11/11/2004												200	04110939-09B
E-12	12/10/2004												180	04120925-04B
E-12	1/13/2005	7.31	23.4	2330		1560	1.3	< 1	1.3	130	< 1	2.2	200	05011033-14D
E-12	2/10/2005												180	05021023-10B
E-12	3/10/2005												160	05031045-03B
E-12	4/13/2005												170	05041031-14B
E-12	5/11/2005												150	05050902-11B
E-12	7/13/2005												143	05070997-16B
E-12	8/10/2005												320	05080907-03B
E-12	9/13/2005	7.2	29.5	1870		1240	1.6	< 1	1	130	< 1	2.1	140	05090940-10D
E-12	10/14/2005												130	05101155-15B
E-12	11/14/2005												160	05111097-05B
E-12	12/9/2005												170	05120894-23B
E-12	1/5/2006												180	06010681-08B
E-12	2/13/2006												130	06021236-06B
E-12	2/16/2006	7.33	19.9	2270		1520	1.2	< 1	< 1	110	< 1	1.8		06021236-17D
E-12	3/17/2006												140	06031366-09B
E-12	4/13/2006												120	06041175-08B
E-12	5/11/2006												140	06050997-03B
E-12	8/14/2006												190	06080585-11B
E-12	9/12/2006												143	06090520-03B
E-12	9/12/2006	7.29	28.4	2050		1370	1.38	< 1	1.06	269.1	< 1	1.54		06090520-03D
E-12	10/19/2006												166	06100842-07B
E-12	11/15/2006												117	06110625-15B
E-12	12/12/2006												137	06120441-03B
E-12	1/12/2007												128	07010389-09
E-12	2/12/2007												135	07020516-09
E-12	3/21/2007	7.08	25.7	2400		1600	2.05	< 1	1.08	209.8	< 1	2.27		07030679-14
E-12	4/11/2007												157	07040678-09
E-12	5/15/2007												164	07050624-09
E-12	6/14/2007												187	07060543-09
E-12	7/13/2007												145	07070476-07B
E-12	8/8/2007												140	07080415-08B
E-12	8/22/2007	6.65	28.1	2350		1570	2.51	< 1	1.37	188.55	< 1	2.63		07080915-13D
E-12	9/13/2007												157	07090478-03B
E-12	10/10/2007												130	198348-007
E-12	11/7/2007												120	199171-007
E-12	12/6/2007												150	199822-007
E-12	1/16/2008						1.5	< 1	1.3	100	< 1	1.5	120	200619-013
E-12	2/12/2008												120	201202-005

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
E-12	3/13/2008												400	201931007
E-12	4/17/2008												110	202698-003
E-12	5/13/2008												100	203270-006
E-12	6/16/2008						1.2	<0.5	0.7	97	<0.5	1.8	150	204021-008
E-12	6/18/2008													204079-009
E-12	7/16/2008												160	204674-004
E-12	8/20/2008						2.2	<0.8	1.1	160	<0.8	2.8	100	205469-004
E-12	9/11/2008												100	206007-002
E-12	10/7/2008												110	206689-009
E-12	11/17/2008	6.77	25.9	3750		1870	1.7	< 1	1	120	< 1	2.5	110	208075-032
E-12	12/18/2008	6.59	28.6	4060		2.02								209312-006
E-12	12/18/2008	6.94	19.3	2780		1390							12	208810-008
E-12	1/15/2009												140	209312-006
E-12	2/18/2009						1.6	< 1	1.2	140	< 1	2.3	110	210200-011
E-12	2/18/2009	7.07	24.5	3740		1.87	2.5	<0.5	1.4	130	<0.5	2.5	130	210200-010
E-12	3/11/2009	6.85	25.5	3.68		1.84							98	210629-004
E-12	4/14/2009	6.61	26	3680		1840							91	211506-002
E-12	5/14/2009	7.11	25.5	3560		1.78	1.5	< 1.3	0.9	150	< 1.3	2.7	91	212166-008
E-12	5/14/2009	7.11	25.5	3560		1.78	1.3	<0.7	1	130	<0.7	2.5	87	212166-007
E-12	6/29/2009	6.77	26.9	3510		1.75							93	213205-002
E-12	7/15/2009	6.87	27.8	3470		1.73							89	213608-002
E-12	8/23/2009	6.91	28.1	3820		1.91	1.8	< 1.7	1.3	140	< 1.7	2.5	83	214393-007
E-12	8/23/2009	6.91	28.1	3820		1.91	2.2	< 1	1.3	160	< 1	3.2	73	214393-010
E-12	9/16/2009												92	215010-003
E-12	10/20/2009												89	215908-003
E-12	11/18/2009	6.88	23.5	3700		1.82							80	216662-003
E-12	12/2/2009	6.97	25	3760		1.88	2.7	< 1	1.5	110	< 1	3.1	84	217016-011
E-12	1/13/2010												77	217772-004
E-12	2/23/2010	6.6	25.9	3710		1.86	2.2	< 1	1.5	120	< 1	2.7	79	218482-006
E-12	2/23/2010	6.6	25.9	3710		1.86	2	< 1	1.6	120	< 1	2.8	76	218482-005
E-12	3/9/2010												68	218712-003
E-12	4/14/2010												71	219502-005
E-12	5/13/2010	6.71	25.3	3660		1.82	1.9	<0.5	1.4	120	<0.5	3	68	220168-006
E-12	6/22/2010												31	220905-003
E-12	7/14/2010	7.6	27	3500		1.75							54	221286-003
E-12	8/18/2010	7.6	26.7	3.53		1.76	1.1	< 1	1	94	< 1	1.8	56	221992-007
E-12	10/20/2010												52	223362-004
E-12	11/4/2010												57	223810-006
E-12	12/2/2010												60	224639-048
E-12	1/4/2011												49	PGA SOUTH
E-12	2/3/2011	7.1	19.98	3844	4.82								59	PGA SOUTH
E-12	3/1/2011												59	PGA SOUTH
E-12	4/5/2011												62	PGA SOUTH
E-12	5/3/2011												48	PGA SOUTH
E-12	6/2/2011												57	PGA SOUTH
E-12	7/5/2011												56	PGA SOUTH
E-12	8/1/2011												60	PGA SOUTH
E-12	9/7/2011												64	PGA SOUTH
E-12	10/5/2011												66	154540
E-12	11/7/2011						1.6	<1	1.1	110	<1	2.4	65	PGA SOUTH
E-12	11/8/2011	6.9	22.72	2886	1.83		1.5	<0.7	1.5	110	<0.7	2.3		154540
E-12	11/9/2011	6.88	24.3	2828	1.22								56	154540
E-12	12/7/2011												140	189044
E-12	1/3/2012	7.24	24.91	3910	10.3								58	189044
E-12	2/2/2012	6.92	24.51	3728	2.56		0.6	<0.7	1.1	100	<0.7	2.3	55	189044
E-12	3/1/2012						1.8	<0.5	1.2	100	<0.5	2.7	52	189044
E-12	4/2/2012						0.8	<1	1.3	120	<1	2.8	56	189044
E-12	5/11/2012	6.96	25.18	3270	1.68		0.5	<1	1.3	130	<1	2.9	50	189044
E-12	6/4/2012	7.14	23.48	3307	2.3		1.7	<1	1.1	110	<1	2.7	48	189044
E-12	7/2/2012	6.78	28.41	3294	3.18		2	<0.5	1.9	120	<0.5	3	43	189044
E-12	8/2/2012	6.72	28.12	3252	1.6		1.7	<0.5	1.5	120	<0.5	3	46	189044
E-12	9/4/2012	6.97	27.96	4020	3.89		1.7	<0.5	1.9	96	<0.5	2.6	40	189044
E-12	10/1/2012	6.94	27.25	3962	1.58		2	<0.5	1.3	91	<0.5	2.6	41	189044
E-12	11/5/2012	7.26	24.08	2931	2.34		1.2	<0.5	1.2	110	<0.5	2.3	43	189044
E-12	12/3/2012	6.85	22.6	3747	2.06		0.9	<0.7	1.2	110	<0.7	2.1	46	189044
E-12	1/2/2013						2	<0.7	1.4	100	<0.7	3.3	40	189044
E-12	2/4/2013						1.7	<0.5	1.7	110	<0.5	2.6	42	189044
E-12	3/4/2013						1.3	<0.7	1.4	100	<0.7	2.1	41	189044
E-12	4/1/2013						1.8	<0.7	1.3	110	<0.7	2.2	40	189044
E-12	5/6/2013	6.58	24.89	3636	12.1		1.3	<0.5	1.4	68	<0.5	2.9	38	PGA South
E-12	6/3/2013						0.8	<0.5	1.1	100	<0.5	2.6	41	39049-103

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
E-12	7/1/2013						1.1	< 1.0	1.5	110	< 1.0	2.5	36	246655-008
E-12	8/7/2013						0.8 J	< 1.0	1.5	100	< 1.0	2.2	37	247738-008
E-12	9/4/2013						0.8 J	< 1.0	1.4	90	< 1.0	2.1	32	248701-008
E-12	10/2/2013						1.1	<0.5	1.5	77	<0.5	2.0	34	249598-008
E-12	11/5/2013						0.7	<0.5	0.9	85	<0.5	1.8	32	250558-008
E-12	12/2/2013						0.8	<0.5	1.2	99	<0.5	1.7	34	251273-008
E-16	4/3/1995						< 1	< 1		< 1	< 1	< 1		9503-4544-2
E-16	6/14/1995	7.83	25.7	3270		2190	< 1	< 1		5.1	< 1	< 1	117	9506-05930-7
E-16	9/15/1995	7.78	25	3430		2280	< 1	< 1		3	< 1	< 1		9509-07511-10
E-16	12/27/1995	7.43	24.4	3610		2460	< 1	< 1		2.9	< 1	< 1	18	9512-09221-27
E-16	3/21/1996	7.45	25	3000		2000	< 1	< 1		1.9	< 1	< 1	10	9603-01428-8
E-16	6/27/1996	7.54	25.9	2310		1530	< 1	< 1		< 1	< 1	< 1	11	9606-03238-6
E-16	9/25/1996	7.31	26.2	2450		1600	< 1	< 1		< 1	< 1	< 1	5	9609-04963-5
E-16	12/16/1996	7.61	22.8	3180		2120	< 1	< 1		< 1	< 1	< 1	6	9612-06522-5
E-16	2/7/1997	7.47	24.7	2740			< 1	< 1		< 1	< 1	< 1	13	9702-00904-2
E-16	5/7/1997												14	9705-02785-10
E-16	6/6/1997	7.7	25.6	1570		1050	< 1	< 1		< 1	< 1	< 1	6	9706-03503-5
E-16	9/11/1997	7.58	25.4	2080		1390	< 1	< 1		< 1	< 1	< 1		9709-05871-3
E-16	10/20/1997	7.44	24.9	2320		1550	< 1	< 1		< 1	< 1	< 1	6	9710-06789-4
E-16	1/22/1998	7.56	23.4	2560		1720	< 1	< 1		< 1	< 1	< 1	19	9801-00564-4
E-16	7/23/1998	7.46	26.8	2530		1690	< 1	< 1		< 1	< 1	< 1	17	9807-05117-4
E-16	1/30/1999	7.36	24.6	2730		1830	< 1	< 1		< 1	< 1	< 1	13	9901-00917-13
E-16	8/5/1999	7.58	25.2	2750		1840	< 1	< 1		< 1	< 1	< 1	34	9908-07087-001
E-16	1/18/2000	7.71	23.3	2850		1910	< 1	< 1		< 1	< 1	< 1	7	0001-00605-003
E-16	8/11/2000	7.79	27.1	2860		1920	< 1	< 1		< 1	< 1	< 1	14	0008-07186-006
E-16	1/23/2001	7.36	24.6	2830		1890	< 1	< 1		< 1	< 1	< 1	19	0101-00601-010
E-16	3/26/2004												11	040403548001
E-16	3/22/2006	7.17	24.8	2300		1530	< 1	< 1	< 1	< 1	< 1	< 1	22	06031725-03D
E-16	4/11/2006												26	06041030-05B
E-16	8/14/2006												22	06080585-12B
E-16	10/19/2006												40.8	06100842-08B
E-16	1/12/2007												22.6	07010389-15
E-16	3/12/2007	7.55	26.7	2010		1340	< 1	< 1	< 1	< 1	< 1	< 1		07030441-07
E-16	4/11/2007												35.3	07040678-10
E-16	7/12/2007												34.8	07070476-08B
E-16	1/15/2008						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	8.5	200619-007
E-16	11/19/2008	6.88	26	1552		777	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		208075-035
E-16	2/18/2009	7.54	25	3310		1.62	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6	210200-006
E-16	2/23/2010	6.75	23.5	3440		1.71	<0.5	<0.5	<0.5	0.2	<0.5	<0.5	5.1	218482-007
E-16	2/8/2011	7.36	23.09	3155	0.42		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 5	PGA SOUTH
E-16	2/7/2012	7.45	21.67	3023	5.32		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.6	189044
E-16	2/6/2013	7.36	21.76	4034	3.72		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.1	189044
E-17	12/20/1993									150			1140	31207911
E-17	12/28/1993	7.12	23.5	2430		3650	<0.2	<0.2		170	<0.2	0.2	1240	31219406
E-17	1/6/1994	6.98	19.9	3600		2400							1220	40158603
E-17	1/21/1994												1180	40194001
E-17	2/9/1994	7.1											963	40273603
E-17	2/10/1994												1050	40273604
E-17	2/23/1994	7.1											1130	40208501
E-17	7/18/1994												382	407803
E-17	7/19/1994												704	407819
E-17	7/20/1994												841	407847
E-17	7/23/1994												824	407927
E-17	7/25/1994												886	407947
E-17	7/26/1994												809	497967
E-17	7/27/1994												842	407995
E-17	8/4/1994												800	408592
E-17	8/5/1994												309	408629
E-17	8/8/1994												731	408647
E-17	8/9/1994												800	408678
E-17	8/10/1994												753	408717
E-17	8/11/1994												810	408748
E-17	8/12/1994												797	408792
E-17	11/17/1994												750	9411-01943-1
E-17	11/17/1994												350	9411-01943-2
E-17	11/28/1994												298	9411-01943-2
E-17	11/28/1994												649	9411-01943-1
E-17	3/15/1995												665	9503-04200-1
E-17	3/17/1995												787	9503-04278-1
E-17	6/14/1995												301	9506-05930-8
E-17	6/20/1995	7.17	27.3	3240		2170	4.1	< 1		57.4	< 1	< 1		9506-05974-11

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
E-17	8/3/1995												750	408560
E-17	9/15/1995	7.09	27.3	3130		2060	4.5	< 1		63.1	< 1	< 1		9509-07511-13
E-17	12/27/1995	7.12	25.3	3150		2080	3	< 1		30.3	< 1	< 1	272	9512-09221-30
E-17	1/9/1996												200	9601-00136-1
E-17	1/10/1996												< 5	9601-00159-1
E-17	1/11/1996												380	9601-00204-1
E-17	1/12/1996												410	9601-00212-1
E-17	1/15/1996												440	9601-00228-1
E-17	1/16/1996												420	9601-00245-1
E-17	1/17/1996												470	9601-00276-1
E-17	1/18/1996												220	9601-00338-1
E-17	1/19/1996												440	9601-00338-3
E-17	2/20/1996												140	9602-00826-1
E-17	2/21/1996												170	9602-00856-1
E-17	2/22/1996												280	9602-00876-1
E-17	2/28/1996												420	9602-00948-1
E-17	2/29/1996												450	9602-00969-1
E-17	3/1/1996												470	9603-00996-1
E-17	3/4/1996												460	9603-01034-1
E-17	3/21/1996												459	9603-01425-1
E-17	3/22/1996												609	9603-01425-3
E-17	3/22/1996	6.96	25.7	2920		1970	5.8	< 1		67.4	< 1	< 1	527	9603-01428-15
E-17	3/25/1996												610	9603-01471-1
E-17	3/26/1996												510	9603-01471-3
E-17	3/27/1996												1300	9603-01487-1
E-17	3/28/1996												450	9603-01520-1
E-17	3/29/1996												440	9603-01554-1
E-17	6/27/1996	6.98	27.7	3130		2080	3.1	< 1		72.5	< 1	< 1	271	9606-03238-7
E-17	7/22/1996												135	9607-03664-7
E-17	7/22/1996												84	9607-03664-5
E-17	7/22/1996												227	9607-03664-3
E-17	7/22/1996												187	9607-03664-1
E-17	7/23/1996												300	9607-03694-3
E-17	7/23/1996												< 5	9607-03664-9
E-17	7/23/1996												180	9607-03694-1
E-17	7/24/1996												390	9607-03694-5
E-17	7/25/1996												404	9607-03756-1
E-17	7/25/1996												416	9607-03725-1
E-17	7/26/1996												288	9607-03756-3
E-17	8/8/1996												454	9608-04001-1
E-17	8/9/1996												492	9608-04024-1
E-17	8/12/1996												491	9608-04056-1
E-17	8/13/1996												480	9608-04074-1
E-17	8/14/1996												1200	9608-04141-1
E-17	9/10/1996												240	9609-04634-1
E-17	9/11/1996												490	9609-04634-3
E-17	9/12/1996												496	9609-04654-1
E-17	9/13/1996												29	9609-04687-1
E-17	9/16/1996												420	9609-04729-1
E-17	9/26/1996	6.96	26.1	3230		2180	< 1	< 1		53	< 1	< 1	468	9609-04963-23
E-17	11/15/1996												300	9611-05962-1
E-17	11/17/1996												470	9611-05971-1
E-17	11/18/1996												450	9611-05971-3
E-17	11/19/1996												400	9611-06026-1
E-17	11/20/1996												400	9611-06026-3
E-17	11/21/1996												430	9611-06049-1
E-17	11/22/1996												420	9611-06082-1
E-17	12/31/1996	6.78	25.3	3300		2210	12.1	< 1		77.2	< 1	< 1	271	9701-00017-2
E-17	1/30/1997												< 10	9701-00675-2
E-17	1/30/1997												< 10	9701-00675-4
E-17	2/10/1997												470	9702-00924-2
E-17	2/11/1997												500	9702-00924-4
E-17	2/12/1997												490	9702-00975-1
E-17	2/27/1997	6.83	23.6	3310			< 1	< 1		65.5	< 1	< 1	454	9702-01315-13
E-17	3/26/1997												272	9703-01852-1
E-17	3/27/1997												272	9703-01897-56
E-17	3/27/1997												460	9703-01897-55
E-17	3/27/1997												460	9703-01887-1
E-17	5/5/1997												399	9705-02713-2
E-17	5/6/1997												478	9705-02713-4
E-17	6/18/1997	7.14	28.4	2160		1450	5.2	< 1		50	< 1	< 1	323	9706-03832-16

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
E-17	6/30/1997												70	9707-04053-2
E-17	7/1/1997												400	9707-04053-6
E-17	7/2/1997												380	9707-04149-2
E-17	9/25/1997	7.04	27.7	2100		1400	5.9	< 1		144	< 1	3.9		9709-06208-26
E-17	12/19/1997												316	9712-08185-16
E-17	1/6/1998	6.89	25.2	2130		1420	8.3	1		54.4	1	1		9801-00105-1
E-17	2/27/1998	6.91	25.7	2260		1510	6.6	< 1		48.1	< 1	< 1		9803-01373-3
E-17	4/21/1998	6.97	27.9	2170		1450	7	< 1		51.7	< 1	< 1		9804-02709-2
E-17	4/21/1998	6.97	27.9	2170		1450	6.9	< 1		45.9	< 1	< 1		9804-02709-1
E-17	9/15/1998	7.05	28.8	2210		1470	4.4	< 1		35.8	< 1	< 1	221	9809-06485-5
E-17	10/30/1998	6.77	24	2270		1520	6	< 1		43.6	< 1	< 1	207	9811-07838-11
E-17	2/9/1999	6.94	26.3	2200		1470	3.8	< 1		32.9	< 1	< 1		9902-01334-21
E-17	2/9/1999	6.94	26.3	2200		1470	4.1	< 1		32.8	< 1	< 1	237	9902-01334-18
E-17	4/13/1999	7.01	26.7	2270		1520	4.9	< 1		49.6	< 1	< 1	182	9904-03467-05
E-17	7/31/1999	6.91	25.9	2280		1530	6.1	< 1		38.8	< 1	< 1	175	9908-06887-022
E-17	10/15/1999	6.93	27.8	2300		1590	5.4	< 1		35	< 1	< 1	207	9910-09461-007
E-17	2/4/2000	7	26.8	2410		1610	5.2	< 1		34.2	< 1	< 1	147	0002-01169-006
E-17	4/3/2000	7.06	27.9	2580		1720	5	< 1		37.4	< 1	< 1	133	0004-02940-004
E-17	8/1/2000	7.02	28.1	2860		1910	3.8	< 1		30.6	< 1	< 1	102	0008-06763-002
E-17	10/16/2000	7.06	28.2	2720		1810	5.4	< 1		35.1	< 1	< 1	129	0010-09068-005
E-17	1/23/2001	6.86	26.2	2660		1780	2.3	< 1		34	< 1	< 1	123	0101-00601-015
E-17	4/17/2001	7.01	28.7	2590		1730	5.7	< 1		38.3	< 1	< 1	135	0104-02877-003
E-17	6/18/2001												126	0106-04427-008
E-17	6/25/2001												184	0106-04615-009
E-17	7/2/2001												192	0107-04779-009
E-17	7/13/2001												179	0107-05115-010
E-17	8/9/2001												209	0108-05808-010
E-17	8/17/2001	7.05	28.5	2620		1750	3.3	< 1		30	< 1	1.2	201	0108-06062-005
E-17	9/10/2001												228	0109-06717-012
E-17	10/12/2001												196	0110-07753-010
E-17	11/12/2001												197	0111-08678-009
E-17	11/16/2001	6.89	27.4	2870		1920	3.6	< 1		39.2	< 1	< 1	206	0111-08851-004
E-17	12/14/2001												191	0112-09595-010
E-17	1/14/2002												179	0201-00427-018
E-17	1/21/2002	6.87	25.3	2940		1970	3.8	< 1		45.2	< 1	1.3	201	0201-00589-006
E-17	2/12/2002												189	0202-01294-011
E-17	3/13/2002												159	0203-02102-011
E-17	3/19/2002												190	0203-02258-003
E-17	4/12/2002												224	0204-03063-017
E-17	5/9/2002												179	0205-03823-010
E-17	5/21/2002	7.06	29	2850		1900	2	< 1		38	< 1	< 1		0205-04172-003
E-17	6/14/2002												188	0206-04956-003
E-17	7/16/2002												153	0207-05904-012
E-17	8/14/2002												139	0208-06905-003
E-17	9/5/2002	7.05	30.2	7830		1890	1.2	< 1		27.8	< 1	< 1		0209-07468-003
E-17	10/17/2002	7.04	29	2810		1880	2.8	< 1		28.6	< 1	< 1	97	0210-08788-003
E-17	3/11/2003	6.94	28.4	2780		1860	2.5	< 1	< 1	27.1	< 1	< 1	86	030302279006
E-17	5/15/2003												168	030504425010
E-17	6/16/2003												153	030605492003
E-17	7/10/2003												140	030706280018
E-17	8/15/2003												154	030807651010
E-17	9/9/2003	6.88	27.8	2890		1930	3.2	< 1	< 1	45.1	< 1	< 1	147	030908571005
E-17	10/16/2003												138	031009963007
E-17	11/14/2003												142	031111068012
E-17	12/12/2003												155	031212173006
E-17	1/16/2004												161	040100605017
E-17	2/12/2004												158	040201599010
E-17	2/16/2004	6.94	25.5	2780		1860	2.2	< 1	< 1	44	< 1	1.9		040201839007
E-17	3/11/2004												169	040302734008
E-17	4/19/2004												156	040404233007
E-17	5/14/2004												173	040505319005
E-17	8/17/2004												143	040809425005
E-17	9/17/2004	6.87	25.9	2890		1930	< 1	< 1	< 1	37	< 1	< 1	157	040910776002
E-17	10/14/2004												190	04101076-13B
E-17	11/11/2004												170	04110939-10B
E-17	12/10/2004												170	04120925-03B
E-17	1/13/2005	6.75	24.7	2890		1940	2.6	< 1	< 1	44	< 1	2.1	180	05011033-15D
E-17	2/10/2005												190	05021023-09B
E-17	3/10/2005												180	05031045-04B
E-17	4/13/2005												190	05041031-15B
E-17	5/11/2005												190	05050902-10B

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
E-17	6/10/2005												190	05060846-27B
E-17	7/12/2005												183	05070997-17B
E-17	8/10/2005												170	05080907-02B
E-17	12/9/2005	7.06	24.2	2040		1370	2.2	< 1	1.1	210	< 1	3.3	140	05120894-24D
E-17	1/5/2006												170	06010681-09B
E-17	2/13/2006												160	06021236-08B
E-17	2/15/2006	7.02	24.9	2630		1760	2.5	< 1	< 1	43	< 1	4		06021236-16D
E-17	3/17/2006												170	06031366-08B
E-17	4/11/2006												180	06041030-06B
E-17	5/11/2006												180	06050997-02B
E-17	8/14/2006												150	06080585-13B
E-17	9/12/2006												146	06090520-02B
E-17	9/13/2006	6.93	29.1	2970		1980	2	< 1	< 1	38.91	< 1	2.49		06090520-17D
E-17	10/19/2006												142	06100842-09B
E-17	11/14/2006												116	06110625-14B
E-17	12/12/2006												97.3	06120441-04B
E-17	1/12/2007												121	07010389-10
E-17	2/12/2007												152	07020516-08
E-17	3/7/2007	6.98	24.2	3190		2130	1.66	< 1	< 1	34.48	< 1	2.68	121	07030441-05
E-17	4/11/2007												128	07040678-11
E-17	5/15/2007												115	07050624-08
E-17	6/14/2007												106	07060543-10
E-17	7/12/2007												117	07070476-09B
E-17	8/8/2007												110	07080415-07B
E-17	8/22/2007	6.72	28.4	3070		2050	2.02	< 1	< 1	33.93	< 1	2.35		07080915-10D
E-17	9/13/2007												109	07090478-02B
E-17	10/10/2007												96	198348-008
E-17	11/7/2007												96	199171-008
E-17	12/7/2007												93	199822-008
E-17	1/15/2008						0.8	<0.5	0.2	20	<0.5	0.8	53	200619-006
E-17	2/12/2008												100	201202-003
E-17	3/13/2008												120	201931006
E-17	4/17/2008												110	202698-004
E-17	5/13/2008												110	203270-004
E-17	6/16/2008												110	204021-009
E-17	7/16/2008												16	204674-005
E-17	8/20/2008						<0.5	<0.5	<0.5	12	<0.5	<0.5	18	205469-005
E-17	9/11/2008												86	206007-003
E-17	10/7/2008												100	206689-003
E-17	11/17/2008	6.75	25.7	4960		2480							110	208075-033
E-17	12/17/2008	6.89	27.1	2810		1.41								209312-007
E-17	12/17/2008	6.78	25.7	2860		1430							77	208810-006
E-17	1/15/2009												21	209312-007
E-17	2/18/2009	6.77	25.4	4940		2.64	1.7	<0.5	<0.5	32	<0.5	3.5	100	210199-006
E-17	3/11/2009	6.83	24.9	4.84		2.41							110	210629-001
E-17	4/14/2009	6.71	25.5	4810		2400							100	211506-004
E-17	5/21/2009	6.84	26.9	4700		2.36	1.8	<0.5	0.1	36	<0.5	4.1	130	212366-001
E-17	5/21/2009	6.84	26.9	4700		2.36	2.1	<0.5	0.2	37	<0.5	4	120	212366-002
E-17	6/29/2009	6.66	28.2	4600		2.3							230	213205-004
E-17	7/15/2009	6.91	28.1	4560		2.29							130	213608-004
E-17	8/23/2009	6.69	27.2	5050		2.52	2.1	<0.5	0.1	36	<0.5	3.9	130	214393-008
E-17	9/16/2009												150	215010-004
E-17	10/20/2009												150	215908-004
E-17	11/18/2009	6.77	23.7	4760		2.37							130	216662-004
E-17	12/2/2009	6.91	25.3	4830		2.47	2.9	<0.5	0.2	29	<0.5	4.6	130	217016-012
E-17	1/13/2010												120	217772-003
E-17	2/18/2010	6.43	26.4	4800		2.4	2.1	<0.5	0.2	28	<0.5	3.4	140	218388-003
E-17	3/9/2010												120	218712-004
E-17	4/14/2010												160	219502-006
E-17	5/13/2010												130	220168-007
E-17	6/22/2010												130	220905-004
E-17	7/14/2010	7.54	27.1	4570		2.28							160	221286-004
E-17	8/18/2010	7.52	27.7	4580		2.29	2.1	<0.5	0.1	30	<0.5	3.5	140	221992-009
E-17	10/20/2010												190	223362-003
E-17	11/4/2010												140	223810-007
E-17	12/2/2010												160	224639-050
E-17	1/4/2011												150	PGA SOUTH
E-17	2/3/2011	7.11	21.63	5166	1.47								180	PGA SOUTH
E-17	3/1/2011												180	PGA SOUTH
E-17	4/5/2011												180	PGA SOUTH
E-17	5/3/2011												150	PGA SOUTH

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
E-17	6/2/2011												170	PGA SOUTH
E-17	7/5/2011												170	PGA SOUTH
E-17	8/2/2011												190	PGA SOUTH
E-17	9/7/2011												170	PGA SOUTH
E-17	10/5/2011												150	154540
E-17	11/7/2011												180	PGA SOUTH
E-17	12/7/2011												140	189044
E-17	1/3/2012	7.19	23.29	4853	21.5								170	189044
E-17	2/2/2012	6.88	24.49	4738	7.37		2.2	<0.5	0.1	37	<0.5	5	160	189044
E-17	3/1/2012						2.4	<0.5	0.1	31	<0.5	4.5	150	189044
E-17	4/2/2012						1.6	<0.5	<0.5	31	<0.5	4.5	160	189044
E-17	5/11/2012	6.99	25.12	4145	2.67		1.6	<0.5	<0.5	30	<0.5	4	140	189044
E-17	6/4/2012	7.08	22.15	4098	7.15		2.5	<0.5	0.1	31	<0.5	4.8	150	189044
E-17	7/2/2012	6.85	27.55	4043	1.83		1.7	<0.5	<0.5	30	<0.5	4	150	189044
E-17	8/2/2012	7.31	26.32	4045	11.7		1.8	<0.5	<0.5	30	<0.5	4.1	120	189044
E-17	9/4/2012	6.87	28.44	4996	10.8		2.7	<0.5	0.1	30	<0.5	3.4	140	189044
E-17	10/1/2012	6.84	26.08	4757	6.05		1.7	<0.5	<0.5	24	<0.5	4	120	189044
E-17	11/5/2012	7.14	23.62	3545	13.9		1.4	<0.5	<0.5	32	<0.5	3.1	130	189044
E-17	12/3/2012	6.75	20.15	4419	10.7		2.6	<0.5	0.1	30	<0.5	3.8	130	189044
E-17	1/2/2013						1.8	<0.5	<0.5	31	<0.5	4.1	140	189044
E-17	2/4/2013	6.86	22.47	4721	37.7		2	<0.5	0.1	27	<0.5	3.6	160	189044
E-17	3/4/2013						2.1	<0.5	<0.5	32	<0.5	3.8	150	189044
E-17	4/1/2013						1.8	<0.5	<0.5	30	<0.5	3.5	160	189044
E-17	5/6/2013	6.65	24.88	4596	5.63		1.8	<0.5	<0.5	31	<0.5	4.1	150	PGA South
E-17	6/3/2013						1.6	<0.5	<0.5	30	<0.5	3.3	140	39049-103
E-17	7/1/2013						1.6	<0.5	<0.5	26	<0.5	3.6	140	246655-009
E-17	8/7/2013						1.3	<0.5	<0.5	27	<0.5	3.5	140	247738-009
E-17	9/4/2013						1.5	<0.5	<0.5	29	<0.5	3.4	140	248701-009
E-17	10/2/2013						1.5	<0.5	<0.5	29	<0.5	3.3	150	249598-009
E-17	11/5/2013						1.2	<0.5	<0.5	29	<0.5	2.9	140	250558-009
E-17	12/2/2013						1.9	<0.5	0.1 J	31	<0.5	3.3	140	251273-009
E-17 EFF	7/18/1994												12400	407803
E-17 EFF	7/19/1994												99	407819
E-17 EFF	7/20/1994												50	407847
E-17 EFF	7/23/1994												30	407927
E-17 EFF	7/25/1994												321	407947
E-17 EFF	7/26/1994												583	407967
E-17 EFF	7/27/1994												506	407995
E-17 EFF	8/3/1994												41	408560
E-17 EFF	8/4/1994												203	408592
E-17 EFF	8/5/1994												825	408629
E-17 EFF	8/8/1994												229	408647
E-17 EFF	8/9/1994												254	408678
E-17 EFF	8/10/1994												410	408717
E-17 EFF	8/11/1994												542	408748
E-17 EFF	8/12/1994												655	408792
E-17 EFF	1/9/1996												< 5	9601-00136-2
E-17 EFF	1/10/1996												210	9601-00159-2
E-17 EFF	1/10/1996												< 5	9601-00159-1
E-17 EFF	1/11/1996												100	9601-00204-2
E-17 EFF	1/12/1996												250	9601-00212-2
E-17 EFF	1/15/1996												380	9601-00228-2
E-17 EFF	1/16/1996												400	9601-00245-2
E-17 EFF	1/17/1996												450	9601-00276-2
E-17 EFF	1/18/1996												460	9601-00338-2
E-17 EFF	1/19/1996												5	9601-00338-4
E-17 EFF	1/19/1996												5	9601-00338-3
E-17 EFF	1/19/1996												5	9601-00338-2
E-17 EFF	1/19/1996												5	9601-00338-1
E-17 EFF	2/20/1996												440	9602-00826-2
E-17 EFF	2/21/1996												550	9602-00856-2
E-17 EFF	2/22/1996												350	9602-00876-2
E-17 EFF	2/28/1996												300	9602-00948-2
E-17 EFF	2/29/1996												350	9602-00969-2
E-17 EFF	3/1/1996												410	9603-00996-2
E-17 EFF	3/4/1996												480	9603-01034-2
E-17 EFF	3/21/1996												543	9603-01425-2
E-17 EFF	3/22/1996												547	9603-01425-4
E-17 EFF	3/25/1996												540	9603-01471-2
E-17 EFF	3/26/1996												540	9603-01471-4
E-17 EFF	3/27/1996												560	9603-01487-2

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
E-17 EFF	3/28/1996												510	9603-01520-2
E-17 EFF	3/29/1996												500	9603-01554-2
E-17 EFF	7/22/1996												< 5	9607-03664-8
E-17 EFF	7/22/1996												< 5	9607-03664-6
E-17 EFF	7/22/1996												< 1000	9607-03664-2
E-17 EFF	7/22/1996												< 1000	9607-03664-4
E-17 EFF	7/23/1996												< 5	9607-03694-4
E-17 EFF	7/23/1996												< 5	9607-03694-2
E-17 EFF	7/23/1996												222	9607-03664-10
E-17 EFF	7/24/1996												60	9607-03694-6
E-17 EFF	7/25/1996												< 5	9607-03756-2
E-17 EFF	7/25/1996												157	9607-03725-2
E-17 EFF	7/26/1996												< 5	9607-03756-4
E-17 EFF	8/8/1996												< 5	9608-04001-2
E-17 EFF	8/9/1996												< 5	9608-04024-2
E-17 EFF	8/12/1996												< 5	9608-04056-2
E-17 EFF	8/13/1996												800	9608-04074-2
E-17 EFF	8/14/1996												250	9608-04141-2
E-17 EFF	9/10/1996												< 5	9609-04634-2
E-17 EFF	9/11/1996												< 5	9609-04634-4
E-17 EFF	9/12/1996												< 5	9609-04654-2
E-17 EFF	9/13/1996												464	9609-04687-2
E-17 EFF	9/16/1996												250	9609-04729-2
E-17 EFF	11/15/1996												< 10	9611-05962-2
E-17 EFF	11/17/1996												290	9611-05971-2
E-17 EFF	11/18/1996												310	9611-05971-4
E-17 EFF	11/19/1996												300	9611-06026-2
E-17 EFF	11/20/1996												300	9611-06026-4
E-17 EFF	11/21/1996												320	9611-06049-2
E-17 EFF	11/22/1996												730	9611-06082-2
E-17 EFF	1/30/1997												< 10	9701-00675-3
E-17 EFF	1/30/1997												< 10	9701-00675-1
E-17 EFF	2/10/1997												< 50	9702-00924-1
E-17 EFF	2/11/1997												45	9702-00924-3
E-17 EFF	2/12/1997												260	9702-00975-2
E-17 EFF	3/26/1997												< 50	9703-01852-2
E-17 EFF	3/27/1997												45	9703-01887-2
E-17 EFF	3/27/1997												< 10	9703-01115-5
E-17 EFF	5/5/1997												< 10	9705-02713-1
E-17 EFF	5/6/1997												26	9705-02713-3
E-17 EFF	6/30/1997												< 10	9707-04053-1
E-17 EFF	7/1/1997												< 10	9707-04053-5
E-17 EFF	7/2/1997												70	9707-04149-1
E-17 EFF	2/27/1998												351	9803-01373-3
E-17 EFF	4/21/1998												260	9804-02709-1
E-201	5/2/1994						<0.2	<0.2		6.8	<0.2	<0.2		40550801
E-201	5/5/1994						<0.2	<0.2		0.3	<0.2	<0.2		40560001
E-201	9/13/1994						<0.2	< 1		33	<0.2	<0.5		40936002
E-201	1/18/1995						<0.2	<0.2		17	<0.2	<0.2		9501030612
E-201	2/6/1995						<0.2	<0.2		< 14	<0.2	<0.2		9502034743
E-201	4/19/1995	7.6	25.5	1760		1320	< 1	< 1		13.8	< 1	< 1		9504-4915-5
E-201	5/17/1995	7.66	27	1610		1060	< 1	< 1		12.3	< 1	< 1		9505-5478-3
E-201	6/6/1995	7.81	27.9	1760		1170	< 1	< 1		11.6	< 1	< 1		9506-05740-8
E-201	7/6/1995	7.68	28.2	1810		1200	< 1	< 1		12.2	< 1	< 1		9507-06296-5
E-201	8/31/1995	7.53	28.7	1750		1170	< 1	< 1		11.2	< 1	< 1		9508-07236-2
E-201	9/8/1995	7.52	27.7	1750		1180	< 1	< 1		10.9	< 1	< 1		9509-07402-5
E-201	10/5/1995	7.6	26.9	1770		1180	< 1	< 1		8.2	< 1	< 1		9510-07900-5
E-201	11/14/1995	7.29	26.6	1710		1170	< 1	< 1		10	< 1	< 1		9511-08545-3
E-201	12/26/1995	7.34	26.3	2210		1320	< 1	< 1		6.6	< 1	< 1		9512-09221-18
E-201	3/21/1996	7.46	26.3	1730		1160	< 1	< 1		6	< 1	< 1		9603-01428-9
E-201	6/14/1996	7.46	27.7	1750		1170	< 1	< 1		7.1	< 1	< 1		9606-02986-1
E-201	9/17/1996	7.62	27.8	1810		1250	< 1	< 1		7.4	< 1	< 1		9609-04788-1
E-201	12/11/1996	7.69	26.2	1750		1290	< 1	< 1		7.6	< 1	< 1		9612-06480-10
E-201	1/31/1997	7.64	26.3	1830		2040	< 1	< 1		7.7	< 1	< 1		9702-00746-3
E-201	4/23/1997	7.54	27.2	1340		900	< 1	< 1		9	< 1	< 1		9704-02536-1
E-201	7/31/1997	7.6	27.9	1310		870	< 1	< 1		10.4	< 1	< 1		9708-04907-13
E-201	11/19/1997	7.52	25.7	1270		850	< 1	< 1		8	< 1	< 1		9711-07532-3
E-201	1/16/1998	7.56	25.4	1310		880	< 1	< 1		6.9	< 1	< 1		9801-00427-1
E-201	4/20/1998	7.64	28	1290		910	< 1	< 1		6.7	< 1	< 1		9804-02699-8
E-201	7/23/1998	7.44	26.5	1300		870	< 1	< 1		6.2	< 1	< 1		9807-05076-7
E-201	10/30/1998	7.62	24.5	1330		890	< 1	< 1		4.8	< 1	< 1		9811-07838-12

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
E-201	1/30/1999	7.65	24.2	1300		870	< 1	< 1		2.9	< 1	< 1		9901-00917-01
E-201	4/13/1999	7.74	25.9	1310		870	< 1	< 1		3	< 1	< 1		9904-03467-09
E-201	7/26/1999	7.59	26.9	1320		880	< 1	< 1		3.4	< 1	< 1		9907-06734-001
E-201	10/15/1999	7.64	27.2	1300		870	< 1	< 1		3	< 1	< 1		9910-09461-002
E-201	1/18/2000	7.49	24.7	1330		890	< 1	< 1		2.4	< 1	< 1		0001-00605-004
E-201	4/3/2000	7.47	26.6	1340		900	< 1	< 1		2.4	< 1	< 1		0004-02940-006
E-201	7/19/2000	7.64	27.9	1370		920	< 1	< 1		2.8	< 1	< 1		0007-06367-011
E-201	10/16/2000	7.65	27.7	1350		910	< 1	< 1		3.2	< 1	< 1		0010-09068-007
E-201	4/17/2001	7.69	28.5	1320		880	< 1	< 1		2.3	< 1	< 1		0104-02877-005
E-201	8/17/2001	7.61	28.5	1350		910	< 1	< 1		2.4	< 1	< 1		0108-06062-007
E-201	11/20/2001	7.46	25.6	1380		920	< 1	< 1		1.7	< 1	< 1		0111-08927-004
E-201	1/23/2002	7.42	24.5	1380		930	< 1	< 1		1.2	< 1	< 1		0201-00680-002
E-201	5/21/2002	7.43	26.7	1330		890	< 1	< 1		3.4	< 1	< 1		0205-04172-007
E-201	8/27/2002	7.41	28.2	1320		880	< 1	< 1		5.6	< 1	< 1		0208-07256-007
E-201	10/30/2002	7.35	24.6	1330		890	< 1	< 1		2.3	< 1	< 1		0210-09104-006
E-201	10/30/2002	7.35	24.6	1330		890	< 1	< 1		2.6	< 1	< 1		0210-09104-005
E-201	3/11/2003	7.21	27.4	1270		850	< 1	< 1	< 1	4.4	< 1	< 1		030302279005
E-201	6/24/2003	7.33	27.8	1280		860	< 1	< 1	< 1	5.8	< 1	< 1		030605833002
E-201	9/17/2003	7.24	27.4	1250		840	< 1	< 1	< 1	5.1	< 1	< 1		030908952007
E-201	12/8/2003	7.41	22.2	1360		910	< 1	< 1	< 1	5.4	< 1	< 1		031212090001
E-201	2/17/2004	7.46	25.2	1270		850	< 1	< 1	< 1	3.3	< 1	< 1		040201839013
E-201	4/22/2004	7.36	27.3	1240		830	< 1	< 1	< 1	3.1	< 1	< 1		040404468004
E-201	9/21/2004	7.48	26.6	1120		750	< 1	< 1	< 1	4.6	< 1	< 1		040911070001
E-201	12/14/2004	7.32	24.2	1300		870	< 1	< 1	< 1	3.7	< 1	< 1		04121090-03D
E-201	2/2/2005	7.08	23.9	1330		890	< 1	< 1	< 1	3.3	< 1	< 1		05020650-01D
E-201	6/9/2005	7.37	27.9	1230		830	< 1	< 1	< 1	3.5	< 1	< 1		05060846-18D
E-201	9/19/2005	7.28	28.5	1140		760	< 1	< 1	< 1	3.6	< 1	< 1		05091212-01D
E-201	12/1/2005	7.03	26.2	1220		820	< 1	< 1	< 1	2.8	< 1	< 1		05120523-01D
E-201	2/16/2006	7	22.4	1270		850	< 1	< 1	< 1	3.2	< 1	< 1		06021236-18D
E-201	6/8/2006	7.03	27.5	1240		830	< 1	< 1	< 1	1.9	< 1	< 1		06060404-08D
E-201	9/13/2006	7.31	28.5	1280		860	< 1	< 1	< 1	3.75	< 1	< 1		06090520-16D
E-201	1/8/2007						< 1	< 1	< 1	3.3	< 1	< 1		0701018801
E-201	2/22/2007	7.21	26.3	1290		870	< 1	< 1	< 1	3.23	< 1	< 1		07020844-01
E-201	5/22/2007	7.2	28	1220		820	< 1	< 1	< 1	3.17	< 1	< 1		07050912-02
E-201	8/22/2007	7.23	27.9	1230		820	< 1	< 1	< 1	2.86	< 1	< 1		07080915-07D
E-201	10/10/2007						<0.5	<0.5	<0.5	3.1	<0.5	<0.5		198348-012
E-201	1/15/2008						<0.5	<0.5	<0.5	2.7	<0.5	<0.5		200619-003
E-201	4/30/2008						<0.5	<0.5	<0.5	2.1	<0.5	<0.5		202978-001
E-201	11/17/2008	7.45	26.9	1931		967	<0.5	<0.5	<0.5	1.8	<0.5	<0.5		208075-001
E-201	2/19/2009	6.96	26.3	1971		984	<0.5	<0.5	<0.5	1.9	<0.5	<0.5		210200-007
E-201	5/27/2009	7.11	27.3	1871		0.937	<0.5	<0.5	<0.5	1.6	<0.5	<0.5		212433-003
E-201	8/23/2009	6.92	27.5	1853		926	<0.5	<0.5	<0.5	1.3	<0.5	<0.5		214393-012
E-201	9/22/2009						<0.5	<0.5	<0.5	2.4	<0.5	<0.5		215185-008
E-201	10/20/2009						<0.5	<0.5	<0.5	1.3	<0.5	<0.5		215908-005
E-201	11/18/2009	7.03	26.1	1725		864	<0.5	<0.5	<0.5	1.3	<0.5	<0.5		216662-011
E-201	2/18/2010	6.65	25.2	1642		820	<0.5	<0.5	<0.5	2.2	<0.5	<0.5		218387-003
E-201	5/13/2010	7.08	26.4	1581		789	<0.5	<0.5	<0.5	2	<0.5	<0.5		220168-010
E-201	8/18/2010	7.85	28.1	1542		772	<0.5	<0.5	<0.5	0.6	<0.5	<0.5		221992-016
E-201	12/1/2010						<0.5	<0.5	<0.5	0.7	<0.5	<0.5		224639-057
E-201	2/9/2011	7.44	22.51	1852	1.5		<0.5	<0.5	<0.5	1.8	<0.5	<0.5		PGA SOUTH
E-201	5/10/2011	7.23	24.71	1868	123		<0.5	<0.5	<0.5	1	<0.5	<0.5		PGA SOUTH
E-201	8/4/2011	6.37	29.15	2232	94.3		<0.5	<0.5	<0.5	0.9	<0.5	<0.5		PGA SOUTH
E-201	11/18/2011						<0.5	<0.5	<0.5	1	<0.5	<0.5	7.5	154540
E-201	2/8/2012	7.43	22.84	1826	212		<0.5	<0.5	<0.5	1.9	<0.5	<0.5		234302
E-201	5/2/2012	7.6	22.82	1857			<0.5	<0.5	<0.5	1.1	<0.5	<0.5		189044
E-201	8/6/2012	6.26	29.23	1966	143		<0.5	<0.5	<0.5	0.9	<0.5	<0.5		189044
E-201	11/5/2012	7.71	20.68	1485	1000		<0.5	<0.5	<0.5	1	<0.5	<0.5		189044
E-201	2/6/2013	7.72	20.23	2101	2.16		<0.5	<0.5	<0.5	0.9	<0.5	<0.5		189044
E-201	5/6/2013	7.21	22.21	2051			<0.5	<0.5	<0.5	1.3	<0.5	<0.5		PGA South
E-201	8/7/2013	7.09	24.92	2092	143		<0.5	<0.5	<0.5	0.7	<0.5	<0.5		247736-008
E-201	11/5/2013	7.37	22.9	2040	534		<0.5	<0.5	<0.5	0.9	<0.5	<0.5		250555-012
E-202	5/10/1994						<0.2	<0.2		47	0.3	<0.2		40573401
E-202	1/18/1995						<0.2	<0.2		38	<0.2	<0.2		9501030611
E-202	2/6/1995						<0.2	<0.2		29	<0.2	<0.2		9502034744
E-202	4/19/1995	7.49	25.7	2160		1650	< 1	< 1		31	< 1	< 1		9504-4915-4
E-202	5/17/1995	7.61	26.4	2120		1410	< 1	< 1		38.4	< 1	< 1		9505-5478-4
E-202	6/6/1995	7.68	27.9	2190		1460	< 1	< 1		33.6	< 1	< 1		9506-05740-9
E-202	7/6/1995	7.63	28.7	2220		1480	< 1	< 1		27.3	< 1	< 1		9507-06296-4
E-202	8/31/1995	7.45	28.7	2170		1450	< 1	< 1		27.6	< 1	< 1		9508-07236-3
E-202	9/8/1995	7.47	27.3	2200		1470	< 1	< 1		29.1	< 1	< 1		9509-07402-6
E-202	10/6/1995	7.36	26.9	2140		1420	< 1	< 1		35.8	< 1	< 1		9510-07900-6

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
E-202	11/14/1995	7.27	26.3	2180		1460	< 1	< 1		32.7	< 1	< 1		9511-08545-2
E-202	12/26/1995	7.34	25.6	2490		1770	< 1	< 1		22.2	< 1	< 1		9512-09221-17
E-202	3/21/1996	7.46	27.1	2150		1440	< 1	< 1		24.1	< 1	< 1		9603-01428-7
E-202	6/14/1996	7.26	28.7	2120		1410	< 1	< 1		38.9	< 1	< 1		9606-02986-2
E-202	9/17/1996	7.5	27.8	2160		1600	< 1	< 1		37	< 1	< 1		9609-04788-2
E-202	12/11/1996	7.45	26.4	2090		1520	< 1	< 1		24.5	< 1	< 1		9612-06480-9
E-202	1/31/1997	7.57	26.5	2150		2400	< 1	< 1		24	< 1	< 1		9702-00746-2
E-202	4/23/1997	7.42	27	1450		970	< 1	< 1		18.3	< 1	< 1		9704-02536-2
E-202	7/31/1997	7.41	28.4	1390		920	< 1	< 1		20.5	< 1	< 1		9708-04907-12
E-202	11/19/1997	7.56	25.5	1430		960	1	< 1		19.6	< 1	< 1		9711-07532-2
E-202	1/16/1998	7.53	26.3	1350		900	< 1	< 1		16.7	< 1	< 1		9801-00427-2
E-202	4/20/1998	7.61	28.8	1370		910	< 1	< 1		17.5	< 1	< 1		9804-02699-7
E-202	7/23/1998	7.46	27.5	1390		930	< 1	< 1		11.5	< 1	< 1		9807-05076-6
E-202	12/18/1998	7.62	25.8	1400		940	< 1	< 1		14.8	< 1	< 1		9812-09301-001
E-202	1/30/1999	7.48	24.8	1440		960	< 1	< 1		12.4	< 1	< 1		9901-00917-02
E-202	4/13/1999	7.55	27.2	1340		890	< 1	< 1		10.7	< 1	< 1		9904-03467-08
E-202	7/26/1999	7.56	27.1	1350		910	< 1	< 1		7.3	< 1	< 1		9907-06734-002
E-202	10/15/1999	7.63	27.6	1350		910	< 1	< 1		8.3	< 1	< 1		9910-09461-003
E-202	1/18/2000	7.45	25.1	1400		940	< 1	< 1		9.9	< 1	< 1		0001-00605-005
E-202	5/10/2000	7.47	28.1	1380		920	< 1	< 1		4.5	< 1	< 1		0005-04330-005
E-202	7/19/2000	7.55	28.4	1430		960	< 1	< 1		6.9	< 1	< 1		0007-06367-010
E-202	10/16/2000	7.76	27.7	1460		980	< 1	< 1		9.4	< 1	< 1		0010-09068-006
E-202	1/23/2001	7.26	26.9	1430		950	< 1	< 1		18	< 1	< 1		0101-00601-011
E-202	4/17/2001	7.54	28.6	1420		950	< 1	< 1		14.3	< 1	< 1		0104-02877-004
E-202	8/17/2001	7.38	28.8	1450		970	< 1	< 1		6.2	< 1	< 1		0108-06062-006
E-202	11/20/2001	7.56	25.8	1430		950	< 1	< 1		12.2	< 1	< 1		0111-08927-003
E-202	1/23/2002	7.48	25.2	1420		950	< 1	< 1		14.2	< 1	< 1		0201-00680-001
E-202	5/21/2002	7.55	26.7	1410		940	< 1	< 1		11.3	< 1	< 1		0205-04172-006
E-202	8/27/2002	7.18	28	1200		790	< 1	< 1		4.9	< 1	< 1		0208-07256-006
E-202	11/6/2002	7.16	26.2	1380		920	< 1	< 1		7.5	< 1	< 1		0211-09350-005
E-202	3/11/2003	7.34	27.8	1400		940	< 1	< 1	< 1	12.7	< 1	< 1		030302279004
E-202	9/17/2003	7.32	28.8	1370		920	< 1	< 1	< 1	7.9	< 1	< 1		030908952006
E-202	2/17/2004	7.76	24.9	1380		930	< 1	< 1	< 1	6	< 1	< 1		040201839012
E-202	9/21/2004	7.55	27.4	1260		850	< 1	< 1	< 1	3.7	< 1	< 1		040911070002
E-202	2/2/2005	7.59	26.9	1340		900	< 1	< 1	< 1	< 1	< 1	< 1		05020650-02D
E-203	1/18/1995						<0.2	<0.2		36	<0.2	<0.2		9501030613
E-203	2/6/1995						<0.2	<0.2		33	<0.2	<0.2		9502034745
E-203	4/19/1995	7.34	25.5	2720		1970	< 1	< 1		24.1	< 1	< 1		9504-4915-3
E-203	5/17/1995	7.54	27.4	2680		1790	< 1	< 1		24.6	< 1	< 1		9505-5478-5
E-203	6/6/1995	7.69	28	2650		1760	< 1	< 1		22.1	< 1	< 1		9506-05740-11
E-203	6/6/1995	7.69	28	2650		1760	< 1	< 1		20.9	< 1	< 1		9506-05740-10
E-203	7/6/1995	7.57	28.5	2710		1810	< 1	< 1		15.1	< 1	< 1		9507-06296-3
E-203	8/31/1995	7.47	29.1	2670		1780	< 1	< 1		18	< 1	< 1		9508-07236-4
E-203	9/8/1995	7.45	28.2	2630		1750	< 1	< 1		19.5	< 1	< 1		9509-07402-7
E-203	10/6/1995	7.48	26.9	2630		1750	< 1	< 1		20.3	< 1	< 1		9510-07900-7
E-203	11/14/1995	7.4	26.7	2630		1800	< 1	< 1		16.9	< 1	< 1		9511-08545-1
E-203	12/26/1995	7.23	26.6	3700		2700	< 1	< 1		11.6	< 1	< 1		9512-09221-16
E-203	3/21/1996	7.23	27.4	2530		1690	< 1	< 1		14.3	< 1	< 1		9603-01428-6
E-203	6/14/1996	7.45	28.9	2490		1660	< 1	< 1		12.9	< 1	< 1		9606-02986-3
E-203	9/17/1996	7.48	27.8	2580		1760	< 1	< 1		9.6	< 1	< 1		9609-04788-3
E-203	12/11/1996	7.46	26.7	2530		1950	< 1	< 1		9.8	< 1	< 1		9612-06480-8
E-203	1/31/1997	7.46	27.8	2590		2800	< 1	< 1		10.1	< 1	< 1		9702-00746-1
E-203	4/23/1997	7.51	27.7	1750		1170	< 1	< 1		7.7	< 1	< 1		9704-02536-3
E-203	7/25/1997	7.34	29.1	1710		1130	< 1	< 1		6.8	< 1	< 1		9707-04790-3
E-203	11/19/1997	7.53	26.5	1750		1170	< 1	< 1		6.7	< 1	< 1		9711-07532-1
E-203	1/16/1998	7.48	26.3	1770		1190	< 1	< 1		6.7	< 1	< 1		9801-00427-3
E-203	4/20/1998	7.48	28.8	1740		1160	< 1	< 1		5	< 1	< 1		9804-02699-6
E-203	9/22/1998	7.32	28.2	1710		1140	< 1	< 1		1.9	< 1	< 1		9809-06633-1
E-203	10/30/1998	7.48	24	2370		1210	< 1	< 1		2.9	< 1	< 1		9811-07838-14
E-203	1/30/1999	7.43	25.3	1770		1190	< 1	< 1		2.4	< 1	< 1		9901-00917-03
E-203	4/13/1999	7.62	27.2	1800		1200	< 1	< 1		2.9	< 1	< 1		9904-03467-07
E-203	7/26/1999	7.49	27	1420		950	< 1	< 1		6.6	< 1	< 1		9907-06734-003
E-203	10/15/1999	7.6	27.8	1620		1080	< 1	< 1		< 1	< 1	< 1		9910-09461-005
E-203	1/18/2000	7.49	26.1	1600		1070	< 1	< 1		< 1	< 1	< 1		0001-00605-006
E-203	4/3/2000	7.52	27.8	1600		1070	< 1	< 1		< 1	< 1	< 1		0004-02940-005
E-203	3/10/2006	7.01	24.4	1990		1330	< 1	< 1	< 1	< 1	< 1	< 1		06031132-01D
E-203	3/16/2006	7.09	28.2	1750		1170	< 1	< 1	< 1	< 1	< 1	< 1		06031366-03D
E-203	4/11/2006	6.97	28.7	1680		1120	< 1	< 1	< 1	< 1	< 1	< 1		06041030-02D
EMW-02	4/6/1985												34	ENSECO-CA
EMW-02	4/7/1986												35	RMAL
EMW-02	8/19/1986												48	RMAL

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
EMW-02	12/8/1986												62	RMAL
EMW-02	3/31/1987												60	RMAL
EMW-02	6/22/1987												65	CH2M-RD
EMW-02	10/1/1987												70	CH2M-RD
EMW-02	1/18/1988												90	CH2M-RD
EMW-02	1/3/1991	7.25	22.1	1926		1285	10.7	<0.2		80	4.1	<0.2		101531
EMW-02	1/4/1991	7.25	22.1	1926		1285	7.3	<0.2		46.9	3	<0.2		10153101
EMW-02	8/28/1992	7.31	26.9	1810		1210	10.8	<0.2		62	4.9	<0.2		208002
EMW-02	11/2/1992	7.33	26.3	1600		1070	12.5	<0.2		68.2	8.5	0.3		211528
EMW-02	12/18/1997												11	9712-08185-6
EMW-03	4/6/1985												472	ENSECO-CA
EMW-03	4/3/1986												436	RMAL
EMW-03	8/19/1986												513	RMAL
EMW-03	12/8/1986												592	RMAL
EMW-03	3/31/1987												560	RMAL
EMW-03	6/22/1987												230	RMAL
EMW-03	6/22/1987												240	CH2M-RD
EMW-03	10/1/1987												510	CH2M-RD
EMW-03	1/18/1988												580	CH2M-RD
EMW-03	1/22/1992									65				201784
EMW-03	1/25/1992												240	201816
EMW-03	3/28/1992	7.37	25.8	2140		1430	21	<0.4		62	2	1		203979
EMW-03	10/14/1992	7.38	27.2	2200		1460	27.2	<0.2		57.1	1.4	1.1		210714
EMW-03	1/4/1993	7.2	24.5	2350		1550	29	<0.2		52	1.5	1.3		301538
EMW-03	1/29/1993												329	301943
EMW-03	3/18/1993	7.1	24.9	2250		1500	25	<0.2		39	1.1	1.4		30386601
EMW-03	6/18/1993	7.15	25.7	2300		1200	27	<0.2		55	0.4	1.5		30689315
EMW-03	7/2/1993												234	307542
EMW-03	10/10/1993	7.21	27.5	2430			30	<0.2		49	1.5	1.4		31070921
EMW-03	12/22/1993	7.08	24.3	2420		1600	13	<0.2		52	0.8	1.2	332	31214505
EMW-03	4/15/1994	7.18	27.1	2240		1500	18	<0.2		28	0.7	1		40484803
EMW-03	6/6/1994												197	40672202
EMW-03	6/6/1994	7.17	27.4	2240		1500	15	<0.2		28	0.5	0.3		40667304
EMW-03	9/27/1994	6.94	25.5	1720			0.7	<0.2		23	0.3	1.3		40993620
EMW-03	12/23/1994												143	9412026713
EMW-03	1/11/1995	7.1	24.6	2490		1840	15	<0.2		22	<0.2	1.1		9501029371
EMW-03	3/24/1995	7.2	24.8	2530		1680	15.3	< 1		18.9	< 1	< 1		9503-4396-5
EMW-03	3/24/1995						10.9	< 1		18.3	< 1	< 1		9503-4396-7
EMW-03	12/28/1995	7.12	25.3	2570		1740	8.7	< 1		9.9	< 1	< 1		9512-09221-38
EMW-03	12/28/1995	7.12	25.3	2570		1740	11.8	< 1		14.9	< 1	< 1		9512-09221-37
EMW-03	12/8/1996												600	RMAL
EMW-03	12/24/1996	7.11	25.4	2540		1710	14.6	< 1		22.9	< 1	1.2		9612-06673-2
EMW-03	12/4/1997	7.05	24.5	1740		1160	20.2	< 1		24.8	< 1	1.5		9712-07851-7
EMW-03	5/28/1998	7.24	27.2	1680		1120	11.6	< 1		16.4	< 1	< 1		9805-03669-4
EMW-03	9/9/1998	7.27	26.5	1690		1130	12	< 1		16.3	< 1	< 1.3	170	9809-06345-3
EMW-03	10/30/1998												130	9811-07838-2
EMW-03	2/6/1999												61	9902-01284-21
EMW-03	2/7/1999	7.17	25	1650		1110	6.7	< 1		9.2	< 1	< 1		9902-01284-21
EMW-03	4/20/1999												64	9904-03705-03
EMW-03	7/29/1999												58	9907-06851-007
EMW-03	10/20/1999	7.14	25.9	1680		1200							120	9910-09613-003
EMW-03	1/27/2000	7.14	25.3	1510		1010	12.6	< 1		13.3	< 1	1.7	100	0001-00895-003
EMW-03	4/5/2000												86	0004-03148-003
EMW-03	7/26/2000	7.19	27.8	1640		1100							113	0007-06600-003
EMW-03	10/19/2000	6.82	25.3	1720		1150							114	0010-09219-003
EMW-03	2/21/2001	7.06	25.7	1850		1240	9.6	< 1		23.6	< 1	3.3	129	0102-01393-004
EMW-03	4/20/2001												136	0104-02944-002
EMW-03	9/24/2001												113	0109-07100-003
EMW-03	11/21/2001												76	0111-08941-002
EMW-03	2/13/2002	7.1	25.6	1790		1200	2.9	< 1		14	< 1	3	84	0202-01324-004
EMW-03	5/30/2002	7.18	27.8	1770		1190							94	0205-04370-005
EMW-03	9/13/2002												79	0209-07700-010
EMW-03	10/23/2002												75	0210-09002-003
EMW-03	3/21/2003	7.05	26.7	1830		1230	1.4	< 1	< 1	12.8	< 1	2.6	91	030302553003
EMW-03	3/1/2004	7.16	24.6	1920		1280	1.7	< 1	0.51	11	< 1	2.4		040302356003
EMW-03	3/22/2005	7.15	21.5	1950		1310	1.6	< 1	< 1	8.6	< 1	2.2		05031440-08D
EMW-03	3/23/2006	6.96	24.9	1590		1070	3.1	< 1	1.4	13	< 1	2	92	06031725-06D
EMW-03	8/21/2006												58	06081020-01B
EMW-03	3/23/2007	7.19	23.7	1890		1260	2.73	< 1	1.01	13.4	< 1	2.1		07030871-11
EMW-03	5/8/2007	6.95	26.9	1720		1150								07050310-01
EMW-03	5/30/2007	7.18	27.7	1770		1180							105	07051077-02

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
EMW-03	9/18/2007	6.92	27.3	1770		1190							81.9	07090641-04A
EMW-03	1/22/2008	6.92	25.11	2917		1950	1.4	<0.5	0.3	13	<0.5	2.6		200697-005
EMW-03	1/22/2008	6.92	25.11	2917		1950	1.7	<0.5	0.4	12	<0.5	2.4	75	200697-002
EMW-03	6/17/2008	5.99	25.59	3184		2130							69	204049-001
EMW-03	7/31/2008	7.06	25.57	3005		1953	1.6	<0.5	0.3	6.6	<0.5	1.2	71	205025-009
EMW-03	2/16/2009	7.05	25.39	3039	5.04	1.98	1.9	<0.5	0.4	13	<0.5	2.6		210202-024
EMW-03	2/18/2009	6.94	25.37	3097	4.31	2.01								210202-024
EMW-03	2/18/2009												64	210202-043
EMW-03	8/24/2009	7.06	25.65	2901	6.48	1.94							81	214514-012
EMW-03	2/2/2010	7.31	25.5	2806		5.75							47	218167-009
EMW-03	2/2/2010	7.31	25.5	2806		5.75	3	<0.5	1.2	10	<0.5	2		218171-022
EMW-03	8/24/2010	7.1	26.15	1957	3.02	1.31							39	222127-003
EMW-03	2/8/2011	6.64	25.33	25.12	0.88		3	<0.5	0.8	3	<0.5	1.5		PGA SOUTH
EMW-03	5/9/2011	6.95	25.54	1938	1.72								48	PGA SOUTH
EMW-03	8/6/2011	6.72	25.26	1892	1.75								41	PGA SOUTH
EMW-03	2/8/2012	7.08	23.83	2583	0.87		3	<0.5	0.8	6.8	<0.5	1.6	42	189044
EMW-03	8/8/2012	6.04	34.73	1932	13.3								49	189044
EMW-03	2/7/2013				10.9		2.5	<0.5	0.6	6.7	<0.5	0.9	43	189044
EMW-03	8/8/2013				3.31		1.0 J	<0.5	0.3 J	1.7	<0.5	0.9	32	247818-006
EMW-04	12/10/1986												465	ACOE-MRDI
EMW-04	3/18/1987												320	ATL
EMW-04	6/27/1987												360	ATL
EMW-04	9/30/1987												310	ATL
EMW-04	1/14/1988												330	ATL
EMW-04	1/31/1990							<0.2			0.3	0.7		2500
EMW-04	3/1/1990	7.17	24.7	3160		2100	16.9	<0.2		6	<0.2	0.5		3518
EMW-04	3/22/1990	7.2	24.2	2580		1730	16.1	<0.2		4.2	<0.2	0.4		3755
EMW-04	4/18/1990	7.11	25.5	2740		1830	11.9	<0.2		4.3	<0.2	0.5		4665
EMW-04	5/23/1990			3090		2070	12.7	<0.2		4	<0.2	0.5		5760
EMW-04	6/19/1990		25.7	2970		1970	8.3	<0.2		2.7	<0.2	<0.2		6772
EMW-04	7/18/1990	7.22	26.5	2960		1980	6.3	<0.2		2.3	<0.2	0.3		7728
EMW-04	8/17/1990	7.25	27.9	2880		1920	4.8	<0.2		2.2	<0.2	0.3		8664
EMW-04	9/23/1990	7.23	25.8	2870		1920	5.8	<0.2		1.7	<0.2	0.2		9768
EMW-04	10/18/1990	7.26	25.5	2790		1860	8.4	<0.2		2.5	<0.2	<0.2		10721
EMW-04	11/24/1990	7.29	26	2740		1820	12.9	<0.2		2.5	<0.2	0.3		11779
EMW-04	12/17/1990	7.27	24.2	2710		1810	11.1	<0.2		2.3	<0.2	<0.4		12764
EMW-04	1/21/1991	7.32	25.1	2730		1820	7.1	<0.2		2.2	<0.2	0.2		101748
EMW-04	3/16/1991	7.29	25.1	2730		1690	6.3	<0.2		1.8	<0.2	0.3		103798
EMW-04	6/21/1991	7.36	24.8	2780		1870	5.3	<0.2		1.3	<0.2	0.2		106863
EMW-04	9/22/1991	7.6	25.6	2810		1880	1.5	<0.2		0.6	<0.2	<0.2		109886
EMW-04	1/20/1992	7.4	23.4	2500		1670	2.9	<0.2		0.9	<0.2	<0.2		201746
EMW-04	1/25/1992												91	201816
EMW-04	3/25/1992	7.3	24.8	2420		1610	7	<0.5		1.5	<0.2	0.3		203899
EMW-04	6/29/1992	7.35	24.8	2710		1810	4.5	0.6		1.2	<0.2	<0.2		20606501
EMW-04	6/30/1992	7.35	24.8	2710		1810	4.8	0.4		1.2	<0.2	0.2		206065
EMW-04	10/5/1992	7.34	26.4	2460		1640	6	<0.2		1.6	<0.2	<0.2		210565
EMW-04	12/15/1992	7.29	23.2	2500		1660	9.1	<0.2		1.9	<0.2	<0.2		212807
EMW-04	1/29/1993												132	301943
EMW-04	3/10/1993	7.3	25.8	2160		1440	12	<0.2		1.9	<0.2	0.2		30372402
EMW-04	6/14/1993	7.03	25.9	2400		1220	8.5	<0.2		2.3	<0.2	0.2		30681601
EMW-04	6/16/1993												153	306816
EMW-04	10/19/1993	7.09	24.5	3000			5.4	<0.2		1.4	<0.2	<0.2		31092901
EMW-04	12/23/1993	7.13	22.8	3000		2000	3.2	<0.2		1.6	<0.2	<0.2	109	31214513
EMW-04	4/5/1994	7.17	24.3	2790		1860	5.7	0.4		1.2	<0.2	0.3		40467406
EMW-04	6/14/1994	7.04	25.6	2790		1850	4.1	<0.5		0.8	<0.2	0.2	58	40684401
EMW-04	9/26/1994	6.75	25	1850			3	<0.2		0.8	<0.2	0.8		40993605
EMW-04	12/23/1994												60	9412026713
EMW-04	12/30/1994	7.03		2460		1820	3.1	<0.2		<0.2	<0.2	1.3		9412027714
EMW-04	3/21/1995						9.1	< 1		1.6	< 1	< 1		9503-4378-6
EMW-04	3/21/1995	7.17	25	2470		1640	9.1	< 1		1.6	< 1	< 1		9503-4378-5
EMW-04	6/9/1995	7.35	25.2	2450		16440	10.6	< 1		1.8	< 1	1.3		9506-05828-2
EMW-04	9/18/1995	7.38	25.3	2450		1640	4.1	< 1		< 1	< 1	2.7		9509-07574-5
EMW-04	3/26/1996	7.18	23.9	2420		1620	7.7	< 1		1.4	< 1	3.1		9603-01505-7
EMW-04	6/20/1996	7.28	26.6	2400		1600	2.6	< 1		< 1	< 1	5.9		9606-03103-12
EMW-04	9/20/1996	7.31	25.7	2280		1520	< 1	< 1		11.2	< 1	< 1		9609-04837-5
EMW-04	12/24/1996	7.06	24.5	2330		1580	1.5	< 1		< 1	< 1	6.1		9612-06673-1
EMW-04	2/20/1997	7.2	25.3	2330			2	< 1		< 1	< 1	5.7		9702-01175-4
EMW-04	6/11/1997	7.24	26.5	1600		1070	< 1	< 1		< 1	< 1	< 1		9706-03639-23
EMW-04	9/17/1997	7.13	25.5	1670		1120	1.46	<0.5		<0.5	<0.5	6.28		9709-06025-5
EMW-04	12/4/1997	7.21	24.5	1680		1120	2.6	< 1		< 1	< 1	5.1		9712-07851-6
EMW-04	2/6/1998	7.28	25.2	1690		1130	1.3	< 1		< 1	< 1	4.2		9802-00902-3

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
EMW-04	9/9/1998	7.3	26.8	1600		1070	< 1	< 1		< 1	< 1	3.3	65	9809-06345-1
EMW-04	10/15/1998												80	9810-07346-1
EMW-04	2/6/1999	7.26	24.7	1620		1090	< 1	< 1		< 1	< 1	2.3	54	9902-01284-07
EMW-04	4/15/1999												64	9904-03550-03
EMW-04	7/27/1999	7.15	26.6	1620		1070	< 1	< 1		< 1	< 1	1.4	42	9907-06764-005
EMW-04	10/18/1999	7.19	25.4	1700		1140							57	9909-09616-003
EMW-04	1/25/2000	7.13	24.9	1400		940	< 1	< 1		< 1	< 1	1.2	57	0001-00788-006
EMW-04	4/4/2000												60	0004-03089-003
EMW-04	7/21/2000	7.1	25.5	1750		1170	< 1	< 1		< 1	< 1	1.1	72	0007-06410-006
EMW-04	10/17/2000	7.24	26.3	1750		1160							70	0010-09139-001
EMW-04	2/5/2001	7.11	25.8	1740		1160	< 1	< 1		< 1	< 1	1.7	69	0102-00985-001
EMW-04	4/19/2001												90	0104-02938-008
EMW-04	8/31/2001	7.23	27.6	1640		1100	< 1	< 1		< 1	< 1	1.4	78	0109-06442-003
EMW-04	11/20/2001												89	0111-08927-005
EMW-04	2/5/2002	7.2	25.9	1650		1110	< 1	< 1		< 1	< 1	< 1	106	0202-01006-001
EMW-04	5/22/2002	7.37	25.6	1660		1120							100	0205-04201-003
EMW-04	9/5/2002	7.12	26	1620		1080	< 1	< 1		< 1	< 1	< 1	104	0209-07468-004
EMW-04	10/17/2002												95	0210-08788-005
EMW-04	3/18/2003	7.13	25.5	1530		1030	< 1	< 1	< 1	< 1	< 1	2	86	030302447006
EMW-04	2/18/2004	7.27	25	1580		1060	0.65	< 1	< 1	< 1	< 1	0.9		040201839018
EMW-04	2/4/2005	7.18	22.6	1710		1140	1	< 1	< 1	< 1	< 1	< 1		05020650-05D
EMW-04	3/1/2006	7	23.7	1490		1000	< 1	< 1	< 1	< 1	< 1	< 1		06030607-04D
EMW-04	3/1/2006	7	23.7	1490		1000	< 1	< 1	< 1	< 1	< 1	< 1		06030607-01D
EMW-04	3/23/2007	7.26	24.2	1750		1170	< 1	< 1	< 1	< 1	< 1	< 1		07030871-12
EMW-04	2/19/2009	7.29	26.79	2806	70.5	1.88	0.4	<0.5	<0.5	0.1	<0.5	<0.5		210202-037
EMW-04	2/4/2010	7.06	2490	3649		2.44	0.2	<0.5	<0.5	<0.5	<0.5	<0.5		218209-009
EMW-04	2/10/2011	6.91	27	3165	23.8		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		PGA SOUTH
EMW-05	3/21/1987												19	ATL
EMW-05	6/27/1987												48	ATL
EMW-05	9/29/1987												11	ATL
EMW-05	1/14/1988												19	ATL
EMW-05	12/10/1988												2	ATL
EMW-05	6/19/1990		26.4	3840		2560	< 5	< 5		280	< 5	< 5		6772
EMW-05	7/18/1990	7.15	28.3	3830		2550	< 2	< 2		260	< 2	< 2		7728
EMW-05	8/17/1990	7.2	32.6	3710		2480	< 2	< 2		250	< 2	< 2		8664
EMW-05	9/23/1990	7.25	26.9	3810		2540	< 2	< 2		290	< 2	< 2		9768
EMW-05	10/17/1990	7.18	27.2	3930		2630	68	< 2		340	< 2	< 2		10721
EMW-05	11/25/1990	7.24	25.6	3910		2610	< 2	< 2		300	< 2	< 2		11779
EMW-05	12/17/1990	7.23	24.7	3850		2560	< 4	< 4		240	< 4	< 4		12764
EMW-05	1/21/1991	7.28	24.6	3910		2610	20	< 2		226	< 2	< 2		101748
EMW-05	3/16/1991	7.25	25	2890		2590	25	< 2		230	< 2	< 2		103798
EMW-05	6/21/1991	7.43	27	4210		2810	< 2	< 2		209	< 2	< 2		106863
EMW-05	9/22/1991	7.56	26.4	4160		2780	20	< 2		180	< 2	< 2		109886
EMW-05	1/21/1992	7.29	23.3	3560		2370	64	< 2		230	< 2	< 2		201771
EMW-05	3/25/1992	7.27	26.6	3620		2420	53	5		260	< 2	< 2		203899
EMW-05	3/26/1992	7.27	26.6	3620		2420	51	17		220	< 1	1		20389901
EMW-05	6/29/1992	7.36	26.8	4000		2670	31	3		170	< 1	< 1		206065
EMW-05	10/6/1992	7.29	25.5	4040		2690	39	< 1		180	2	< 1		210565
EMW-05	12/23/1992	7.2	24.7	4060		2700	85	4		260	2	0.8		212987
EMW-05	3/18/1993	7	24.9	3680		2460	130	1		290	2	2		30386602
EMW-05	6/17/1993	6.97	27.5	4300		1450	160	24		290	< 1	3		30689317
EMW-05	10/9/1993	7	25.5	4570			52	11		150	< 2	< 2		31070913
EMW-05	12/30/1993	6.4	21.4	4560			55	2		220	<0.2	2.5		40151209
EMW-05	4/19/1994	7.05	27.4	4140		2780	58	9.3		140	< 1	1.3		40494801
EMW-05	4/20/1994	7.05	27.4	4140		2780	56	8.7		130	< 1	1.3		40494802
EMW-05	6/9/1994	7.09	29.8	4220		2810	31	3		95	< 1	< 1		40667318
EMW-05	9/30/1994	6.78					75	17		140	< 2	2.4		410580301
EMW-05	12/22/1994	7	24.9	3510		2360	65	8.3		110	<0.2	2.1		9412026719
EMW-05	12/23/1994	7	24.9	3510		2360	65	8.4		110	<0.2	2		9412026720
EMW-05	3/30/1995	7.04	26.6	3390		2270	58.1	< 1		103	< 1	< 1		9503-4521-1
EMW-05	6/19/1995	7.15	26.6	3470		2320	65.6	< 1		111	< 1	< 1		9506-05974-3
EMW-05	9/22/1995	7.21	26.2	3500		2300	72	< 1		115	< 1	1.5		9509-07628-6
EMW-05	12/20/1995	6.79	24.5	3750		2930	52.8	< 1		93.1	< 1	1.2		9512-09134-15
EMW-05	12/20/1995	6.79	24.5	3750		2930	56.4	< 1		97.8	< 1	1.2		9512-09134-16
EMW-05	3/29/1996	6.91	24.3	3590		2400	58.8	5.7		95	< 1	1.7		9604-01585-1
EMW-05	6/24/1996	7.01	26.8	3460		2310	67.1	12.1		100	< 1	3.5		9606-03147-9
EMW-05	9/26/1996	7.04	26.6	3480		2320	48	< 1		61.8	< 1	< 1		9609-04963-19
EMW-05	12/29/1996	7.12	25.5	3360		2250	54.9	< 1		92.3	< 1	< 1		9612-06704-9
EMW-05	12/29/1996	7.12	25.5	3360		2250	58.4	< 1		95.9	< 1	< 1		9612-06704-10
EMW-05	2/26/1997	7.1	25.1	3370			33.6	< 1		56.7	< 1	< 1		9702-01315-3
EMW-05	6/16/1997	7.18	26.2	2280		1530	36.3	< 1		54	< 1	2.5		9706-03832-7

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
EMW-05	9/23/1997	7.1	25.4	2320		1550	30.1	< 1		56.4	< 1	3.2		9709-06208-15
EMW-05	12/15/1997	7.12	25.3	2270		1520	38.9	< 1		56	< 1	1.6		9712-08132-1
EMW-05	2/19/1998	7.2	25.3	2220		1490	36	< 1		56.3	< 1	1.8		9802-01226-1
EMW-05	9/10/1998	7.23	27.3	2050		1370	38.2	< 1		59.6	< 1	2.7		9809-06373-6
EMW-05	11/4/1998												136	9811-08030-5
EMW-05	2/8/1999	7.09	25.4	2130		1420	38.2	< 1		41.6	< 1	2.6		9902-01334-03
EMW-05	7/31/1999	7.07	27.3	2160		1450	35.8	< 1		61.3	< 1	4.3		9908-06887-012
EMW-05	1/27/2000	7.07	25.2	1850		1230	35.6	< 1		42.9	< 1	3		0001-00895-005
EMW-05	7/28/2000	7.21	27.1	2240		1490	3.4	< 1		16.2	< 1	3.5		0007-06667-003
EMW-05	2/24/2001	7.12	25.4	2260		1520	3.9	< 1		13.4	< 1	3.9		0102-01412-003
EMW-05	9/26/2001	7.13	27.4	2270		1520	< 1	< 1		10.6	< 1	3.2		0109-07212-005
EMW-05	2/14/2002	7.15	25.6	2340		1560	4.3	< 1		14	< 1	2.8		0202-01358-003
EMW-05	9/17/2002	7.24	27.4	1970		1320	< 1	< 1		9.7	< 1	3.5		0207-07807-006
EMW-05	9/17/2002	7.24	27.4	1970		1320	< 1	< 1		9.1	< 1	3.4		0207-07807-005
EMW-05	3/25/2003	7.06	27.6	1850		1240	< 1	< 1	< 1	8.4	< 1	3.5		030302652012
EMW-05	9/23/2003	7.2	27.6	1780		1190	< 1	< 1	< 1	8.7	< 1	2.4		030909106012
EMW-05	3/3/2004	7.1	26.2	1910		1280	< 1	< 1	< 1	6.7	< 1	1.6		040302470003
EMW-05	7/28/2008	6.89	25.87	3374		2193	0.7	<0.5	<0.5	12	<0.5	1.9	8.4	204938-007
EMW-05	2/19/2009	7.2	26.88	3978	17.3	2.67	8	<0.5	<0.5	19	<0.5	1.5		210199-010
EMW-05	8/26/2009	6.79	29.66	4246	11	2.85	0.9	<0.5	<0.5	13	<0.5	1.4	9.9	214514-022
EMW-05	2/5/2010	6.95	27.2	5309	113	3.56	29	<0.5	0.1	66	<0.5	3.2		218222-005
EMW-05	2/5/2010	6.95	27.2	5309	113	3.56	31	<0.5	0.2	62	<0.5	3.5		218218-025
EMW-05	2/5/2010	6.95	27.2	5309	113	3.56	30	<0.5	0.2	63	<0.5	3.6		218209-021
EMW-05	8/28/2010	6.94	31.22	3881	2	2.6	2.2	<0.5	<0.5	16	<0.5	1.5		
EMW-05	8/28/2010	6.94	31.22	3881	2	2.6	2.2	<0.5	<0.5	16	<0.5	1.5		222121-010
EMW-05	2/12/2011	6.76	29.25	3630	34.5		54	<0.5	<0.5	75	<0.5	3.4	24	PGA SOUTH
EMW-05	5/6/2011	6.94	32.3	3556	20.7		49	<0.5	0.2	67	<0.5	2.5		PGA SOUTH
EMW-05	8/2/2011						2.7	<0.5	<0.5	17	<0.5	1.5	14	PGA SOUTH
EMW-05	8/3/2011	6.59	33.1	4740	0.87		3.6	<0.5	<0.5	17	<0.5	1.4	16	PGA SOUTH
EMW-05	2/4/2012	6.81	27.73	3475	7.36		3.1	<0.5	<0.5	18	<0.5	1.2	17	189044
EMW-06	12/10/1986												33	ACOE-MRDI
EMW-06	3/21/1987												29	ATL
EMW-06	6/29/1987												30	ATL
EMW-06	9/29/1987												15	ATL
EMW-06	1/15/1988												24	ATL
EMW-06	1/31/1990		22.1			1940	1850	<0.2		20.4	6.2	<0.2		2500
EMW-06	5/23/1990			3880		2590	< 5	< 5		760	< 5	< 5		5760
EMW-06	6/20/1990		27.6	3690		2430	< 5	< 5		650	< 5	< 5		6772
EMW-06	7/18/1990	7.16	29	3730		2490	< 5	< 5		650	< 5	< 5		7728
EMW-06	8/17/1990	7.17	32.4	3420		2280	< 5	< 5		730	< 5	< 5		8664
EMW-06	9/23/1990	7.16	28	3910		2610	< 5	< 5		630	< 5	< 5		9768
EMW-06	10/21/1990	7.51	26.2	4260		2840	< 5	< 5		490	< 5	< 5		10738
EMW-06	11/25/1990	7.17	26.7	4290		2860	< 2	< 2		570	< 2	< 2		11779
EMW-06	12/17/1990	7.14	24.2	4210		2810	< 5	< 5		440	< 5	< 5		12764
EMW-06	1/21/1991	7.22	25.1	4210		2810	13	< 2		410	< 2	< 2		101748
EMW-06	3/16/1991	7.16	25.3	4240		2830	< 4	< 4		360	< 4	< 4		103798
EMW-06	6/30/1991	7.28	27.8	4130		2770	<0.2	<0.2		330	<0.2	<0.2		107817
EMW-06	9/23/1991	7.52	25.6	3950		2630	2	< 2		360	< 2	< 2		109886
EMW-06	1/21/1992	7.25	24.3	3600		2410	< 4	< 4		280	< 4	< 4		201771
EMW-06	1/25/1992												200	201816
EMW-06	5/4/1993	7.1	25.8	3650		2520	8.9	< 1		89	< 1	< 1		30553201
EMW-06	6/14/1993	6.99	29	3420		1300	7	< 1		62	< 1	< 1		30681603
EMW-06	6/16/1993												19	306816
EMW-06	1/11/1994	7.14	22.9	3230		2150	1.5	<0.2		52	<0.2	<0.2	18	40166903
EMW-06	3/9/1994	7.21	26.7	3000		2010	<0.2	<0.2		18	<0.2	0.3		40378304
EMW-06	4/15/1994	7.33	28.4	3100		2080	4.3	<0.2		45	<0.2	<0.2		40484804
EMW-06	6/8/1994												12	40672201
EMW-06	6/8/1994	7.11	27	2920		1940	0.6	<0.4		45	<0.4	<0.4		40667310
EMW-06	9/27/1994	6.9	26.3	2010			<0.2	<0.2		20	<0.2	<0.2		40993622
EMW-06	1/11/1995	6.6	25.7	2740		1920	2.9	<0.2		18	<0.2	<0.2		9501029372
EMW-06	3/24/1995	7.12	25.9	2840		1900	2	< 1		14	< 1	< 1		9503-4396-8
EMW-06	12/21/1995	7.01	25.5	2710		1890	2.2	< 1		16.1	< 1	< 1		9512-09143-1
EMW-06	5/6/1996	7.32	28	2450		1630	2.1	< 1		18.3	< 1	< 1		9605-02234-4
EMW-06	12/26/1996	7.02	25.6	2690		1800	1.5	< 1		10.2	< 1	< 1		9612-06692-1
EMW-06	12/11/1997	7.18	25.2	1850		1230	< 1	< 1		7	< 1	< 1		9712-08036-3
EMW-06	5/28/1998	7.28	27.8	1780		1200	< 1	< 1		8.1	< 1	< 1		9805-03669-1
EMW-06	11/4/1998												15	9811-08030-3
EMW-06	2/7/1999	7.11	25.6	1760		1170	< 1	< 1		6.5	< 1	< 1		9902-01284-22
EMW-06	1/26/2000	7.15	25.4	1400		930	1	< 1		7.6	< 1	1.6		0001-00868-001
EMW-06	2/22/2001	7.16	25.5	1800		1210	< 1	< 1		5.4	< 1	2.7		0102-01393-007
EMW-06	3/29/2002	7.17	26.2	1870		1240	< 1	< 1		5.4	< 1	3.1		0204-02557-001

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
EMW-06	3/21/2003	7.1	26.6	1860		1250	< 1	< 1	< 1	6.7	< 1	3.4		030302553004
EMW-06	3/2/2004	7.19	23.6	1810		1210	< 1	< 1	< 1	6	< 1	3.1		040302356006
EMW-06	3/22/2005	7.25	22	1650		1100	< 1	< 1	< 1	8	< 1	2.4		05031440-09D
EMW-06	3/22/2006	7.11	26	1390		930	< 1	< 1	< 1	2.1	< 1	1.8	13	06031725-02D
EMW-06	8/21/2006												19	06081020-02B
EMW-06	3/23/2007	7.3	23.4	1480		1000	< 1	< 1	< 1	2	< 1	1.42		07030871-10
EMW-06	5/8/2007	7.15	29	1380		920								07050310-02
EMW-06	5/30/2007	6.93	25.4	1370		920							27.5	07051077-06
EMW-06	9/18/2007	6.67	27.2	2190		1470							27.3	07090641-05A
EMW-06	7/31/2008	7.09	26.49	2584		1685	<0.5	<0.5	<0.5	3.6	<0.5	2	5	205025-007
EMW-06	2/20/2009	7.47	28.07	2517	202	1.69	0.2	<0.5	<0.5	1.7	<0.5	0.7		210249-004
EMW-06	2/21/2009												< 5	210249-005
EMW-06	8/25/2009	6.81	30.35	2374	11.4	1.59							11	214514-006
EMW-06	2/5/2010	7.21	25.64	3179	150	2.13							10	218209-003
EMW-06	2/5/2010	7.21	25.64		150	2.13							11	218209-002
EMW-06	2/5/2010	7.21	25.64	3179	150	2.13	<0.5	<0.5	<0.5	1.3	<0.5	1.2		218218-016
EMW-06	2/5/2010	7.21	25.64	3179	150	2.13	<0.5	<0.5	<0.5	1.3	<0.5	1.1		218218-015
EMW-06	8/27/2010												13	222121-005
EMW-06	2/11/2011	6.77	27.16	2495	11.95		<0.5	<0.5	<0.5	2.7	<0.5	1.7		PGA SOUTH
EMW-06	5/6/2011	7.03	26.8	2600	2.61								7.8	PGA SOUTH
EMW-06	8/4/2011	6.76	30.27	2491	15.9								9.1	PGA SOUTH
EMW-06	11/17/2011	6.97	26.29	1698	14.4									154540
EMW-06	2/4/2012	7.27	21.62	2252	5.78		<0.5	<0.5	<0.5	3.2	<0.5	1.9	13	189044
EMW-06	8/8/2012	6.73	31.16	7036	34.4								10	189044
EMW-06	2/7/2013				17.5		<0.5	<0.5	<0.5	3.6	<0.5	1.3	8.3	189044
EMW-06	8/8/2013				16.6		0.2 J	<0.5	<0.5	8.1	<0.5	1.1	14	247818-007
EMW-07	12/10/1986												45	ACOE-MRDI
EMW-07	3/22/1987												500	ATL
EMW-07	6/26/1987												70	ATL
EMW-07	9/30/1987												32	ATL
EMW-07	1/15/1988												47	ATL
EMW-07	1/31/1990							<0.2			0.5	1.4		2500
EMW-07	3/1/1990	6.93	25.8	3090		2070	28.9	<0.2		95	0.9	1.1		3518
EMW-07	3/22/1990	7.05	25.3	3330		2250	32	< 1		88.9	2	1		3755
EMW-07	4/18/1990	6.95	25.9	3240		2160	25	< 1		82	< 1	< 1		4665
EMW-07	5/23/1990			3420		2290	27	< 1		89	1	< 1		5760
EMW-07	6/19/1990		26.2	3340		2230	27	< 1		100	< 1	< 1		6772
EMW-07	7/18/1990	7.09	29.3	3350		2240	23	< 1		79	1	< 1		7728
EMW-07	8/17/1990	7.12	29.2	3290		2200	21	< 1		100	1	< 1		8664
EMW-07	9/23/1990	7.05	28.5	3620		2420	19	< 1		82	< 1	< 1		9768
EMW-07	1/20/1992	7.28	24.4	3330		2220	13	<0.4		96	0.9	<0.4		201746
EMW-07	3/25/1992	7.26	26.2	3180		2130	11	4		93	1	< 1		203899
EMW-07	10/5/1992	7.15	26	3240		2170	15	<0.4		80	1	<0.4		210565
EMW-07	12/23/1992	7	24.6	3990		2700	36.2	<0.2		71	0.9	1.2		212987
EMW-07	3/19/1993	6.99	26	3400		2270	49	<0.2		62	1.1	2		30386609
EMW-07	6/18/1993	6.96	26.5	3500		1350	35	< 1		56	< 1	1		30689306
EMW-07	10/9/1993	7.07	27	3420			22	< 1		62	< 1	< 1		31070908
EMW-07	10/10/1993	7.07	27	3420			33	< 1		92	< 1	< 1		31070905
EMW-07	1/21/1994	6.9	23.2	3390		2270	14	< 1		60	< 1	< 1		40192001
EMW-07	4/15/1994	7.07	26	3120		2070	9.2	<0.2		5.6	<0.2	<0.2		40484806
EMW-07	6/9/1994	7.02	27.7	3270		2220	40	<0.4		52	<0.4	0.4		40667316
EMW-07	6/9/1994	6.99												2500
EMW-07	9/27/1994	6.91	25.5	2710			3.8	<0.2		73	0.7	3		40993625
EMW-07	1/11/1995	6.5	24.8	3710		2530	62	<0.2		42	<0.2	2.7		9501029374
EMW-07	3/28/1995	6.91	25.7	3370		2250	45.2	< 1		23.9	< 1	1.3		9503-4500-4
EMW-07	6/16/1995	7.08	25.6	3480		2340	40.4	< 1		21.3	< 1	1.6		9506-05955-5
EMW-07	6/16/1995	7.08	25.6	3480		2340	37.7	< 1		21.4	< 1	1.6		9506-05955-6
EMW-07	9/20/1995	7.16	26.9	3500		2390	30.7	< 1		14.9	< 1	1.4		9509-07574-17
EMW-07	9/20/1995	7.16	26.9	3500		2390	30.3	< 1		14.8	< 1	1.3		9509-07574-18
EMW-07	12/19/1995	6.99	24.6	4270		2810	23.6	< 1		11.6	< 1	< 1		9512-09134-10
EMW-07	3/28/1996	7.17	25.8	3080		2060	16	< 1		9.7	< 1	1.4		9603-01561-4
EMW-07	3/28/1996	7.17	25.8	3080		2060	13	< 1		9.8	< 1	1.5		9603-01561-3
EMW-07	6/24/1996	7.15	26.5	2950		1990	17.4	< 1		6.3	< 1	1.7		9606-03147-4
EMW-07	9/25/1996	7.01	26.3	3190		2140	22.8	< 1		< 1	< 1	< 1		9609-04963-12
EMW-07	12/18/1996	7.01	24.6	3080		2080	31.8	< 1		12.2	< 1	1.8		9612-06602-4
EMW-07	12/18/1996						32.8	< 1		12.5	< 1	1.8		9612-06602-3
EMW-07	2/19/1997	7.01	26.3	3110			21.5	< 1		14.6	< 1	< 1		9702-01144-9
EMW-07	6/11/1997	7.05	25.9	2050		1380	16.2	< 1		12.5	< 1	< 1		9706-03639-6
EMW-07	6/11/1997	7.05	25.9	2050		1380	19.4	< 1		14.3	< 1	< 1		9706-03639-5
EMW-07	9/11/1997	7.04	26.3	2100		1470	30.8	< 1		24.9	< 1	2.11		9709-05871-14
EMW-07	9/11/1997	7.04	26.3	2100		1470	30.5	< 1		26	< 1	2.37		9709-05871-13

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
EMW-07	11/25/1997	6.96	25.4	2170		1450	32.5	< 1		24.9	< 1	2		9711-07631-2
EMW-07	2/26/1998	7.19	24.6	1070		710	13.9	< 1		10.8	< 1	1		9802-01359-5
EMW-07	2/26/1998	7.19	24.6	1070		710	14.8	< 1		10.2	< 1	1.1		9802-01359-4
EMW-07	9/8/1998	7.2	27.3	1400		940	12.5	< 2		9.4	< 2	< 2		9809-06312-2
EMW-07	11/4/1998												20	9811-08030-4
EMW-07	2/8/1999	7.32	25.2	850		560	5.8	< 1		6.4	< 1	< 1		9902-01334-05
EMW-07	2/8/1999	7.32	25.2	850		560	4.6	< 1		5.5	< 1	< 1		9902-01334-04
EMW-07	7/30/1999	7.42	26.1	420		280	< 10	< 10		< 10	< 10	< 10		9908-06887-006
EMW-07	7/30/1999	7.42	26.1	420		280	< 5	< 5		< 5	< 5	< 5		9908-06887-005
EMW-07	1/19/2000	6.99	25.3	1880		1260	13.5	< 1		13	< 1	1.6		0001-00632-001
EMW-07	7/27/2000	7.2	27.3	1660		1110	8.9	< 1		9.1	< 1	< 1		0007-06600-010
EMW-07	2/22/2001	7.04	25.7	1060		700	6.7	< 1		6.4	< 1	< 1		0102-01393-010
EMW-07	9/26/2001	7	27.2	1930		1280	11.3	< 1		9.3	< 1	1.4		0109-07212-007
EMW-07	9/26/2001	7	27.2	1930		1280	10.3	< 1		10.4	< 1	2.2		0109-07212-001
EMW-07	2/13/2002		25.5	1740		1170	12	< 1		13	< 1	1.8		0202-01324-007
EMW-07	2/14/2002	7.02												0202-01324-007
EMW-07	9/13/2002	7.19	29.1	470		300	4.6	< 1		3.8	< 1	< 1		0209-07700-013
EMW-07	3/24/2003	7.07	27	530		350	4	< 1	< 1	3.7	< 1	< 1		030302652004
EMW-07	3/24/2003	7.07	27	530		350	3.4	< 1	< 1	3.1	< 1	< 1		030302652010
EMW-07	9/22/2003	7.14	30.3	1420		950	17.6	< 1	< 1	10.9	< 1	< 1		030909106005
EMW-07	9/22/2003	7.14	30.3	1420		950	42.4	< 1	< 1	25.4	< 1	2.1		030909106004
EMW-07	3/3/2004	7.07	25.7	1770		1180	15	< 1	< 1	11	< 1	1.9		040302470001
EMW-07	9/24/2004	7.12	29.4	1500		1000	18	< 1	< 1	11	< 1	1.8		040911070018
EMW-07	9/24/2004	7.12	29.4	1500		1000	17	< 1	< 1	10	< 1	1.7		040911070017
EMW-07	9/30/2005	7.18	27.9	810		540	4.9	< 1	< 1	4	< 1	< 1		05091650-19D
EMW-07	3/30/2006	6.97	25.8	1380		920	5.8	< 1	< 1	5.5	< 1	1.1		06031844-04D
EMW-07	9/28/2006	7.08	29.1	1590		1060	8.49	< 1	< 1	6.85	< 1	1.93		06091031-18D
EMW-07	3/13/2007	7.18	27.5	1650		1100	7.68	< 1	< 1	5.98	< 1	1.87		07030441-15
EMW-07	9/27/2007	6.76	28.6	1760		1170	8.79	< 1	< 1	6.7	< 1	1.84		07091009-24D
EMW-07	1/10/2008	6.74	27.88	2958		1980	18	<0.5	0.2	11	<0.5	2.7		200517-009
EMW-07	7/31/2008	5.76	27.66	2863		1864	14	<0.5	<0.5	7.5	<0.5	2.4		205025-006
EMW-07	2/20/2009	7.19	25.44	2679	194	1.79	4.7	<0.5	<0.5	3.4	<0.5	1.4		210249-002
EMW-07	8/25/2009	6.84	32.16	3344	8.97	2.24	<0.5	<0.5	<0.5	6.3	<0.5	2.1		214514-007
EMW-07	2/5/2010	7.01	27.93	4410	16	2.95	18	<0.5	0.3	11	<0.5	2.2		218218-022
EMW-07	8/28/2010	7.65	30.11	2813	83	1.88	8.2	<0.5	0.1	7.3	<0.5	1.6		222121-009
EMW-07	8/28/2010	7.65	30.11	2813	83	1.88	8.2	<0.5	0.1	7.3	<0.5	1.6		
EMW-07	2/12/2011	6.74	26.55	2834	1.55		10	<0.5	0.2	8.2	<0.5	1.5	56	PGA SOUTH
EMW-07	5/6/2011	6.27	28.97	2852	13.71		8.4	<0.5	0.2	7.8	<0.5	1.7		PGA SOUTH
EMW-07	8/2/2011						7	<0.5	0.3	6.8	<0.5	1.1	38	PGA SOUTH
EMW-07	8/5/2011	6.99	33.75	25651	40.2		7.2	<0.5	<0.5	7.2	<0.5	1.6	53	PGA SOUTH
EMW-07	2/4/2012	7.15	28.64	2455	7.29		12	<0.5	0.3	10	<0.5	2	55	189044
EMW-07R	2/7/2013				7.89		0.5	<0.5	<0.5	2	<0.5	0.2		189044
EMW-07R	8/8/2013				2.58		<0.5	<0.5	<0.5	0.3 J	<0.5	0.7		247818-020
EMW-08	12/10/1986												21	ACOE-MRDI
EMW-08	3/21/1987												10	ATL
EMW-08	6/29/1987												24	ATL
EMW-08	1/30/1990	7.4						<0.2				0.4		1745
EMW-08	3/1/1990	6.86	27.6	7800		5270	0.3	<0.2		36.7	<0.2	<0.2		3518
EMW-08	3/21/1990	6.73	28	8050		5390	0.6	<0.2		12.8	<0.2	0.2		3755
EMW-08	4/18/1990	6.8	27.5	7170		4770	<0.2	<0.2		14.3	<0.2	<0.2		4665
EMW-08	5/23/1990			7780		5180	<0.2	<0.2		7.7	<0.2	<0.2		5760
EMW-08	6/19/1990	0	27.9	7750		5190	<0.2	<0.2		4.3	<0.2	<0.2		6772
EMW-08	7/18/1990	6.86	28.6	7830		5230	<0.2	<0.2		2.8	<0.2	<0.2		7728
EMW-08	8/17/1990	7.05	28.9	7820		5220	<0.2	<0.2		1.9	<0.2	<0.2		8664
EMW-08	9/23/1990	7.09	27.6	7920		5280	<0.2	<0.2		2.3	<0.2	<0.2		9768
EMW-08	10/18/1990	6.93	27.6	7860		5240	<0.2	<0.2		11.5	<0.2	<0.2		10721
EMW-08	11/24/1990	6.89	27.8	7650		5120	<0.2	<0.2		29.4	<0.2	<0.2		11779
EMW-08	12/17/1990	6.81	25.5	7690		5120	0.2	<0.2		15.6	<0.2	<0.2		12764
EMW-08	1/23/1991	6.91	25.7	7830		5220	<0.2	<0.2		8.1	<0.2	<0.2		101748
EMW-08	3/16/1991	6.87	26	7720		5160	<0.2	<0.2		5.4	<0.2	<0.2		103798
EMW-08	5/22/1991	6.95	27.6	8150		5460	0.4	<0.2		12	<0.2	<0.2		105819
EMW-08	6/21/1991	7.12	28.3	8360		5580	<0.2	<0.2		16.9	<0.2	<0.2		106863
EMW-08	9/23/1991	7.22	28.7	8850		5910	<0.21	<0.2		1.4	<0.2	<0.2		109886
EMW-08	1/19/1992	7.2	25.3	7580		5060	<0.2	<0.2		12	<0.2	<0.2		201734
EMW-08	3/25/1992	7.05	26.5	6440		4300	0.3	0.2		150	0.5	0.3		203899
EMW-08	5/15/1992	6.76	28.6				0.2	<0.2		<0.2	0.2	<0.2		205840
EMW-08	6/30/1992	7.09	28.1	7780		5200	<0.2	<0.2		33	<0.2	<0.2		206065
EMW-08	8/21/1992	7.13	28.4	7270		4790	<0.2	<0.2		68	11.3	0.2		208894
EMW-08	10/7/1992	7.06	27.3	7500		4990	<0.2	<0.2		35.2	<0.2	<0.2		210612
EMW-08	1/4/1993	6.9	26.7	7640		5160	0.4	<0.2		40	<0.2	<0.2		301538
EMW-08	1/5/1993	6.9	26.7	7640		5160	0.2	<0.2		32	<0.2	<0.2		30153801

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
EMW-08	3/23/1993	6.83	27	6140		4080	1	<0.2		120	0.6	<0.2		30397403
EMW-08	3/24/1993	6.83	27	6140		4080	1	<0.2		120	0.5	<0.2		30397404
EMW-08	6/15/1993	6.8	28.6	6000		1500	2900	580		1500	< 10	30		30681612
EMW-08	7/9/1993	6.99	29.1	5080		3410	1200	210		650	2	18		30762806
EMW-08	10/8/1993	7.02	27	5310			210	24		440	< 10	< 10		31070904
EMW-08	12/28/1993	7.02	25.8	5640		3780	120	13		280	1	16	238	31219402
EMW-08	1/6/1994	6.76	22.1	5180		3500							195	40158604
EMW-08	4/20/1994	6.92	28	4630		3120	89	5.2		250	< 1	15		40494813
EMW-08	7/12/1994	7.06	28.4	4530		3020	61	3.7		210	0.6	15		40766501
EMW-08	9/27/1994	6.91	27				<0.2	9.5		240	<0.2	12		40964703
EMW-08	9/28/1994	6.91	27	3840			< 2	10		300	< 2	16		40993631
EMW-08	12/22/1994	6.97	26.7	5410		3580	160	5.6		160	<0.2	9.4		9412026718
EMW-08	12/23/1994	6.97	26.7	5410		3580	180	5.9		170	<0.2	9.6		9412026725
EMW-08	3/31/1995	6.94	26.6	3980		2660	56.7	< 1		482	< 1	< 1		9503-4521-6
EMW-08	6/19/1995	6.98	28.2	5730		3830	131	< 1		156	< 1	< 1		9506-05974-4
EMW-08	9/22/1995	7.06	28.1	5840		3910	195	< 1		181	< 1	5.3		9509-07628-7
EMW-08	12/20/1995	6.9	27.2	6000		4030	96.3	< 1		85.3	< 1	2.3		9512-09134-17
EMW-08	3/29/1996	6.9	26	6010		4020	60.5	< 1		64.1	< 1	< 1	149	9604-01585-2
EMW-08	6/24/1996	6.89	27.5	5780		3880	< 1	< 1		80.6	< 1	1.8		9606-03147-10
EMW-08	9/26/1996	6.92	27.9	5960		3980	147	< 1		88	< 1	< 1	220	9609-04963-18
EMW-08	12/29/1996	6.83	27	5970		4000	100	< 1		144	< 1	< 1	126	9612-06704-11
EMW-08	2/26/1997	7.08	26.2	5970			56	< 1		511	< 1	< 1	335	9702-01315-4
EMW-08	6/16/1997	7.07	27.3	4350		2910	50.3	< 1		55	< 1	2	119	9706-03832-8
EMW-08	9/23/1997	6.86	26.5	4410		2940	77.3	< 1		67.7	< 1	2.3		9709-06208-16
EMW-08	12/15/1997	6.83	26.4	4370		2920	40.2	< 1		39.3	< 1	< 1	< 5	9712-08132-3
EMW-08	2/19/1998	6.89	26.9	4410		2950	41.7	< 1		48.3	< 1	< 1	104	9802-01226-2
EMW-08	9/10/1998	7.02	28.3	4260		2840	27.7	< 1		74.3	< 1	< 1	162	9809-06373-7
EMW-08	11/4/1998												123	9811-08030-6
EMW-08	2/9/1999	6.81	27.8	4550		3040	20.5	< 1		31.5	< 1	< 1	62	9902-01334-17
EMW-08	7/31/1999	6.83	27.5	4860		3250	24.2	< 1		47.6	< 1	< 1	80	9908-06887-013
EMW-08	1/27/2000	6.85	26.7	3570		2390	24.3	< 1		36.3	< 1	< 1	75	0001-00895-006
EMW-08	7/28/2000	7	27.8	5090		3410	15	< 1		50.8	< 1	< 1	69	0007-06667-004
EMW-08	2/26/2001	6.85	26.7	5010		3350	11.1	< 1		43.8	< 1	< 1	81	0102-01473-001
EMW-08	9/26/2001	6.79	28.2	5480		3670	9.6	< 1		69.6	< 1	1.2	79	0109-07212-006
EMW-08	2/14/2002	6.72	27	5270		3520	15	< 1		120	< 1	< 1	70	0202-01358-004
EMW-08	9/17/2002	6.83	28.3	4910		3280	13.5	< 1		60.8	< 1	< 1	62	0207-07807-007
EMW-08	3/25/2003	6.72	27.5	4760		3190	10.4	< 1	< 1	67.1	< 1	< 1	76	030302652013
EMW-08	9/23/2003	6.77	28	4490		3010	18.5	< 1	< 1	89.4	< 1	< 1	65	030909106013
EMW-08	3/3/2004	6.72	25.5	4750		3190	16	< 1	< 1	72	< 1	1	75	040302470004
EMW-08	11/19/2008	6.76	30.15	8975		6010								208075-013
EMW-08	11/20/2008						8	<0.5	0.3	45	<0.5	0.7	100	208075-013
EMW-08R	2/17/2012						3	<0.5	0.9	79	0.3	1.5		189044
EMW-08R	3/2/2012						6.5	<0.5	1.3	57	0.4	0.8		189044
EMW-08R	5/8/2012	6.98	32.13	2137	0.67		17	<1.7	1.9	210	<1.7	21	180	189044
EMW-08R	8/10/2012	6.87	30.94	1701	30.5		9.4	<1.3	1.3	150	0.3	17		189044
EMW-08R	2/12/2013				1.86		18	<0.5	2.3	210	0.7	23	150	189044
EMW-08R	8/8/2013				1.2		25	<0.5	2.5	290	1.2	22	150	247818-008
EMW-10	12/10/1986												9	ACOE-MRDI
EMW-10	6/27/1987												110	ATL
EMW-10	10/1/1987												41	ATL
EMW-10	1/21/1988												66	ROD
EMW-10	1/21/1988												18	ATL
EMW-10	1/30/1990							0.4			<0.2	9.2		1745
EMW-10	3/1/1990	6.98	27	4080		2730	8.8	<0.2		2100	1.5	4.9		3518
EMW-10	3/22/1990			3480		2320	< 20	< 20		1800	< 20	< 20		3755
EMW-10	4/18/1990	6.98	26.9	3480		2350	< 20	< 20		2100	< 20	< 20		4665
EMW-10	5/23/1990			3860		2570	< 20	< 20		2250	< 20	< 20		5760
EMW-10	6/19/1990		27.5	3670		2450	< 20	< 20		2600	< 20	< 20		6772
EMW-10	7/18/1990	7.06	28.2	3670		2450	< 20	< 20		2120	< 20	< 20		7728
EMW-10	8/17/1990	7.1	28.5	3360		2240	< 20	< 20		2200	< 20	< 20		8664
EMW-10	9/23/1990	7.18	27.4	3620		2420	< 20	< 20		2160	< 20	< 20		9768
EMW-10	10/18/1990	7.08	27.1	3580		2390	< 10	< 10		2190	< 10	< 10		10721
EMW-10	11/25/1990	7.16	26.6	3600		2400	11	1		2490	1.7	5.3		11779
EMW-10	12/17/1990	7.19	24.5	3740		2490	< 20	< 20		1700	< 20	< 20		12764
EMW-10	1/21/1991	7.24	26	3590		2400	10	< 1		1860	< 1	< 1		101748
EMW-10	3/16/1991	7.19	25.7	3640		2430	< 20	< 20		1480	< 20	< 20		103798
EMW-10	5/22/1991	7.25	27.5	3570		2380	< 20	< 20		1630	< 20	< 20		105819
EMW-10	6/21/1991	7.3	27.8	3550		2380	< 20	< 20		1900	< 20	< 20		106863
EMW-10	9/23/1991	7.6	26.5	3410		2270	< 20	< 20		1400	< 20	< 20		109886
EMW-10	1/21/1992	7.25	24.4	2880		1930	< 20	< 20		1600	< 20	< 20		201771
EMW-10	3/25/1992	7.25	27	2870		1930	< 10	< 10		1300	< 10	< 10		203899

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
EMW-10	6/30/1992	7.33	26.8	3300		2200	< 10	< 10		1100	< 10	< 10		206065
EMW-10	10/6/1992	7.26	27.5	3160		2100	< 10	< 10		840	< 10	< 10		210565
EMW-10	12/24/1992	7	25.5	3510		2280	20	10		950	< 2	< 2		212987
EMW-10	12/25/1992	7	25.5	3510		2280	20	9		920	<0.2	2		21298701
EMW-10	3/18/1993	7.1	25.4	2860		1900	20	< 2		880	< 2	6		30386605
EMW-10	6/16/1993	7.03	26.6	2920		1400	12	3.1		840	0.4	1.4		30681613
EMW-10	10/12/1993	7.01	26	2540			51	11		760	< 2	< 2		31074102
EMW-10	12/30/1993	6.42	22.1	4220			150	42		500	1.1	4.4		40151212
EMW-10	12/31/1993	6.42	22.1	4220			170	40		550	0.7	4.8		40151211
EMW-10	4/21/1994	6.98	27.8	3920		2620	250	25		380	< 2	8		40494818
EMW-10	4/22/1994	6.98	27.8	3920		2620	240	23		330	< 2	7		40494819
EMW-10	6/10/1994	7.03	27	4270			240	21		290	< 2	9		40672205
EMW-10	9/27/1994	6.92	25.7	2550			< 2	10		290	< 2	14		40993632
EMW-10	12/22/1994	6.99	25.7	3090		2060	53	2.5		180	<0.2	14		9412026726
EMW-10	3/31/1995	7.04	26.3	3310		2220	41.8	< 1		320	< 1	11.4		9503-4521-8
EMW-10	6/20/1995	7.08	26.5	3820		2560	39	< 1		198	< 1	9.7		9506-05974-7
EMW-10	9/22/1995	7.25	27.6	3360		2250	32.6	< 1		235	< 1	18.5		9509-07628-8
EMW-10	12/20/1995	7	25.7	3080		2080	24.8	< 1		212	< 1	18.4		9512-09134-18
EMW-10	3/23/1996												30	ATL
EMW-10	3/29/1996	6.98	25.7	2970		1980	18.3	< 1		202	< 1	< 15.8		9604-01585-4
EMW-10	3/29/1996	6.98	25.7	2970		1980	19.9	< 1		190	< 1	12.6		9604-01585-3
EMW-10	6/24/1996	7.04	26.3	2920		1950	15.7	< 1		187	< 1	19.1		9606-03147-11
EMW-10	7/16/1996	7.19	29.1	2520		1770	1.9	< 1		304	< 1	32.6		9607-03554-7
EMW-10	8/29/1996	7.41	28.1	2560		1710	7.7	< 1		170	< 1	21		9608-04429-2
EMW-10	9/26/1996	7.01	27.2	2440		1630	< 1	< 1		168	< 1	20.7		9609-04963-20
EMW-10	11/7/1996	7.16	25.2	2500		1660	7.7	< 1		137	< 1	25.4		9611-05791-2
EMW-10	12/29/1996	7.19	26.3	2410		1620	< 1	< 1		410	< 1	31.4		9612-06704-13
EMW-10	2/26/1997	7.17	25.6	2420			< 1	< 1		244	< 1	< 1		9702-01315-6
EMW-10	6/16/1997	7.35	26.3	1670		1120	< 1	< 1		117	< 1	30		9706-03832-9
EMW-10	9/23/1997	7.22	26.3	1520		1020	8.6	< 1		227	< 1	34.1		9709-06208-17
EMW-10	12/15/1997	7.1	25.5	1430		9960	6.2	< 1		161	< 1	36.8		9712-08132-5
EMW-10	2/19/1998	7.24	26	1390		930	5	< 1		163	< 1	35.3		9802-01226-3
EMW-10	9/10/1998	7.35	27.4	1380		910	2.8	< 1		213	< 1	29.5		9809-06373-8
EMW-10	11/4/1998												12	9811-08030-8
EMW-10	2/11/1999	7.13	25.2	1720		1150	1.8	< 1		115	< 1	19.6		9902-01433-08
EMW-10	7/13/1999	7.08	26.8	1460		970	4.1	< 1		109	< 1	28.3		9907-06230-004
EMW-10	1/28/2000	7.16	26.1	1350		900	8.6	< 1		95.4	< 1	31.5		0001-00901-001
EMW-10	7/28/2000	7.33	27.3	1570		1050	8	< 1		86.4	< 1	27.7		0007-06667-005
EMW-10	2/26/2001	7.15	26.2	1460		980	4.3	< 1		136	< 1	28.9		0102-01473-003
EMW-10	9/26/2001	7.09	27.4	1550		1040	2.3	< 1		137	< 1	20.1		0109-07212-008
EMW-10	2/14/2002	7.1	25.8	1490		990	1.9	< 1		120	< 1	19		0202-01358-006
EMW-10	9/17/2002	7.14	28	1490		1000	3.1	< 1		48	< 1	17.6		0207-07807-009
EMW-10	3/28/2003	7.09	26.3	1480		990	6.5	< 1	< 1	62	< 1	21.3		030302776007
EMW-10	9/24/2003	7.1	26.3	1600		1070	11.7	< 1	< 1	77.8	< 1	27.2		030909106026
EMW-10	3/9/2004	7.35	28	1320		880	2.4	< 1	< 1	65	< 1	15		040302676006
EMW-10	9/28/2004	6.99	29.6	1800		1200	6.7	< 2	< 2	97.1	< 2	11.9		040911253016
EMW-10	3/23/2005	7.11	23.7	2010		1330	6.4	< 1	< 1	59	< 1	13		05031440-19D
EMW-10	3/23/2005	7.11	23.7	2010		1330	6.5	< 1	< 1	59	< 1	14		05031440-20D
EMW-10	9/19/2005	7.04	28.9	170		110	1.3	< 1	< 1	250	< 1	8.1		05091212-02D
EMW-10	3/30/2006	6.96	23.8	1980		1320	< 1	< 1	< 1	110	< 1	4.5	89	06031844-03D
EMW-10	8/15/2006												56	06080731-03B
EMW-10	9/28/2006	7.04	29.5	1950		1300	1.29	< 1	< 1	57.07	< 1	5.01		06091031-19D
EMW-10	3/14/2007	7.08	28.4	1790		1200	3.1	< 1	< 1	122.7	< 1	7.18		07030679-05
EMW-10	5/9/2007	6.84	27.6	1830		1230								07050341-02
EMW-10	5/29/2007	6.92	24.8	1680		1130							171	07051026-05
EMW-10	9/20/2007	6.78	26.6	2130		1420							388	07090741-02A
EMW-10	9/27/2007	6.75	27.1	2230		1450	1.67	< 1	< 1	24.67	< 1	3.51		07091009-25D
EMW-10	1/23/2008	6.82	25.68	3224		2160	2	<0.5	<0.5	27	<0.5	6.1		200727-003
EMW-10	1/23/2008	6.82	25.68	3224		2160	2	<0.5	<0.5	27	<0.5	5.9	7.3	200727-002
EMW-10	6/16/2008	7.25	27.04	3043		1990							3	204021-011
EMW-10	7/28/2008	6.57	29.95	2888		1861	0.9	<0.5	<0.5	96	<0.5	4.1	5	204938-003
EMW-10R	5/8/2012	6.81	31.84	2363	1.32		<1.7	<1.7	1.7	240	<1.7	7.7		189044
EMW-10R	8/13/2012	6.82	29.92	2172	20.91		<2.5	<2.5	2.5	360	<2.5	2.9		189044
EMW-10R	2/7/2013				6.29		<2.5	<2.5	<2.5	270	<2.5	3.4	44	189044
EMW-10R	8/8/2013				2.49		< 2.5	< 2.5	< 2.5	430	< 2.5	3.8	29	247818-009
EMW-11	12/10/1986												7	ACOE-MRDI
EMW-11	6/20/1990		27	3760		2510	< 5	< 5		530	< 5	< 5		6772
EMW-11	7/18/1990	7.07	20.3	3790		2530	< 5	< 5		640	< 5	< 5		7728
EMW-11	8/17/1990	7.08	28.6	3640		2430	< 5	< 5		680	< 5	< 5		8664
EMW-11	9/23/1990	7.15	26.7	3800		2500	< 5	< 5		740	< 5	< 5		9768
EMW-11	10/18/1990	7.09	26.9	3730		2490	< 5	< 5		420	< 5	< 5		10721

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
EMW-11	11/25/1990	7.18	25.5	3460		2310	< 2	< 2		340	< 2	< 2		11779
EMW-11	3/16/1991	7.14	26.4	2670		2430	< 2	< 2		180	< 2	< 2		103798
EMW-11	5/22/1991	7.18	26.4	3470		2320	< 2	< 2		180	< 2	< 2		105819
EMW-11	6/21/1991	7.27	26.4	3470		2320	< 1	< 1		110	< 1	< 1		106863
EMW-11	9/22/1991	7.41	26.6	3560		2380	< 2	< 2		240	< 2	< 2		109886
EMW-11	1/21/1992	7.26	24.2	2890		1930	< 2	< 2		120	< 2	< 2		201771
EMW-11	3/28/1992	7.29	25.3	2830		1890	< 1	< 1		120	< 1	< 1		203979
EMW-11	6/30/1992	7.36	26.4	3150		2100	< 1	< 1		140	< 1	1		206065
EMW-11	10/6/1992	7.29	26.4	2970		1980	< 2	< 2		86	< 2	< 2		210565
EMW-11	12/23/1992	7.1	25.3	3460		2320	<0.2	<0.2		140	<0.2	<0.2		212987
EMW-11	3/18/1993	7.1	25	3480		2320	<0.4	<0.4		270	0.4	<0.4		30386603
EMW-11	3/19/1993	7.1	25	3480		2320	<0.4	<0.4		270	<0.4	<0.4		30386604
EMW-11	6/17/1993	6.95	27.8	3800		1400	< 1	< 1		140	< 1	< 1		30689303
EMW-11	10/12/1993	7	26.5	3630			<0.4	<0.4		270	<0.4	0.7		31074101
EMW-11	12/30/1993	6.58	21.7	4150			< 2	< 2		430	< 2	< 2		40151208
EMW-11	4/19/1994	7	27.5	3910		2610	< 4	< 4		590	< 4	< 4		40494803
EMW-11	6/9/1994	7.01	28	3500		2330	2.2	< 2		440	< 2	< 2		40667319
EMW-11	12/22/1994	6.95	25.3	3440		2300	<0.2	<0.2		210	<0.2	2.8		9412026721
EMW-11	6/20/1995	7.18	26.4	3220		2160	< 1	< 1		256	< 1	4.7		9506-05974-8
EMW-11	9/22/1995	7.41	27.2	1920		2870	< 1	< 1		81.7	< 1	10.6		9509-07628-9
EMW-11	12/20/1995	7.13	26.1	2970		2020	< 1	< 1		58.1	< 1	< 10.6		9512-09134-19
EMW-11	3/29/1996	7.19	26	2680		1790	< 1	< 1		55.5	< 1	8.9		9604-01585-5
EMW-11	6/24/1996	6.94	26.1	2590		1730	< 1	< 1		59.8	< 1	12.2		9606-03147-12
EMW-11	9/26/1996	7.18	27.1	2360		1580	< 1	< 1		35.6	< 1	10		9609-04963-21
EMW-11	12/26/1996	7.09	25.5	2360		1590	< 1	< 1		39	< 1	17.5		9612-06692-7
EMW-11	2/26/1997	7.26	25.6	2340			< 1	< 1		41	< 1	11.2		9702-01315-2
EMW-11	6/16/1997	7.3	27.2	1650		1100	< 1	< 1		45	< 1	17		9706-03832-6
EMW-11	9/23/1997	7.28	27.6	1560		1050	< 1	< 1		34.4	< 1	15.9		9709-06208-11
EMW-11	12/12/1997	7.22	25.4	1490		1000	< 1	< 1		26.9	< 1	18.6		9712-08051-5
EMW-11	2/13/1998	7.24	25.6	1590		1070	< 1	< 1		22.1	< 1	17.9		9802-01144-4
EMW-11	9/10/1998	7.29	27.5	1630		1090	< 1	< 1		23.2	< 1	15.1		9809-06373-4
EMW-11	9/10/1998	7.29	27.5	1630		1090	< 1	< 1		23.5	< 1	15		9809-06373-5
EMW-11	11/4/1998												12	9811-08030-2
EMW-11	2/8/1999	7.2	27	1710		1150	< 1	< 1		17.5	< 1	8.8		9902-01334-06
EMW-11	8/3/1999	7.23	26.6	1480		990	< 1	< 1		29.6	< 1	12		9908-06948-001
EMW-11	1/27/2000	7.18	26.5	1360		910	< 1	< 1		40.9	< 1	14.6		0001-00895-001
EMW-11	7/27/2000	7.29	27.8	1580		1050	< 1	< 1		30.8	< 1	12.5		0007-06600-008
EMW-11	2/22/2001	7.13	26	1590		1060	< 1	< 1		35	< 1	14.7		0102-01393-009
EMW-11	9/24/2001	7.2	28.1	1620		1080	< 1	< 1		26	< 1	8.7		0109-07100-005
EMW-11	2/13/2002	7.16	25.6	1480		990	< 1	< 1		61	< 1	11		0202-01324-006
EMW-11	9/13/2002	7.2	28.3	1500		1000	< 1	< 1		71.7	< 1	13		0209-07700-012
EMW-11	3/24/2003	7.17	26.5	1500		1000	< 1	< 1	< 1	62.6	< 1	12.2		030302652003
EMW-11	9/22/2003	7.24	28	1370		920	< 1	< 1	< 1	124	< 1	15.3		030909106002
EMW-11	3/2/2004	7.18	22.9	1700		1140	< 1	< 1	< 1	40	< 1	6.6		040302356008
EMW-11	11/19/2008	6.92	26.51	2957		1980	<0.5	<0.5	0.2	29	<0.5	1.3	92	208075-016
EMW-11	8/24/2009	6.45	31.29	3693	44.1	2.47	<0.5	<0.5	<0.5	11	<0.5	1.7		214514-001
EMW-11	8/27/2010	7.23	29.62	4383	10	2.94	<0.5	<0.5	<0.5	8	<0.5	0.8		222121-003
EMW-11	5/6/2011	6.7	29.58	4331	3.1		<0.5	<0.5	<0.5	9.3	<0.5	1		PGA SOUTH
EMW-11	8/5/2011	6.73	34.21	3707	12.2		<0.5	<0.5	<0.5	9.3	<0.5	0.9		PGA SOUTH
EMW-11R	5/9/2012	6.94	30.88	2377	0.17		<0.7	<0.7	<0.7	69	<0.7	1.9	15	189044
EMW-11R	8/9/2012	6.21	32.39	2884	8.11		<0.5	<0.5	<0.5	36	<0.5	1.9		189044
EMW-11R	2/7/2013				52.1		<0.5	<0.5	<0.5	55	<0.5	2.3	27	189044
EMW-11R	8/8/2013				6.01		<0.5	<0.5	<0.5	52	<0.5	2.5	29	247818-010
EMW-12	3/22/1987												11	ATL
EMW-12	1/31/1990	6.98	24.4			3240	53	2.8		170	1.5	2.4		2500
EMW-12	3/1/1990	7.01	25.6	5630		3760	60	3.4		185	1.7	2.9		3518
EMW-12	3/21/1990	6.92	25.6	5390		3580	110	< 2		190	< 2	< 2		3755
EMW-12	4/17/1990					3740	94	< 10		210	< 10	< 10		4665
EMW-12	5/23/1990			6430		4290	2	3		174	102	2		5760
EMW-12	6/19/1990		29	6250		4160	144	5		177	< 2	3		6772
EMW-12	7/18/1990	7.03	27.8	6140		4100	165	7		200	< 2	5		7728
EMW-12	8/17/1990	7.08	28.9	6150		4100	130	7		150	< 2	4		8664
EMW-12	9/22/1990	7.16	26.5	5190		3460	150	5		210	< 2	4		9768
EMW-12	10/17/1990	7.07	28.1	5310		3540	90	< 2		140	< 2	8		10721
EMW-12	11/24/1990	7.07	27.4	5160		3460	110	< 2		190	< 2	3		11779
EMW-12	12/17/1990	7.06	25	5150		3440	82	< 2		110	< 2	< 2		12764
EMW-12	3/17/1991	7.06	26.8	5200		3480	67	1		140	1	2		103798
EMW-12	6/30/1991	7	28.1	5830		3890	65	< 1		140	< 1	1		107690
EMW-12	9/24/1991	7.47	27.6	5380		3580	24	< 1		110	2	2		109886
EMW-12	1/21/1992	7.17	25.6	4370		2910	50	< 1		110	< 1	1		201771
EMW-12	1/22/1992	7.17	25.6	4370		2910	66	< 1		140	< 1	2		20177101

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
EMW-12	3/28/1992	7.23	26.9	3990		2650	49	< 1		140	< 2	2		203979
EMW-12	6/30/1992	7.32	26.9	5010		3350	62	< 1		130	3	2		207545
EMW-12	10/9/1992	7.23	26.3	4510		3010	50	< 1		120	2	< 1		210645
EMW-12	1/4/1993	7	25.6	3720		2460	33	<0.2		100	1.3	1		301538
EMW-12	3/23/1993	7.09	27.5	3070		2050	21	< 1		97	2	< 1		30397406
EMW-12	3/25/1993						<0.2	<0.2		0.9	<0.2	<0.2		30397412
EMW-12	6/15/1993						23	<0.2			0.6	1		30681611
EMW-12	10/9/1993	7.01	26.5	3430			15	< 1		70	< 1	< 1		31070910
EMW-12	12/22/1993	6.96	25.3	3810		2560	16	<0.2		85	0.4	1		31214508
EMW-12	4/15/1994	7.03	27.6	3500		2340	29	<0.2		71	0.4	1.1		40484805
EMW-12	4/16/1994	7.03	27.6	3500		2340	30	<0.2		77	0.5	1.4		40484808
EMW-12	6/9/1994	6.98	26.9	3470		2330	20	<0.4		57	<0.4	<0.4		4066714
EMW-12	6/10/1994	6.98	26.9	3470		2330	20	<0.4		58	<0.4	<0.4		40667315
EMW-12	9/27/1994	6.85	26.7	2660			1.7	<0.4		57	0.4	1.4		40993623
EMW-12	9/28/1994	6.85	26.7	2660			1.8	<0.2		69	0.4	1.5		40993624
EMW-12	1/11/1995	6.6	25.8	3180		2200	44	<0.2		78	<0.2	2		9501029373
EMW-12	3/28/1995	6.97	26.2	3060		2040	35.4	< 1		61.3	< 1	< 1		9503-4500-3
EMW-12	6/19/1995	7.1	26.5	3080		2040	30.9	< 1		53.8	< 1	< 1		9506-05974-2
EMW-12	6/19/1995	7.1	26.5	3080		2040	29.2	< 1		49.9	< 1	1.2		9506-05974-1
EMW-12	9/22/1995	7.14	26.6	2970		1990	34.6	< 1		54.1	< 1	1.3		9509-07628-1
EMW-12	12/20/1995	6.88	25.1	2920		2580	24.6	< 1		43.4	< 1	< 1		9512-09134-14
EMW-12	12/20/1995	6.88	25.1	2920		2580	25.6	< 1		43.6	< 1	< 1		9512-09134-13
EMW-12	3/28/1996	7.05	26.3	2620		1740	27.1	< 1		46.9	< 1	< 1		9603-01561-7
EMW-12	6/24/1996	7.17	27.2	2740		1820	23.6	< 1		49.4	< 1	1.1		9606-03147-7
EMW-12	6/24/1996	7.17	27.2	2740		1820	19.5	< 1		29.6	< 1	< 1		9606-03147-8
EMW-12	9/25/1996	7.01	27.4	2840		1900	18.6	< 1		29	< 1	< 1		9609-04963-13
EMW-12	12/26/1996	6.89	25.6	3050		2060	31.7	< 1		60.5	< 1	< 1		9612-06692-6
EMW-12	2/26/1997	7.12	25.2	3060			23.1	< 1		50.6	< 1	< 1		9702-01315-1
EMW-12	6/16/1997	7.22	27.7	2520		1690	19.5	< 1		42	< 1	1.4		9706-03832-5
EMW-12	6/16/1997	7.22	27.7	2520		1690	18.9	< 1		41	< 1	1.4		9706-03832-4
EMW-12	9/23/1997	7.14	26.9	2560		1700	28.4	< 1		49.2	< 1	2.6		9709-06208-10
EMW-12	12/12/1997	7.07	25.8	2110		1420	< 1	< 1		37.7	< 1	1.8		9712-08051-4
EMW-12	12/12/1997	7.07	25.8	2110		1420	21.8	< 1		41.7	< 1	1.3		9712-08051-2
EMW-12	2/13/1998	7.06	26	1930		1290	15.7	< 1		21.8	< 1	1.5		9802-01144-3
EMW-12	9/10/1998	7.14	26.9	2230		1490	20.2	< 1		42.8	< 1	1.9		9809-06373-2
EMW-12	2/8/1999	6.9	26.1	1920		1290	15.6	< 1		25.7	< 1	< 1		9902-01334-01
EMW-12	7/31/1999	7.01	27	2610		1740	23.5	< 1		60.6	< 1	1.2		9908-06887-011
EMW-12	1/26/2000	7.1	26.2	1730		1160	22.4	< 1		39.4	< 1	1.3		0001-00868-006
EMW-12	7/28/2000	7.28	27.4	2080		2070	28.7	< 1		66.7	< 1	1.7		0007-06667-002
EMW-12	2/24/2001	7.06	26	2340		1560	25	< 1		34.2	< 1	1.5		0102-01412-002
EMW-12	9/26/2001	7.07	27.5	2840		1900	20.4	< 1		62.5	< 1	3		0109-07212-004
EMW-12	2/14/2002	7.09	27.1	2420		1620	19	< 1		75	< 1	2.1		0202-01358-002
EMW-12	9/16/2002	7.21	28.2	2560		1710	11.6	< 1		39	< 1	2.1		0209-07807-003
EMW-12	3/25/2003	7.06	27.4	2360		1580	13.4	< 1	< 1	36.8	< 1	2.4		030302652011
EMW-12	9/23/2003	7.26	27.3	2090		1400	4.3	< 1	< 1	29.2	< 1	2.8		030909106011
EMW-12	3/3/2004	7.05	24.4	2300		1530	6.8	< 1	< 1	30	< 1	3.1		040302470002
EMW-12	3/22/2005	7.13	27.1	1930		1290	9.2	< 1	< 1	28	< 1	2.5		05031440-13D
EMW-12	9/28/2005	7.18	28.3	1990		1320	8	< 1	< 1	31	< 1	1.8		05091650-17D
EMW-12	3/13/2006	6.9	26.3	2310		1540	9.6	< 1	< 1	37	< 1	2.6		06031132-04D
EMW-12	2/20/2009	7.27	27.05	3748	199	2.51	5.3	<0.5	0.1	14	<0.5	1		210249-003
EMW-12	8/28/2010	7.73	26.39	3314	243	2.22	7.3	<0.5	0.1	19	<0.5	1.1		222121-008
EMW-12R	2/17/2012						1.4	<0.5	<0.5	3	<0.5	0.1		189044
EMW-12R	5/8/2012	7.06	29.09	2315	3.88		2.1	<0.5	<0.5	4.3	<0.5	1.2	31	189044
EMW-12R	8/8/2012	6.73	36.11	2091	31.1		4.6	<0.5	0.1	11	<0.5	1		189044
EMW-12R	2/7/2013				3.68		8.8	<0.5	0.2	16	<0.5	1.3		189044
EMW-12R	8/8/2013				10.7		8.4	<0.5	0.3 J	17	<0.5	1.5		247818-014
EMW-13	12/10/1986												22	ACOE-MRDI
EMW-13	3/22/1987												18	ATL
EMW-13	6/25/1987												36	ATL
EMW-13	9/30/1987												11	ATL
EMW-13	1/20/1988												23	ATL
EMW-13	6/19/1990		28.1	5740		3820		< 5		210	< 5	< 5		6772
EMW-13	7/18/1990	7.13	28.9				21	< 2		210	< 2	< 2		7728
EMW-13	8/17/1990	7.09	29.9	5060		3380	18	< 2		180	< 2	< 2		8664
EMW-13	9/22/1990	7.22	26.1	4940		3290	14	< 2		180	< 2	< 2		9768
EMW-13	10/18/1990	7.36	25.4	4620		3080	13	< 1		120	< 1	< 1		10721
EMW-13	11/24/1990	7.23	25.5	4400		2930	15	< 1		100	< 1	< 1		11779
EMW-13	12/17/1990	7.22	23	4630		3080	12	< 1		120	< 1	< 1		12764
EMW-13	1/21/1991	7.29	22.3	4490		3000	15	< 2		101	< 2	< 2		101748
EMW-13	3/17/1991	7.25	23.6	4506		3000	13	< 1		93	< 1	< 1		103798
EMW-13	6/20/1991	7.4	26	4930		3290	25	< 1		120	< 1	1		106834

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
EMW-13	9/24/1991	7.57	26.4	4740		3170	7	< 1		75	< 1	< 1		109886
EMW-13	1/20/1992	7.38	23.9	4140		2760	0.09	<0.4		18	0.06	<0.4		201746
EMW-13	3/25/1992	7.23	25.2	3910		2610	2.6	<0.2		21	0.7	<0.2		203899
EMW-13	6/27/1992	7.33	26.6	5960		3970	7.1	<0.2		62	0.8	0.5		206044
EMW-13	10/5/1992	7.25	26.3	3750		2500	6	<0.2		26.2	0.8	0.3		210565
EMW-13	1/5/1993	6.7	23.6	4330		2870	<0.2	<0.2		9.3	0.3	<0.2		301538
EMW-13	3/19/1993	7.17	25.8	4090		2740	<0.2	<0.2		6.3	0.3	0.2		30386610
EMW-13	6/17/1993	7.07	27.9	3850		1400	10	0.4		54	<0.2	1		30689312
EMW-13	10/10/1993	7.11	25.5	2950			4.5	<0.2		23	<0.2	0.2		31070919
EMW-13	10/11/1993	7.11	25.5	2950			8	<0.2		28	0.3	0.4		31070920
EMW-13	12/22/1993	6.95	22.4	3940		2640	1.8	<0.2		22	<0.2	<0.2		31214504
EMW-13	4/7/1994	7.12	24.8	3700		2480	5.2	<0.2		21	<0.2	<0.2		40467420
EMW-13	6/6/1994	7.15	26.3	3730		2480	4.8	<0.2		29	<0.2	<0.2		40667302
EMW-13	9/27/1994	6.81	25.5	2460			0.7	<0.2		22	0.2	0.5		40993619
EMW-13	12/19/1994	7.1	24	3940		2640	<0.2	<0.2		8.8	<0.2	<0.2		9412025539
EMW-13	3/23/1995	7.18	24.8	3980		2650	< 1	< 1		6.5	< 1	< 1		9503-4396-2
EMW-13	6/16/1995	7.31	25.6	4510		2980	4.7	< 1		18.3	< 1	< 1		9506-05955-4
EMW-13	9/20/1995	7.22	26.7	4320		2880	5.8	< 1		15	< 1	< 1		9509-07574-16
EMW-13	12/19/1995	7.15	23.2	4350		3310	1.1	< 1		8.4	< 1	< 1		9512-09134-9
EMW-13	3/28/1996	7.1	25.5	4530		3020	3.4	< 1		11.9	< 1	< 1		9603-01561-5
EMW-13	6/24/1996	7.35	26.3	4860		3240	4.5	< 1		18.2	< 1	< 1		9606-03147-3
EMW-13	9/25/1996	7.12	26.4	4800		3200	9.2	< 1		19.2	< 1	< 1		9609-04963-11
EMW-13	12/26/1996	6.98	24.1	4730		3160	< 1	< 1		6.9	< 1	< 1		9612-06692-2
EMW-13	2/25/1997	7.24	23.8	4710			1.2	< 1		8.1	< 1	< 1		9702-01250-15
EMW-13	2/25/1997	7.24	23.8	4710			1.2	< 1		8.1	< 1	< 1		9702-01250-14
EMW-13	6/16/1997	7.16	26.2	3470		2320	3.9	< 1		17	< 1	< 1		9706-03832-1
EMW-13	9/23/1997	7.16	25.7	3180		2140	6.7	< 1		13.7	< 1	< 1		9709-06208-8
EMW-13	12/11/1997	7.07	23.5	3490		2330	1	< 1		7.8	< 1	< 1		9712-08036-4
EMW-13	2/13/1998	7.15	24.5	3400		2260	< 1	< 1		4.9	< 1	< 1		9802-01144-1
EMW-13	9/10/1998	7.1	25.8	3390		2270	2	< 1		9.8	< 1	< 1		9809-06373-1
EMW-13	2/7/1999	7.08	24.8	3460		2310	< 1	< 1		6.5	< 1	< 1		9902-01284-23
EMW-13	7/30/1999	7.1	25.2	3420		2290	1.3	< 1		8.4	< 1	< 1		9908-06887-002
EMW-13	1/26/2000	7.08	24.2	2400		1600	< 1	< 1		6	< 1	< 1		0001-00868-002
EMW-13	7/26/2000	7.26	27.8	3460		2320	1.4	< 1		9.2	< 1	< 1		0007-06600-002
EMW-13	2/21/2001	7.1	26.2	3690		2470	< 1	< 1		4.2	< 1	< 1		0102-01393-003
EMW-13	9/24/2001	7.14	26.8	3390		2270	2.2	< 1		18.4	< 1	< 1		0109-07100-002
EMW-13	2/13/2002	7.02	25.8	3500		2340	< 1	< 1		6.7	< 1	< 1		0202-01324-003
EMW-13	2/13/2002	7.02	25.8	3500		2340	< 1	< 1		6.3	< 1	< 1		0202-01324-002
EMW-13	9/13/2002	7.15	27.1	3120		2000	3.6	< 1		26.8	< 1	< 1		0209-07700-009
EMW-13	9/13/2002	7.15	27.1	3120		2000	3	< 1		27.8	< 1	< 1		0209-07700-008
EMW-13	3/21/2003	7.05	26.1	3130		2100	< 1	< 1	< 1	5.7	< 1	< 1		030302553002
EMW-13	9/19/2003	7.07	27.1	2940		1970	2.1	< 1	< 1	30.9	< 1	< 1		030908958002
EMW-13	9/19/2003	7.07	27.1	2940		1970	< 1	< 1	< 1	31.4	< 1	< 1		030908958005
EMW-13	3/1/2004	7.16	24.2	3050		2040	< 1	< 1	< 1	4.6	< 1	< 1		040302356002
EMW-13	9/24/2004	7.11	24.9	2800		1870	0.97	< 1	< 1	9.4	< 1	< 1		040911070014
EMW-13	9/24/2004	7.11	24.9	2800		1870	1	< 1	< 1	9.2	< 1	< 1		040911070013
EMW-13	3/21/2005	7.18	25.5	2890		1940	< 1	< 1	< 1	3.4	< 1	< 1		05031440-05D
EMW-13	3/21/2005	7.18	25.5	2890		1940	< 1	< 1	< 1	3.4	< 1	< 1		05031440-06D
EMW-13	9/27/2005	7.11	28.4	2380		1590	< 1	< 1	< 1	2.3	< 1	< 1		05091650-08D
EMW-13	3/7/2006	6.93	24.6	2650		1770	< 1	< 1	< 1	5.5	< 1	< 1		06030983-02D
EMW-13	3/7/2006	6.93	24.6	2650		1770	< 1	< 1	< 1	5.8	< 1	< 1		06030983-03D
EMW-13	9/26/2006	7.07	26.8	2650		1770	< 1	< 1	< 1	2.74	< 1	< 1		06091031-09D
EMW-13	9/26/2006	7.07	26.8	2650		1770	< 1	< 1	< 1	2.51	< 1	< 1		06091031-08D
EMW-13	3/15/2007	6.98	28.7	2770		1820	< 1	< 1	< 1	1.24	< 1	< 1		07030679-08
EMW-13	9/24/2007	7.03	24.5	2700		1810	< 1	< 1	< 1	< 1	< 1	< 1		07091009-01D
EMW-13	8/3/2008	7.08	25.28	4531		2971							15	205110-007
EMW-13	8/3/2008						<0.5	<0.5	<0.5	0.6	<0.5	<0.5		205111-007
EMW-13	2/18/2009	6.93	24.35	4546	12.5	3.05	0.1	<0.5	<0.5	1	<0.5	<0.5		210202-007
EMW-13	8/25/2009	6.96	28.16	4750	2.68	3.18	<0.5	<0.5	<0.5	<0.5	<0.5	0.1		214514-005
EMW-13	2/4/2010	7.02	24.04	5474	1.29	3.67	0.6	<0.5	0.1	4	<0.5	<0.5		218209-020
EMW-13	8/27/2010	7.61	27.45	4196	12	2.81	<0.5	<0.5	<0.5	0.5	<0.5	<0.5		222121-004
EMW-13	2/11/2011	6.7	26.45	4426	35.6		0.4	<0.5	<0.5	4	<0.5	<0.5	43	PGA SOUTH
EMW-13	5/5/2011	7.03	29.2	4162	3.98		<0.5	<0.5	<0.5	0.5	<0.5	<0.5		PGA SOUTH
EMW-13	8/2/2011						<0.5	<0.5	<0.5	0.4	<0.5	<0.5	7.5	PGA SOUTH
EMW-13	8/4/2011	6.83	33.53	3342	3.59		<0.5	<0.5	<0.5	0.4	<0.5	<0.5	15	PGA SOUTH
EMW-13	2/9/2012	7	25.1	4401	12.5		<0.5	<0.5	<0.5	0.4	<0.5	<0.5	23	189044
EMW-13	8/7/2012	6.3	33.65	3610	44.1		<0.5	<0.5	<0.5	0.3	<0.5	<0.5		189044
EMW-13	2/7/2013				13.6		0.6	<0.5	<0.5	5.7	<0.5	<0.5		189044
EMW-13	8/9/2013				2.12		<0.5	<0.5	<0.5	1.0	<0.5	<0.5		247902-011
EMW-14	12/10/1986												14	ACOE-MRDI
EMW-14	3/24/1987												24	ATL

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
EMW-14	6/26/1987												55	ATL
EMW-14	9/30/1987												17	ATL
EMW-14	1/14/1988												26	ROD
EMW-14	1/14/1988												22	ATL
EMW-14	3/1/1990						0.8	<0.2		560	0.4	1.2		3518
EMW-14	3/21/1990	6.93	25.6	5580		3700	< 2	< 2		590	< 2	< 2		3755
EMW-14	4/17/1990	7.04	26.3	4830		3220	< 10	< 10		600	< 10	< 10		4665
EMW-14	5/23/1990			5410		3540	< 2	< 2		473	< 2	< 2		5760
EMW-14	7/18/1990			5530		3690								7728
EMW-14	3/17/1991	6.98	25	5270		3490	< 4	< 4		290	< 4	< 4		103798
EMW-14	6/21/1991	7.28	26.2	4810		3210	< 2	< 2		350	< 2	< 2		106863
EMW-14	9/24/1991	7.43	27.4	4740		3170	< 4	< 4		210	< 4	< 4		109886
EMW-14	3/23/2005	6.87	23.5	3100		2070	4.7	< 1	22	130	< 1	2		05031440-16D
EMW-14	5/16/2006	6.87	29	2580		1720							407	06051217-02B
EMW-14	8/24/2006												110	06081020-05B
EMW-14	5/9/2007	7	26	3020		2010								07050341-01
EMW-14	5/29/2007	6.85	25.8	2950		1980							122	07051026-06
EMW-14	9/20/2007	6.8	26.6	3350		2250							7300	07090741-01A
EMW-14	6/18/2008	6.22	26.33	4679		3040							78	204083-009
EMW-14	2/21/2009						5.5	<0.5	1	99	<0.5	1.4	35	210261-004
EMW-14	2/21/2009	6.76	23.5	3902	206	2.61	5.1	<0.5	1.1	93	<0.5	1.5	33	210261-005
EMW-14	8/30/2010	6.92	28.98	3602	4	2.41	7	<0.5	1.3	98	<0.5	2.6	21	222178-015
EMW-14	5/7/2011	6.82	30.9	3472	1.57		8.1	<0.5	1.1	90	<0.5	2.4	27	PGA SOUTH
EMW-14R	5/8/2012	6.9	29.2	3076	1.39		8.6	<0.5	0.6	71	<0.5	3.3	32	189044
EMW-14R	8/9/2012	6.26	35.71	2824	51.4		5	<0.5	0.7	73	<0.5	2.4		189044
EMW-14R	2/7/2013				7.37		3.8	<0.5	0.5	62	<0.5	1.5	44	189044
EMW-14R	8/8/2013				10.8		5.3	<0.5	0.9	90	<0.5	3.2	28	247818-005
EMW-15	12/10/1986												22	ACOE-MRDI
EMW-15	1/30/1990		25			1400	<0.2	<0.2		7.5	<0.2	0.4		1745
EMW-15	3/2/1990	7.49	25.4	3000		2010	<0.2	<0.2		0.3	<0.2	<0.2		3518
EMW-15	3/21/1990	7.44	25.6	3050		2070	0.6	<0.2		0.7	<0.2	<0.2		3755
EMW-15	4/18/1990	7.54	24.1	2610		1740	<0.2	<0.2		0.3	<0.2	<0.2		4665
EMW-15	5/23/1990			2640		1750	<0.2	<0.2		<0.2	<0.2	<0.2		5760
EMW-15	6/19/1990		24	2930		1950	<0.2	<0.2		<0.2	<0.2	<0.2		6772
EMW-15	7/17/1990	7.53	26.6	2910		1950		<0.2		<0.2		<0.2		7728
EMW-15	8/16/1990	7.6	27.1	2830		1890	<0.2	<0.2		<0.2	<0.2	<0.2		8644
EMW-15	9/22/1990	7.56	26.7	3030		2020	<0.2	<0.2		<0.2	<0.2	<0.2		9768
EMW-15	10/17/1990	7.5	25.9	3220		2150	<0.2	<0.2		<0.2	<0.2	<0.2		10721
EMW-15	11/24/1990	7.6	24	3300		2200	<0.2	<0.2		<0.2	<0.2	<0.2		11779
EMW-15	1/18/1991	7.61	24.2	3310		2210	<0.2	<0.2		<0.2	<0.2	<0.2		101748
EMW-15	3/16/1991	7.57	24.7	3280		2190	<0.2	<0.2		<0.2	<0.2	<0.2		103798
EMW-15	6/20/1991	7.66	25.9	3260		2180	<0.2	<0.2		0.7	<0.2	0.2		106834
EMW-15	9/23/1991	7.66	25.7	3240		2140	<0.2	<0.2		<0.2	<0.2	<0.2		109886
EMW-15	1/19/1992	7.59	23.1	2770		1850	<0.2	<0.2		<0.2	<0.2	<0.2		201734
EMW-15	3/26/1992	7.73	24.6	2650		1770	<0.2	<0.2		1.6	<0.2	<0.2		203951
EMW-15	6/29/1992	7.5	26.3	2650		1780	<0.2	<0.2		2.1	<0.2	<0.2		206065
EMW-15	10/7/1992	7.71	25.9	2560		1690	<0.2	<0.2		1.8	<0.2	<0.2		210612
EMW-15	12/15/1992	7.51	23.1	2990		1990	<0.2	<0.2		4.5	<0.2	<0.2		212807
EMW-15	3/23/1993	7.43	26	3500		2330	<0.02	<0.2		54	1.3	<0.2		30397405
EMW-15	5/3/1993	7.5	24.4				< 1	< 1		100	< 1	< 1		30551704
EMW-15	5/4/1993	7.5	24.4				< 1	< 1		83	< 1	< 1		30551705
EMW-15	6/18/1993	7.31	26.8	4050		1450	<0.2	<0.2		110	1.2	<0.2		30689302
EMW-15	8/6/1993	7.37	26.4	4060		2710	<0.4	<0.4		140	1	<0.4		30860301
EMW-15	10/9/1993	7.49	25	3700			< 1	< 1		110	1	< 1		31070911
EMW-15	10/10/1993	7.49	25	3700			< 1	< 1		110	1	< 1		31070912
EMW-15	12/22/1993	7.35	23.4	4310		2880	<0.2	<0.2		93	0.8	<0.2		31214509
EMW-15	4/11/1994	7.49	25.1	3320		2220	<0.2	<0.2		51	0.3	<0.2		40475002
EMW-15	4/12/1994	7.49	25.1	3320		2220	<0.2	<0.2		52	0.3	<0.2		40475003
EMW-15	5/17/1994	7.5	26	2990		1990	<0.2	0.3		46	0.8	<0.2		40587511
EMW-15	6/9/1994	7.29	27.5	2890		1920	<0.2	<0.2		38	<0.2	<0.2		40667317
EMW-15	7/29/1994	7.23	27.5	2460		1620	<0.2	<0.2		21	<0.2	0.2		40706205
EMW-15	9/15/1994	7.08	24.9	2020										40964703
EMW-15	9/15/1994						<0.2	< 1		16	<0.2	<0.5		40938604
EMW-15	10/10/1994						<0.2	<0.2		12	<0.2	<0.2		9410012832
EMW-15	11/17/1994	7.6	24.3	2740		1840	<0.2	<0.2		7.6	<0.2	<0.2		9411020411
EMW-15	1/10/1995	7.5	24	3050		2090	<0.2	<0.2		6.7	<0.2	<0.2		9501029112
EMW-15	1/12/1995	7.3	24.2	3060		2300	<0.2	<0.2		6.6	<0.2	<0.2		9412029602
EMW-15	2/6/1995						<0.2	<0.2		6.1	<0.2	<0.2		9502034713
EMW-15	3/29/1995	7.42	25	3200		2140	< 1	< 1		4.2	< 1	< 1		9503-4500-8
EMW-15	3/29/1995						< 1	< 1		4.1	< 1	< 1		9503-4500-7
EMW-15	6/16/1995	7.65	24.8	3570		2390	< 1	< 1		3.4	< 1	< 1		9506-05955-3

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
EMW-15	9/19/1995	7.49	26.2	3950		2640	< 1	< 1		1.7	< 1	< 1		9509-07574-9
EMW-15	12/18/1995	7.35	24.1	4300		2900	< 1	< 1		< 1	< 1	< 1		9512-09134-2
EMW-15	3/26/1996	7.42	24.2	4260		2870	< 1	< 1		1.3	< 1	< 1		9603-01505-6
EMW-15	6/19/1996	7.37	25.6	4190		2790	< 1	< 1		< 1	< 1	< 1		9606-03103-3
EMW-15	9/20/1996	7.44	26.5	4120		2740	< 1	< 1		< 1	< 1	< 1		9609-04837-2
EMW-15	12/17/1996	7.51	23.5	4460		2970	< 1	< 1		< 1	< 1	< 1		9612-06566-6
EMW-15	2/18/1997	7.49	24.7	4460			< 1	< 1		< 1	< 1	< 1		9702-01144-4
EMW-15	2/18/1997	7.49	24.7	4460			< 1	< 1		< 1	< 1	< 1		9702-01144-3
EMW-15	6/10/1997	7.38	25.8	3040		2030	< 1	< 1		< 1	< 1	< 1		9706-03639-18
EMW-15	9/11/1997	7.5	26.7	3220		2150	< 1	< 1		< 1	< 1	< 1		9709-05871-2
EMW-15	11/20/1997	7.54	24.7	3210		2150	< 1	< 1		< 1	< 1	< 1		9711-07532-6
EMW-15	1/28/1998	7.33	24.7	3170		2120	< 1	< 1		< 1	< 1	< 1		9801-00660-2
EMW-15	8/28/1998	7.49	29.2	2960		1980	< 1	< 1		< 1	< 1	< 1		9808-06040-6
EMW-15	8/28/1998	7.49	29.2	2960		1980	< 1	< 1		< 1	< 1	< 1		9808-06040-5
EMW-15	1/13/1999	7.33	25	2920		1950	< 1	< 1		< 1	< 1	< 1		9901-00426-01
EMW-15	7/28/1999	7.35	28.8	2680		1790	< 1	< 1		< 1	< 1	< 1		9907-06840-003
EMW-15	7/28/1999	7.35	28.8	2680		1790	< 1	< 1		< 1	< 1	< 1		9907-06840-002
EMW-15	1/19/2000	7.36	25.5	2610		1760	< 1	< 1		< 1	< 1	< 1		0001-00632-004
EMW-15	1/19/2000	7.36	25.5	2610		1760	< 1	< 1		< 1	< 1	< 1		0001-00632-003
EMW-15	7/20/2000	7.52	26.4	2530		1700	< 1	< 1		< 1	< 1	< 1		0007-06410-005
EMW-15	1/29/2001	7.36	24.7	2620		1730	< 1	< 1		< 1	< 1	< 1		0101-00748-005
EMW-15	8/31/2001	7.46	27.5	2480		1660	< 1	< 1		< 1	< 1	< 1		0109-06442-001
EMW-15	1/24/2002	7.38	25	2500		1680	< 1	< 1		< 1	< 1	< 1		0201-00709-005
EMW-15	9/5/2002	7.35	26.1	2430		1630	< 1	< 1		< 1	< 1	< 1		0209-07468-001
EMW-15	3/17/2003	7.4	25	2360		1580	< 1	< 1	< 1	< 1	< 1	< 1		030302447001
EMW-15	2/18/2004	7.53	25.2	2300		1530	< 1	< 1	< 1	< 1	< 1	< 1		040201839017
EMW-15	2/4/2005	7.45	21.2	2460		1640	< 1	< 1	< 1	< 1	< 1	< 1		05020650-03D
EMW-15	3/1/2006	7.03	24.4	2210		1480	< 1	< 1	< 1	< 1	< 1	< 1		06030607-02D
EMW-15	3/20/2007	7.38	26.6	2270		1520	< 1	< 1	< 1	< 1	< 1	< 1		07030679-11
EMW-15	1/9/2008	7.54	25.43	3415		2290	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		200451-003
EMW-15	2/18/2009	4.27	23.32	2830	86.3	1.9	<0.5	<0.5	<0.5	<0.5	<0.5	0.3		210202-011
EMW-15	2/4/2010	7.49	25.18	3857	7.49	2.58	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		218171-010
EMW-15	2/9/2011	7.38	27.55	3080	3.83		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		PGA SOUTH
EMW-15	2/3/2012	7.71	23.24	2717	6.21		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		189044
EMW-15	2/8/2013				1.77		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		189044
EMW-15	8/9/2013				5.99		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		247902-016
EMW-16	12/10/1986												7	ACOE-MRDI
EMW-16	6/28/1987												12	ATL
EMW-16	1/30/1990	7.51	24.3			1900	<0.2	<0.2		<0.2	<0.2	<0.2		1745
EMW-16	3/1/1990	7.51	25.2	2400		1600	<0.2	<0.2		<0.2	<0.2	<0.2		3518
EMW-16	3/21/1990	7.48	25.5	2430		1620	<0.2	<0.2		<0.2	<0.2	<0.2		3755
EMW-16	4/18/1990	7.63	24.6	2150		1430	<0.2	<0.2		<0.2	<0.2	<0.2		4665
EMW-16	5/23/1990			2190		1480	<0.2	<0.2		<0.2	<0.2	<0.2		5760
EMW-16	6/19/1990		24.5	2320		1520	<0.2	<0.2		<0.2	<0.2	<0.2		6772
EMW-16	7/17/1990	7.6	27.1	2260		1510	<0.2	<0.2		<0.2	<0.2	<0.2		7728
EMW-16	8/16/1990			2240		1500	<0.2	<0.2		<0.2	<0.2	<0.2		8644
EMW-16	9/22/1990	7.63	25.9	2240		1500	<0.2	<0.2		<0.2	<0.2	<0.2		9768
EMW-16	10/17/1990	7.61	25.5	2310		1550	<0.2	<0.2		0.3	<0.2	<0.2		10721
EMW-16	11/24/1990	7.66	24.1	2330		1550	<0.2	<0.2		<0.2	<0.2	<0.2		11779
EMW-16	3/16/1991	7.63	25.2	2300		1530	<0.2	<0.2		<0.2	<0.2	<0.2		103798
EMW-16	5/22/1991	7.64	26.2	2380		1590	<0.2	<0.2		<0.2	<0.2	<0.2		105819
EMW-16	6/21/1991	7.7	25.6	2440		1630	<0.2	<0.2		<0.2	<0.2	<0.2		106863
EMW-16	9/23/1991	7.68	26.2	2350		1570	<0.2	<0.2		<0.2	<0.2	<0.2		109886
EMW-16	1/18/1992	7.75	23.7	2040		1360	<0.2	<0.2		<0.2	<0.2	<0.2		201734
EMW-16	12/17/1992	7.52	22.2	2830		1880	<0.2	<0.2		0.7	<0.2	<0.2		212907
EMW-16	12/18/1992	7.52	22.2	2830		1880	<0.2	<0.2		0.7	<0.2	<0.2		21290701
EMW-16	3/10/1993	7.5	24.3	2960		1970	<0.2	<0.2		6	<0.2	0.5		30372404
EMW-16	3/11/1993	7.5	24.3	2960		1970	<0.2	<0.2		6.2	<0.2	0.5		30372405
EMW-16	5/3/1993	7.6	24.6				<0.2	<0.2		18	<0.2	<0.2		30551701
EMW-16	5/4/1993	7.6	24.6				<0.2	<0.2		19	<0.2	<0.2		30551702
EMW-16	6/18/1993	7.3	26	3550		1350	<0.2	<0.2		41	<0.2	<0.2		30689309
EMW-16	6/19/1993	7.3	26	3550		1350	<0.2	<0.2		44	<0.2	<0.2		30689307
EMW-16	7/28/1993	7.29	26.5	3310		2230	<0.2	<0.2		58	<0.2	<0.2		30797101
EMW-16	10/9/1993	7.49	25.5	3120			< 1	< 1		45	< 1	< 1		31070909
EMW-16	12/22/1993	7.35	23.4	3170		2120	< 1	< 1		67	< 1	< 1		31214506
EMW-16	12/23/1993	7.35	23.4	3170		2120	< 1	< 1		67	< 1	< 1		31214507
EMW-16	1/12/1994										<0.2			9412029601
EMW-16	4/11/1994	7.46	24.4	2960		1990	<0.2	<0.2		54	<0.2	<0.2		40475001
EMW-16	5/17/1994	7.46	26.2	2700		1820	0.3	<0.2		45	<0.2	<0.2		40587510
EMW-16	6/6/1994	7.38	26.3	2500		1660	<0.2	<0.2		39	<0.2	<0.2		40667303
EMW-16	7/29/1994	7.24	28.3	1970			<0.2	<0.2		14	<0.2	<0.2		40706204

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
EMW-16	8/26/1994	7.33	25.6	1990		1330	<0.2	<0.2		8	<0.2	<0.2		40804804
EMW-16	9/15/1994	7.01	24.8	1560			<0.2	< 1		5.9	<0.2	<0.5		40938603
EMW-16	10/13/1994						<0.2	<0.2		3.1	<0.2	<0.2		9410012831
EMW-16	11/17/1994						<0.2	<0.2		2	<0.2	<0.2		9411020412
EMW-16	1/10/1995	7.4	23.7	2670		1820	<0.2	<0.2		<0.2	<0.2	<0.2		9501029111
EMW-16	1/12/1995	7.3	23.7	2730		1990	<0.2	<0.2		1.3	<0.2	<0.2		9412029601
EMW-16	3/24/1995	7.49	24.3	3020		2140	< 1	< 1		< 1	< 1	< 1		9503-4396-6
EMW-16	6/12/1995	7.62	25.4	3040		2020	< 1	< 1		< 1	< 1	< 1		9506-05930-12
EMW-16	6/12/1995	7.62	25.4	3040		2020	< 1	< 1		< 1	< 1	< 1		9506-05930-11
EMW-16	9/18/1995	7.68	25.5	2700		1800	< 1	< 1		< 1	< 1	< 1		9509-07574-3
EMW-16	9/18/1995	7.68	25.5	2700		1800	< 1	< 1		< 1	< 1	< 1		9509-07574-2
EMW-16	12/15/1995	7.44	24.1	3090		2090	< 1	< 1		< 1	< 1	< 1		9512-09057-5
EMW-16	3/26/1996	7.54	23.9	2390		1610	< 1	< 1		< 1	< 1	< 1		9603-01505-5
EMW-16	6/19/1996	7.44	25.4	1860		1250	< 1	< 1		< 1	< 1	< 1		9606-03103-2
EMW-16	9/20/1996	7.63	25.4	1850		1230	< 1	< 1		< 1	< 1	< 1		9609-04837-1
EMW-16	12/17/1996	7.62	22.4	2186		1470	< 1	< 1		< 1	< 1	< 1		9612-06566-5
EMW-16	2/18/1997	7.63	23.9	2180			< 1	< 1		< 1	< 1	< 1		9702-01144-2
EMW-16	2/18/1997	7.63	23.9	2180			< 1	< 1		< 1	< 1	< 1		9702-01144-1
EMW-16	6/10/1997	7.68	24.5	1250		840	< 1	< 1		< 1	< 1	< 1		9706-03639-17
EMW-16	9/11/1997	7.66	25.8	1370		920	< 1	< 1		< 1	< 1	< 1		9709-05871-1
EMW-16	11/20/1997	7.56	23	1670		1120	< 1	< 1		< 1	< 1	< 1		9711-07532-9
EMW-16	11/20/1997	7.56	23	1670		1120	< 1	< 1		< 1	< 1	< 1		9711-07532-7
EMW-16	1/28/1998	7.34	22.9	1820		1220	< 1	< 1		< 1	< 1	< 1		9801-00660-4
EMW-16	8/28/1998	7.56	25.7	1780		1190	< 1	< 1		< 1	< 1	< 1		9808-06040-4
EMW-16	1/14/1999	7.41	22.7	2130		1430	< 1	< 1		< 1	< 1	< 1	< 5	9901-00503-03
EMW-16	7/28/1999	7.47	25.7	2070		1380	< 1	< 1		< 1	< 1	< 1		9907-06840-006
EMW-16	7/28/1999	7.47	25.7	2070		1380	< 1	< 1		< 1	< 1	< 1		9907-06840-001
EMW-16	1/19/2000	7.48	23.7	2340		1560	< 1	< 1		< 1	< 1	< 1		0001-00632-005
EMW-16	1/19/2000	7.48	23.7	2340		1560	< 1	< 1		< 1	< 1	< 1		0001-00632-002
EMW-16	7/20/2000	7.68	25.4	2130		1420	< 1	< 1		< 1	< 1	< 1		0007-06410-004
EMW-16	1/29/2001	7.36	23.8	2310		1550	< 1	< 1		< 1	< 1	< 1		0101-00748-008
EMW-16	1/29/2001	7.36	23.8	2310		1550	< 1	< 1		< 1	< 1	< 1		0101-00748-007
EMW-16	8/31/2001	7.51	25.9	2220		1480	< 1	< 1		< 1	< 1	< 1		0109-06442-002
EMW-16	1/24/2002	7.38	24.2	2550		1710	< 1	< 1		< 1	< 1	< 1		0201-00709-006
EMW-16	9/5/2002	7.44	24.8	2320		1550	< 1	< 1		< 1	< 1	< 1		0209-07468-007
EMW-16	9/5/2002	7.44	24.8	2320		1550	< 1	< 1		< 1	< 1	< 1		0209-07468-002
EMW-16	3/17/2003	7.26	24.1	2670		1790	< 1	< 1	< 1	< 1	< 1	< 1		030302447002
EMW-16	2/18/2004	7.59	23.5	2390		1600	< 1	< 1	< 1	< 1	< 1	< 1		040201839016
EMW-16	2/4/2005	7.49	21.5	2440		1630	< 1	< 1	< 1	< 1	< 1	< 1		05020650-04D
EMW-16	3/1/2006	7.05	24.4	2040		1370	< 1	< 1	< 1	< 1	< 1	< 1		06030607-05D
EMW-16	3/1/2006	7.05	24.4	2040		1370	< 1	< 1	< 1	< 1	< 1	< 1		06030607-06D
EMW-16	3/20/2007	7.27	26.7	2150		1450	< 1	< 1	< 1	< 1	< 1	< 1		07030679-10
EMW-16	11/21/2008	7.3	27.02	3670		2460	<0.5	<0.5	<0.5	<0.4	<0.5	<0.5		208077-003
EMW-16	2/17/2009	7.95	24.88	3762	13.6	2.52	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		210202-006
EMW-16	2/3/2010	7.52	25.71	6512	264	4.36	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		218171-011
EMW-16	2/10/2011	7.43	22.63	3075	48		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		PGA SOUTH
EMW-16	2/2/2012						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		189044
EMW-16	2/8/2013				4.94		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		189044
EMW-17	6/28/1986												20	ATL
EMW-17	12/10/1986												7	ACOE-MRDI
EMW-17	1/30/1990	7.3	24.3			4020	<0.2	<0.2		<0.2	<0.2	<0.2		1745
EMW-17	3/1/1990	7.3	25.8	6560		4370	<0.2	<0.2		<0.2	<0.2	<0.2		3518
EMW-17	3/21/1990	7.18	25.8	6150		4120	<0.2	<0.2		<0.2	<0.2	<0.2		3755
EMW-17	4/18/1990	7.28	25.3	5890		4920	<0.2	<0.2		<0.2	<0.2	<0.2		4665
EMW-17	5/23/1990			5920		3960	<0.2	<0.2		<0.2	<0.2	<0.2		5760
EMW-17	6/19/1990		25.7	6400		4280	<0.2	<0.2		<0.2	<0.2	<0.2		6772
EMW-17	7/17/1990	7.29	27	6170		4120	<0.2	<0.2		<0.2	<0.2	<0.2		7728
EMW-17	8/16/1990	7.33	26.4	6090		4070	<0.2	<0.2		<0.2	<0.2	<0.2		8644
EMW-17	9/22/1990					4260	<0.2	<0.2		<0.2	<0.2	<0.2		9768
EMW-17	10/17/1990	7.28	25.7	6230		4160	<0.2	<0.2		<0.2	<0.2	<0.2		10721
EMW-17	11/24/1990	7.39	24.9	6140		4100	<0.2	<0.2		<0.2	<0.2	<0.2		11779
EMW-17	3/16/1991	7.36	25.6	6250		4170	<0.2	<0.2		<0.2	<0.2	<0.2		103798
EMW-17	5/22/1991	7.41	26.1	6270		4200	<0.2	<0.2		<0.2	<0.2	<0.2		105819
EMW-17	6/21/1991	7.36	26.2	6510		4350	<0.2	<0.2		<0.2	<0.2	<0.2		106863
EMW-17	9/23/1991	7.5	27	6180		4110	<0.2	<0.2		<0.2	<0.2	<0.2		109886
EMW-17	1/18/1992	7.35	24.4	4980		3320	<0.2	<0.2		<0.2	<0.2	<0.2		201734
EMW-17	3/26/1992	7.47	24.8	3700		2478	<0.2	<0.2		<0.2	<0.2	<0.2		203951
EMW-17	6/29/1992	7.39	26.4	3620		2410	<0.2	<0.2		<0.2	<0.2	<0.2		206065
EMW-17	10/7/1992	7.46	26.4	3840		2600	<0.2	<0.2		<0.2	<0.2	<0.2		210612
EMW-17	12/15/1992	7.47	23.8	3390		2260	<0.2	<0.2		<0.2	<0.2	<0.2		212807
EMW-17	3/11/1993	7.4	23.4	3180		2140	<0.2	<0.2		<0.2	<0.2	<0.2		30372408

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
EMW-17	6/28/1993	7.05	26.1	4100		1500	<0.2	<0.2		<0.2	<0.2	<0.2		30750003
EMW-17	10/19/1993	7.27	25	4700			<0.2	<0.2		<0.2	<0.2	<0.2		31092904
EMW-17	12/31/1993	6.72	23.2	4290			<0.2	<0.2		<0.2	<0.2	<0.2		40152204
EMW-17	4/6/1994	7.3	25.7	5000		3400	<0.2	<0.2		<0.2	<0.2	<0.2		40467410
EMW-17	6/14/1994	7.06	25.3	6420		4280	<0.2	<0.5		<0.2	<0.2	<0.2		40684402
EMW-17	9/8/1994	6.89	25.3	4530			<0.2	<0.2		<0.2	<0.2	<0.2		40964703
EMW-17	12/7/1994	7.41	24.2	5710		4250	<0.2	<0.2		<0.2	<0.2	<0.2		9412023862
EMW-17	3/20/1995	7.33	25	5950		4030	< 1	< 1		< 1	< 1	< 1		9503-4288-2
EMW-17	12/28/1995	7.3	24.2	5350		3720	< 1	< 1		< 1	< 1	< 1		9512-09221-39
EMW-17	12/17/1996	7.39	23.9	5290		3530	< 1	< 1		< 1	< 1	< 1		9612-06566-2
EMW-17	11/24/1997	7.44	84.6	2730		1810	< 1	< 1		< 1	< 1	< 1		9711-07592-1
EMW-17	5/26/1998	7.57	26	2510		1680	< 1	< 1		< 1	< 1	< 1		9805-03593-1
EMW-17	1/13/1999	7.41	24.9	2890		1930	< 1	< 1		< 1	< 1	< 1		9901-00426-02
EMW-17	1/19/2000	7.37	25.3	2670		1790	< 1	< 1		< 1	< 1	< 1		0001-00632-009
EMW-17	1/29/2001	7.36	24.6	2700		1800	< 1	< 1		< 1	< 1	< 1		0101-00748-009
EMW-17	1/24/2002	7.35	24.6	2590		1740	< 1	< 1		< 1	< 1	< 1		0201-00709-007
EMW-17	3/28/2003	7.07	25.7	2540		1700	< 1	< 1	< 1	1.5	< 1	< 1		030302776010
EMW-17	3/9/2004	7.28	25.1	2270		1520	< 1	< 1	< 1	< 1	< 1	< 1		040302676005
EMW-17	3/23/2005	7.09	22.5	2380		1590	< 1	< 1	< 1	< 1	< 1	< 1		05031440-17D
EMW-17	3/29/2006	7.14	24.9	2300		1530	< 1	< 1	< 1	< 1	< 1	< 1		06031844-01D
EMW-17	3/29/2006	7.14	24.9	2300		1530	< 1	< 1	< 1	< 1	< 1	< 1		06031844-02D
EMW-17	3/13/2007	7.2	26.9	2340		1560	< 1	< 1	< 1	< 1	< 1	< 1		07030441-14
EMW-17	11/18/2008	7.09	28.36	3484		2330	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		208075-008
EMW-17	2/18/2009	6.82	18.18	2863	407	1.92								210202-012
EMW-17	2/19/2009						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		210202-012
EMW-17	2/4/2010	7.17	25.21	3728	805	2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		218171-012
EMW-18B	7/10/1987												12	CH2M-RD
EMW-18B	1/12/1988												20	CH2M-RD
EMW-18B	12/31/1990	7.21	24.9	2880		1930	<0.2	<0.2		1.4	<0.2	<0.2		101531
EMW-18B	7/10/1991	7.09	27.4	2970		1950	<0.2	<0.2		<0.2	<0.2	<0.2		10769011
EMW-18B	7/11/1991	7.09	27.4	2970		1950	<0.2	<0.2		0.4	<0.2	<0.2		107690
EMW-18B	7/12/1991	7.09	27.4	2970		1950	<0.2	<0.2		0.2	<0.2	<0.2		10769012
EMW-18B	12/21/1992	7.18	24.5	2700		1810	<0.2	<0.2		0.9	<0.2	<0.2		212930
EMW-18B	6/29/1993	7.11	26.3	2400		1300	<0.2	<0.2		<0.2	<0.2	<0.2		30750008
EMW-18B	2/28/1994	7.14	25.8	2560		1720	<0.2	<0.2		<0.2	<0.2	<0.2		40351706
EMW-18B	7/6/1994	7.01	26.6	2330		1570	<0.2	<0.2		<0.2	<0.2	<0.2		40760506
EMW-18B	1/19/1995	7.36	26	2500		1730	<0.2	<0.2		<0.2	<0.2	<0.2		9501031111
EMW-18UC	4/30/1987												10	CH2M-RD
EMW-18UC	10/5/1987												20	CH2M-RD
EMW-18UC	1/27/1992	7.31	24.5	2530		1690	<0.2	<0.2		<0.2	<0.2	<0.2		201834
EMW-18UC	7/7/1992	7.43	28	2740		1830	<0.2	<0.2		1.6	<0.2	<0.2		207608
EMW-18UC	12/21/1992	7.2	25.1	2700		1810	<0.2	<0.2		<0.2	<0.2	<0.2		212930
EMW-18UC	12/22/1992	7.2	25.1	2700		1810	<0.2	<0.2		<0.2	<0.2	<0.2		21293001
EMW-18UC	6/29/1993	7.06	26.3	2400		1300	<0.2	<0.2		0.2	<0.2	<0.2		30750009
EMW-18UC	2/28/1994	7.22	27.1	2480		1650	<0.2	<0.2		<0.2	<0.2	<0.2		40351705
EMW-18UC	7/7/1994	7.12	26.2	2340		1560	<0.2	<0.2		1.9	<0.2	<0.2		40760509
EMW-18UC	1/25/1995	7.24	25.4	2480		1690	<0.2	<0.2		<0.2	<0.2	<0.2		9501032409
EMW-19B	6/3/1987												12	CH2M-RD
EMW-19B	10/5/1987												20	CH2M-RD
EMW-19B	12/31/1990	7.69	23.6	2420		1630	<0.2	<0.2		<0.2	<0.2	<0.2		101531
EMW-19B	7/12/1991	7.63	26	2480		1660	<0.2	<0.2		<0.2	<0.2	<0.2		107690
EMW-19B	1/28/1992	7.44	27.2	2040		1370	<0.2	<0.2		0.3	<0.2	<0.2		201851
EMW-19B	1/29/1992	7.44	27.2	2040		1370	<0.2	<0.2		0.4	<0.2	<0.2		20185101
EMW-19B	7/2/1992	7.51	25.3	2370		1580	<0.2	<0.2		2.6	<0.2	<0.2		207545
EMW-19B	12/22/1992	7.23	24.3	1880		1270	<0.2	<0.2		<0.2	<0.2	<0.2		212987
EMW-19B	6/24/1993	7.26	27.8	1850		1300	<0.2	<0.2		0.2	<0.2	0.2		30602701
EMW-19B	2/19/1994	7.4	24.5	1810		1220	<0.2	<0.2		<0.2	<0.2	<0.2		40299413
EMW-19B	7/6/1994	7.24	27.3	1840		1240	<0.2	<0.2		1.5	<0.2	<0.2		40760505
EMW-19B	1/27/1995	7.34	25.9	1970		1550	<0.2	<0.2		<0.2	<0.2	<0.2		9501032407
EMW-19LC	12/31/1990	7.48	23.8	2780		1460	<0.2	<0.2		<0.2	<0.2	<0.2		101531
EMW-19LC	7/12/1991	7.01	27.7	2010		1340	<0.2	<0.2		<0.2	<0.2	<0.2		107690
EMW-19LC	1/28/1992	7.88	27.3	1910		1280	<0.2	<0.2		<0.2	<0.2	<0.2		201851
EMW-19LC	1/29/1992	7.88	27.3	1910		1280	<0.2	<0.2		<0.2	<0.2	<0.2		20185101
EMW-19LC	7/2/1992	7.75	27.5	2110		1410	<0.2	<0.2		<0.2	<0.2	<0.2		207545
EMW-19LC	12/21/1992	7.89	24.9	2170		1450	<0.2	<0.2		<0.2	<0.2	<0.2		212930
EMW-19LC	6/24/1993	7.55	28.9	2300		1300	<0.2	<0.2		<0.2	<0.2	<0.2		30602702
EMW-19LC	2/19/1994	7.4	25.9	2260		1520	<0.2	<0.2		<0.2	<0.2	<0.2		40299403
EMW-19LC	7/6/1994	7.33	28.7	2200		1480	<0.2	<0.2		<0.2	<0.2	<0.2		40760503
EMW-19LC	1/19/1995	7.9	27.5	2380		1620	<0.2	<0.2		<0.2	<0.2	<0.2		9501031112
EMW-19UC	4/28/1987												25	CH2M-RD
EMW-19UC	12/31/1990	7.2	21.6	2520		1730	<0.2	<0.2		<0.2	<0.2	<0.2		101531

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
EMW-19UC	7/12/1991	7.58	27	2510		1680	0.2	<0.2		<0.2	<0.2	<0.2		107690
EMW-19UC	1/28/1992	7.45	26.2	2170		1460	<0.2	<0.2		<0.2	<0.2	<0.2		201851
EMW-19UC	7/2/1992	7.56	26.7	2340		1560	<0.2	<0.2		<0.2	<0.2	<0.2		207545
EMW-19UC	7/3/1992	7.56	26.7	2340		1560	<0.2	<0.2		<0.2	<0.2	<0.2		20754501
EMW-19UC	12/21/1992	7.18	24.2	2250		1510	<0.2	<0.2		<0.2	<0.2	<0.2		212930
EMW-19UC	6/28/1993	7.06	27.1	2100		1300	<0.2	<0.2		<0.2	<0.2	<0.2		30750001
EMW-19UC	2/19/1994	7.1	24.4	2040		1370	<0.2	<0.2		<0.2	<0.2	<0.2		40299404
EMW-19UC	7/6/1994	7.07	27.4	1940		1300	<0.2	<0.2		<0.2	<0.2	<0.2		40760504
EMW-19UC	1/19/1995	7.36	25.9	2140		1440	<0.2	<0.2		<0.2	<0.2	<0.2		9501031113
EMW-20B1	7/13/1991	8.65	25.5	1820		1210	<0.2	<0.2		<0.2	<0.2	<0.2		107711
EMW-20B1	1/28/1992	8	19.8	1570		1050	<0.2	<0.2		<0.2	<0.2	<0.2		201851
EMW-20B1	12/22/1992	7.3	22.6	1640		1100	<0.2	<0.2		<0.2	<0.2	<0.2		212987
EMW-20B1	7/1/1993	7.5	27.1	1560		1050	<0.2	<0.2		<0.2	<0.2	<0.2		30754202
EMW-20B1	3/11/1994	7.22	25.7	2770		1850	<0.2	<0.2		<0.2	<0.2	<0.2		40378318
EMW-20B1	7/14/1994	7.18	26.8	2460		1660	<0.2	<0.5		<0.2	<0.2	<0.2		40776016
EMW-20B1	1/27/1995	7.38	25.1	2910		2130	<0.2	<0.2		<0.2	<0.2	<0.2		9501032409
EMW-20B2	7/20/1987												20	CH2M-RD
EMW-20B2	1/2/1991	7.48	24.7	3740		2500	<0.2	<0.2		<0.2	<0.2	<0.2		101531
EMW-20B2	7/13/1991	7.45	25.6	3910		2510	<0.2	<0.2		<0.2	<0.2	<0.2		107711
EMW-20B2	1/27/1992	7.49	25	3510		2340	<0.2	<0.2		<0.2	<0.2	<0.2		201834
EMW-20B2	7/1/1992	7.49	25.7	3760		2510	<0.2	<0.2		<0.2	<0.2	<0.2		207545
EMW-20B2	12/22/1992	7.28	25	3810		2550	<0.2	<0.2		<0.2	<0.2	<0.2		212987
EMW-20B2	6/29/1993	7.1	26.9	3200		1400	<0.2	<0.2		<0.2	<0.2	<0.2		30750012
EMW-20B2	2/18/1994	7.18	24.8	3570		2380	<0.2	<0.2		<0.2	<0.2	<0.2		40295807
EMW-20B2	2/21/1994	7.18	24.8	3570		2380								40299408
EMW-20B2	6/30/1994	7.14	27.3	3210		2140	<0.2	<0.2		<0.2	<0.5	<0.2		40752203
EMW-20B2	1/20/1995	7.32	24.7	3580		2600	<0.2	<0.2		<0.2	<0.2	<0.2		9501031117
EMW-20LC	5/14/1987												30	CH2M-RD
EMW-20LC	10/6/1987												20	CH2M-RD
EMW-20LC	1/2/1991		24.9	1440		970	<0.2	<0.2		<0.2	<0.2	<0.2		101531
EMW-20LC	7/12/1991	7.88	26.9	1510		1010	<0.2	<0.2		<0.2	<0.2	<0.2		107690
EMW-20LC	7/13/1991	7.88	26.9	1510		1010	<0.2	<0.2		<0.2	<0.2	<0.2		10769001
EMW-20LC	1/27/1992	7.8	27.3	1390		930	<0.2	<0.2		<0.2	<0.2	<0.2		201834
EMW-20LC	7/1/1992	7.76	26.9	1660		1110	<0.2	<0.2		<0.2	<0.2	<0.2		207545
EMW-20LC	12/20/1992	7.8	24.5	1586		1050	<0.2	<0.2		<0.2	<0.2	<0.2		212916
EMW-20LC	6/29/1993	7.44	28.2	1600		1250	<0.2	<0.2		9.2	<0.2	<0.2		30750011
EMW-20LC	7/28/1993	7.46	27.9	1530		1020	<0.2	<0.2		17	<0.2	<0.2		30797201
EMW-20LC	9/30/1993	7.55	28.7	1510		1010	<0.2	<0.2		23	<0.2	<0.2		30910102
EMW-20LC	10/25/1993	7.8	26.4	1510			<0.2	<0.2		25	<0.2	<0.2		31002205
EMW-20LC	2/18/1994	7.46	25.4	1580		1050	<0.2	<0.2		49	<0.2	<0.2		40295804
EMW-20LC	6/30/1994	7.76												101531
EMW-20LC	7/1/1994	7.44	28	1620		1070	0.5	<0.5		58	<0.4	<0.4		40752208
EMW-20LC	1/17/1995	8	26.2	1710		1250	<0.2	<0.2		56	<0.2	<0.2		9501030624
EMW-20LC	6/28/1995	7.8	27.8	1820		1210	< 1	< 1		22.9	< 1	< 1		9507-06188-3
EMW-20LC	9/21/1995	7.65	28.1	1230		1840	< 1	< 1		13.3	< 1	< 1		9509-07628-2
EMW-20LC	9/21/1995	7.65	28.1	1230		1840	< 1	< 1		14.2	< 1	< 1		9509-07628-3
EMW-20LC	12/19/1995	7.35	25.2	1830		1250	< 1	< 1		9.1	< 1	< 1		9512-09134-11
EMW-20LC	3/28/1996	7.78	26.7	1750		1170	< 1	< 1		6.9	< 1	< 1		9603-01561-6
EMW-20LC	6/24/1996	7.74	27.5	1710		1140	< 1	< 1		9.3	< 1	< 1		9606-03147-6
EMW-20LC	6/24/1996	7.74	27.5	1710		1140	< 1	< 1		9.4	< 1	< 1		9606-03147-5
EMW-20LC	9/26/1996	7.75	27.7	1720		1150	< 1	< 1		2.8	< 1	< 1		9609-04963-17
EMW-20LC	9/26/1996	7.75	27.7	1720		1150	< 1	< 1		2.7	< 1	< 1		9609-04963-16
EMW-20LC	12/19/1996	7.76	26.6	1760		1240	< 1	< 1		2.6	< 1	< 1		9612-06624-3
EMW-20LC	2/20/1997	7.71	27.6	1750			< 1	< 1		1.9	< 1	< 1		9702-01175-3
EMW-20LC	6/11/1997	7.63	28.4	1190		800	< 1	< 1		1.4	< 1	< 1		9706-03639-21
EMW-20LC	9/17/1997	7.59	27.1	1130		750	<0.5	<0.5		1.41	<0.5	<0.5		9709-06025-4
EMW-20LC	12/4/1997	7.61	26	1130		750	< 1	< 1		1.9	< 1	< 1		9712-07851-2
EMW-20LC	2/5/1998	7.62	26.7	1120		750	< 1	< 1		2.3	< 1	< 1		9802-00879-9
EMW-20LC	9/8/1998	7.6	27.9	1090		730	< 1	< 1		2.2	< 1	< 1		9809-06312-1
EMW-20LC	2/7/1999	7.62	26.3	1120		750	< 1	< 1		1.9	< 1	< 1		9902-01284-19
EMW-20LC	7/28/1999	7.54	27.8	1100		740	< 1	< 1		1.4	< 1	< 1		9907-06840-009
EMW-20LC	7/28/1999	7.54	27.8	1100		740	< 1	< 1		1.4	< 1	< 1		9907-06840-008
EMW-20LC	1/25/2000	7.6	27.4	940		640	< 1	< 1		< 1	< 1	< 1		0001-00788-003
EMW-20LC	7/24/2000	7.57	27.9	1160		780	< 1	< 1		< 1	< 1	< 1		0007-06500-004
EMW-20LC	2/19/2001	7.54	26.9	1260		840	< 1	< 1		< 1	< 1	< 1		0102-01314-004
EMW-20LC	2/19/2001	7.54	26.9	1260		840	< 1	< 1		< 1	< 1	< 1		0102-01314-003
EMW-20LC	9/20/2001	7.59	27.6	1250		830	< 1	< 1		< 1	< 1	< 1		0109-07024-006
EMW-20LC	2/6/2002	7.5	27.3	1240		820	< 1	< 1		< 1	< 1	< 1		0202-01089-006
EMW-20LC	9/11/2002	7.6	27.8	1210		810	< 1	< 1		< 1	< 1	< 1		0209-07641-005
EMW-20LC	2/25/2004	7.73	25.8	1190		800	< 1	< 1	< 1	< 1	< 1	< 1		040202114014
EMW-20LC	3/25/2005	7.45	23.7	1260		850	< 1	< 1	< 1	< 1	< 1	< 1		05031489-01D

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
EMW-20LC	3/2/2006	7.14	26.3	1230		820	< 1	< 1	< 1	< 1	< 1	< 1		06030607-09D
EMW-20LC	3/22/2007	7.36	24.2	1290		860	< 1	< 1	< 1	< 1	< 1	< 1		07030871-01
EMW-20LC	2/17/2009	7.48	26.37	2040	0.93	1.33	<0.5	<0.5	<0.5	0.4	<0.5	<0.5		210202-020
EMW-20LC	2/1/2010	7.69	26.38	1897	5.4	1.27	<0.5	<0.5	<0.5	0.3	<0.5	<0.5		218171-018
EMW-20LC	11/30/2010						<0.5	<0.5	<0.5	0.3	<0.5	<0.5		224639-036
EMW-20LC	11/30/2010						<0.5	<0.5	<0.5	0.3	<0.5	<0.5		PGA SOUTH
EMW-20LC	2/3/2012	7.32	24.97	1890	11.3		<0.5	<0.5	<0.5	0.2	<0.5	<0.5		189044
EMW-20LC	2/8/2013				3.14		<0.5	<0.5	<0.5	0.2	<0.5	<0.5		189044
EMW-20UC	1/2/1991	7.61	24.2	2790		1866	<0.2	<0.2		<0.2	<0.2	0.2		101531
EMW-20UC	7/12/1991	7.75	26.1	2970		1990	<0.2	<0.2		<0.2	<0.2	<0.2		107690
EMW-20UC	1/28/1992	7.6	23.8	2360		1580	<0.2	<0.2		0.5	<0.2	<0.2		201851
EMW-20UC	7/1/1992	7.47	25.1	2850		1900	<0.2	<0.2		<0.2	<0.2	<0.2		207545
EMW-20UC	12/20/1992	7.38	24	2300		1540	<0.2	<0.2		8.2	<0.2	<0.2		212916
EMW-20UC	2/3/1993	7.43	25.5	2050		1370	<0.2	<0.2		18.6	<0.2	<0.2		30255301
EMW-20UC	3/30/1993						< 1	< 1		13	< 1	< 1		30306804
EMW-20UC	6/18/1993	7.6	26.7	2500		1250	<0.2	<0.2		3.8	<0.2	<0.2		30689314
EMW-20UC	7/9/1993	7.35	27.7	2380		1600	<0.2	<0.2		0.6	<0.2	<0.2		30762807
EMW-20UC	7/28/1993	7.28	27.5	2500		1660	<0.2	<0.2		<0.2	<0.2	<0.2		30797202
EMW-20UC	9/30/1993	7.27	27.9	2340		1560	<0.2	<0.2		1.2	<0.2	<0.2		30910101
EMW-20UC	10/25/1993	7.4	25.8	2260			<0.2	<0.2		4.6	<0.2	<0.2		31002204
EMW-20UC	2/18/1994	7.27	25.1	2420		1620	<0.2	<0.2		12	<0.2	<0.2		40295805
EMW-20UC	2/19/1994	7.27	25.1	2420		1620	<0.2	<0.2		12	<0.2	<0.2		40295806
EMW-20UC	6/30/1994	7.28	27.3	2340		1570	<0.2	<0.5		<0.2	<0.2	<0.2		40752204
EMW-20UC	1/27/1995	7.56	25.3	2370		1770	<0.2	<0.2		20	<0.2	<0.2		9501032401
EMW-20UC	6/28/1995	7.62	26.8	2600		1730	< 1	< 1		< 1	< 1	< 1		9507-06188-2
EMW-20UC	9/12/1995	7.54	27.9	2640		1750	< 1	< 1		1.2	< 1	< 1		9509-07486-12
EMW-20UC	3/26/1996	7.54	25.9	2530		1690	< 1	< 1		1.2	< 1	< 1		9603-01505-4
EMW-20UC	6/19/1996	7.3	26.4	2500		1670	< 1	< 1		< 1	< 1	< 1		9606-03103-1
EMW-20UC	9/20/1996						< 1	< 1		< 1	< 1	< 1		9609-04837-8
EMW-20UC	9/20/1996	7.55	26.2	2570		1720	< 1	< 1		< 1	< 1	< 1		9609-04837-7
EMW-20UC	12/18/1996	7.38	24.3	2560		1730	< 1	< 1		3	< 1	< 1		9612-06602-2
EMW-20UC	2/19/1997	7.47	26.1	2570			< 1	< 1		< 1	< 1	< 1		9702-01144-8
EMW-20UC	6/10/1997	7.47	25.8	1830		1220	< 1	< 1		< 1	< 1	< 1		9706-03639-2
EMW-20UC	6/10/1997	7.47	25.8	1830		1220	< 1	< 1		< 1	< 1	< 1		9706-03639-1
EMW-20UC	9/11/1997	7.4	26.4	1840		1230	< 1	< 1		< 1	< 1	< 1		9709-05871-12
EMW-20UC	9/11/1997	7.4	26.4	1840		1230	< 1	< 1		< 1	< 1	< 1		9709-05871-11
EMW-20UC	11/25/1997	7.45	26	1810		1200	< 1	< 1		2.1	< 1	< 1		9711-07631-1
EMW-20UC	1/28/1998	7.23	25.5	1790		1200	< 1	< 1		< 1	< 1	< 1		9801-00660-6
EMW-20UC	1/28/1998	7.23	25.5	1790		1200	< 1	< 1		< 1	< 1	< 1		9801-00660-7
EMW-20UC	2/6/1999	7.19	25.1	1730		1170	< 1	< 1		< 1	< 1	< 1		9902-01284-10
EMW-20UC	1/20/2000	7.43	25.8	1780		1190	< 1	< 1		< 1	< 1	< 1		0001-00680-001
EMW-20UC	2/19/2001	7.39	25.3	1800		1200	< 1	< 1		< 1	< 1	< 1		0102-01314-005
EMW-20UC	2/6/2002	7.29	26	1870		1240	< 1	< 1		< 1	< 1	< 1		0202-01089-007
EMW-20UC	2/25/2004	7.49	24.3	1710		1150	< 1	< 1	< 1	< 1	< 1	< 1		040202114015
EMW-20UC	3/25/2005	7.26	22.9	1620		1090	< 1	< 1	< 1	< 1	< 1	< 1		05031489-02D
EMW-20UC	3/2/2006	7.06	26.4	1420		950	< 1	< 1	< 1	< 1	< 1	< 1		06030607-10D
EMW-20UC	3/22/2007	7.24	24.1	1820		1220	< 1	< 1	< 1	< 1	< 1	< 1		07030871-04
EMW-20UC	3/22/2007	7.24	24.1	1820		1220	< 1		< 1	< 1	< 1	< 1		07030871-03
EMW-20UC	2/17/2009	7.29	25.25	2955	8.22	1.92	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		210202-023
EMW-20UC	2/1/2010	7.53	25.02	2761		5.03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		218171-019
EMW-20UC	8/3/2011	7.16	30.95	2585	2.2		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		PGA SOUTH
EMW-20UC	2/3/2012	7.27	23.49	2675	3.56		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		189044
EMW-20UC	2/8/2013				1.53		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		189044
EMW-21UC	1/3/1991	7.53	21.3	2080		1410	<0.2	<0.2		<0.2	<0.2	<0.2		101531
EMW-21UC	7/12/1991	7.75	26.1	2970		1990	<0.2	<0.2		0.2	<0.2	<0.2		107690
EMW-21UC	1/28/1992	7.65	24.2	1650		1110	<0.2	<0.2		<0.2	<0.2	<0.2		201851
EMW-21UC	7/1/1992	7.71	25.9	1950		1300	<0.2	<0.2		<0.2	<0.2	<0.2		207545
EMW-21UC	12/22/1992	7.5	24.2	1840		1230	<0.2	<0.2		<0.2	<0.2	<0.2		212987
EMW-21UC	6/16/1993	7.36	27	1750		1150	<0.2	<0.2		0.2	<0.2	<0.2		30681615
EMW-21UC	2/17/1994	7.36	25.6	1870		1230	<0.2	<0.2		<0.2	<0.2	<0.2		40295801
EMW-21UC	7/1/1994	7.27	26.7	1850		1250	<0.2	<0.5		<0.2	<0.2	<0.2		40752209
EMW-21UC	1/25/1995	7.57	25	2100		2450	<0.2	<0.2		<0.2	<0.2	<0.2		9501032405
EMW-21UC	12/2/2010						<0.5	<0.5	<0.5	0.8	<0.5	<0.5		PGA SOUTH
EMW-21UC	12/2/2010						<0.5	<0.5	<0.5	0.8	<0.5	<0.5		224639-012
EMW-21UC	2/7/2012	7.17	25.82	2727	5.03		<0.5	<0.5	<0.5	3.3	<0.5	<0.5	4.8	189044
EMW-21UC	5/3/2012	6.91	28.71	2584	2.3		<0.5	<0.5	<0.5	2.6	<0.5	<0.5		189044
EMW-21UC	8/9/2012	6.7	30.06	2650	2.38		<0.5	<0.5	<0.5	3	<0.5	<0.5		189044
EMW-21UC	2/12/2013				10.4		<0.5	<0.5	<0.5	0.9	<0.5	<0.5		189044
EMW-22LC	9/5/1987												20	CH2M-RD
EMW-22LC	4/6/1988												20	CH2M-RD
EMW-22LC	4/15/1993						<0.2	<0.2		<0.2	<0.2	<0.2		30480301

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
EMW-22LC	7/31/1997												16	9708-04907-15
EMW-22LC	10/16/1997												< 5	9710-06746-6
EMW-22LC	2/26/1998												8	9802-01359-6
EMW-22LC	1/26/2012	7.53	25.38	2614	3.87		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	9	189044
EMW-23A	1/31/1990	7.1	23.1			3910	<0.2	<0.2		1.63	<0.2	<0.2		2500
EMW-23A	3/1/1990	7.05	24.8	6120		4040	<0.2	<0.2		0.8	<0.2	<0.2		3518
EMW-23A	3/21/1990	7	24.7	6400		4270	<0.2	<0.2		1.1	<0.2	<0.2		3755
EMW-23A	4/17/1990	7.15	24.4	5230		3500	<0.2	<0.2		3		<0.2		4665
EMW-23A	4/17/1990										<0.2			3518
EMW-23A	5/23/1990			5200		3460	<0.2	<0.2		2.5	<0.2	<0.2		5760
EMW-23A	6/19/1990		27.7	5800		3800	<0.2	<0.2		1.6	<0.2	<0.2		6772
EMW-23A	7/17/1990	7.16	27.3	5630		3750	<0.2	<0.2		0.6	<0.2	<0.2		7728
EMW-23A	8/16/1990	7.26	29.5	5430		3620	<0.2	<0.2		1.5	<0.2	<0.2		8644
EMW-23A	9/22/1990	7.29	26.2	5440		3630	<0.2	<0.2		1.3	<0.2	<0.2		9768
EMW-23A	10/17/1990					3740	<0.2	<0.2		1.1	<0.2	<0.2		10721
EMW-23A	11/24/1990	7.34	23.4	5470		3640	<0.2	<0.2		1.6	<0.2	<0.2		11779
EMW-23A	1/18/1991	7.31	24.5	5230		3550	<0.2	<0.2		0.8	<0.2	<0.2		101748
EMW-23A	3/16/1991	7.29	25	5430		3640	<0.2	<0.2		1.2	<0.2	<0.8		103798
EMW-23A	6/20/1991	7.35	26.5	5360		3590	<0.2	<0.2		1.8	<0.2	<0.2		106834
EMW-23A	9/23/1991	7.52	26.1	5170		3450	<0.2	<0.2		0.8	<0.2	<0.2		109886
EMW-23A	1/18/1992	7.27	23.1	4420		2930	<0.2	<0.2		0.9	<0.2	<0.2		201734
EMW-23A	3/26/1992	7.43	23.9	4510		3020	<0.2	<0.2		1.5	<0.2	<0.2		203951
EMW-23A	3/27/1992	7.43	23.9	4510		3020	<0.2	<0.2		1.8	0.3	<0.2		20395101
EMW-23A	6/27/1992	7.39	27.7	4590		3070	<0.2	<0.2		3	<0.2	<0.2		206044
EMW-23A	10/7/1992	7.38	27.5	4500		3000	<0.2	<0.2		1.3	<0.2	<0.2		210612
EMW-23A	12/17/1992	7.29	23.6	4590		3070	<0.2	<0.2		2.6	<0.2	<0.2		212907
EMW-23A	3/12/1993	7.4	24.8	4070		2720	<0.2	<0.2		2.4	<0.2	<0.2		30375801
EMW-23A	6/17/1993	7.18	24.8	4100		1400	<0.2	<0.2		2.6	<0.2	<0.2		30689308
EMW-23A	10/18/1993	7.42	25.5	4400			<0.2	<0.2		1.9	<0.2	<0.2		31092918
EMW-23A	1/10/1994	7	21.6	4360		2870	<0.2	<0.2		1.8	<0.2	<0.2		40166901
EMW-23A	3/31/1994	7.42	25.3	4180		2790	<0.2	<0.2		2	<0.2	<0.2		40452606
EMW-23A	6/13/1994	6.95	26	3960		2640	0.4	<0.5		22	<0.2	<0.2		40672208
EMW-23A	6/14/1994	6.95	26	3960		2640	0.4	<0.5		24	<0.2	0.3		40672209
EMW-23A	8/2/1994						<0.2	<0.2		1.8	<0.2	<0.2		40852901
EMW-23A	9/26/1994						<0.2	<0.2		1.9	<0.2	<0.2		40993607
EMW-23A	9/26/1994	6.82	25.9	2830										40964703
EMW-23A	12/30/1994	7.02	24.9	3720		2730	<0.2	<0.2		1.7	<0.2	<0.2		9412027715
EMW-23A	3/22/1995	7.8	24.9	4380		2960	< 1	< 1		1.1	< 1	< 1		9503-4380-12
EMW-23A	12/28/1995	7.42	24.2	3550		2760	< 1	< 1		< 1	< 1	< 1		9512-09221-42
EMW-24A	1/31/1990							0.3			<0.2	<0.2		2500
EMW-24A	3/1/1990	7.2	24.1	4600		3070	<0.2	<0.2		0.3	<0.2	<0.2		3518
EMW-24A	3/21/1990	7.2	24.1	4610		3080	<0.2	<0.2		0.2	<0.2	<0.2		3755
EMW-24A	4/17/1990	7.3	24.5	4000		2680	<0.2	<0.2		0.6	<0.2	<0.2		4665
EMW-24A	5/23/1990			4330		2880	<0.2	<0.2		0.9	<0.2	<0.2		5760
EMW-24A	6/19/1990		28.3	4840		3250	<0.2	<0.2		0.9	<0.2	<0.2		6772
EMW-24A	7/17/1990	7.15	25.5	4440		2950	<0.2	<0.2		0.4	<0.2	<0.2		7728
EMW-24A	8/16/1990	7.27	26.5	4110		2740	<0.2	<0.2		0.2	<0.2	<0.2		8644
EMW-24A	9/22/1990	7.19	25.1	4180		2790	<0.2	<0.2		<0.2	<0.2	<0.2		9768
EMW-24A	10/17/1990	7.18	25.9	4350		2900	<0.2	<0.2		0.6	<0.2	<0.2		10721
EMW-24A	11/24/1990					2980	<0.2	<0.2		0.3	<0.2	<0.2		11779
EMW-24A	1/18/1991	7.27	23.3	4370		2910	<0.2	<0.2		1.1	<0.2	<0.2		101748
EMW-24A	3/16/1991	7.25	23.6	4400		2930	<0.2	<0.2		0.5	<0.2	0.3		103798
EMW-24A	6/20/1991	7.37	24.9	5260		3520	<0.2	<0.2		1.6	<0.2	<0.2		106834
EMW-24A	9/23/1991	7.51	25.2	4750		3140	<0.2	<0.2		0.6	<0.2	<0.2		109886
EMW-24A	1/18/1992	7.29	23.1	4050		2700	<0.2	<0.2		0.5	<0.2	<0.2		201734
EMW-24A	3/26/1992			4130										203992
EMW-24A	3/26/1992		24.2											203979
EMW-24A	3/26/1992	7.36				2760	<0.2	<0.2		0.5	<0.2	<0.2		203951
EMW-24A	12/17/1992	7.32	22.2	4540		3030	<0.2	<0.2		1.1	<0.2	<0.2		212907
EMW-24A	3/12/1993	7.3	23.1	4120		2800	<0.2	<0.2		1	<0.2	<0.2		30375802
EMW-24A	6/14/1993	7.16	25.8	4250		1400	<0.2	<0.2		1.9	<0.2	<0.2		30681605
EMW-24A	6/15/1993	7.16	25.8	4250		1400	<0.2	<0.2		2	<0.2	<0.2		30681606
EMW-24A	10/18/1993	7.21	24.5	4390			<0.2	<0.2		2.6	<0.2	<0.2		31092917
EMW-24A	1/10/1994	7	24.6	4100		2740	<0.2	<0.2		2.2	<0.2	<0.2		40166902
EMW-24A	4/7/1994	7.27	24.6	4150		2740	<0.2	<0.2		1	<0.2	<0.2		40467417
EMW-24A	6/13/1994	6.91	24.8	4190		2800	<0.2	<0.5		1.8	<0.2	<0.2		40672211
EMW-24A	9/26/1994	6.9	24.2	2480										40964703
EMW-24A	9/26/1994						<0.2	<0.2		1.8	<0.2	<0.2		4093608
EMW-24A	12/30/1994	7.02	24	3200		2200	<0.2	<0.2		<0.2	<0.2	<0.2		9412027716
EMW-24A	3/22/1995	7.27	24.2	4060		2690	< 1	< 1		1.5	< 1	< 1		9503-4380-13
EMW-24A	12/28/1995	7.14	23.4	3560		2210	< 1	< 1		< 1	< 1	< 1		9512-09221-41

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
EMW-25A	8/13/1987												36	CH2M-RD
EMW-25A	10/8/1987												20	CH2M-RD
EMW-25A	1/19/1988												20	CH2M-RD
EMW-25A	4/5/1988												20	CH2M-RD
EMW-25A	2/1/1990		22.4			4930				<0.2				2529
EMW-25A	4/19/1990	7.04	25.7	7170		4820	<0.2	<0.2		<0.2	<0.2	<0.2		4665
EMW-25A	7/19/1990	7.15	27.2	7830		5230	<0.2	<0.2		<0.2	<0.2	<0.2		7728
EMW-25A	10/21/1990	7.28	24.2	8070		5370	<0.2	<0.2		<0.2	<0.2	<0.2		10738
EMW-25A	1/23/1991	7.34	22.1	7560		5040	<0.2	<0.2		<0.2	<0.2	<0.2		101748
EMW-25A	3/17/1991	7.26	24.5	7820		5210	<0.2	<0.2		<0.2	<0.2	<0.2		103798
EMW-25A	6/21/1991	7.48	24.9	7430		4980	<0.2	<0.2		<0.2	<0.2	<0.2		106863
EMW-25A	9/22/1991	7.62	25.1	7580		5070	<0.2	<0.2		<0.2	<0.2	<0.2		109886
EMW-25A	1/24/1992	7.29	23.3	6550		4360	<0.2	<0.2		<0.2	<0.2	<0.2		201816
EMW-25A	3/29/1992	7.25	23.7	6230		4160	<0.2	<0.2		<0.2	<0.2	<0.2		203979
EMW-25A	6/29/1992	7.32	22.9	7000		4670	<0.2	<0.2		<0.2	<0.2	<0.2		20606501
EMW-25A	6/30/1992	7.32	22.9	7000		4670	<0.2	<0.2		<0.2	<0.2	<0.2		206065
EMW-25A	10/13/1992										<0.2			2107140
EMW-25A	10/13/1992	7.32	23.1	6330		4210	<0.2	<0.2		<0.2		<0.2		210714
EMW-25A	1/5/1993	6	22.1	6310		4220	<0.2	<0.2		<0.2	<0.2	<0.2		301538
EMW-25A	3/16/1993	7.3	23.6	8600		5720	<0.2	<0.2		<0.2	<0.2	<0.2		30381204
EMW-25A	6/14/1993	7.03	25.8	6000		6200	<0.2	<0.2		<0.2	<0.2	<0.2		30681607
EMW-25A	10/15/1993	7.1	24.5	6410			<0.2	<0.2		<0.2	<0.2	<0.2		31083702
EMW-25A	1/2/1994	7.3	24	6050			<0.2	<0.2		<0.2	<0.2	<0.2		40151207
EMW-25A	4/20/1994	7.08	24.9	5590		3720	<0.4	<0.4		<0.4	<0.4	<0.4		40494811
EMW-25A	6/16/1994	7.08	23.7	5850		4010	<0.2	<0.5		<0.2	<0.2	0.6		40684435
EMW-25A	9/27/1994						<0.2	<0.2		<0.2	<0.2	<0.2		40993613
EMW-25A	9/27/1994	6.67	22.9	3830										101748
EMW-25A	12/29/1994	7.15	23.3	5670		3940	<0.2	<0.2		<0.2	<0.2	<0.2		9412027418
EMW-25A	3/21/1995	7.08	24.2	6130		4210	< 1	< 1		< 1	< 1	< 1		9503-4378-2
EMW-25A	3/21/1995						< 1	< 1		< 1	< 1	< 1		9503-4378-1
EMW-26A	8/14/1987												13	CH2M-RD
EMW-26A	1/20/1988												40	CH2M-RD
EMW-26A	4/5/1988												20	CH2M-RD
EMW-26A	4/19/1990		24.2	6940		4680	0.2	<0.2		0.5	<0.2	1		4665
EMW-26A	7/19/1990	7.16	27	6920		4620	<0.2	<0.2		0.5	<0.2	1.1		7728
EMW-26A	10/18/1990	7.18	25.5	7680		5130	<0.2	<0.2		0.6	<0.2	1.2		10721
EMW-26A	1/23/1991	7.22	22.3	7660		5090	<0.2	<0.2		<0.2	<0.2	0.4		101748
EMW-26A	3/17/1991	7.18	24.9	7420		4950	<0.2	<0.2		<0.2	<0.2	0.4		103798
EMW-26A	1/24/1992	7.24	23.8	6720		4490	<0.2	<0.2		<0.2	<0.2	<0.2		201816
EMW-26A	3/30/1992	7.43	23.1	6700		4480	<0.2	<0.2		<0.2	<0.2	0.3		203992
EMW-26A	7/7/1992	7.47	24	6750		4520	<0.2	<0.2		<0.2	<0.2	<0.2		207608
EMW-26A	10/13/1992	7.47	27.4	5600		3730	<0.2	<0.2		<0.2	<0.2	<0.2		210714
EMW-26A	1/28/1993	8.51	23.4	4720		3150	<0.2	<0.2		<0.2	<0.2	<0.2		30190706
EMW-26A	3/17/1993	7.4	22.3	6390		4270	<0.2	<0.2		0.5	0.6	0.8		30381205
EMW-26A	7/2/1993	7.82	25	5840		3930	<0.2	<0.2		<0.2	<0.2	<0.2		30754210
EMW-26A	10/15/1993	8.49	25	5810			<0.2	<0.2		<0.2	<0.2	<0.2		31083701
EMW-26A	1/17/1994	6.76	23.7	5230		3490	<0.2	<0.2		<0.2	<0.2	<0.2		40179703
EMW-26A	4/20/1994	7.63	25.8	4880		3240	<0.2	<0.2		<0.2	<0.2	<0.2		40494810
EMW-26A	6/16/1994	7.25	21.3	5610		3720	<0.2	<0.5		<0.2	<0.2	0.5		40684434
EMW-26A	12/29/1994	7.21	20.1	4640		4050	<0.2	<0.2		<0.2	<0.2	<0.2		9412027413
EMW-26A	3/31/1995	8.46	23.8	4360		2930	< 1	< 1		< 1	< 1	< 1		9503-4553-1
EMW-27MF	9/1/1987												42	CH2M-RD
EMW-27MF	10/6/1987												40	CH2M-RD
EMW-27MF	1/14/1988												40	CH2M-RD
EMW-27MF	6/15/2006						< 1	< 1	< 1	< 1	< 1	< 1		06060615-15D
EMW-27MF	2/8/2012	8.71	25.3	636	84.7		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	31	189044
EMW-28B	1/2/1991		23.3	3590		2400	<0.2	<0.2		7.3	<0.2	<0.2		101531
EMW-28B	7/13/1991	7.43	26.9	3720		2480	<0.2	<0.2		<0.2	<0.2	<0.2		107711
EMW-28B	1/29/1992	7.52	25.2	3170		2120	<0.2	<0.2		<0.2	<0.2	<0.2		201890
EMW-28B	7/7/1992	7.58	27.6	3270		2180	<0.2	<0.2		<0.2	<0.2	<0.2		207608
EMW-28B	12/21/1992	7.58	23.9	3290		2200	<0.2	<0.2		<0.2	<0.2	<0.2		212930
EMW-28B	6/22/1993	7.35	26.2	3100		1400	<0.2	<0.2		<0.2	<0.2	<0.2		30695104
EMW-28B	6/23/1993	7.35	26.2	3100		1400	<0.2	<0.2		<0.2	<0.2	<0.2		30695105
EMW-28B	2/21/1994	7.27	24.7	3170		2140	<0.2	<0.2		0.6	<0.2	<0.2		40299410
EMW-28B	7/1/1994	7.2	27.8	2840		1850	<0.2	<0.5		1.7	<0.2	<0.2		40752210
EMW-28B	1/20/1995	7.41	25.3	3230		2160	<0.2	<0.2		3.1	<0.2	<0.2		9501031119
EMW-28LC	8/10/1987												17	CH2M-RD
EMW-28LC	10/6/1987												20	CH2M-RD
EMW-28LC	1/19/1988												50	CH2M-RD
EMW-28LC	1/2/1991	7.92	24.8	1990		1340	<0.2	<0.2		<0.2	<0.2	<0.2		101531
EMW-28LC	7/13/1991	7.97	27.9	2010		1340	<0.2	<0.2		<0.2	<0.2	<0.2		107711

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
EMW-28LC	1/29/1992	7.9	26.7	1990		1330	<0.2	<0.2		<0.2	<0.2	<0.2		201890
EMW-28LC	7/2/1992	7.81	27.8	2230		1490	<0.2	<0.2		<0.2	<0.2	<0.2		207545
EMW-28LC	12/21/1992	8.1	25.8	2200		1490	<0.2	<0.2		<0.2	<0.2	<0.2		212930
EMW-28LC	6/23/1993	7.7	28	2400		1350	<0.2	<0.2		<0.2	<0.2	<0.2		30695113
EMW-28LC	2/21/1994	7.4	25.4	2400		1600	<0.2	<0.2		<0.2	<0.2	<0.2		40299407
EMW-28LC	7/1/1994	7.35	28.6	2210		1514	<0.2	<0.5		<0.2	<0.2	<0.2		40752211
EMW-28LC	1/20/1995	7.93	27.2	2390		1600	<0.2	<0.2		<0.2	<0.2	<0.2		9501031118
EMW-28LC	5/17/2006	7.32	29.3	1730		1160							12.5	06051217-06B
EMW-28LC	8/29/2006												20	06081187-01B
EMW-28LC	5/31/2007	7.4	26.5	1960		1320							22	07051097-03
EMW-28LC	9/19/2007	7.05	27.4	2030		1360							21.5	07090693-04A
EMW-28LC	1/22/2008	7.61	27.01	3379		2260							7.7	200697-004
EMW-28LC	6/16/2008	7.22	27.47	3627		2430							5.4	204021-010
EMW-28LC	7/31/2008	7.88	27.12	3291		2139							6.3	205025-008
EMW-28LC	12/3/2010						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		224639-008
EMW-28LC	12/3/2010						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		PGA SOUTH
EMW-28UC	1/2/1991	7.46	24.3	2790		1880	<0.2	<0.2		<0.2	<0.2	<0.2		101531
EMW-28UC	7/13/1991	7.41	27.3	2910		1940	<0.2	<0.2		<0.2	<0.2	<0.2		107711
EMW-28UC	1/29/1992	7.57	25.8	2410		1610	<0.2	<0.2		<0.2	<0.2	<0.2		201890
EMW-28UC	7/7/1992	7.65	27.2	2530		1690	<0.2	<0.2		<0.2	<0.2	<0.2		207608
EMW-28UC	12/21/1992	7.4	24.4	2420		1620	<0.2	<0.2		<0.2	<0.2	<0.2		212930
EMW-28UC	6/17/1993	7.21	27.1	2450		1250	<0.2	<0.2		<0.2	<0.2	<0.2		30689304
EMW-28UC	6/18/1993	7.21	27.1	2450		1250	<0.2	<0.2		<0.2	<0.2	<0.2		30689301
EMW-28UC	2/21/1994	7.27	25.4	2310		1550	<0.2	<0.2		<0.2	<0.2	<0.2		40299408
EMW-28UC	6/30/1994						0.5	<0.5		2.8	<0.2	<0.2		40752207
EMW-28UC	7/1/1994	7.25	27.8	2220		1480	0.5	<0.5		2.8	<0.2	<0.2		40752207
EMW-28UC	1/20/1995	7.36	25.8	2300		1540	2.45	<0.2		12.6	<0.2	<0.2		9501031110
EMW-28UC	8/7/2011						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		PGA SOUTH
EMW-28UC	2/6/2012	7.1	26.75	2155	12.4		<0.5	<0.5	<0.5	1	<0.5	<0.5		189044
EMW-28UC	8/8/2012	7.13	29.24	2242	8.44		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		189044
EMW-28UC	2/7/2013				4.72		<0.5	<0.5	<0.5	0.2	<0.5	<0.5		189044
EMW-29A	6/21/1991	7.8	27.5	3830		2560		<0.2		<0.2	<0.2	<0.2		106863
EMW-29A	9/22/1991	7.8	26.9	3690		2460	<0.2	<0.2		<0.2	<0.2	<0.2		109886
EMW-29A	1/21/1992	7.81	24.9	3420		2280	<0.2	<0.2		<0.2	<0.2	<0.2		201771
EMW-29A	3/30/1992	7.68	24.7	3570		2380	<0.2	<0.2		<0.2	<0.2	<0.2		203992
EMW-29A	6/28/1992	7.62	24.8	3930		2620	<0.2	<0.2		<0.2	<0.2	<0.2		206045
EMW-29A	10/8/1992	7.69	25.1	3670		2450	<0.2	<0.2		<0.2	<0.2	<0.2		210612
EMW-29A	12/19/1992	7.7	23.7	4030		2680	<0.2	<0.2		<0.2	<0.2	<0.2		212916
EMW-29A	3/16/1993	7.6	23.7	4340		2890	<0.2	<0.2		<0.2	<0.2	<0.2		30381201
EMW-29A	6/28/1993	7.31	26.3	5000		1600	<0.2	<0.2		<0.2	<0.2	<0.2		30750004
EMW-29A	10/18/1993	7.37	24.5	6170			<0.2	<0.2		<0.2	<0.2	<0.2		31092914
EMW-29A	1/11/1994	7.53	24.8	5410		3610	<0.2	<0.2		<0.2	<0.2	<0.2		40166906
EMW-29A	1/12/1994	7.53	24.8	5410		3610	<0.2	<0.2		<0.2	<0.2	<0.2		40166911
EMW-29A	4/5/1994	7.56	24.5	5390		3630	<0.2	0.2		<0.2	<0.2	0.6		40467405
EMW-29A	6/15/1994	7.3	25.3	5010		3340	<0.2	0.7		<0.2	<0.2	0.6		40684406
EMW-29A	9/8/1994	7.11	24.5	3780			<0.2	<0.2		<0.2	<0.2	0.4		40964701
EMW-29A	12/28/1994	7	24.1	4840		3500	<0.2	<0.2		<0.2	<0.2	<0.2		9412027082
EMW-29A	12/30/1994	7.09		5020		3470	<0.2	<0.2		<0.2	<0.2	<0.2		9412027712
EMW-29A	3/21/1995	7.46	25.4	5260		3570	< 1	< 1		< 1	< 1	< 1		9503-4378-3
EMW-29A	10/25/2007	6.71	24.4	4240			<0.5	<0.5	<0.5	7	<0.5	<0.5		198750-001
EMW-29A	8/12/2008						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.5	205259-004
EMW-29A	11/16/2011	7.61	25.13	1823	110									154540
EO-17	1/6/1994	6.96	24.1	5740		3940							< 10	40158606
EP-01	5/31/1985												420	ETC
EP-01	4/1/1986												86	RMAL
EP-01	8/19/1986												370	RMAL
EP-01	12/10/1986												26	RMAL
EP-01	1/13/1988												30	ROD
EP-01	5/3/1993	10.19	27.9	4850		3230	20	30		1000	< 10	20		30551707
EP-02	3/31/1986												70	RMAL
EP-02	8/18/1986												34	RMAL
EP-02	9/12/1986												15	RMAL
EP-02	1/13/1988												30	CH2M-RD
EP-02	3/22/1990						< 10	< 10		680	< 10	< 10		3755
EP-02	4/19/1990	7.25	26.9	4420		3000	< 5	< 5		614	< 5	< 5		4665
EP-02	5/23/1990			5090		3390	< 10	< 10		814	< 10	< 10		5760
EP-02	6/19/1990		26.4	5090		3380	< 10	< 10		880	< 10	< 10		6772
EP-02	7/18/1990	7.18	27.8	5790		3840	< 10	< 10		860	< 10	< 10		7728
EP-02	8/17/1990	7.11	28	6290		4200	< 10	< 10		920	< 10	< 10		8664
EP-02	9/23/1990	7.31	28.8	6530		4360	< 1	< 1		550	< 1	< 1		9768
EP-02	10/21/1990	7.28	26.2	7090		4780	< 10	< 10		670	< 10	< 10		10738

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
EP-02	11/25/1990	7.32	24.9	6770		4540	< 5	< 5		620	< 5	< 5		11779
EP-02	12/17/1990	7.31	21.5	6600		4380	< 5	< 5		700	< 5	< 5		12764
EP-02	1/21/1991	7.35	23.2	5780		3860	< 5	< 5		630	< 5	< 5		101748
EP-02	3/17/1991	7.33	23.2	6380		4260	< 5	< 5		430	< 5	< 5		103798
EP-02	5/22/1991	7.35	26.4	4610		3070	< 4	< 4		450	< 4	< 4		105819
EP-02	6/30/1991	7.31	28.1	4400		2920		< 4		260	< 4	< 4		107711
EP-02	9/24/1991	7.48	29.8	4390		2940	< 4	< 4		300	< 4	< 4		109886
EP-02	1/24/1992	7.33	25.5	3760		2510	< 2	< 2		530	< 2	< 2		201816
EP-02	3/30/1992	7.68	27.9				1	< 1		390	< 1	< 1		203992
EP-02	6/30/1992	7.74	27.6	3670		2450	< 1	< 1		260	3	< 1		207545
EP-02	10/12/1992	7.44	24.6	3540		2360	< 1	< 1		290	< 1	< 1		210671
EP-02	1/29/1993	7.23	24.4	3040		2030	<0.2	<0.2		220	0.6	<0.2		30194308
EP-02	3/22/1993	7.64	25.5	3520		2350	< 1	< 1		200	1	< 1		30397402
EP-02	6/22/1993	7.1	26.8	4300		1550	6	< 1		280	< 1	< 1		30695109
EP-02	10/20/1993	7.15	26	4560			< 2	< 2		180	< 2	< 2		31092911
EP-02	1/13/1994	7.24	25.5	4100		2700	4.1	0.8		260	0.8	0.6		40173305
EP-02	4/21/1994	7.47	28.6	4120		2720	4.2	0.7		170	0.9	0.6		40494822
EP-02	6/16/1994	6.98	28.4	5180		3470	6.4	<0.5		150	0.9	0.5		40684414
EP-02	9/27/1994					2860								3755
EP-02	9/27/1994	6.6	26.1	4760			0.3	0.7		270	0.3	1.4		40993616
EP-02	12/15/1994	7.25	24.7	5480		3660	5.7	<0.2		330	<0.2	<0.2		9412025534
EP-02	3/22/1995	6.97	26.8	6920		4620	< 1	< 1		253	< 1	< 1		9503-4380-4
EP-02	6/20/1995	7.14	27	6880		4620	2.4	< 1		159	< 1	< 1		9506-05974-9
EP-02	9/25/1995	7.19	26.7	5580		3730	3.9	< 1		170	< 1	< 1		9509-07704-1
EP-02	12/27/1995	7.09	24.7	5400		3550	< 1	< 1		306	< 1	< 1		9512-09221-31
EP-02	3/29/1996	7.38	25.6	4920		3280	1.2	< 1		237	< 1	< 1		9604-01585-6
EP-02	6/28/1996	7.13	27.4	4460		2960	< 1	< 1		197	< 1	1.7		9606-03238-14
EP-02	6/28/1996	7.13	27.4	4460		2960	2.9	< 1		246	< 1	3		9606-03238-13
EP-02	9/27/1996	7.03	29	4500		2990	< 1	< 1		383	< 1	< 1		9609-04963-27
EP-02	12/11/1996	7.19	26.7	4590		3060	< 1	< 1		216	< 1	< 1		9612-06480-16
EP-02	2/17/1997	7.34	27.7	4500			< 1	< 1		324	< 1	< 1		9702-01060-1
EP-02	6/18/1997	7.39	28.7	3280		2190	2.5	< 1		133	< 1	< 1		9706-03832-15
EP-02	9/25/1997	8.28	26.8	2860		1910	2.1	< 1		112	< 1	< 1		9709-06208-27
EP-02	1/6/1998	7.76	24.8	2940		1960	1.2	< 1		92.3	< 1	< 1		9801-00105-2
EP-02	2/27/1998	7.16	25.6	3040		2040	1.2	< 1		110	< 1	< 1		9803-01373-2
EP-02	9/15/1998	7.18	28.1	3160		2100	1	< 1		136	< 1	< 1		9809-06485-1
EP-02	11/2/1998												11	9811-07847-1
EP-02	2/11/1999	7.23	24.4	3120		2090	< 1	< 1		134	< 1	< 1		9902-01433-09
EP-02	8/31/1999	7.13	25	3020		2020	< 1	< 1		170	< 1	< 1		9909-07905-001
EP-02	2/3/2000	7.21	25.8	2190		1460	< 1	< 1		74.8	< 1	< 1		0002-01144-006
EP-02	8/1/2000	7.34	27.8	2310		1540	< 2	< 2		34.3	< 2	< 2		0008-06763-004
EP-02	1/23/2001	7.33	24.4	2390		1600	< 1	< 1		40	< 1	< 1		0101-00601-012
EP-02	8/21/2001	7.25	27.5	2270		1520	< 1	< 1		39	< 1	< 1		0108-06145-005
EP-02	1/23/2002	7.27	23.8	2200		1470	< 1	< 1		49	< 1	< 1		0201-00680-007
EP-02R	1/8/2013													
EP-02R	2/7/2013				10.6		0.5	<1	<1	250	<1	0.4	57	189044
EP-02R	8/8/2013				4.06		<0.5	<0.5	<0.5	51	<0.5	0.1 J	16	247818-011
EP-03	1/15/1985									1.1				
EP-03	12/10/1986									210			26	RMAL
EP-04	4/4/1986												175	RMAL
EP-04	8/19/1986												273	RMAL
EP-04	6/19/1990							<0.2			<0.2	<0.2		6772
EP-04	7/18/1990	7.77	27.2	2660		1780	0.5	<0.2		0.9	<0.2	<0.2		7728
EP-04	8/17/1990	8.19	30.1	2560		1700	<0.2	<0.2		0.5	<0.2	<0.2		8664
EP-04	9/23/1990	7.75	27.6	2610		1740	0.3	<0.2		1.1	<0.2	<0.2		9768
EP-04	10/21/1990	7.91	25.8	2610		1750	<0.2	<0.2		0.7	<0.2	<0.2		10738
EP-04	11/25/1990	7.83	24	2530		1690	<0.2	<0.2		<0.2	<0.2	<0.2		11779
EP-04	12/17/1990	7.84	21.1	2560		1700	<0.2	<0.2		0.7	<0.2	<0.2		12764
EP-04	1/21/1991	7.9	22.4	2580		1720	<0.2	<0.2		0.6	<0.2	<0.2		101748
EP-04	3/17/1991	7.86	22.5	2560		1700	0.2	<0.2		0.5	<0.2	<0.2		103798
EP-04	6/30/1991	7.77	27.6	2600		1730	<0.2	<0.2		<0.2	<0.2	<0.2		107711
EP-04	3/30/1992						<0.2	<0.2		<0.2	<0.2	<0.2		203992
EP-04	10/12/1992	7.68	22.1	2100		1400	<0.2	<0.2		<0.2	<0.2	<0.2		210671
EP-04	1/29/1993	8.01	24	1750		1170	<0.2	<0.2		<0.2	<0.2	<0.2		30194310
EP-04	3/22/1993	7.75	25.4	2710		1810	<0.2	<0.2		1.3	<0.2	<0.2		30397401
EP-04	7/1/1993	7.62	28.4	2650		1760	<0.2	<0.2		<0.2	<0.2	<0.2		30754201
EP-04	10/20/1993	7.34	25	2860			<0.2	<0.2		0.7	<0.2	<0.2		31092910
EP-04	1/13/1994	7.96	22.9	2740		1820	<0.2	<0.2		0.3	<0.2	<0.2		40173304
EP-04	4/21/1994	7.51	28.4	2490		1640	<0.2	<0.2		0.8	<0.2	<0.2		40494821
EP-04	6/16/1994	7.24	26.7	2480		1700	<0.2	<0.5		0.5	<0.2	<0.2		40684413
EP-04	9/27/1994	6.83	27	1840			<0.2	<0.2		0.2	<0.2	<0.2		40993615

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
EP-04	12/29/1994	6.99	23.2	2280		1690	<0.2	<0.2		<0.2	<0.2	<0.2		9412027411
EP-04	3/22/1995	8.91	26.5	2320		1590	< 1	< 1		< 1	< 1	< 1		9503-4380-1
EP-04	12/27/1995	7.59	25.7	2690		1710	< 1	< 1		< 1	< 1	< 1		9512-09221-29
EP-04	2/11/1999	8.07	23.6	1520		1020	< 1	< 1		< 1	< 1	< 1	66	9902-01433-10
GAC-01	2/18/1992	7.74	27.4	1925		1282	<0.2	<0.2		<0.2	<0.2	<0.2		202760
GAC-01	5/21/2009	7.67	29.48	2622	19.2	1.76	0.5	0.5	0.5	<0.5	0.5	0.5	< 5	212365-005
GAC-02	12/9/1981									2.6				
GAC-02	12/10/1981									1.9				
GAC-02	12/11/1981									2.4				
GAC-02	3/24/1982									3.6				
GAC-02	9/2/1982									7.3				VERSAR
GAC-02	6/15/1983									3.7				ATL
GAC-02	6/16/1983									9.8				
GAC-02	4/12/1984									5				
GAC-02	5/21/1984									16				
GAC-02	8/3/1984									5.4				
GAC-02	9/20/1984									12				
GAC-02	10/2/1984									10				
GAC-02	10/25/1984									15				ENSECO-CA
GAC-02	10/26/1984									14				ENSECO-CA
GAC-02	12/19/1984									10				
GAC-02	1/29/1985									11				
GAC-02	2/21/1985									12				
GAC-02	8/16/1985									7.5				
GAC-02	9/23/1985									8.2				
GAC-02	10/14/1985									9				
GAC-02	10/27/1985									3.9				
GAC-02	11/27/1985									7.4				
GAC-02	12/20/1985									9.1				
GAC-02	2/5/1986									12				
GAC-02	4/10/1986									9.22				RMAL
GAC-02	12/12/1986									12				RMAL
GAC-02	3/20/1987									5				
GAC-02	6/24/1987									7.4				
GAC-02	10/5/1987									7.2				
GAC-02	1/11/1988									6.4				
GAC-02	1/3/1991	7.45	21.6	1878		1254	<0.2	<0.2		2	<0.2	<0.2		101531
GAC-02	1/4/1991	7.45	21.6	1878		1254	<0.2	<0.2		1.8	<0.2	<0.2		10153101
GAC-02	7/13/1991	7.66	28.1	2010		1340	<0.2	<0.2			<0.2	<0.2		107711
GAC-02	2/3/1992	7.7	25	1720		1150	<0.2	<0.2		1	<0.2	<0.2		202510
GAC-02	8/4/1992						<0.2	<0.2		4.7	<0.2	<0.2		208540
GAC-02	1/12/1993	7.38	24	1690		1120	<0.2	<0.2		0.4	<0.2	<0.2		30163803
GAC-02	7/2/1993	7.29	27.8	1710		1160	<0.2	<0.2		0.3	<0.2	<0.2		30754208
GAC-02	3/11/1994	7.43	23.9	1930		1270	<0.2	<0.2		1.4	<0.2	<0.2		40378306
GAC-02	7/29/1994	7.11	30.4	1760		1170	<0.2	<0.2		2.6	<0.2	<0.2		40706206
GAC-02	7/30/1994	7.11	30.4	1760		1170	<0.2	<0.2		3.1	<0.2	<0.2		40706207
GAC-02	1/25/1995						<0.2	<0.2		<0.2	<0.2	<0.2		9501032401
GAC-02	4/12/1995	7.58	27.2	1920		1290	< 1	< 1		< 1	< 1	< 1		9504-4786-9
GAC-02	5/17/1995	7.12	26	2520		1680	< 1	< 1		< 1	< 1	< 1		9505-5478-1
GAC-02	6/8/1995	7.51	26.4	1940		1290	< 1	< 1		< 1	< 1	< 1		9506-05804-4
GAC-02	8/31/1995	7.35	28.1	1880		1250	< 1	< 1		3.2	< 1	< 1		9508-07236-5
GAC-02	9/11/1995	7.56	27.2	1960		1310	< 1	< 1		3.6	< 1	< 1		9509-07486-3
GAC-02	10/26/1995	7.5	25.8	1900		1280	< 1	< 1		2.4	< 1	< 1		9510-08288-4
GAC-02	12/26/1995	7.23	26.5	2700		1410	< 1	< 1		3.8	< 1	< 1		9512-09221-14
GAC-02	12/26/1995	7.23	26.5	2700		1410	< 1	< 1		< 1	< 1	2.9		9512-09221-15
GAC-02	3/29/1996	7.16	26.1	1900		1270	< 1	< 1		3.3	< 1	< 1		9604-01585-7
GAC-02	6/26/1996	7.23	27	1740		1170	< 1	< 1		3.6	< 1	< 1		9606-03238-3
GAC-02	9/17/1996	7.19	27.5	1760		1220	< 1	< 1		3.9	< 1	< 1		9609-04788-4
GAC-02	12/30/1996	7.32	26.5	1890		1260	< 1	< 1		2.4	< 1	< 1		9612-06716-1
GAC-02	2/27/1997	7.34	24.9	1900			< 1	< 1		2.8	< 1	< 1		9702-01315-12
GAC-02	5/29/1997	7.33	25.6	1710		1180	< 1	< 1		3.2	< 1	< 1	17	9706-03318-1
GAC-02	9/24/1997	7.1	27.3	1350		900	< 1	< 1		4.9	< 1	< 1		9709-06208-23
GAC-02	10/16/1997												14	9710-06746-4
GAC-02	12/19/1997	7.31	24.1	1260		840	< 1	< 1		4.8	< 1	< 1	18	9712-08185-12
GAC-02	2/27/1998												11	9803-01373-5
GAC-02	4/20/1998	7.44	27.6	1140		760	< 1	< 1		4	< 1	< 1	13	9804-02699-9
GAC-02	9/15/1998	7.42	28.8	1260		840	< 1	< 1		4.1	< 1	< 1		9809-06485-3
GAC-02	10/30/1998	7.19	24.5	1320		890	< 1	< 1		3.8	< 1	< 1		9811-07838-17
GAC-02	2/9/1999	7.43	26.4	1360		910	< 1	< 1		1.1	< 1	< 1		9902-01334-15
GAC-02	4/21/1999	7.43	27.6	1320		880	< 1	< 1		2.9	< 1	< 1		9904-03697-01
GAC-02	7/29/1999	7.29	28.7	1330		890	< 1	< 1		< 1	< 1	< 1		9907-06851-003

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
GAC-02	10/19/1999	7.49	27.3	1220		820	< 1	< 1		2.4	< 1	< 1		9910-09616-008
GAC-02	2/4/2000	730	24.7	1300		870	< 1	< 1		2.6	< 1	< 1		0002-01169-001
GAC-02	4/4/2000	7.19	25.3	1340		890	< 1	< 1		1.9	< 1	< 1		0004-03089-002
GAC-02	7/20/2000	7.39	29.1	1320		890	< 1	< 1		3.7	< 1	< 1		0007-06410-003
GAC-02	10/16/2000	7.21	25.7	1360		920	< 1	< 1		2.7	< 1	< 1		0010-09068-002
GAC-02	1/25/2001	7.38	25.9	1370		920	< 1	< 1		3.4	< 1	< 1		0101-00696-005
GAC-02	4/18/2001	7.35	27.6	1340		900	< 1	< 1		3.6	< 1	< 1		0104-02938-002
GAC-02	8/21/2001	7.35	27.3	1320		880	< 1	< 1		1.7	< 1	< 1		0108-06145-004
GAC-02	11/16/2001	7.47	27.7	1320		880	< 1	< 1		2.9	< 1	< 1		0111-08851-002
GAC-02	1/24/2002	7.3	25.3	1330		890	< 1	< 1		1.8	< 1	< 1		0201-00709-002
GAC-02	5/21/2002	7.49	27.3	1330		890	< 1	< 1		3.4	< 1	< 1		0205-04172-004
GAC-02	9/19/2002	7.51	27.5	1320		880	< 1	< 1		4	< 1	< 1		0209-07897-013
GAC-02	10/17/2002	7.43	26.9	1310		880	< 1	< 1		2.9	< 1	< 1		0210-08788-004
GAC-02	3/13/2003	7.16	27.8	1290		860	< 1	< 1	< 1	4.2	< 1	< 1		030302316002
GAC-02	6/24/2003	7.47	28	1300		870	< 1	< 1	< 1	3.3	< 1	< 1		030605833004
GAC-02	9/17/2003	7.31	29	1320		880	< 1	< 1	< 1	1.8	< 1	< 1		030908952002
GAC-02	12/8/2003	7.48	24	1340		900	< 1	< 1	< 1	2.2	< 1	< 1		031212090004
GAC-02	2/18/2004	7.43	23	1360		910	< 1	< 1	< 1	2.1	< 1	< 1		040201839015
GAC-02	4/22/2004	7.62	26.4	1290		860	< 1	< 1	< 1	< 1	< 1	< 1		040404468003
GAC-02	9/21/2004	7.53	28	1230		820	< 1	< 1	< 1	6.1	< 1	< 1		040911070004
GAC-02	12/10/2004	7.47	22.4	1420		950	< 1	< 1	< 1	2.7	< 1	< 1		04120828-06D
GAC-02	1/11/2005	7.17	24.3	1380		930	< 1	< 1	< 1	3.6	< 1	< 1		05011033-02D
GAC-02	2/23/2005	7.05	21.8	1440		970	< 1	< 1	< 1	2.6	< 1	< 1		05021486-01D
GAC-02	3/9/2005	7.41	23.2	1340		900	< 1	< 1	< 1	2.3	< 1	< 1		05030895-09D
GAC-02	4/12/2005	7.38	28.2	1250		840	< 1	< 1	< 1	2	< 1	< 1		05041031-03D
GAC-02	5/10/2005	7.35	27.8	1190		790	< 1	< 1	< 1	2.7	< 1	< 1		05050902-01D
GAC-02	6/10/2005	7.44	26.8	1280		860	< 1	< 1	< 1	2.5	< 1	< 1		05060846-22D
GAC-02	7/12/2005	7.28	28	1180		780	< 1	< 1	< 1	2.91	< 1	< 1		05070997-04D
GAC-02	8/11/2005	7.34	27	1330		890	< 1	< 1	< 1	2.3	< 1	< 1		05080907-08D
GAC-02	9/14/2005	7.32	29.5	1150		770	< 1	< 1	< 1	2.7	< 1	< 1		05091113-01D
GAC-02	10/12/2005	7.18	28.9	1080		720	< 1	< 1	< 1	3	< 1	< 1		05101155-04D
GAC-02	11/10/2005	7.33	25.9	1290		860	< 1	< 1	< 1	3.6	< 1	< 1		05111011-03D
GAC-02	12/7/2005	7.07	23.5	1310		880	< 1	< 1	< 1	3	< 1	< 1		05120894-02D
GAC-02	1/5/2006	7.11	25.2	1380		920	< 1	< 1	< 1	1.9	< 1	< 1		06010681-01D
GAC-02	3/16/2006	6.98	23.8	1260		840	< 1	< 1	< 1	< 1	< 1	1.8		06031366-02D
GAC-02	6/13/2006	7.18	27.6	1280		860	< 1	< 1	< 1	3	< 1	< 1		06060615-02D
GAC-02	9/14/2006	7.22	28.5	1340		890	< 1	< 1	< 1	3.05	< 1	< 1		06090740-04D
GAC-02	11/15/2006	7.26	24.9	1490		1000	< 1	< 1	< 1	3.66	< 1	< 1		06110625-10D
GAC-02	3/14/2007	7.68	28.9	1250		840	< 1	< 1	< 1	2.8	< 1	< 1		07030679-02
GAC-02	5/23/2007	6.83	27	1390		930	< 1	< 1	< 1	2.98	< 1	< 1		07050912-06
GAC-02	8/20/2007	7.1	28	1370		910	< 1	< 1	< 1	4.04	< 1	< 1		07080915-02D
GAC-02	10/10/2007	7.13	26.1	2460		1240	<0.5	<0.5	<0.5	2.6	<0.5	<0.5		198348-010
GAC-02	1/15/2008						<0.5	<0.5	<0.5	3.3	<0.5	<0.5		200619-002
GAC-02	4/30/2008						<0.5	<0.5	<0.5	1.8	<0.5	<0.5		202978-003
GAC-02	8/12/2008						<0.5	<0.5	<0.5	3.5	<0.5	<0.5		205259-002
GAC-02	11/18/2008	7.03	25.7	2400		1200	<0.5	<0.5	<0.5	2.5	<0.5	<0.5		208075-006
GAC-02	2/18/2009	7.22	25.2	2360		1.17	<0.5	<0.5	<0.5	2.6	<0.5	<0.5		210200-008
GAC-02	5/27/2009	7.07	26.7	2310		1.15	<0.5	<0.5	<0.5	3.1	<0.5	<0.5		212433-002
GAC-02	8/24/2009	7.32	27	2580		1.28	<0.5	<0.5	<0.5	4.6	<0.5	<0.5		214393-013
GAC-02	12/17/2009	6.49	26.3	2630		1.32	<0.5	<0.5	<0.5	3.1	<0.5	<0.5		217363-004
GAC-02	2/24/2010	7.39	25.8	1933		966	<0.5	<0.5	<0.5	2.6	<0.5	<0.5		218482-014
GAC-02	5/18/2010	6.94	25.9	1859		926	<0.5	<0.5	<0.5	1.4	<0.5	<0.5		220306-003
GAC-02	8/19/2010	7.67	28.5	1817		908	<0.5	<0.5	<0.5		<0.5	<0.5		
GAC-02	8/19/2010	7.67	28.5	1817		908	<0.5	<0.5	<0.5		<0.5	<0.5		221992-018
GAC-02	12/2/2010						<0.5	<0.5	<0.5	3.3	<0.5	<0.5		224639-061
GAC-02	12/2/2010						<0.5	<0.5	<0.5	3.3	<0.5	<0.5		PGA SOUTH
GAC-02	2/9/2011	7.14	24.35	2327	0.42		<0.5	<0.5	<0.5	3.2	<0.5	<0.5		PGA SOUTH
GAC-02	5/10/2011	7.31	25.75	2408	1.82		<0.5	<0.5	<0.5	3.4	<0.5	<0.5		PGA SOUTH
GAC-02	8/5/2011	11.77	26.13	2363	1.31		<0.5	<0.5	<0.5	3.4	<0.5	<0.5		PGA SOUTH
GAC-02	11/11/2011	7.27	23.33	1760	0.93		<0.5	<0.5	<0.5	4.1	<0.5	<0.5	21	154540
GAC-02	2/8/2012	7.26	20.85	2134	1.19		<0.5	<0.5	<0.5	4.2	<0.5	<0.5	16	234302
GAC-02	5/9/2012	6.61	28.18	2119	1.23		<0.5	<0.5	<0.5	3.7	<0.5	<0.5		189044
GAC-02	8/8/2012	7.24	26.67	2149	2.88		<0.5	<0.5	<0.5	4.2	<0.5	<0.5		189044
GAC-02	11/6/2012	7.56	24.09	2005	1.54		<0.5	<0.5	<0.5	3.6	<0.5	<0.5		189044
GAC-02	2/7/2013	7.4	21.96	2609	2.18		<0.5	<0.5	<0.5	1.8	<0.5	<0.5	14	189044
GAC-02	5/7/2013	6.9	25.96	2678	10.8		<0.5	<0.5	<0.5	3.1	<0.5	<0.5	14	PGA South
GAC-02	8/7/2013	7.29	27.36	2859	9.23		<0.5	<0.5	<0.5	4.6	<0.5	<0.5	18	247736-002
GAC-02	11/5/2013	6.99	24.2	2540	5.67		<0.5	<0.5	<0.5	2.7	<0.5	<0.5	16	250555-003
GAC-02 Eff	9/13/1994						<0.2	< 1		<0.2	<0.2	<0.5		40936001
GAC-02 Eff	10/26/1994						<0.2	<0.2		<0.2	<0.2	<0.2		9410015556
GAC-02 Eff	11/1/1994						<0.2	<0.2		<0.2	<0.2	<0.2		9410016564

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
GAC-02 Eff	11/14/1994						<0.2	<0.2		<0.2	<0.2	<0.2		9410019124
GAC-02 Eff	11/29/1994						<0.2	<0.2		<0.2	<0.2	<0.2		9411021074
GAC-02 Eff	12/13/1994						<0.2	<0.2		<0.2	<0.2	<0.2		9412023854
GAC-02 Eff	12/27/1994						<0.2	<0.2		<0.2	<0.2	<0.2		9412026701
GAC-02 Eff	1/6/1995						<0.2	<0.2		<0.2	<0.2	<0.2		9501028671
GAC-02 Eff	2/6/1995						<0.2	<0.2		1.2	<0.2	<0.2		9502034741
GAC-02 Eff	3/3/1995						< 1	< 1		1.1	< 1	< 1		9502-4002-
GAC-02 Eff	3/10/1995						< 1	< 1		2.01	< 1	< 1		9503-4139-6
GAC-02 Eff	4/14/1995	7.48	26.1	2040		2040	< 1	< 1		5.2	< 1	< 1		9504-4822-2
GAC-02 Eff	5/17/1995	7.47	27	2000		1330	< 1	< 1		9	< 1	< 1		9505-5478-7
GAC-02 Eff	6/6/1995	7.62	27.2	2010		1370	< 1	< 1		10.3	< 1	< 1		9506-5732-1
GAC-02 Eff	7/6/1995	7.62	27.6	2060		1370	< 1	< 1		1.1	< 1	< 1		9507-06260-1
GAC-02 Eff	8/11/1995	7.66	27.4	2080		1400	< 1			3.4	< 1	< 1		9508-06941-7
GAC-02 Eff	9/8/1995	7.45	28.6	2040		1410	< 1	< 1		4.7	< 1	< 1		9509-07402-4
GAC-02 Eff	10/5/1995	7.49	27	2050		1370	< 1	< 1		7.6	< 1	< 1		9510-07900-4
GAC-02 Eff	11/14/1995	7.33	26.8	2030		1310	< 1	< 1		12.9	< 1	< 1		9511-08545-5
GAC-02 Eff	12/26/1995	7.55	25.9	2390		1670	< 1	< 1		< 1	< 1	< 1		9512-09221-20
GAC-02 Eff	1/16/1996	7.37	26	2190		1450	< 1	< 1		< 1	< 1	< 1		9601-00275-2
GAC-02 Eff	2/9/1996	7.15	28.8	2160		0	< 1	< 1		< 1	< 1	< 1		9602-00661-2
GAC-02 Eff	3/8/1996	7.43	27.1	2170		1450	< 1	< 1		< 1	< 1	< 1		9603-01159-4
GAC-02 Eff	4/9/1996	7.49	26.7	1990		1330	< 1	< 1		< 1	< 1	< 1		9604-01764-4
GAC-02 Eff	5/14/1996	7.4	27.9	2000		1340	< 1	< 1		< 1	< 1	< 1		9605-02432-2
GAC-02 Eff	6/6/1996	7.38	28	1980		1320	< 1	< 1		< 1	< 1	< 1		9606-02833-2
GAC-02 Eff	7/15/1996	7.52	28.7	1990		1450	< 1	< 1		4.6	< 1	< 1		9607-03554-6
GAC-02 Eff	8/16/1996	7.48	28.3	1960		1310	< 1	< 1		6.5	< 1	< 1		9608-04199-4
GAC-02 Eff	9/13/1996	7.48	28.8	1980		1360	< 1	< 1		11.1	< 1	< 1		9609-04717-1
GAC-02 Eff	10/4/1996	7.46	28.7	1970		1360	< 1	< 1		15	< 1	< 1		9610-05144-3
GAC-02 Eff	11/4/1996	7.26	26	1940		1310	< 1	< 1		18.1	< 1	< 1		9611-05675-4
GAC-02 Eff	12/10/1996	7.21	26.7	2060		1380	< 1	< 1		17.1	< 1	< 1		9612-06480-1
GAC-02 Eff	1/9/1997	7.21	26.2	2060		1750	< 1	< 1		22.4	< 1	< 1		9701-00271-3
GAC-02 Eff	2/10/1997	7.44	26.6	2050		0	< 1	< 1		< 1	< 1	< 1		9702-00937-3
GAC-02 Eff	3/6/1997	7.41	27	1410		940	< 1	< 1		< 1	< 1	< 1		9703-01479-3
GAC-02 Eff	4/7/1997	7.13	27.4	1380		920	< 1	< 1		< 1	< 1	< 1		9704-02127-3
GAC-02 Eff	5/9/1997	7.22	27.6	1380		920	< 1	< 1		< 1	< 1	< 1		9705-02889-6
GAC-02 Eff	6/10/1997	7.34	29	1600		1510	< 1	< 1		< 1	< 1	< 1		9706-03639-13
GAC-02 Eff	7/7/1997	7.49	28.5	1430		950	< 1	< 1		1.4	< 1	< 1		9707-04237-6
GAC-02 Eff	8/8/1997	7.39	27.8	1390		920	< 1	< 1		3.2	< 1	< 1		9708-05140-1
GAC-02 Eff	9/11/1997	7.42	27.3	1420		950	< 1	< 1		4.91	< 1	< 1		9709-05871-18
GAC-02 Eff	10/9/1997	7.36	27.1	1430		960	< 1	< 1		6	< 1	< 1		9710-06571-3
GAC-02 Eff	11/6/1997	7.19	27	1390		930	< 1	< 1		< 1	< 1	< 1		9711-07207-6
GAC-02 Eff	12/9/1997	7.12	24.6	1390		930	< 1	< 1		< 1	< 1	< 1		9712-07967-5
GAC-02 Eff	1/12/1998	7.14	25.6	1390		930	< 1	< 1		< 1	< 1	< 1		9801-00254-1
GAC-02 Eff	2/12/1998	7.29	26.6	1370		920	< 1	< 1		< 1	< 1	< 1		9802-01069-3
GAC-02 Eff	3/10/1998	7.32	27.1	1350		910	< 1	< 1		< 1	< 1	1.1		9803-01614-3
GAC-02 Eff	4/10/1998	7.12	27.4	1380		920	< 1	< 1		2.5	< 1	< 1		9804-02474-3
GAC-02 Eff	5/6/1998	7.19	27.3	1390		930	< 1	< 1		3.6	< 1	< 1		9805-03152-3
GAC-02 Eff	6/10/1998	7.08	27.5	1030		1550	< 1	< 1		5.1	< 1	< 1		9806-03991-3
GAC-02 Eff	7/9/1998	7.27	28.3	1410		940	< 1	< 1		< 1	< 1	< 1		9807-04743-6
GAC-02 Eff	8/10/1998	7.36	28.1	1270		850	< 1	< 1		< 1	< 1	< 1		9808-05542-1
GAC-02 Eff	9/12/1998	7.38	27.6	1320		890	< 1	< 1		< 1	< 1	< 1		9809-06400-7
GAC-02 Eff	10/10/1998	7.3	28.3	1370		920	< 1	< 1		< 1	< 1	0		9810-07135-3
GAC-02 Eff	11/10/1998	7.23	24.5	1450		970	< 1	< 1		< 1	< 1	< 1		9811-08185-3
GAC-02 Eff	12/10/1998	7.45	25.7	1370		920	< 1	< 1		< 1	< 1	< 1		9812-09040-003
GAC-02 Eff	1/7/1999	7.38	25.3	1360		910	< 1	< 1		< 1	< 1	< 1		9901-00233-03
GAC-02 Eff	2/11/1999	7.16	23.8	1410		940	< 1	< 1		< 1	< 1	< 1		9902-01433-03
GAC-02 Eff	3/10/1999	7.32	24.9	1410		950	< 1	< 1		1.8	< 1	< 1		9903-02392-003
GAC-02 Eff	4/9/1999	7.37	25.3	1380		920	< 1	< 1		1.6	< 1	< 1		9904-03361-01
GAC-02 Eff	5/10/1999	7.27	26.6	1290		860	< 1	< 1		2.2	< 1	< 1		9905-04269-01
GAC-02 Eff	6/9/1999	7.28	26.7	1290		860	< 1	< 1		2.7	< 1	< 1		9906-05238-03
GAC-02 Eff	7/12/1999	7.29	26.9	1310		880	< 1	< 1		2.5	< 1	< 1		9907-06192-003
GAC-02 Eff	8/10/1999	7.31	26.9	1320		880	< 1	< 1		2.8	< 1	< 1		9908-07278-003
GAC-02 Eff	9/13/1999	7.3	26.8	1290		860	< 1	< 1		< 1	< 1	< 1		9909-08258-005
GAC-02 Eff	10/8/1999	7.26	27.8	1300		870	< 1	< 1		< 1	< 1	< 1		9910-09178-003
GAC-02 Eff	11/10/1999	7.24	26.2	1330		890	< 1	< 1		< 1	< 1	< 1		9911-10331-006
GAC-02 Eff	12/8/1999	7.24	24.9	1350		900	< 1	< 1		< 1	< 1	< 1		9912-11043-004
GAC-02 Eff	1/10/2000	7.22	26.3	1290		870	< 1	< 1		< 1	< 1	< 1		0001-00301-006
GAC-02 Eff	2/8/2000	7.14	26.5	1300		870	< 1	< 1		< 1	< 1	< 1		0002-01344-006
GAC-02 Eff	3/7/2000	7.09	24.8	1340		890	< 1	< 1		< 1	< 1	< 1		0003-2088-006
GAC-02 Eff	4/11/2000	7.32	27.6	1340		900	< 1	< 1		< 1	< 1	< 1		0004-03322-003
GAC-02 Eff	5/10/2000	7.28	28.1	1350		900	< 1	< 1		< 1	< 1	< 1		0005-04330-006
GAC-02 Eff	6/9/2000	7.21	25.5	1390		930	< 1	< 1		1.3	< 1	< 1		0006-05131-001

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
GAC-02 Eff	7/10/2000	7.02	27.9	1360		910	< 1	< 1		2.2	< 1	< 1		0007-05952-003
GAC-02 Eff	8/11/2000	7.35	28.9	1450		970	< 1	< 1		1	< 1	< 1		0008-07186-005
GAC-02 Eff	9/11/2000	7.43	28.1	1400		940	< 1	< 1		2.8	< 1	< 1		0009-07995-003
GAC-02 Eff	10/10/2000	7.25	27.7	1400		940	< 1	< 1		< 1	< 1	< 1		0010-08886-003
GAC-02 Eff	11/15/2000	7.17	25	1410		940	< 1	< 1		< 1	< 1	< 1		0011-09900-003
GAC-02 Eff	12/8/2000	6.95	26	1370		920	< 1	< 1		< 1	< 1	< 1		0012-10488-004*
GAC-02 Eff	1/9/2001	7.17	24.8	1400		940	< 1	< 1		< 1	< 1	< 1		0101-00226-001
GAC-02 Eff	2/15/2001	7.12	25.9	1450		970	< 1	< 1		< 1	< 1	< 1		0102-01213-004
GAC-02 Eff	3/13/2001	7.21	26.2	1390		930	< 1	< 1		< 1	< 1	< 1		0103-01881-004
GAC-02 Eff	4/10/2001	7.08	24.9	1400		940	< 1	< 1		< 1	< 1	< 1		0104-02624-006
GAC-02 Eff	5/9/2001	7.17	27.2	1380		920	< 1	< 1		1.6	< 1	< 1		0105-03408-004
GAC-02 Eff	6/7/2001	7.2	26.7	1400		940	< 1	< 1		2	< 1	< 1		0106-04180-001
GAC-02 Eff	7/10/2001	7.21	28.1	1340		900	< 1	< 1		3.7	< 1	< 1		0107-04949-001
GAC-02 Eff	8/10/2001	7.22	28	1380		920	< 1	< 1		2.7	< 1	< 1		0108-05840-006
GAC-02 Eff	9/10/2001	7.22	27.9	1390		930	< 1	< 1		2.3	< 1	< 1		0109-06717-002
GAC-02 Eff	10/11/2001	7.23	27.5	1370		920	< 1	< 1		4.9	< 1	< 1		0110-07730-006
GAC-02 Eff	11/12/2001	7.27	26.7	1390		930	< 1	< 1		< 1	< 1	< 1		0111-08678-004
GAC-02 Eff	12/14/2001	7.18	25.4	1330		890	< 1	< 1		< 1	< 1	< 1		0112-09595-004
GAC-02 Eff	1/14/2002	7.16	25.7	1350		930	< 1	< 1		< 1	< 1	< 1		0201-00427-004
GAC-02 Eff	2/12/2002	7.07	25.8	1390		930	< 1	< 1		< 1	< 1	< 1		0202-01294-004
GAC-02 Eff	3/13/2002	7.13	25.1	1370		920	< 1	< 1		< 1	< 1	< 1		0203-02102-002
GAC-02 Eff	4/16/2002	7.2	28.1	1220		820	< 1	< 1		< 1	< 1	< 1		0204-03128-003
GAC-02 Eff	5/9/2002	7.2	27.3	1330		890	< 1	< 1		< 1	< 1	< 1		0205-03823-001
GAC-02 Eff	6/12/2002	7.19	28	1310		880	< 1	< 1		< 1	< 1	< 1		0206-04893-002
GAC-02 Eff	7/11/2002	7.09	27.8	1330		890	< 1	< 1		< 1	< 1	< 1		0207-05800-001
GAC-02 Eff	8/13/2002	7.23	27.7	1330		890	< 1	< 1		1.2	< 1	< 1		0208-06811-004
GAC-02 Eff	9/10/2002	7.16	28.1	1330		890	< 1	< 1		1.2	< 1	< 1		0209-07587-001
GAC-02 Eff	10/11/2002	7.15	27.9	1330		890	< 1	< 1		2	< 1	< 1		0210-08611-004
GAC-02 Eff	11/6/2002	7.06	26.9	1340		900	< 1	< 1		2	< 1	< 1		0211-09350-003
GAC-02 Eff	12/11/2002	7.03	26.2	1330		890	< 1	< 1		5.3	< 1	< 1		0212-10571-003
GAC-02 Eff	1/22/2003	7.16	26.1	1350		900	< 1	< 1		< 1	< 1	< 1		0301-00694-001
GAC-02 Eff	2/12/2003	7.11	26.1	1320		840	< 1	< 1		< 1	< 1	< 1		0302-01435-001
GAC-02 Eff	3/12/2003	7.18	26.4	1340		900	< 1	< 1	< 1	< 1	< 1	< 1		030302279008
GAC-02 Eff	4/11/2003	6.99	26.7	1300		870	< 1	< 1	< 1	< 1	< 1	< 1		030403290004
GAC-02 Eff	5/14/2003	6.93	27.4	1320		890	< 1	< 1	< 1	< 1	< 1	< 1		030504425004
GAC-02 Eff	6/13/2003	7.17	27.9	1300		870	< 1	< 1	< 1	< 1	< 1	< 1		030605405001
GAC-02 Eff	7/9/2003	7.17	27.9	1290		870	< 1	< 1	< 1	< 1	< 1	< 1		030706280004
GAC-02 Eff	8/15/2003	7.17	26.8	1270		850	< 1	< 1	< 1	< 1	< 1	< 1		030807651001
GAC-02 Eff	9/16/2003	7.18	28	1310		870	< 1	< 1	< 1	< 1	< 1	< 1		030908839004
GAC-02 Eff	10/15/2003	7.1	28.3	1290		870	< 1	< 1	< 1	< 1	< 1	< 1		031009963013
GAC-02 Eff	11/13/2003	7.49	25.9	1290		860	< 1	< 1	< 1	< 1	< 1	< 1		031111068004
GAC-02 Eff	12/10/2003	7.49	24.7	1330		890	< 1	< 1	< 1	< 1	< 1	< 1		031212090023
GAC-02 Eff	1/16/2004	7.06	24.3	1310		880	< 1	< 1	< 1	< 1	< 1	< 1		040100605001
GAC-02 Eff	2/11/2004	7.15	24.1	1330		890	< 1	< 1	< 1	< 1	< 1	< 1		040201599001
GAC-02 Eff	3/11/2004	7.33	27	1280		860	< 1	< 1	< 1	< 1	< 1	< 1		040302734003
GAC-02 Eff	4/16/2004	7.24	26.5	1190		790	< 1	< 1	< 1	< 1	< 1	< 1		040404165001
GAC-02 Eff	5/19/2004	7.13	27.6	1250		840	< 1	< 1	< 1	< 1	< 1	< 1		040505500001
GAC-02 Eff	7/23/2004	7.12	27.5	1260		850	< 1	< 1	< 1	0.85	< 1	< 1		040708258001
GAC-02 Eff	8/17/2004	7.07	28.2	1140		760	< 1	< 1	< 1	0.68	< 1	< 1		040809425001
GAC-02 Eff	9/10/2004	7.12	25.9	1280		860	< 1	< 1	< 1	0.84	< 1	< 1		040910453001
GAC-02 Eff	10/13/2004	7.12	28.3	1140		760	< 1	< 1	< 1	1.4	< 1	< 1		04101076-01D
GAC-02 Eff	11/11/2004	7.08	24.6	1220		810	< 1	< 1	< 1	1.7	< 1	< 1		04110939-01D
GAC-02 Eff	12/8/2004	7.17	23.8	1240		830	< 1	< 1	< 1	< 1	< 1	< 1		04120828-03D
GAC-02 Eff	1/12/2005	7.22	18.9	1250		850	< 1	< 1	< 1	< 1	< 1	< 1		05011033-05D
GAC-02 Eff	2/10/2005	7.23	22.2	1170		790	< 1	< 1	< 1	< 1	< 1	< 1		05021023-05D
GAC-02 Eff	3/9/2005	7.31	28	1060		710	< 1	< 1	< 1	< 1	< 1	< 1		05030895-18D
GAC-02 Eff	4/12/2005	7.34	28.9	1030		690	< 1	< 1	< 1	< 1	< 1	< 1		05041031-05D
GAC-02 Eff	5/11/2005	7.3	24.6	1140		760	< 1	< 1	< 1	< 1	< 1	< 1		05050902-05D
GAC-02 Eff	6/9/2005	7.27	29.2	1070		720	< 1	< 1	< 1	< 1	< 1	< 1		05060846-16D
GAC-02 Eff	7/11/2005	7.25	27.9	900		600	< 1	< 1	< 1	< 1	< 1	< 1		05070997-01D
GAC-02 Eff	8/10/2005	7.25	27.8	1070		720	< 1	< 1	< 1	< 1	< 1	< 1		05080907-06D
GAC-02 Eff	9/9/2005	7.19	29.2	1010		680	< 1	< 1	< 1	1.1	< 1	< 1		05090779-03D
GAC-02 Eff	10/11/2005	7.3	25	1160		770	< 1	< 1	< 1	1.6	< 1	< 1		05101155-01D
GAC-02 Eff	11/10/2005	7.19	24.7	1180		790	< 1	< 1	< 1	3.4	< 1	< 1		05111011-01D
GAC-02 Eff	12/7/2005	7.09	23.5	1200		800	< 1	< 1	< 1	3.7	< 1	< 1		05120894-04D
GAC-02 Eff	1/24/2006	7.14	24.8	1220		820	< 1	< 1	< 1	< 1	< 1	< 1		06011686-09D
GAC-02 Eff	2/13/2006	7.12	24.9	1210		810	< 1	< 1	< 1	< 1	< 1	< 1		06021236-01D
GAC-02 Eff	3/13/2006	6.97	20.9	1380		930	< 1	< 1	< 1	< 1	< 1	< 1		06031132-02D
GAC-02 Eff	4/11/2006	7	26.8	1190		800	< 1	< 1	< 1	< 1	< 1	< 1		06041030-03D
GAC-02 Eff	5/11/2006	6.9	25.6	1150		760	< 1	< 1	< 1	1.6	< 1	< 1		06050997-04D
GAC-02 Eff	6/8/2006	6.95	27.7	1210		810	< 1	< 1	< 1	1.8	< 1	< 1		06060404-06D

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
GAC-02 Eff	7/19/2006	7.1	28.2	1170		780	< 1	< 1	< 1	2.2	< 1	< 1		06070722-03D
GAC-02 Eff	8/14/2006	7.01	27.5	1090		730	< 1	< 1	< 1	2.5	< 1	< 1		06080585-02D
GAC-02 Eff	8/28/2006						< 1	< 1	< 1	3.1	< 1	< 1		06081077-01D
GAC-02 Eff	9/11/2006	7.23	25.5	1210		810	< 1	< 1	< 1	3.14	< 1	< 1		06090520-05D
GAC-02 Eff	10/9/2006	7.18	26.8	1240		830	< 1	< 1	< 1	2.74	< 1	< 1		06100597-01D
GAC-02 Eff	11/13/2006	7.29	22.9	1290		860	< 1	< 1	< 1	3.14	< 1	< 1		06110625-01D
GAC-02 Eff	12/12/2006	7.14	22.9	1400		940	< 1	< 1	< 1	3.57	< 1	< 1		06120441-10D
GAC-02 Eff	1/12/2007	7.18	19.2	1350		910	< 1	< 1	< 1	3.97	< 1	< 1		07010389-03D
GAC-02 Eff	2/12/2007	7.1	24.4	1260		840	< 1	< 1	< 1	3.83	< 1	< 1		07020516-02D
GAC-02 Eff	3/13/2007	7.28	22.5	1280		860	< 1	< 1	< 1	1.68	< 1	< 1		07030441-11D
GAC-02 Eff	4/11/2007	7.16	24.7	1270		850	< 1	< 1	< 1	1.94	< 1	< 1		07040678-01D
GAC-02 Eff	5/14/2007	7.08	27.7	1170		780	< 1	< 1	< 1	2.57	< 1	< 1		07050624-02D
GAC-02 Eff	6/14/2007	7.19	25.7	1290		860	< 1	< 1	< 1	2.71	< 1	< 1		07060543-01D
GAC-02 Eff	7/13/2007	7.1	27	1160		780	< 1	< 1	< 1	3.22	< 1	< 1		07070476-14D
GAC-02 Eff	8/8/2007	6.98	27	1150		770	< 1	< 1	< 1	3.68	< 1	< 1		07080415-02D
GAC-02 Eff	9/12/2007					800	< 1	< 1	< 1	3.98	< 1	< 1		07090478-05D
GAC-02 Eff	10/10/2007						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		198348-003
GAC-02 Eff	11/7/2007						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		199171-003
GAC-02 Eff	12/7/2007						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		199822-003
GAC-02 Eff	1/15/2008						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		200623-002
GAC-02 Eff	2/12/2008						<0.5	<0.5	<0.5	0.6	<0.5	<0.5		201202-002
GAC-02 Eff	3/13/2008						<0.5	<0.5	<0.5	1.1	<0.5	<0.5		201931005
GAC-02 Eff	4/17/2008						<0.5	<0.5	<0.5	1.7	<0.5	<0.5		202698-006
GAC-02 Eff	5/13/2008						<0.5	<0.5	<0.5	1.8	<0.5	<0.5		203270-003
GAC-02 Eff	6/16/2008						<0.5	<0.5	<0.5	2.7	<0.5	<0.5		204021-007
GAC-02 Eff	7/16/2008						<0.5	<0.5	<0.5	2.5	<0.5	<0.5		204674-007
GAC-02 Eff	8/20/2008	7.5	27.5	1829		923	<0.5	<0.5	<0.5	3.6	<0.5	<0.5		205469-007
GAC-02 Eff	9/11/2008						<0.5	<0.5	<0.5	4.4	<0.5	<0.5		206007-006
GAC-02 Eff	10/7/2008						<0.5	<0.5	<0.5	3.2	<0.5	<0.5		206689-005
GAC-02 Eff	11/21/2008						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		208077-008
GAC-02 Eff	12/17/2008	7.08	24.2	1852		925								209312-002
GAC-02 Eff	12/17/2008	6.6	24.5	1909		956	<0.5	<0.5	<0.5	2.1	<0.5	<0.5		208810-004
GAC-02 Eff	1/14/2009						<0.5	<0.5	<0.5	2.5	<0.5	<0.5		209312-002
GAC-02 Eff	2/19/2009						<0.5	<0.5	<0.5	2.5	<0.5	<0.5		210201-004
GAC-02 Eff	3/12/2009	7.54	23.1	1.913		0.956	<0.5	<0.5	<0.5	2.9	<0.5	<0.5		210629-006
GAC-02 Eff	4/14/2009	6.98	24.7	1893		947	<0.5	<0.5	<0.5	2.8	<0.5	<0.5		211506-006
GAC-02 Eff	5/27/2009						<0.5	<0.5	<0.5	2.5	<0.5	<0.5		212433-005
GAC-02 Eff	6/29/2009	7.63	26.8	1824		0.91	<0.5	<0.5	<0.5	2.9	<0.5	<0.5		213205-006
GAC-02 Eff	7/15/2009	7.16	26.8	1807		902	<0.5	<0.5	<0.5	2.6	<0.5	<0.5		213608-006
GAC-02 Eff	8/21/2009						<0.5	<0.5	<0.5	0.2	<0.5	<0.5		214383-004
GAC-02 Eff	9/16/2009						<0.5	<0.5	<0.5	0.3	<0.5	<0.5		215010-008
GAC-02 Eff	10/21/2009						<0.5	<0.5	<0.5	0.6	<0.5	<0.5		215908-009
GAC-02 Eff	11/18/2009	7.23	22.6	1811		902	<0.5	<0.5	<0.5	0.9	<0.5	<0.5		216662-006
GAC-02 Eff	12/2/2009	7.18	23.9	1895		944	<0.5	<0.5	<0.5	1	<0.5	<0.5		217016-004
GAC-02 Eff	1/13/2010						<0.5	<0.5	<0.5	1.7	<0.5	<0.5		217772-002
GAC-02 Eff	2/18/2010	7.03	23.8	1662		830	<0.5	<0.5	<0.5	1.6	<0.5	<0.5		218387-002
GAC-02 Eff	3/9/2010						<0.5	<0.5	<0.5	1.8	<0.5	<0.5		218712-008
GAC-02 Eff	4/14/2010						<0.5	<0.5	<0.5	2.2	<0.5	<0.5		219502-008
GAC-02 Eff	5/13/2010	7.3	23.2	1601		798	<0.5	<0.5	<0.5	2.5	<0.5	<0.5		220168-012
GAC-02 Eff	6/22/2010						<0.5	<0.5	<0.5	3.6	<0.5	<0.5		220905-006
GAC-02 Eff	7/15/2010	8.13	28.7	1551		774	<0.5	<0.5	<0.5	3.1	<0.5	<0.5		221286-006
GAC-02 Eff	8/18/2010	8.02	25.3	1598		799	<0.5	<0.5	<0.5	3.5	<0.5	<0.5		221992-014
GAC-02 Eff	10/20/2010						<0.5	<0.5	<0.5	4.2	<0.5	<0.5		223362-002
GAC-02 Eff	11/4/2010						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		223810-009
GAC-02 Eff	12/2/2010						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		224639-046
GAC-02 Eff	1/4/2011						0.5	0.5	0.5	3	0.5	0.5		PGA SOUTH
GAC-02 Eff	2/3/2011	7.26	21.44	2323	0.83		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		PGA SOUTH
GAC-02 Eff	3/1/2011						<0.5	<0.5	<0.5	0.2	<0.5	<0.5		PGA SOUTH
GAC-02 Eff	4/5/2011						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		PGA SOUTH
GAC-02 Eff	5/3/2011						<0.5	<0.5	<0.5	0.9	<0.5	<0.5		PGA SOUTH
GAC-02 Eff	6/2/2011						<0.5	<0.5	<0.5	1.3	<0.5	<0.5		PGA SOUTH
GAC-02 Eff	7/5/2011						<0.5	<0.5	<0.5	1.7	<0.5	<0.5		PGA SOUTH
GAC-02 Eff	8/1/2011						<0.5	<0.5	<0.5	2.2	<0.5	<0.5		PGA SOUTH
GAC-02 Eff	9/7/2011						<0.5	<0.5	<0.5	2.8	<0.5	<0.5		PGA SOUTH
GAC-02 Eff	10/5/2011						<0.5	<0.5	<0.5	3.2	<0.5	<0.5		154540
GAC-02 Eff	11/7/2011						<0.5	<0.5	<0.5	3.2	<0.5	<0.5		PGA SOUTH
GAC-02 Eff	12/7/2011						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		189044
GAC-02 Eff	1/3/2012	7.39	22.47	2271	1.96		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		189044
GAC-02 Eff	2/2/2012	7.29	21.43	2290	1.06		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	17	189044
GAC-02 Eff	3/1/2012						<0.5	<0.5	<0.5	0.2	<0.5	<0.5	13	189044
GAC-02 Eff	4/2/2012						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	12	189044

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
GAC-02 Eff	5/2/2012	7.19	21.93	1927	2.43		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	13	189044
GAC-02 Eff	6/4/2012	7.29	19.58	1856	0.9		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4	189044
GAC-02 Eff	7/2/2012	7.36	30.45	2031	0.29		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	12	189044
GAC-02 Eff	8/2/2012	7.74	27.06	1935	1.53		<0.5	<0.5	<0.5	0.2	<0.5	<0.5	11	189044
GAC-02 Eff	9/4/2012	7.38	25.6	2271	0.32		<0.5	<0.5	<0.5	0.3	<0.5	<0.5	9.3	189044
GAC-02 Eff	10/1/2012	7.29	25.8	2315	0.39		<0.5	<0.5	<0.5	0.4	<0.5	<0.5	10	189044
GAC-02 Eff	11/5/2012	7.63	21.53	1661	1.54		<0.5	<0.5	<0.5	0.6	<0.5	<0.5	11	189044
GAC-02 Eff	12/3/2012	7.17	21.06	2180	1.71		<0.5	<0.5	<0.5	0.7	<0.5	<0.5	11	189044
GAC-02 Eff	2/4/2013	7.08	17.69	2119	1.21		<0.5	<0.5	<0.5	0.9	<0.5	<0.5	11	189044
GAC-02 Eff	3/4/2013						<0.5	<0.5	<0.5	0.7	<0.5	<0.5	8.7	189044
GAC-02 Eff	4/1/2013						<0.5	<0.5	<0.5	1	<0.5	<0.5	10	189044
GAC-02 Eff	5/6/2013	6.87	22.69	2200	1.82		<0.5	<0.5	<0.5	1	<0.5	<0.5	11	PGA South
GAC-02 Eff	6/3/2013						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	63	39049-103
GAC-02 EFF	7/1/2013						< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	21	246655-004
GAC-02 EFF	8/7/2013						< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	14	247738-004
GAC-02 EFF	9/4/2013						< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	9.9	248701-004
GAC-02 EFF	10/2/2013						< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	12	249598-004
GAC-02 EFF	11/5/2013						< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.2 J	250558-004
GAC-02 EFF	12/2/2013						< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.2 J	251273-004
GAC-02 Inf	10/26/1994						<0.2	<0.2		36	<0.2	<0.2		9410015555
GAC-02 Inf	11/1/1994						<0.2	<0.2		42	<0.2	<0.2		9410016563
GAC-02 Inf	11/14/1994						<0.2	<0.2		31	<0.2	<0.2		9410019123
GAC-02 Inf	11/29/1994						<0.2	<0.2		35	<0.2	<0.2		9411021073
GAC-02 Inf	12/13/1994						<0.2	<0.2		34	<0.2	<0.2		9412023853
GAC-02 Inf	12/27/1994						<0.2	<0.2		36	<0.2	<0.2		9412026702
GAC-02 Inf	1/6/1995						<0.2	<0.2		39	<0.2	<0.02		9501028672
GAC-02 Inf	2/6/1995						<0.2	<0.2		29	<0.2			9502034742
GAC-02 Inf	3/3/1995						< 1	< 1		31.9	< 1	< 1		9502-4002-
GAC-02 Inf	3/10/1995						< 1	< 1		24.4	< 1	< 1		9503-4139-5
GAC-02 Inf	4/14/1995	7.56	26.4	2080		1390	< 1	< 1		20.7	< 1	< 1		9504-4822-1
GAC-02 Inf	5/17/1995	7.62	27	2050		1360	< 1	< 1		24.1	< 1	< 1		9505-5478-6
GAC-02 Inf	6/6/1995	7.73	28.5	2010		1340	< 1	< 1		21.1	< 1	< 1		9506-05740-7
GAC-02 Inf	7/6/1995	7.68	27.6	2030		1350	< 1	< 1		17.1	< 1	< 1		9507-06262-1
GAC-02 Inf	8/11/1995	7.58	27.2	2000		1350	< 1	< 1		17.5	< 1	< 1		9508-06941-6
GAC-02 Inf	9/8/1995	7.48	28.4	2040		1440	< 1	< 1		16.6	< 1	< 1		9509-07402-3
GAC-02 Inf	10/5/1995	7.69	27.9	2060		1380	< 1	< 1		15.8	< 1	< 1		9510-07900-3
GAC-02 Inf	11/14/1995	7.33	27.2	2030		1360	< 1	< 1		16.9	< 1	< 1		9511-08545-4
GAC-02 Inf	12/26/1995	7.55	26	2380		1680	< 1	< 1		13	< 1	< 1		9512-09221-19
GAC-02 Inf	1/16/1996	7.39	26.2	2200		1480	< 1	< 1		17.6	< 1	< 1		9601-00275-1
GAC-02 Inf	2/9/1996	7.12	26.8	2420		0	< 1	< 1		18.1	< 1	< 1		9602-00661-1
GAC-02 Inf	3/8/1996	7.51	27.4	2160		1440	< 1	< 1		14.3	< 1	< 1		9603-01159-3
GAC-02 Inf	4/9/1996	7.51	26.7	1980		1320	< 1	< 1		19.6	< 1	< 1		9604-01764-3
GAC-02 Inf	5/14/1996	7.43	27.5	1990		1320	< 1	< 1		16.3	< 1	< 1		9605-02432-1
GAC-02 Inf	6/6/1996	7.44	28.2	1980		1320	< 1	< 1		17.3	< 1	< 1		9606-02833-1
GAC-02 Inf	7/15/1996	7.67	30.3	2020		1540	< 1	< 1		24.1	< 1	< 1		9607-03554-5
GAC-02 Inf	8/16/1996	7.63	29.4	1970		1320	< 1	< 1		19.6	< 1	< 1		9608-04199-5
GAC-02 Inf	9/13/1996	7.52	28.4	2020		1390	< 1	< 1		15.6	< 1	< 1		9609-04717-2
GAC-02 Inf	10/4/1996	7.5	28.4	2010		1380	< 1	< 1		16.2	< 1	< 1		9610-05144-4
GAC-02 Inf	11/4/1996	7.51	26.3	2370		1320	< 1	< 1		11.6	< 1	< 1		9611-05675-3
GAC-02 Inf	12/10/1996	7.47	26.2	2000		1340	< 1	< 1		10.9	< 1	< 1		9612-06480-2
GAC-02 Inf	1/9/1997	7.49	25.5	2080		1690	< 1	< 1		12.5	< 1	< 1		9701-00271-4
GAC-02 Inf	2/10/1997	7.52	25.8	2040		0	< 1	< 1		13.1	< 1	< 1		9702-00937-4
GAC-02 Inf	3/6/1997	7.55	27.6	1410		950	< 1	< 1		11.4	< 1	< 1		9703-01479-4
GAC-02 Inf	4/7/1997	7.23	27.5	1420		950	< 1	< 1		15.5	< 1	< 1		9704-02127-4
GAC-02 Inf	5/9/1997	7.33	28	1370		920	< 1	< 1		11.5	< 1	< 1		9705-02889-7
GAC-02 Inf	6/10/1997	7.52	28.9	1520		1010	< 1	< 1		13.6	< 1	< 1		9706-03639-14
GAC-02 Inf	7/7/1997	7.57	28.4	1440		960	< 1	< 1		13.8	< 1	< 1		9707-04237-5
GAC-02 Inf	8/8/1997	7.5	28.3	1430		960	< 1	< 1		15	< 1	< 1		9708-05140-2
GAC-02 Inf	9/11/1997	7.43	27.4	1410		940	< 1	< 1		11.9	< 1	< 1		9709-05871-19
GAC-02 Inf	10/9/1997	7.56	26.8	1400		940	< 1	< 1		11.2	< 1	< 1		9710-06571-4
GAC-02 Inf	11/6/1997	7.6	26.8	1390		930	< 1	< 1		8.9	< 1	< 1		9711-07207-7
GAC-02 Inf	12/9/1997	7.46	23.8	1410		940	< 1	< 1		10.7	< 1	< 1		9712-07967-6
GAC-02 Inf	1/12/1998	7.48	25.3	1380		920	< 1	< 1		9	< 1	< 1		9801-00254-2
GAC-02 Inf	2/12/1998	7.7	26.4	1380		930	< 1	< 1		7.2	< 1	< 1		9802-01069-4
GAC-02 Inf	3/10/1998	7.6	27.1	1360		910	< 1	< 1		8.1	< 1	< 1		9803-01614-4
GAC-02 Inf	4/10/1998	7.54	27.2	1360		910	< 1	< 1		7.8	< 1	< 1		9804-02474-4
GAC-02 Inf	5/6/1998	7.51	27.7	1380		920	< 1	< 1		9.2	< 1	< 1		9805-03152-4
GAC-02 Inf	6/10/1998	7.34	27.7	1510		1010	< 1	< 1		7.3	< 1	< 1		9806-03991-4
GAC-02 Inf	7/9/1998	7.36	28.2	1380		920	< 1	< 1		7	< 1	< 1		9807-04743-7
GAC-02 Inf	8/10/1998	7.47	28.4	1270		850	< 1	< 1		9	< 1	< 1		9808-05542-2
GAC-02 Inf	9/12/1998	7.53	27.6	1320		880	< 1	< 1		9.4	< 1	< 1		9809-06400-8

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
GAC-02 Inf	10/10/1998	7.48	27.9	1340		900	< 1	< 1		7.7	< 1	< 1		9810-07135-4
GAC-02 Inf	11/10/1998	7.28	24.8	1440		960	1	< 1		6	< 1	< 1		9811-08185-4
GAC-02 Inf	12/10/1998	7.47	25.5	1360		910	< 1	< 1		6.8	< 1	< 1		9812-09040-004
GAC-02 Inf	1/7/1999	7.39	25.1	1350		900	< 1	< 1		6.2	< 1	< 1		9901-00233-04
GAC-02 Inf	2/11/1999	7.34	23.4	1450		970	< 1	< 1		3.3	< 1	< 1		9902-01433-04
GAC-02 Inf	3/10/1999	7.35	24.5	1440		960	< 1	< 1		5.5	< 1	< 1		9903-02392-004
GAC-02 Inf	4/9/1999	7.41	24.9	1380		920	< 1	< 1		5.3	< 1	< 1		9904-03361-02
GAC-02 Inf	5/10/1999	7.49	26.8	1310		880	< 1	< 1		6.3	< 1	< 1		9905-04269-02
GAC-02 Inf	6/9/1999	7.6	26.9	1320		880	< 1	< 1		6	< 1	< 1		9906-05238-04
GAC-02 Inf	7/12/1999	7.55	27.1	1280		860	< 1	< 1		5.8	< 1	< 1		9907-06192-004
GAC-02 Inf	8/10/1999	7.6	27	1250		840	< 1	< 1		4.9	< 1	< 1		9908-07278-004
GAC-02 Inf	9/13/1999	7.58	26.9	1290		870	< 1	< 1		5	< 1	< 1		9909-08258-006
GAC-02 Inf	10/8/1999	7.57	28.1	1320		880	< 1	< 1		< 1	< 1	< 1		9910-09178-004
GAC-02 Inf	11/10/1999	7.32	26.1	1310		880	< 1	< 1		7.1	< 1	< 1		9911-10331-007
GAC-02 Inf	12/8/1999	7.29	25.1	1330		890	< 1	< 1		4.8	< 1	< 1		9912-11043-005
GAC-02 Inf	1/10/2000	7.32	26.7	1300		870	< 1	< 1		5.6	< 1	< 1		0001-00301-007
GAC-02 Inf	2/8/2000	7.32	26.2	1300		870	< 1	< 1		6.3	< 1	< 1		0002-01344-007
GAC-02 Inf	3/7/2000	7.4	25	1330		890	< 1	< 1		4.6	< 1	< 1		0003-2088-007
GAC-02 Inf	4/11/2000	7.35	27.1	1330		890	< 1	< 1		4.2	< 1	< 1		0004-03322-004
GAC-02 Inf	5/10/2000	7.36	27.6	1310		880	< 1	< 1		5.2	< 1	< 1		0005-04330-007
GAC-02 Inf	6/9/2000	7.32	25.6	1390		930	< 1	< 1		6	< 1	< 1		0006-05131-002
GAC-02 Inf	7/10/2000	7.21	27.6	1340		900	< 1	< 1		5.5	< 1	< 1		0007-05952-004
GAC-02 Inf	8/11/2000	7.45	28.8	1430		960	< 1	< 1		8.9	< 1	< 1		0008-07186-004
GAC-02 Inf	9/11/2000	7.51	28	1380		930	< 1	< 1		7.9	< 1	< 1		0009-07995-004
GAC-02 Inf	10/10/2000	7.14	27.8	1390		930	< 1	< 1		7	< 1	< 1		0010-08886-004
GAC-02 Inf	11/15/2000	7.21	25	1400		940	< 1	< 1		7.1	< 1	< 1		0011-09900-004
GAC-02 Inf	12/8/2000	6.95	26	1380		920	< 1	< 1		7.1	< 1	< 1		0012-10488-005*
GAC-02 Inf	1/9/2001	7.27	25.3	1390		930	< 1	< 1		6.7	< 1	< 1		0101-00226-002
GAC-02 Inf	2/15/2001	7.14	25.8	1430		970	< 1	< 1		19.4	< 1	< 1		0102-01213-005
GAC-02 Inf	3/13/2001	7.29	26	1380		930	< 1	< 1		8.9	< 1	< 1		0103-01881-005
GAC-02 Inf	4/10/2001	7.3	24	1410		940	< 1	< 1		8.3	< 1	< 1		0104-02624-007
GAC-02 Inf	5/9/2001	7.35	27	1380		920	< 1	< 1		6.6	< 1	< 1		0105-03408-005
GAC-02 Inf	6/7/2001	7.31	26.1	1400		940	< 1	< 1		6.9	< 1	< 1		0106-04180-002
GAC-02 Inf	7/10/2001	7.32	27.8	1370		920	< 1	< 1		7.8	< 1	< 1		0107-04949-002
GAC-02 Inf	8/10/2001	7.4	27.8	1330		880	< 1	< 1		4.7	< 1	< 1		0108-05840-007
GAC-02 Inf	9/10/2001	7.41	27.5	1380		930	< 1	< 1		3.8	< 1	< 1		0109-06717-003
GAC-02 Inf	10/11/2001	7.41	27.1	1380		930	< 1	< 1		6.2	< 1	< 1		0110-07730-007
GAC-02 Inf	11/12/2001	7.24	27.2	1380		930	< 1	< 1		5.8	< 1	< 1		0111-08678-005
GAC-02 Inf	12/14/2001	7.26	25.9	1350		910	< 1	< 1		6.8	< 1	< 1		0112-09595-005
GAC-02 Inf	1/14/2002	7.23	26.5	1380		920	< 1	< 1		6.6	< 1	< 1		0201-00427-005
GAC-02 Inf	2/12/2002	7.2	25.5	1370		920	< 1	< 1		6.7	< 1	< 1		0202-01294-005
GAC-02 Inf	3/13/2002	7.36	26	1390		930	< 1	< 1		5.9	< 1	< 1		0203-02102-003
GAC-02 Inf	4/16/2002	7.28	27.3	1350		900	< 1	< 1		7.4	< 1	< 1		0204-03128-004
GAC-02 Inf	5/9/2002	7.34	26.9	1360		910	< 1	< 1		7.8	< 1	< 1		0205-03823-002
GAC-02 Inf	6/12/2002	7.34	27.6	1330		890	< 1	< 1		3.9	< 1	< 1		0206-04893-003
GAC-02 Inf	7/11/2002	7.24	27.4	1330		890	< 1	< 1		3	< 1	< 1		0207-05800-002
GAC-02 Inf	8/13/2002	7.28	27.8	1350		900	< 1	< 1		6.8	< 1	< 1		0208-06811-005
GAC-02 Inf	9/10/2002	7.26	28	1340		900	< 1	< 1		6.1	< 1	< 1		0209-07587-002
GAC-02 Inf	10/11/2002	7.25	27.3	1340		900	< 1	< 1		7.2	< 1	< 1		0210-08611-005
GAC-02 Inf	11/6/2002	7.04	26.6	1350		900	< 1	< 1		6.8	< 1	< 1		0211-09350-004
GAC-02 Inf	12/11/2002	7	26.1	1330		890	< 1	< 1		16.4	< 1	< 1		0212-10571-004
GAC-02 Inf	1/22/2003	7.21	26.3	1310		880	< 1	< 1		8.5	< 1	< 1		0301-00694-002
GAC-02 Inf	2/12/2003	7.23	26.3	1330		890	< 1	< 1		8.2	< 1	< 1		0302-01435-002
GAC-02 Inf	3/12/2003	7.2	26.3	1320		890	< 1	< 1	< 1	9.7	< 1	< 1		030302279009
GAC-02 Inf	4/11/2003	7.15	26.7	1300		870	< 1	< 1	< 1	7	< 1	< 1		030403290005
GAC-02 Inf	5/14/2003	7.21	26.9	1320		880	< 1	< 1	< 1	5.9	< 1	< 1		030504425005
GAC-02 Inf	6/13/2003	7.31	28.2	1300		870	< 1	< 1	< 1	7.6	< 1	< 1		030605405002
GAC-02 Inf	7/9/2003	7.19	27.8	1230		820	< 1	< 1	< 1	6.6	< 1	< 1		030706280005
GAC-02 Inf	8/15/2003	7.36	27	1300		870	< 1	< 1	< 1	6.5	< 1	< 1		030807651002
GAC-02 Inf	9/16/2003	7.24	27.9	1300		870	< 1	< 1	< 1	8.4	< 1	< 1		030908839003
GAC-02 Inf	10/15/2003	7.29	27.4	1300		870	< 1	< 1	< 1	9	< 1	< 1		031009963014
GAC-02 Inf	11/13/2003	7.38	25.5	1320		880	< 1	< 1	< 1	6.3	< 1	< 1		031111068005
GAC-02 Inf	12/10/2003	7.55	24.5	1360		910	< 1	< 1	< 1	5.5	< 1	< 1		031212090024
GAC-02 Inf	1/16/2004	7.38	24.3	1320		880	< 1	< 1	< 1	6.2	< 1	< 1		040100605002
GAC-02 Inf	2/11/2004	7.39	24.4	1360		910	< 1	< 1	< 1	6.9	< 1	< 1		040201599002
GAC-02 Inf	3/11/2004	7.44	26.4	1280		860	< 1	< 1	< 1	4.7	< 1	< 1		040302734004
GAC-02 Inf	4/16/2004	7.39	26	1240		820	< 1	< 1	< 1	4.4	< 1	< 1		040404165002
GAC-02 Inf	5/19/2004	7.39	27.5	1270		850	< 1	< 1	< 1	4.6	< 1	< 1		040505500002
GAC-02 Inf	7/23/2004	7.4	27.6	1250		840	< 1	< 1	< 1	4	< 1	< 1		040708258002
GAC-02 Inf	8/17/2004	7.32	29	1240		830	< 1	< 1	< 1	4	< 1	< 1		040809425002
GAC-02 Inf	9/10/2004	7.4	25.7	1280		860	< 1	< 1	< 1	3.7	< 1	< 1		040910453002

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
GAC-02 Inf	10/13/2004	7.23	27.6	1230		820	< 1	< 1	< 1	3.6	< 1	< 1		04101076-02D
GAC-02 Inf	11/11/2004	7.24	25	1160		770	< 1	< 1	< 1	4	< 1	< 1		04110939-02D
GAC-02 Inf	12/8/2004	7.26	24.1	1210		810	< 1	< 1	< 1	4.4	< 1	< 1		04120828-04D
GAC-02 Inf	1/12/2005	7.3	18	1330		890	< 1	< 1	< 1	4.2	< 1	< 1		05011033-06D
GAC-02 Inf	2/10/2005	7.33	22.6	1170		790	< 1	< 1	< 1	4.7	< 1	< 1		05021023-06D
GAC-02 Inf	3/9/2005	7.32	27	1110		740	< 1	< 1	< 1	3.9	< 1	< 1		05030895-19D
GAC-02 Inf	4/12/2005	7.28	27.5	1090		730	< 1	< 1	< 1	4.7	< 1	< 1		05041031-06D
GAC-02 Inf	5/11/2005	7.29	24.4	1180		790	< 1	< 1	< 1	< 1	< 1	< 1		05050902-06D
GAC-02 Inf	6/9/2005	7.33	27.8	1080		720	< 1	< 1	< 1	4.3	< 1	< 1		05060846-17D
GAC-02 Inf	7/11/2005	7.27	28.1	970		640	< 1	< 1	< 1	4.27	< 1	< 1		05070997-02D
GAC-02 Inf	8/10/2005	7.29	27.9	1080		720	< 1	< 1	< 1	3.5	< 1	< 1		05080907-07D
GAC-02 Inf	9/9/2005	7.25	29.5	1050		700	< 1	< 1	< 1	3.9	< 1	< 1		05090779-04D
GAC-02 Inf	10/11/2005	7.31	24.6	1180		790	< 1	< 1	< 1	4.4	< 1	< 1		05101155-02D
GAC-02 Inf	11/10/2005	7.14	24.6	1170		780	< 1	< 1	< 1	4.6	< 1	< 1		05111011-02D
GAC-02 Inf	12/7/2005	6.91	24.7	1190		790	< 1	< 1	< 1	4.6	< 1	< 1		05120894-03D
GAC-02 Inf	1/24/2006	6.99	23.9	1180		790	< 1	< 1	< 1	4.1	< 1	< 1		06011686-08D
GAC-02 Inf	2/13/2006	7.02	24	1190		790	< 1	< 1	< 1	< 1	< 1	< 1		06021236-02D
GAC-02 Inf	3/13/2006	6.86	20.3	1370		920	< 1	< 1	< 1	3.9	< 1	< 1		06031132-03D
GAC-02 Inf	4/11/2006	6.98	25.8	1250		840	< 1	< 1	< 1	< 1	< 1	< 1		06041030-04D
GAC-02 Inf	5/11/2006	7.03	25.1	1240		830	< 1	< 1	< 1	3.5	< 1	< 1		06050997-05D
GAC-02 Inf	6/8/2006	7.08	27.1	1200		800	< 1	< 1	< 1	3.3	< 1	< 1		06060404-07D
GAC-02 Inf	7/19/2006	7.11	27.3	1200		810	< 1	< 1	< 1	3.6	< 1	< 1		06070722-04D
GAC-02 Inf	8/14/2006	7.07	27.5	1100		740	< 1	< 1	< 1	4	< 1	< 1		06080585-03D
GAC-02 Inf	8/28/2006						< 1	< 1	< 1	4.1	< 1	< 1		06081077-02D
GAC-02 Inf	9/11/2006	7.27	25.3	1310		870	< 1	< 1	< 1	3.59	< 1	< 1		06090520-06D
GAC-02 Inf	10/9/2006	7.18	26.9	1240		840	< 1	< 1	< 1	3.18	< 1	< 1		06100597-02D
GAC-02 Inf	11/13/2006	7.2	22.9	1260		850	< 1	< 1	< 1	3.86	< 1	< 1		06110625-02D
GAC-02 Inf	12/12/2006	7.26	22.6	1370		920	< 1	< 1	< 1	3.52	< 1	< 1		06120441-11D
GAC-02 Inf	1/12/2007	7.21	19.7	1320		880	< 1	< 1	< 1	4.26	< 1	< 1		07010389-04D
GAC-02 Inf	2/12/2007	7.35	24.3	1280		850	< 1	< 1	< 1	3.77	< 1	< 1		07020516-03D
GAC-02 Inf	3/13/2007	7.32	22.1	1290		870	< 1	< 1	< 1	4.52	< 1	< 1		07030441-12D
GAC-02 Inf	4/11/2007	7.13	24.8	1240		830	< 1	< 1	< 1	4.17	< 1	< 1		07040678-02D
GAC-02 Inf	5/14/2007	6.85	26.5	1220		820	< 1	< 1	< 1	4.05	< 1	< 1		07050624-03D
GAC-02 Inf	6/14/2007	7.11	25.7	1240		830	< 1	< 1	< 1	3.81	< 1	< 1		07060543-02D
GAC-02 Inf	7/13/2007	7.09	27.2	1210		810	< 1	< 1	< 1	3.67	< 1	< 1		07070476-15D
GAC-02 Inf	8/8/2007	6.96	27.2	1190		800	< 1	< 1	< 1	4.03	< 1	< 1		07080415-03D
GAC-02 Inf	9/12/2007					820	< 1	< 1	< 1	4.33	< 1	< 1		07090478-06D
GAC-02 Inf	10/10/2007						<0.5	<0.5	<0.5	3.3	<0.5	<0.5		198348-002
GAC-02 Inf	11/7/2007						<0.5	<0.5	<0.5	3.4	<0.5	<0.5		199171-002
GAC-02 Inf	12/7/2007						<0.5	<0.5	<0.5	3.4	<0.5	<0.5		199822-002
GAC-02 Inf	1/15/2008						<0.5	<0.5	<0.5	3.4	<0.5	<0.5		200623-001
GAC-02 Inf	2/12/2008						<0.5	<0.5	<0.5	3	<0.5	<0.5		201202-001
GAC-02 Inf	3/13/2008						<0.5	<0.5	<0.5	3.5	<0.5	<0.5		201931004
GAC-02 Inf	4/17/2008						<0.5	<0.5	<0.5	2.8	<0.5	<0.5		202698-005
GAC-02 Inf	5/13/2008						<0.5	<0.5	<0.5	1.7	<0.5	<0.5		203270-002
GAC-02 Inf	6/16/2008						<0.5	<0.5	<0.5	2.4	<0.5	<0.5		204021-006
GAC-02 Inf	7/16/2008						<0.5	<0.5	<0.5	2	<0.5	<0.5		204674-006
GAC-02 Inf	8/20/2008						<0.5	<0.5	<0.5	3.5	<0.5	<0.5		205469-006
GAC-02 Inf	9/11/2008						<0.5	<0.5	<0.5	4.2	<0.5	<0.5		206007-005
GAC-02 Inf	10/7/2008						<0.5	<0.5	<0.5	3.1	<0.5	<0.5		206689-004
GAC-02 Inf	11/21/2008						<0.5	<0.5	<0.5	2.7	<0.5	<0.5		208077-007
GAC-02 Inf	12/17/2008	7.1	24	1895		947								209312-001
GAC-02 Inf	12/17/2008	6.47	24.2	1900		951	<0.5	<0.5	<0.5	3.4	<0.5	<0.5		208810-003
GAC-02 Inf	1/14/2009						<0.5	<0.5	<0.5	2.6	<0.5	<0.5		209312-001
GAC-02 Inf	2/19/2009						<0.5	<0.5	<0.5	2.7	<0.5	<0.5		210201-003
GAC-02 Inf	3/12/2009	7.19	23	2.02		0.956	<0.5	<0.5	<0.5	2.8	<0.5	<0.5		210629-005
GAC-02 Inf	4/14/2009	6.94	24.7	1894		948	<0.5	<0.5	<0.5	2.8	<0.5	<0.5		211506-005
GAC-02 Inf	5/27/2009						<0.5	<0.5	<0.5	2.8	<0.5	<0.5		212433-004
GAC-02 Inf	6/29/2009	7.53	26.4	1822		0.916	<0.5	<0.5	<0.5	2.7	<0.5	<0.5		213205-005
GAC-02 Inf	7/15/2009	7.16	26.6	1798		906	<0.5	<0.5	<0.5	2.4	<0.5	<0.5		213608-005
GAC-02 Inf	8/21/2009						<0.5	<0.5	<0.5	2.9	<0.5	<0.5		214383-003
GAC-02 Inf	9/16/2009						<0.5	<0.5	<0.5	3.3	<0.5	<0.5		215010-007
GAC-02 Inf	10/21/2009						<0.5	<0.5	<0.5	3.1	<0.5	<0.5		215908-008
GAC-02 Inf	11/18/2009	6.98	21.7	1813		910	<0.5	<0.5	<0.5	2.6	<0.5	<0.5		216662-005
GAC-02 Inf	12/2/2009	7.06	23.9	1906		955	<0.5	<0.5	<0.5	2.7	<0.5	<0.5		217016-003
GAC-02 Inf	1/13/2010						<0.5	<0.5	<0.5	3.4	<0.5	<0.5		217772-001
GAC-02 Inf	2/18/2010	6.52	23.7	1656		829	<0.5	<0.5	<0.5	2.9	<0.5	<0.5		218387-001
GAC-02 Inf	3/9/2010						<0.5	<0.5	<0.5	3	<0.5	<0.5		218712-007
GAC-02 Inf	4/14/2010						<0.5	<0.5	<0.5	3	<0.5	<0.5		219502-007
GAC-02 Inf	5/13/2010	7.1	23.7	1621		808	<0.5	<0.5	<0.5	3.1	<0.5	<0.5		220168-011
GAC-02 Inf	6/22/2010						<0.5	<0.5	<0.5	3.4	<0.5	<0.5		220905-005

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
GAC-02 Inf	7/15/2010	7.6	26.8	1571		785	<0.5	<0.5	<0.5	2.7	<0.5	<0.5		221286-005
GAC-02 Inf	8/18/2010	7.74	26.2	1636		818	<0.5	<0.5	<0.5	2.9	<0.5	<0.5		221992-013
GAC-02 Inf	10/20/2010						<0.5	<0.5	<0.5	3.1	<0.5	<0.5		223362-001
GAC-02 Inf	11/4/2010						<0.5	<0.5	<0.5	2.8	<0.5	<0.5		223810-008
GAC-02 Inf	12/2/2010						<0.5	<0.5	<0.5	3.1	<0.5	<0.5		224639-045
GAC-02 Inf	2/3/2011	7.45	19.85	2256	0.68		<0.5	<0.5	<0.5	2.9	<0.5	<0.5		PGA SOUTH
GAC-02 Inf	3/1/2011						<0.5	<0.5	<0.5	2.7	<0.5	<0.5		PGA SOUTH
GAC-02 Inf	4/5/2011						<0.5	<0.5	<0.5	3	<0.5	<0.5		PGA SOUTH
GAC-02 Inf	5/3/2011						<0.5	<0.5	<0.5	2.9	<0.5	<0.5		PGA SOUTH
GAC-02 Inf	6/2/2011						<0.5	<0.5	<0.5	3	<0.5	<0.5		PGA SOUTH
GAC-02 Inf	7/5/2011						<0.5	<0.5	<0.5	3	<0.5	<0.5		PGA SOUTH
GAC-02 Inf	8/1/2011						<0.5	<0.5	<0.5	2.7	<0.5	<0.5		PGA SOUTH
GAC-02 Inf	9/7/2011						<0.5	<0.5	<0.5	3.1	<0.5	<0.5		PGA SOUTH
GAC-02 Inf	10/5/2011						<0.5	<0.5	<0.5	3	<0.5	<0.5		154540
GAC-02 Inf	11/7/2011						<0.5	<0.5	<0.5	3	<0.5	<0.5		PGA SOUTH
GAC-02 Inf	12/7/2011						<0.5	<0.5	<0.5	3.3	<0.5	<0.5		189044
GAC-02 Inf	1/3/2012	7.49	22.64	2307	1.11		<0.5	<0.5	<0.5	2.7	<0.5	<0.5		189044
GAC-02 Inf	2/2/2012	7.32	21.82	2275	1.06		<0.5	<0.5	<0.5	3	<0.5	<0.5	11	189044
GAC-02 Inf	2/29/2012						<0.5	<0.5	<0.5	3.3	<0.5	<0.5	11	189044
GAC-02 Inf	3/1/2012						<0.5	<0.5	<0.5	3.3	<0.5	<0.5	11	189044
GAC-02 Inf	4/2/2012						<0.5	<0.5	<0.5	2.8	<0.5	<0.5	11	189044
GAC-02 Inf	5/2/2012	7.19	21.44	1843	1.59		<0.5	<0.5	<0.5	3.1	<0.5	<0.5	11	189044
GAC-02 Inf	6/4/2012	7.23	20.23	1845	0.92		<0.5	<0.5	<0.5	3.3	<0.5	<0.5	11	189044
GAC-02 Inf	7/2/2012	6.89	25.86	1885	0.53		<0.5	<0.5	<0.5	3.4	<0.5	<0.5	9.2	189044
GAC-02 Inf	8/2/2012	7.49	25.86	1937	0.66		<0.5	<0.5	<0.5	3.2	<0.5	<0.5	11	189044
GAC-02 Inf	9/4/2012	7.06	26	2304	5.99		<0.5	<0.5	<0.5	3.2	<0.5	<0.5	10	189044
GAC-02 Inf	10/1/2012	7.3	26.06	2372	1.12		<0.5	<0.5	<0.5	3.2	<0.5	<0.5	10	189044
GAC-02 Inf	11/5/2012	7.6	21.6	1696	7.06		<0.5	<0.5	<0.5	2.9	<0.5	<0.5	10	189044
GAC-02 Inf	12/3/2012	7.25	20.83	2194	0.92		<0.5	<0.5	<0.5	3.4	<0.5	<0.5	11	189044
GAC-02 Inf	2/4/2013	7.28	20.08	2268	2.43		<0.5	<0.5	<0.5	3	<0.5	<0.5	11	189044
GAC-02 Inf	3/4/2013						<0.5	<0.5	<0.5	2.9	<0.5	<0.5	11	189044
GAC-02 Inf	4/1/2013						<0.5	<0.5	<0.5	3.1	<0.5	<0.5	10	189044
GAC-02 Inf	5/6/2013	6.86	22.59	2248	1.1		<0.5	<0.5	<0.5	3.1	<0.5	<0.5	11	PGA South
GAC-02 Inf	6/3/2013						<0.5	<0.5	<0.5	3.6	<0.5	<0.5	11	39049-103
GAC-02 INF	7/1/2013						< 0.5	< 0.5	< 0.5	2.7 J	< 0.5	< 0.5	11	246655-003
GAC-02 INF	8/7/2013						< 0.5	< 0.5	< 0.5	3.0	< 0.5	< 0.5	12	247738-003
GAC-02 INF	9/4/2013						< 0.5	< 0.5	< 0.5	3.5 J	< 0.5	< 0.5	8.8	248701-003
GAC-02 INF	10/2/2013						< 0.5	< 0.5	< 0.5	3.3	< 0.5	< 0.5	14	249598-003
GAC-02 INF	11/5/2013						< 0.5	< 0.5	< 0.5	2.7	< 0.5	< 0.5	21	250558-003
GAC-02 INF	12/2/2013						< 0.5	< 0.5	< 0.5	3.7	< 0.5	< 0.5	13	251273-003
GAC-03	3/24/1982									49.9				
GAC-03	4/23/1982									33.1				
GAC-03	7/15/1982									14.7				
GAC-03	7/30/1982									4.63				
GAC-03	9/2/1982									9.5			30	VERSAR
GAC-03	10/27/1982									9.3				
GAC-03	6/15/1983									7.3			81	ATL
GAC-03	6/16/1983									14				
GAC-03	4/12/1984									52				
GAC-03	8/3/1984									110				
GAC-03	10/24/1984									52			354	ENSECO-CA
GAC-03	10/25/1984									27				ENSECO-CA
GAC-03	4/10/1986									47.6			170	ETC
GAC-03	12/11/1986									54				RMAL
GAC-03	3/26/1987									101			160	ATL
GAC-03	6/24/1987									21.2			180	ATL
GAC-03	10/5/1987									49			180	ATL
GAC-03	1/12/1988									43			100	ATL
GAC-03	5/7/1992						<0.2	<0.2		23.9	<0.2	<0.2		205638
GAC-03	5/20/1992						1.9	<0.2		17	<0.2	<0.2		205906
GAC-03	6/22/1995	7.24	27.3	1990		1333	< 1	< 1		26.8	< 1	< 1		9506-06046-9
GAC-03	9/25/1995	7.2	27.9	1930		1280	< 1	< 1		20.3	< 1	< 1		9509-07704-3
GAC-03	12/26/1995	7.07	25.1	2420		1380	< 1	< 1		12.2	< 1	< 1		9512-09221-13
GAC-03	6/27/1996	7.27	28.4	2040		1360	< 1	< 1		33.4	< 1	< 1		9606-03238-9
GAC-03	12/30/1996	7.1	26.1	1890		1350	< 1	< 1		16.3	< 1	< 1		9612-06716-2
GAC-03	3/24/1997												79	9703-01820-7
GAC-03	6/19/1997	7.11	27.1	1440		960	< 1	< 1		31	< 1	< 1	94	9706-03832-21
GAC-03	9/24/1997	7.37	26.7	1260		850	< 1	< 1		23.4	< 1	< 1	58	9709-06208-22
GAC-03	12/4/1997						2	< 1		1.6	< 1	12.7		9712-07851-1
GAC-03	1/13/1998	7.22	25.8	1260		840	< 1	< 1		12.1	< 1	< 1	61	9801-00272-1
GAC-03	9/15/1998	7.25	28.7	1270		850	< 1	< 1		15.6	< 1	< 1		9809-06485-2

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
GAC-03	2/9/1999	7.17	26.8	1220		810	< 1	< 1		5.6	< 1	< 1		9902-01334-16
GAC-03	7/29/1999	7.03	28.5	1370		920	< 1	< 1		27.7	< 1	< 1		9907-06851-002
GAC-03	2/8/2000	7.22	26.1	1240		830	< 1	< 1		11.5	< 1	< 1		0002-01344-003
GAC-03	4/4/2000	7.03	26.7	1280		860	< 1	< 1		10	< 1	< 1		0004-03089-001
GAC-03	7/26/2000	7.23	27.9	1420		950	< 1	< 1		21.8	< 1	< 1		0007-06600-004
GAC-03	10/16/2000	7.21	25.5	1370		920	< 1	< 1		19.6	< 1	< 1		0010-09068-001
GAC-03	1/25/2001	7.05	26.5	1310		880	< 1	< 1		10.2	< 1	< 1		0101-00696-004
GAC-03	4/18/2001	7.12	27.9	1360		910	< 1	< 1		22.4	< 1	< 1		0104-02938-001
GAC-03	8/21/2001	7.1	27	1440		960	< 1	< 1		21	< 1	< 1		0108-06145-003
GAC-03	11/16/2001	7.17	27.3	1390		920	< 1	< 1		20.1	< 1	< 1		0111-08851-001
GAC-03	1/24/2002	7.16	25.7	1370		920	< 1	< 1		17.1	< 1	< 1		0201-00709-001
GAC-03	5/22/2002	7.15	27.7	1380		920	< 1	< 1		25.1	< 1	< 1		0205-04201-001
GAC-03	9/19/2002	7.15	27.9	1302		870	< 1	< 1		29	< 1	< 1		0209-07897-012
GAC-03	10/30/2002	7.16	25.6	1320		880	< 1	< 1		22.4	< 1	< 1		0210-09104-003
GAC-03	3/13/2003	7.12	27.8	1280		850	< 1	< 1	< 1	12.7	< 1	< 1		030302316001
GAC-03	6/24/2003	7.09	28.1	1370		920	< 1	< 1	< 1	36.1	< 1	< 1		030605833003
GAC-03	9/17/2003	7.05	27.2	1360		910	< 1	< 1	< 1	37.7	< 1	< 1		030908952001
GAC-03	12/8/2003	7.35	24.1	1250		840	< 1	< 1	< 1	21.6	< 1	< 1		031212090003
GAC-03	2/18/2004	7.12	22.3	1370		920	< 1	< 1	< 1	12	< 1	< 1		040201839014
GAC-03	4/22/2004	7.12	27.6	1300		870	< 1	< 1	< 1	19	< 1	< 1		040404468002
GAC-03	9/21/2004	7.2	28	1300		870	< 1	< 1	< 1	30	< 1	< 1		040911070003
GAC-03	12/14/2004	7.13	25.2	1310		870	< 1	< 1	< 1	18	< 1	< 1		04121090-01D
GAC-03	1/21/2005	6.95	24.7	1380		930	< 1	< 1	< 1	20	< 1	< 1		05011295-03D
GAC-03	6/10/2005	7.14	26.3	1370		920	< 1	< 1	< 1	25	< 1	< 1		05060846-21D
GAC-03	9/14/2005	7.05	29.3	1180		790	< 1	< 1	< 1	32	< 1	< 1		05091113-02D
GAC-03	12/7/2005	6.8	22.1	1440		970	< 1	< 1	< 1	29	< 1	< 1		05120894-01D
GAC-03	3/16/2006	6.96	23.2	1490		1000	< 1	< 1	< 1	26	< 1	< 1		06031366-01D
GAC-03	6/13/2006	7.03	29.3	1220		820	< 1	< 1	< 1	39	< 1	< 1		06060615-01D
GAC-03	9/14/2006	7.04	28.2	1360		910	< 1	< 1	< 1	29.96	< 1	< 1		06090740-03D
GAC-03	11/15/2006	7.06	26.1	1410		940	< 1	< 1	< 1	24.05	< 1	< 1		06110625-09D
GAC-03	3/14/2007	7.2	27.7	1370		920	< 1	< 1	< 1	34.33	< 1	< 1		07030679-01
GAC-03	5/23/2007	6.73	25	1620		1080	< 1	< 1	< 1	34.55	< 1	< 1		07050912-05
GAC-03	8/20/2007	6.9	28	1510		1010	< 1	< 1	< 1	38.9	< 1	< 1		07080915-01D
GAC-03	10/10/2007	7.24												198348-010
GAC-03	10/10/2007		26.9	2450		1220	0.5	<0.5	<0.5	36	<0.5	0.1		198348-013
GAC-03	1/15/2008						0.2	<0.5	<0.5	14	<0.5	<0.5		200619-004
GAC-03	4/30/2008						0.4	<0.5	<0.5	34	<0.5	<0.5		202978-004
GAC-03	8/12/2008						0.4	<0.5	<0.5	33	<0.5	0.2		205259-001
GAC-03	11/18/2008	6.69	26.6	2390		1180	0.2	<0.5	<0.5	17	<0.5	0.2		208075-007
GAC-03	2/18/2009	6.91	25.4	2350		1.17	0.1	<0.5	<0.5	11	<0.5	<0.5		210200-009
GAC-03	5/27/2009	6.92	27.5	2350		1.18	0.1	<0.5	<0.5	16	<0.5	0.2		212433-001
GAC-03	8/24/2009	7.06	26.8	2580		1.28	0.3	<0.5	<0.5	24	<0.5	0.3		214393-014
GAC-03	12/17/2009	6.36	26.9	1983		989	0.2	<0.5	<0.5	14	<0.5	0.3		217363-003
GAC-03	2/24/2010	6.49	26.2	1923		960	<0.5	<0.5	<0.5	6.1	<0.5	<0.5		218482-010
GAC-03	2/24/2010	6.49	26.2	1923		960	<0.5	<0.5	<0.5	6.2	<0.5	<0.5		218482-011
GAC-03	5/18/2010	6.88	26.4	1901		946	0.3	<0.5	<0.5	16	<0.5	0.2		220306-002
GAC-03	8/19/2010	7.64	29.8	1789		900	0.6	<0.5	<0.5	25	<0.5	0.4		221992-019
GAC-03	12/2/2010						0.2	<0.5	<0.5	16	<0.5	0.3		224639-059
GAC-03	2/9/2011	7.04	23.58	2191	9.19		<0.5	<0.5	<0.5	9.9	<0.5	0.2		PGA SOUTH
GAC-03	5/10/2011	6.94	26.02	2363	10.9		<0.5	<0.5	<0.5	31	<0.5	0.7		PGA SOUTH
GAC-03	8/8/2011	6.47	33.83	2172	114		<0.5	<0.5	<0.5	27	<0.5	0.7		PGA SOUTH
GAC-03	11/11/2011	6.96	24.01	1704	8.75		<0.5	<0.5	<0.5	18	<0.5	0.6	58	154540
GAC-03	2/8/2012	7.08	21.09	2053	9.91		0.4	<0.5	<0.5	22	<0.5	0.8	62	234302
GAC-03	5/9/2012	6.52	31.46	2050	6.43		<0.5	<0.5	<0.5	21	<0.5	0.9		189044
GAC-03	8/8/2012	7.06	28.06	2268	7.67		0.3	<0.5	<0.5	25	<0.5	1.2		189044
GAC-03	11/6/2012	7.47	23.62	1865	11.7		0.2	<0.5	<0.5	15	<0.5	0.8		189044
GAC-03	2/7/2013	7.07	21.08	2407	20.6		<0.5	<0.5	<0.5	11	<0.5	0.6	58	189044
GAC-03	5/7/2013	6.75	25.23	2496	21.9		0.2	<0.5	<0.5	19	<0.5	1.1	76	PGA South
GAC-03	8/7/2013	6.96	27.29	2794	14.8		0.4 J	<0.5	<0.5	33	<0.5	2.2	130	247736-003
GAC-03	11/5/2013	6.88	22.4	2327	8.59		0.4 J	<0.5	<0.5	22	<0.5	1.4	84	250555-005
GAC-04	11/5/1981									0.5				
GAC-04	12/9/1981									1				
GAC-04	12/10/1981									2.1				
GAC-04	12/11/1981									0.5				
GAC-04	3/24/1982									0.5				
GAC-04	6/15/1983									6.6				ATL
GAC-04	6/16/1983									12				
GAC-04	7/15/1983									4.2				
GAC-04	7/16/1983									5.8				
GAC-04	1/16/1984									5.9				
GAC-04	4/12/1984									5				

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
GAC-04	5/21/1984									9.7				
GAC-04	5/31/1984									6.7				
GAC-04	6/27/1984									8.1				
GAC-04	8/3/1984									11				
GAC-04	9/7/1984									5.4				
GAC-04	10/2/1984									11				
GAC-04	10/24/1984									10				ENSECO-CA
GAC-04	10/25/1984									5				ENSECO-CA
GAC-04	12/19/1984									5.7				
GAC-04	1/25/1985									6.9				
GAC-04	2/21/1985									8.3				
GAC-04	5/24/1985									11				ETC
GAC-04	6/21/1985									12				
GAC-04	10/16/1985									43				
GAC-04	11/26/1985									18				
GAC-04	12/20/1985									18				
GAC-04	2/5/1986									20				
GAC-04	4/10/1986									45				ETC
GAC-04	12/11/1986									28				RMAL
GAC-04	3/26/1987									92				ATL
GAC-04	6/24/1987									63				
GAC-04	10/5/1987									85				
GAC-04	1/11/1988									23				
GAC-04	1/12/1988									26				
GAC-04	1/25/1988									12				
GAC-04	1/26/1988									10				
GAC-04	1/27/1988									9.5				
GAC-04	8/4/1992						<0.2	<0.2		10.2	<0.2	<0.2		208540
GAC-04	11/20/1992	7.26	25.5	2200		1480	<0.2	<0.2		6.1	<0.2	<0.2		211844
GAC-04	12/3/1992	7.3	24.9	2310		1540	<0.2	<0.2		9.9	<0.2	<0.2		212580
GAC-04	12/18/1992	7.32	25.5	2330		1550	<0.2	<0.2		2.7	<0.2	<0.2		212907
GAC-04	12/31/1992	7.3	25.5	2240		1490	<0.2	<0.2		2.6	<0.2	<0.2		212030
GAC-04	1/12/1993	7.34	25.4	1940		1290	<0.2	<0.2		1.1	<0.2	<0.2		30163801
GAC-04	3/12/1993	7.5	26.1	2150		1430	<0.2	<0.2		0.3	<0.2	<0.2		30375805
GAC-04	4/2/1993	7.27	26.6	2330		1550	<0.2	<0.2		<0.2	<0.2	0.3		30453502
GAC-04	4/14/1993	7.29	26.3	2340		1500	<0.2	<0.2		0.4	<0.2	<0.2		30473102
GAC-04	4/28/1993	7.38	26.4	2280		1520	<0.2	<0.2		0.6	<0.2	<0.2		30497701
GAC-04	5/27/1993	7.25	27	2320		1550	<0.2	<0.2		1.2	<0.2	<0.2		30593101
GAC-04	6/11/1993	7.2	26.7	2410		1600	<0.2	<0.2		6	<0.2	<0.2		30671901
GAC-04	7/9/1993	7.54	29.6	3320		2200	<0.2	<0.2		17	<0.2	<0.2		30762803
GAC-04	7/30/1993	7.22	28.1	2110		1400	<0.2	0.4		22	<0.2	<0.2		30854502
GAC-04	8/13/1993	7.27	27.8	2220		1480	<0.2	<0.2		22	<0.2	<0.2		30872602
GAC-04	8/25/1993	7.25	26.8	2240		1520	<0.2	<0.2		5.6	<0.2	<0.2		30892302
GAC-04	9/9/1993						<0.2	<0.2		8.8	<0.2	<0.2		30996402
GAC-04	9/9/1993						<0.2	<0.2		2.7	<0.2	<0.2		30963302
GAC-04	10/9/1993						<0.2	<0.2		2.1	<0.2	<0.2		31070914
GAC-04	10/21/1993						<0.2	<0.2		3.6	<0.2	<0.2		31095202
GAC-04	11/4/1993	7.29	26.2	2210			<0.2	<0.2		2.1	<0.2	<0.2		31164108
GAC-04	11/19/1993	7.59	26.2	2280			<0.2	<0.2		2.6	<0.2	<0.2		31198202
GAC-04	12/1/1993						<0.2	<0.2		2.6	<0.2	<0.2		31253002
GAC-04	12/20/1993	7.27	24.9	2410		1610	<0.2	<0.2		2.8	<0.2	<0.2		31214701
GAC-04	1/5/1994	6.93	23.1	2180		1450	<0.2	<0.2		5.7	<0.2	<0.2		40158602
GAC-04	1/21/1994	7.08	26.7	2120		1410	<0.2	<0.2		5.3	<0.2	<0.2		40192003
GAC-04	2/4/1994						<0.2	<0.2		3.9	<0.2	0.4		40262803
GAC-04	2/19/1994						<0.2	<0.2		2.4	<0.2	<0.2		40299401
GAC-04	3/3/1994						<0.2	<0.2		2.2	<0.2	<0.2		40363002
GAC-04	3/18/1994						<0.2	<0.2		3.8	<0.2	<0.2		40393302
GAC-04	4/1/1994						<0.2	<0.2		6	<0.2	<0.2		40452611
GAC-04	4/15/1994						<0.2	<0.2		3	<0.2	<0.2		40484801
GAC-04	4/28/1994						<0.2	<0.2		3.6	<0.2	<0.2		40411004
GAC-04	5/10/1994						<0.2	0.3		2	<0.2	<0.2		40574403
GAC-04	5/27/1994						<0.2	<0.2		5.2	<0.2	<0.2		40511005
GAC-04	7/14/1994						<0.2	<0.5		11	<0.2	<0.2		40776015
GAC-04	7/29/1994						<0.2	<0.2		3.6	<0.2	<0.2		40706203
GAC-04	8/12/1994						<0.2	<0.2		2.7	<0.2	<0.2		40881601
GAC-04	8/26/1994	7.05	28.6	1880		1250	<0.2	<0.2		12	<0.2	<0.2		40804806
GAC-04	9/9/1994						<0.2	<0.2		2.9	<0.2	<0.2		40964710
GAC-04	9/26/1994						<0.2	<0.2		2.8	<0.2	<0.2		40993603
GAC-04	10/7/1994						<0.2	<0.2		3.6	<0.2	<0.2		41059801
GAC-04	10/28/1994						<0.2	<0.2		3.1	<0.2	<0.2		9410016583
GAC-04	11/11/1994						<0.2	<0.2		2.6	<0.2	<0.2		9411019133

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
GAC-04	11/29/1994						<0.2	<0.2		2	<0.2	<0.2		9411021075
GAC-04	12/22/1994						<0.2	<0.2		<0.2	<0.2	<0.2		9412026722
GAC-04	1/10/1995						<0.2	<0.2		1.5	<0.2	<0.2		9501029236
GAC-04	2/9/1995						<0.2	<0.2		<0.2	<0.2	<0.2		9502035682
GAC-04	3/31/1995						< 1	< 1		1.9	< 1	< 1		9503-4544-1
GAC-04	4/13/1995	7.26	26.7	2300		1540	< 1	< 1		1.8	< 1	< 1		9504-4786-12
GAC-04	5/16/1995	7.32	26.7	2380		1590	< 1	< 1		2	< 1	< 1		9505-5400-10
GAC-04	6/6/1995	7.31	27.4	2380		1590	< 1	< 1		2.5	< 1	< 1		9506-05740-6
GAC-04	7/12/1995	7.42	28.2	2380		1580	< 1	< 1		8.3	< 1	< 1		9507-06450-01
GAC-04	11/2/1995	7.2	27.9	2400		1760	< 1	< 1		2.2	< 1	< 1		9511-08349-1
GAC-04	2/7/2006	6.75	21.2	1530		1030	< 1	< 1	< 1	74	< 1	< 1		06020769-01D
GAC-04	2/7/2006	6.93	22	1510		1010	< 1	< 1	< 1	47	< 1	< 1		06020769-02D
GAC-04	2/7/2006	6.8	22.7	1480		980	< 1	< 1	< 1	46	< 1	< 1		06020769-03D
GAC-04	7/5/2007												18.1	07070162-01B
GAC-04	7/5/2007						< 1	< 1	< 1	85.93	< 1	< 1		07070162-01D
GAC-04	12/14/2007												14	PQL0956-01
GAC-04	12/14/2007						< 5	< 2	< 2	55	< 2	< 2		PQL0987-01
GAC-04	12/20/2007												15	PQL1251-01
GAC-04	12/20/2007						< 5	< 2	< 2	39	< 2	< 2		PQL1282-01
GAC-04	12/27/2007												17	PQL1410-01
GAC-04	12/27/2007						< 5	< 2	< 2	30	< 2	< 2		PQL1452-01
GAC-04	1/16/2008						< 5	< 2	< 2	56	< 2	< 2	24	PRA1085-04
GAC-04	1/16/2008						< 5	< 2	< 2	12	< 2	< 2	< 10	PRA1085-01
GAC-04	1/16/2008						< 5	< 2	< 2	17	< 2	< 2	< 10	PRA1085-02
GAC-04	1/16/2008						< 5	< 2	< 2	57	< 2	< 2	34	PRA1085-05
GAC-04	1/16/2008						< 5	< 2	< 2	61	< 2	< 2	59	PRA1085-07
GAC-04	1/16/2008						< 5	< 2	< 2	30	< 2	< 2	< 10	PRA1085-03
GAC-04	1/16/2008						< 5	< 2	< 2	60	< 2	< 2	36	PRA1085-06
GAC-04	4/28/2008						< 5	< 2	< 2	61	< 2	< 2	24	PRD171101
GAC-04	5/9/2008						< 5	< 2	< 2	9	< 2	< 2	< 10	PRE053601
GAC-04	6/19/2008						< 5	< 2	< 2	11	< 2	< 2	< 10	PRF116501
GAC-04	6/26/2008						< 1	< 1	< 1	9.7	< 1	< 1	< 10	PRF147401
GAC-04	7/11/2008						< 1	< 1	< 1	11	< 1	< 1	< 10	PRG073901
GAC-04	8/21/2008						< 1	< 1	< 1	9.5	< 1	< 1	< 10	PRH1299-01
GAC-04	9/11/2008													PRI0715-01
GAC-04	9/15/2008												< 10	PRI0715-01
GAC-04	9/23/2008						< 1	< 1	< 1	9.7	< 1	< 1		PRI0715-01
GAC-04	10/7/2008													PRJ0371-01
GAC-04	10/8/2008												< 10	PRJ0371-01
GAC-04	10/21/2008						< 1	< 1	< 1	7.6	< 1	< 1		PRJ0371-01
GAC-04	11/24/2008													PRK1248-01
GAC-04	11/25/2008						< 1	< 1	< 1	7.7	< 1	< 1	< 10	PRK1248-01
GAC-04	12/31/2008	6.93	24.7	2733		1360	< 1	< 1	< 1	5.2	< 1	< 1	< 10	PRL1446-01
GAC-04	1/14/2009						< 1	< 1	< 1	5.4	< 1	< 1	< 10	PSA0538-01
GAC-04	2/19/2009	7.09	26	2750		1.37	<0.23	<0.22	<0.18	4.8	<0.22	<0.23	5.2	PSB1078-01
GAC-04	2/20/2009													PSB1159-01
GAC-04	2/23/2009												4.8	PSB1226-01
GAC-04	3/2/2009						< 1	< 1	< 1	4.7	< 1	< 1	3.5	PSC0020-01
GAC-04	4/2/2009						< 1	< 1	< 1	24	< 1	< 1	5.3	PSD0132-01
GAC-04	4/8/2009						1	1	1	6.5	1	1	4	PSD0454-01
GAC-04	4/22/2009						< 1	< 1	< 1	5	< 1	< 1	5.3	PSD1249-01
GAC-04	5/6/2009						< 1	< 1	< 1	3.8	< 1	< 1	8.4	PSE0291-01
GAC-04	6/11/2009						< 5	< 2	< 2	4.9	< 2	< 2	< 10	PSF0748-01
GAC-04	7/7/2009						< 1	< 1	< 1	7	< 1	< 1	< 10	PSG0306-01
GAC-04	8/21/2009						< 1	< 1	< 1	6.7	< 1	< 1	< 10	PSH1192-01
GAC-04	9/15/2009													PSI0837-01
GAC-04	9/17/2009												< 10	PSI0837-01
GAC-04	9/21/2009						< 1	< 1	< 1	6.5	< 1	< 1		PSI0837-01
GAC-04	10/6/2009						< 1	< 1	< 1	6.6	< 1	< 1	5	PSJ0287-01
GAC-04	11/5/2009						< 1	< 1	< 1	4.2	< 1	< 1	6.6	PSK0301-01
GAC-04	12/3/2009	6.26	25.6	2920		1.43	< 1	< 1	< 1	4.1	< 1	0.25	< 10	PSL0222-01
GAC-04	1/7/2010						< 1	< 1	< 1	4	< 1	< 1	< 10	PTA0294-01
GAC-04	2/11/2010						< 1	< 1	< 1	1.9	< 1	< 1	< 10	PTB0763-01
GAC-04	3/8/2010													PTC0418-01
GAC-04	3/9/2010						< 1	< 1	< 1	< 1	< 1	< 1	< 10	PTC0418-01
GAC-04	4/1/2010						< 1	< 1	< 1	2.4	< 1	< 1		PTD0116-01
GAC-04	4/29/2010						0.28	< 1	< 1	31	< 1	< 1		PTD1655-01
GAC-04	4/30/2010						< 1	< 1	< 1	11	< 1	< 1		PTD1725-01
GAC-04	5/6/2010						< 1	< 1	< 1	3.5	< 1	< 1		PTE0368-01
GAC-04	6/1/2010													PTF0043-01
GAC-04	6/2/2010						< 1	< 1	< 1	3.8	< 1	< 1		PTF0043-01

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
GAC-04	6/8/2010												< 10	PTF0043-01
GAC-04	6/24/2010						< 1	< 1	< 1	5.2	< 1	< 1		PTF1386-03
GAC-04	7/1/2010						< 1	< 1	< 1	7.2	< 1	< 1	<0.01	PTG0032-01
GAC-04	8/2/2010						< 1	< 1	< 1	6.1	< 1	< 1	<0.01	PTH0036-01
GAC-04	9/1/2010						< 1	< 1	< 1	6.6	< 1	< 1	0.0047	PTI0047-01
GAC-04	10/20/2010						<0.23	<0.22	<0.18	4.8	<0.22	<0.23	0.014	154540 / PGAS
GAC-04	11/4/2010						< 1	< 1	< 1	3.2	< 1	< 1	<0.01	154540 / PGAS
GAC-04	12/8/2010						<0.23	<0.22	<0.18	3.1	<0.22	<0.23	0.044	154540 PGAS
GAC-04	1/10/2011						<0.23	<0.22	<0.18	0.33	<0.22	<0.23	0.048	154540 PGAS
GAC-04	1/11/2011						<0.23	<0.22	<0.18	0.78	<0.22	<0.23	<0.01	PGAS 154540
GAC-04	1/17/2011						< 1	< 1	< 1	3.2	< 1	< 1	<0.01	PGAS
GAC-04	2/3/2011	7.29	20.91	2979	0.94		< 1	< 1	< 1	< 1	< 1	< 1	<0.01	PGAS 154540
GAC-04	3/1/2011						<0.23	<0.22	<0.18	0.37	<0.22	<0.23	<0.01	PGAS 154540
GAC-04	4/4/2011						<0.23	<0.22	<0.18	2.8	<0.22	<0.23	<0.01	154540 PGA-S
GAC-04	5/3/2011						<0.23	<0.22	<0.18	17	<0.22	<0.23	<0.01	PGA-S 184022 oofs03
GAC-04	6/2/2011						< 1	< 1	< 1	5.1	< 1	< 1	<0.01	PGA-5 184022
GAC-04	8/9/2011						0.7	<1.7	<1.7	100	<1.7	<1.7		PGA SOUTH
GAC-04	8/10/2011						0.3	<0.5	<0.5	57	<0.5	0.1	18	PGA SOUTH
GAC-04	8/16/2011						0.2	<0.5	<0.5	27	<0.5	<0.5		PGA SOUTH
GAC-04	11/7/2011	7.14	23.18	1699	2.73		< 1	< 1	< 1	4.2	< 1	< 1	<0.01	154540 12304
GAC-04	1/24/2012	6.35	22.37	2845	330		0.6	<0.5	<0.5	92	<0.5	0.1	39	189044
GAC-04	1/25/2012	7.26	24.31	2714	14		<0.5	<0.5	<0.5	16	<0.5	<0.5	6.4	189044
GAC-04	2/1/2012	7.17	24.03	2746	1.19		<0.5	<0.5	<0.5	7.9	<0.5	<0.5	5	189044
GAC-04	2/2/2012	7.06	25.22	2994	0.45		<0.5	<0.5	<0.5	7.5	<0.5	<0.5	5.7	189044
GMW-01	5/21/1985												130	ETC
GMW-01	4/10/1986												29	ETC
GMW-01	3/20/1987												100	ATL
GMW-01	6/23/1987												41	ATL
GMW-01	9/28/1987												51	ATL
GMW-01	1/11/1988												100	ATL
GMW-01	8/26/1992	7.44	28	1680		1120	<0.2	<0.2		<0.2	<0.2	<0.2		208966
GMW-01	1/28/1993	7.64	25.2	1450		970	<0.2	<0.2		<0.2	<0.2	<0.2		30190701
GMW-01	1/29/1993	7.64	25.2	1450		970	<0.2	<0.2		<0.2	<0.2	<0.2		30190703
GMW-01	3/28/1994						<0.2	<0.2		13	<0.2	<0.2		40452601
GMW-01	7/13/1994	7.27	28.2	1630		1090	<0.2	<0.5		15	<0.2	<0.2		40776011
GMW-01	1/30/1995	7.87	26.7	1720		1160	<0.2	<0.2		6	<0.2	<0.2		9501032594
GMW-01	4/10/1995	7.62	27.1	1810		1210	< 1	< 1		< 1	< 1	< 1		9504-4786-4
GMW-01	5/15/1995	7.78	27.2	1830		1210	< 1	< 1		< 1	< 1	< 1		9505-5400-5
GMW-01	5/15/1995	7.78	27.2	1830		1210	< 1	< 1		< 1	< 1	< 1		9505-5400-3
GMW-01	6/5/1995	7.73	28.4	1720		1437	< 1	< 1		< 1	< 1	< 1		9506-05740-3
GMW-01	7/13/1995	7.82	28.5	1790		1190	< 1	< 1		< 1	< 1	< 1		9507-06450-04
GMW-01	8/8/1995	7.7	28.8	1690		1140	< 1	< 1		< 1	< 1	< 1		9508-06941-12
GMW-01	9/8/1995	7.59	28.3	1690		1130	< 1	< 1		< 1	< 1	< 1		9509-07402-11
GMW-01	10/26/1995	7.56	26.8	1710		1140	< 1	< 1		< 1	< 1	< 1		9510-08288-6
GMW-01	12/12/1995	7.41	26.4	1650		1120	< 1	< 1		< 1	< 1	< 1		9512-09012-9
GMW-01	3/22/1996	7.43	28	1630		1090	< 1	< 1		< 1	< 1	< 1		9603-01453-1
GMW-01	6/13/1996	7.56	28.2	1680		1120	< 1	< 1		< 1	< 1	< 1		9606-02981-3
GMW-01	9/19/1996	7.48	28.5	1740		1170	< 1	< 1		< 1	< 1	< 1		9609-04824-3
GMW-01	12/18/1996	7.48	26.2	1800		1200	< 1	< 1		< 1	< 1	< 1		9612-06602-7
GMW-01	2/24/1997	7.48	27	1810			< 1	< 1		< 1	< 1	< 1		9702-01250-3
GMW-01	5/30/1997	7.5	28.4	1210		810	< 1	< 1		< 1	< 1	< 1	9	9706-03357-4
GMW-01	9/17/1997	7.6	28	1200		800	<0.5	<0.5		<0.5	<0.5	<0.5		9709-06025-10
GMW-01	10/16/1997												11	9710-06746-3
GMW-01	11/25/1997	7.44	26.9	1200		800	< 1	< 1		< 1	< 1	< 1	15	9711-07631-3
GMW-01	2/3/1998	7.49	27.1	1190		800	< 1	< 1		< 1	< 1	< 1	10	9802-00879-2
GMW-01	5/7/1998	7.35	27	1160		780	< 1	< 1		< 1	< 1	< 1		9805-03178-5
GMW-01	5/7/1998	7.35	27	1160		780	< 1	< 1		< 1	< 1	< 1		9805-03178-3
GMW-01	8/28/1998	7.45	27.9	1190		800	< 1	< 1		< 1	< 1	< 1		9808-06040-1
GMW-01	10/30/1998	7.37	21.1	1230		830	< 1	< 1		< 1	< 1	< 1		9811-07838-19
GMW-01	2/12/1999	7.59	26.2	1210		810	< 1	< 1		< 1	< 1	< 1		9902-01472-02
GMW-01	4/15/1999	7.45	27.8	1190		790	< 1	< 1		< 1	< 1	< 1		9904-03550-02
GMW-01	7/27/1999	7.41	27.7	1210		800	< 1	< 1		< 1	< 1	< 1		9907-06764-002
GMW-01	10/19/1999	7.49	27.3	1220		820	< 1	< 1		< 1	< 1	< 1		9910-09616-009
GMW-01	1/18/2000	7.23	27.1	1200		810	< 1	< 1		< 1	< 1	< 1		0001-00605-007
GMW-01	4/4/2000	7.48	27.7	1220		830	< 1	< 1		< 1	< 1	< 1		0004-03089-009
GMW-01	4/4/2000	7.48	27.7	1220		830	< 1	< 1		< 1	< 1	< 1		0004-03089-005
GMW-01	7/21/2000	7.54	28.2	1270		840	< 1	< 1		< 1	< 1	< 1		0007-06410-014
GMW-01	10/17/2000	7.36	27.3	1300		800	< 1	< 1		< 1	< 1	< 1		0010-09139-003
GMW-01	2/6/2001	7.38	27.5	1270		850	< 1	< 1		< 1	< 1	< 1		0102-00985-006
GMW-01	4/19/2001	7.55	27.4	1310		880	< 1	< 1		< 1	< 1	< 1		0104-02938-006

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
GMW-01	9/20/2001	7.49	28.7	1370		880	< 1	< 1		< 1	< 1	< 1		0109-07024-003
GMW-01	11/16/2001	7.55	26.8	1300		880								0111-08927-008
GMW-01	11/20/2001						< 1	< 1		< 1	< 1	< 1		0111-08927-008
GMW-01	2/6/2002	7.49	26.6	1250		850	< 1	< 1		< 1	< 1	< 1		0202-01089-001
GMW-01	6/14/2002	7.57	27.8	1310		880	< 1	< 1		< 1	< 1	< 1		0206-04956-006
GMW-01	9/11/2002	7.56	27.9	1330		890	< 1	< 1		< 1	< 1	< 1		0209-07641-001
GMW-01	10/25/2002	7.41	27.4	1310		880	< 1	< 1		< 1	< 1	< 1		0210-09002-016
GMW-01	3/19/2003	7.29	27.9	1310		880	< 1	< 1	< 1	< 1	< 1	< 1		030302542001
GMW-01	6/25/2003	7.4	27.8	1300		870	< 1	< 1	< 1	< 1	< 1	< 1		030605833006
GMW-01	9/18/2003	7.41	27.2	1280		860	< 1	< 1	< 1	< 1	< 1	< 1		030908952008
GMW-01	12/8/2003	7.69	24.4	1350		910	< 1	< 1	< 1	< 1	< 1	< 1		031212090005
GMW-01	2/24/2004	7.67	24.4	1350		910	< 1	< 1	< 1	< 1	< 1	< 1		040202114005
GMW-01	2/24/2004	7.67	24.4	1350		910	< 1	< 1	< 1	< 1	< 1	< 1		040202114004
GMW-01	4/23/2004	7.53	27.7	1250		840	< 1	< 1	< 1	< 1	< 1	< 1		040404468007
GMW-01	9/23/2004	7.35	28.7	1120		740	< 1	< 1	< 1	< 1	< 1	< 1		040911070008
GMW-01	12/21/2004	7.32	23.2	1290		860	< 1	< 1	< 1	< 1	< 1	< 1		04121265-06D
GMW-01	3/9/2005	7.53	26.9	1200		800	< 1	< 1	< 1	< 1	< 1	< 1		05030895-13D
GMW-01	6/8/2005	7.4	28.8	1080		720	< 1	< 1	< 1	< 1	< 1	< 1		05060846-01D
GMW-01	9/26/2005	7.34	29.7	1200		810	< 1	< 1	< 1	< 1	< 1	< 1		05091650-01D
GMW-01	12/9/2005	7.26	24.5	1380		920	< 1	< 1	< 1	< 1	< 1	< 1		05120894-14D
GMW-01	3/28/2006	7.24	25.8	1360		900	< 1	< 1	< 1	< 1	< 1	< 1		06031725-28D
GMW-01	6/14/2006	7.05	27.5	1300		870	< 1	< 1	< 1	< 1	< 1	< 1		06060615-05D
GMW-01	9/25/2006	7.32	27	1500		1010	< 1	< 1	< 1	< 1	< 1	< 1		06091031-02D
GMW-01	12/22/2006	7.35	22.1	1710		1140	< 1	< 1	< 1	< 1	< 1	< 1		06120700-08D
GMW-01	12/22/2006	7.35	22.1	1710		1140	< 1	< 1	< 1	< 1	< 1	< 1		06120700-07D
GMW-01	3/29/2007	7.36	23.2	1750		1170	< 1	< 1	< 1	< 1	< 1	< 1		07030871-41
GMW-01	6/6/2007	7.16	26.8	1560		1040	< 1	< 1	< 1	< 1	< 1	< 1		07060256-05
GMW-01	8/30/2007	7.07	28.9	1670		1130	< 1	< 1	< 1	< 1	< 1	< 1		07081159-03D
GMW-01	8/30/2007	7.07	28.9	1670		1130	< 1	< 1	< 1	< 1	< 1	< 1		07081159-04D
GMW-01	10/11/2007	7.41	27.3	2610			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		198353-014
GMW-01	1/8/2008	7.28	26.95	2770		1860	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		200453-002
GMW-01	11/24/2008	7.33	27.33	3010		2020	<0.5	<0.5	<0.5	<0.8	<0.5	<0.5		208170-002
GMW-01	2/18/2009	7.37	25.32	3108	1.91	2.08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		210202-015
GMW-01	8/25/2009	7.39	34.73	3032	2.77	2.03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		214514-017
GMW-01	2/3/2010	7.34	24.36	5473	2.3	3.67								218218-007
GMW-01	2/5/2010						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		218218-007
GMW-01	8/26/2010	7.14	29.29	2821	0.63	1.89	<0.5	<0.5	<0.5	0.1	<0.5	<0.5		222127-014
GMW-01	8/26/2010	7.14	29.29	2821	0.63	1.89	<0.5	<0.5	<0.5	0.1	<0.5	<0.5		
GMW-01	5/4/2011	7.58	30.98	2746	1.09		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		PGA SOUTH
GMW-01	8/8/2011	6.37	27.27	2714	1.13		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		PGA SOUTH
GMW-01	2/2/2012	7.59	25.8	2962	3.62		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	19	189044
GMW-01	8/6/2012	7.05	29.36	2677	1.97		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		189044
GMW-01	2/6/2013				2.39		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	25	189044
GMW-01	5/7/2013				3.46		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.6	PGA South
GMW-01	8/8/2013				1.35		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	10	247818-001
GMW-01	11/6/2013				3.83		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	19	250604-001
GMW-02	5/23/1985												20	ETC
GMW-02	4/10/1986												34	ETC
GMW-02	3/20/1987												55	ATL
GMW-02	6/23/1987												130	ATL
GMW-02	9/28/1987												54	ATL
GMW-02	1/11/1988												36	ATL
GMW-02	8/25/1992	7.21	27.3	2970		1980	<0.8	<0.8		41	<0.8	<0.8		208966
GMW-02	4/10/1995	7.23	26.7	2680		1780	< 1	< 1		69.3	< 1	< 1		9504-4786-2
GMW-02	5/15/1995	7.37	26.7	2470		1670	< 1	< 1		47.9	< 1	< 1		9505-5400-4
GMW-02	5/15/1995	7.37	26.7	2470		1670	< 1	< 1		49.6	< 1	< 1		9505-5400-2
GMW-02	6/5/1995	7.3	27.2	2620		1730	< 1	< 1		54	< 1	< 1		9506-05740-2
GMW-02	7/13/1995	7.46	27.4	2800		1880	< 1	< 1		44.3	< 1	< 1		9507-06450-03
GMW-02	8/8/1995	7.22	28	2800		1870	< 1	< 1		37.7	< 1	< 1		9508-06941-11
GMW-02	9/8/1995	7.46	27.4	2570		1351	< 1	< 1		41.9	< 1	< 1		9509-07402-10
GMW-02	10/26/1995	7.03	26	2380		1590	< 1	< 1		33.7	< 1	< 1		9510-08288-8
GMW-02	12/12/1995	7.03	25.8	2540		1700	< 1	< 1		46.9	< 1	< 1		9512-09012-10
GMW-02	3/22/1996	7.25	26.5	2320		1540	< 1	< 1		50.7	< 1	< 1		9603-01453-2
GMW-02	6/13/1996	7.12	26.8	2730		1820	< 1	< 1		72.4	< 1	< 1		9606-02981-2
GMW-02	9/17/1996	7.1	28.2	2510		1710	< 1	< 1		50	< 1	< 1		9609-04788-5
GMW-02	12/29/1996	7.01	25.7	2570		1710	< 1	< 1		79.2	< 1	< 1		9612-06704-7
GMW-02	12/29/1996	7.01	25.7	2570		1710	< 1	< 1		77.4	< 1	< 1		9612-06704-6
GMW-02	2/26/1997	7.06	25.5	2590			< 1	< 1		96.8	< 1	< 1		9702-01315-5
GMW-02	5/30/1997	7.22	27.8	1900		1270	< 1	< 1		58.4	< 1	< 1	126	9706-03357-3
GMW-02	9/23/1997	7.02	26.3	1880		1260	< 1	< 1		63.6	< 1	< 1		9709-06208-14
GMW-02	9/23/1997	7.02	26.3	1880		1260	< 1	< 1		60.4	< 1	< 1		9709-06208-13

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
GMW-02	10/16/1997												90	9710-06746-2
GMW-02	12/15/1997	7.03	25.3	1670		1120	< 1	< 1		45.2	< 1	< 1	81	9712-08132-2
GMW-02	2/13/1998	7.08	25.8	1600		1070	< 1	< 1		39	< 1	< 1	72	9802-01144-5
GMW-02	5/7/1998	7.24	1730	26.9		1160	< 1	< 1		49.3	< 1	< 1	87	9805-03178-4
GMW-02	8/13/1998												86	PHH00612
GMW-02	8/13/1998	7.15	28.6	1670		1110	< 1	< 1		46.9	< 1	< 1		9808-05688-2
GMW-02	10/30/1998	7.19	25.6	1550		1030	< 1	< 1		28.8	< 1	< 1		9811-07838-4
GMW-02	2/8/1999	7.12	26.1	1430		960	< 1	< 1		19.9	< 1	< 1		9902-01334-08
GMW-02	4/20/1999	7.09	27.4	1680		1120	< 1	< 1		55.6	< 1	< 1		9904-03705-06
GMW-02	7/30/1999	7.07	28.4	1770		1180	< 1	< 1		51.4	< 1	< 1		9908-06887-007
GMW-02	10/20/1999	7.06	26.4	1660		1110	< 1	< 1		39.7	< 1	< 1		9910-09613-005
GMW-02	1/27/2000	7	25	1430		960	< 1	< 1		31.4	< 1	< 1		0001-00895-004
GMW-02	4/6/2000	7.01	27	1720		1150	< 1	< 1		35.4	< 1	< 1		0004-03196-002
GMW-02	7/28/2000	7.19	27.6	1790		1190	< 1	< 1		45.4	< 1	< 1		0007-06667-001
GMW-02	10/19/2000	7.06	26.5	1620		1090	< 1	< 1		38.9	< 1	< 1		0010-09219-006
GMW-02	2/24/2001	7.15	25.5	1660		1110	< 1	< 1		35.4	< 1	< 1		0102-01412-001
GMW-02	4/23/2001	7.11	28.1	1710		1140	< 1	< 1		41.9	< 1	< 1		0104-03010-002
GMW-02	4/23/2001	7.11	28.1	1710		1140	< 1	< 1		40.6	< 1	< 1		0104-03010-001
GMW-02	9/26/2001	7.1	27.8	1850		1230	< 1	< 1		58.5	< 1	< 1		0109-07212-003
GMW-02	11/21/2001	7.01	26.1	1690		1150	< 1	< 1		36	< 1	< 1		0111-08941-004
GMW-02	2/18/2002	7.03	26.3	1500		1000	< 1	< 1		32	< 1	< 1		0202-01412-002
GMW-02	5/30/2002	7.15	27.7	1730		1160	< 1	< 1		55.2	< 1	< 1		0205-04370-008
GMW-02	9/16/2002	7.05	27.7	1710		1150	< 1	< 1		60.4	< 1	< 1		0209-07807-002
GMW-02	10/25/2002	7	25.8	1720		1150	< 1	< 1		63.2	< 1	< 1		0210-09002-015
GMW-02	3/24/2003	7.05	27.5	1540		1030	< 1	< 1	< 1	39.1	< 1	< 1		030302652007
GMW-02	6/26/2003	7.06	27.3	1740		1160	< 1	< 1	< 1	82.3	< 1	< 1		030605833014
GMW-02	6/26/2003	7.06	27.3	1740		1160	< 1	< 1	< 1	81.1	< 1	< 1		030605833015
GMW-02	9/23/2003	7.02	27.8	1650		1110	< 1	< 1	< 1	97	< 1	< 1		030909106010
GMW-02	12/9/2003	7.15	23.5	1650		1120	< 1	< 1	< 1	60.5	< 1	< 1		031212090014
GMW-02	3/2/2004	7.16	22.8	1630		1080	< 1	< 1	< 1	50	< 1	< 1		040302356011
GMW-02	5/3/2004	7.1	28.2	1510		1020	< 1	< 1	< 1	79	< 1	< 1		040504780002
GMW-02	5/3/2004	7.1	28.2	1510		1020	< 1	< 1	< 1	88	< 1	< 1		040504780001
GMW-02	9/27/2004	7.08	28.4	1520		1020	< 2	< 2	< 2	78.3	< 2	< 2		040911253003
GMW-02	12/20/2004	7.02	22.5	1720		1150	< 1	< 1	< 1	72	< 1	< 1		04121265-03D
GMW-02	3/22/2005	7.27	26.7	1320		890	< 1	< 1	< 1	6	< 1	< 1		05031440-12D
GMW-02	6/9/2005	7.15	28.6	1580		1060	< 1	< 1	< 1	81	< 1	< 1		05060846-13D
GMW-02	6/9/2005	7.15	28.6	1580		1060	< 1	< 1	< 1	80	< 1	< 1		05060846-14D
GMW-02	9/28/2005	7.08	29.4	1550		1040	< 1	< 1	< 1	83	< 1	< 1		05091650-15D
GMW-02	9/28/2005	7.08	29.4	1550		1040	< 1	< 1	< 1	84	< 1	< 1		05091650-16D
GMW-02	12/9/2005	6.97	22.4	1770		1190	< 1	< 1	< 1	83	< 1	< 1		05120894-12D
GMW-02	12/9/2005	6.97	22.4	1770		1190	< 1	< 1	< 1	84	< 1	< 1		05120894-11D
GMW-02	3/28/2006	7.02	25.8	1670		1120	< 1	< 1	< 1	73	< 1	< 1		06031725-30D
GMW-02	6/14/2006	6.95	28.4	1590		1060	< 1	< 1	< 1	83	< 1	< 1		06060615-08D
GMW-02	9/25/2006	6.97	27.5	1660		1110	< 1	< 1	< 1	73.83	< 1	< 1		06091031-03D
GMW-02	12/22/2006	7.12	21.5	1800		1210	< 1	< 1	< 1	68.72	< 1	< 1		06120700-09D
GMW-02	3/29/2007	7.05	23.6	1760		1180	< 1		< 1	70.48	< 1	< 1		07030871-42
GMW-02	3/29/2007	7.05	23.6	1760		1180	< 1	< 1	< 1	71.17	< 1	< 1		07030871-43
GMW-02	6/6/2007	6.93	27	1710		1140	< 1	< 1	< 1	66	< 1	< 1		07060256-07
GMW-02	9/27/2007	6.81	27.3	1740		1160	< 1	< 1	< 1	61.64	< 1	< 1		07091009-17D
GMW-02	10/10/2007	6.92	26.5	2730										198353-012
GMW-02	10/10/2007	6.92	26.5	2730										198353-013
GMW-02	10/11/2007						0.7	<0.5	<0.5	57	<0.5	<0.5		198353-013
GMW-02	10/11/2007						0.7	<0.5	<0.5	58	<0.5	<0.5		198353-012
GMW-02	1/8/2008	6.8	26.16	2481		1660	0.5	<0.5	<0.5	37	<0.5	<0.5		200453-003
GMW-02	8/4/2008						0.6	<0.5	<0.5	58	<0.5	0.1		205111-001
GMW-02	8/4/2008	6.81	26.2	2648		1721	0.7	<0.5	<0.5	62	<0.5	0.1		205110-011
GMW-02	11/20/2008	6.87	26.35	2670		1790	0.5	<0.5	<0.5	49	<0.5	0.1		208075-018
GMW-02	11/20/2008						0.5	<0.5	<0.5	49	<0.5	0.1		208075-021
GMW-02	2/18/2009	6.84	26.25	2553	12.5	1.66	0.3	<0.5	<0.5	33	<0.5	<0.5		210199-004
GMW-02	5/18/2009	6.92	26.23	2521	7.34	1.64	0.5	<0.5	<0.5	48	<0.5	0.3		212306-004
GMW-02	8/25/2009	6.91	26.3	2701	9.84	1.81	0.5	<0.5	<0.5	49	<0.5	<0.5		214514-015
GMW-02	8/25/2009	6.91	26.3	2701	9.84	1.81	0.4	<0.5	<0.5	48	<0.5	<0.5		214514-014
GMW-02	11/17/2009	6.88	26.24	2675	5.29	1.79	0.6	<0.5	<0.5	47	<0.5	<0.5		216704-005
GMW-02	2/2/2010	7.08	26.33	2495	6.91	1.67	0.3	<0.5	<0.5	32	<0.5	<0.5		218222-006
GMW-02	5/6/2010	6.97	26.4	2565		28.3	0.5	<0.5	<0.5	48	<0.5	<0.5		220017-018
GMW-02	8/24/2010	7.22	26.74	2359	6.89	1.58	0.6	<0.5	<0.5	46	<0.5	0.1		222127-006
GMW-02	12/1/2010						0.6	<0.5	<0.5	40	<0.5	<0.5		224639-037
GMW-02	2/8/2011	6.69	25.76	2698	3.65		0.4	<0.5	<0.5	26	<0.5	<0.5		PGA SOUTH
GMW-02	5/10/2011	6.66	26.19	2188	13.7		0.5	<0.5	<0.5	46	<0.5	0.2		PGA SOUTH
GMW-02	8/8/2011	6.97	29.04	2497	15.8		0.3	<0.5	<0.5	40	<0.5	<0.5		PGA SOUTH
GMW-02	11/10/2011	6.81	25.26	1903	3.33		0.4	<0.5	<0.5	40	<0.5	0.2	93	154540

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
GMW-02	2/8/2012	6.95	24.68	2750	6.75		0.6	<0.5	<0.5	41	<0.5	0.2	74	189044
GMW-02	5/5/2012	6.9	26.4	2195	2.6		0.5	<0.5	<0.5	41	<0.5	0.2		189044
GMW-02	8/14/2012						0.7	<0.5	<0.5	48	<0.5	0.3		189044
GMW-02	11/7/2012				3.4		<0.5	<0.5	<0.5	0.5	<0.5	<0.5		189044
GMW-02	2/6/2013				2.72		0.4	<0.5	<0.5	23	<0.5	0.2	130	189044
GMW-02	5/7/2013				1.89		0.5	<0.5	<0.5	32	<0.5	0.2	100	PGA South
GMW-02	8/8/2013				1.91		0.9	<0.5	<0.5	43	<0.5	0.3 J	140	247818-002
GMW-02	10/21/2013						0.7	<0.5	<0.5	40	<0.5	0.2 J	160	250082-011
GMW-02	10/21/2013						0.2 J	<0.5	<0.5	10	<0.5	<0.5	150	250082-009
GMW-02	10/21/2013						0.7	<0.5	<0.5	33	<0.5	0.2 J	140	250082-010
GMW-02	11/6/2013				7.73		0.8	<0.5	<0.5	49	<0.5	0.4 J	190	250604-002
GMW-03	5/31/1985												1330	ETC
GMW-03	4/10/1986												540	ETC
GMW-03	3/20/1987												420	ATL
GMW-03	6/23/1987												480	ATL
GMW-03	9/28/1987												100	ATL
GMW-03	1/11/1988												290	ATL
GMW-03	1/31/1990						8.8	<0.2		19.8	0.6	0.6		2500
GMW-03	4/19/1990	7.25	25.6	3260		2180	9.6	<0.2		23.2	<0.2	1.1		4665
GMW-03	1/29/1992	7.27	26.6	2970		1990	11	<0.2		14	<0.2	2.2		201890
GMW-03	3/29/1992	7.27	27.6	2740		1830	1.5	<0.2		11	<0.2	1.9		203979
GMW-03	6/28/1992	7.3	28	2990		1980	3.5	<0.2		6.6	<0.2	1		206045
GMW-03	10/8/1992	7.35	27.6	2860		1910	2.9	<0.2		2.1	<0.2	1.7		210612
GMW-03	1/4/1993	7.5	24.8	2430		1620	2.1	<0.2		2.9	<0.2	1.9		301538
GMW-03	5/4/1993	7.14	27.5	2790		1860	6.2	<0.2		2.8	<0.2	3.4		30553203
GMW-03	6/22/1993	7.19	27.2	3200		1400	7.3	<0.2		0.7	<0.2	5.6		30695108
GMW-03	10/19/1993	7.18	25.5	3220			2.8	<0.2		1.4	<0.2	1.8		31092905
GMW-03	12/31/1993	6.74	23.3	2890			1.7	<0.2		0.5	<0.2	3.2		40152201
GMW-03	4/7/1994	7.28	27.4	2710		1800	2.3	<0.2		<0.2	<0.2	6.6		40467418
GMW-03	6/15/1994	7.4	26.6	2860		1900	2.3	<0.5		<0.2	<0.2	12		40684431
GMW-03	9/26/1994	6.78	26.7	2040			3.4	<0.2		1.2	<0.2	7.1		40993606
GMW-03	12/8/1994	7.16	26	1830		1240	1.7	<0.2		<0.2	<0.2	5.2		9412023868
GMW-03	3/21/1995	7.12	26.7	2750		1840	1.9	< 1		1	< 1	4.7		9503-4378-7
GMW-03	6/9/1995	7.28	27.6	2700		1800	1.8	< 1		< 1	< 1	8.2		9506-05828-4
GMW-03	9/18/1995	7.44	27.8	2640		1760	< 1	< 1		< 1	1	6.1		9509-07574-1
GMW-03	12/13/1995	7.15	25.5	2550		2080	1.3	< 1		< 1	< 1	12.3		9512-09012-13
GMW-03	3/27/1996	7.22	27.3	2470		1650	1	< 1		< 1	< 1	14.5		9603-01526-1
GMW-03	6/20/1996	7.2	28.3	2340		1570	1.1	< 1		< 1	< 1	16.2		9606-03103-9
GMW-03	6/20/1996	7.2	28.3	2340		1570	1	< 1		< 1	< 1	16.4		9606-03103-10
GMW-03	9/19/1996	7.27	27.8	2520		1690	3.4	< 1		1.2	< 1	6.8		9609-04824-4
GMW-03	12/18/1996	7.16	25.4	2330		1550	1.2	< 1		< 1	< 1	5.2		9612-06602-8
GMW-03	2/24/1997	7.3	26.5	2330			1	< 1		< 1	< 1	9.2		9702-01250-4
GMW-03	5/30/1997	7.26	27.9	1690		1130	1.1	< 1		< 1	< 1	7.1	32	9706-03357-5
GMW-03	9/17/1997	7.16	27.5	1640		1100	1.9	<0.5		2.3	<0.5	11.7	22	9709-06025-9
GMW-03	12/4/1997	7.16	25.6	1680		1120	2	< 1		1.6	< 1	12.7	22	9712-07851-1
GMW-03	2/3/1998	7.11	26.4	1660		1110	2.1	< 1		1.5	< 1	11.5	18	9802-00879-4
GMW-03	8/28/1998	7.35	27.9	1670		1100	1.1	< 1		< 1	< 1	11.2		9808-06040-2
GMW-03	8/28/1998	7.35	27.9	1670		1100	1.1	< 1		< 1	< 1	11.2		9808-06040-3
GMW-03	11/4/1998												22	9811-08030-9
GMW-03	2/7/1999	7.25	26.8	1700		1140	1	< 1		< 1	< 1	7.9		9902-01284-16
GMW-03	2/7/1999	7.25	26.8	1700		1140	1.1	< 1		< 1	< 1	8		9902-01284-15
GMW-03	7/29/1999	7.16	26.7	1720		1150	2.1	< 1		< 1	< 1	12.1		9907-06851-004
GMW-03	1/25/2000	7.13	25.9	1200		800	1.9	< 1		< 1	< 1	14.8		0001-00788-001
GMW-03	7/24/2000	7.24	27.5	1660		1110	< 1	< 1		< 1	< 1	13.3		0007-06500-003
GMW-03	7/24/2000	7.24	27.5	1660		1110	< 1	< 1		< 1	< 1	13.3		0007-06500-002
GMW-03	2/6/2001	7.07	26.3	1680		1120	1.5	< 1		1.5	< 1	17.9		0102-00985-008
GMW-03	9/20/2001	7.1	28.7	1820		1220	2.8	< 1		1.2	< 1	14.8		0109-07024-004
GMW-03	2/6/2002	7.11	26.1	1600		1080	1.6	< 1		1	< 1	13		0202-01089-004
GMW-03	9/11/2002	7.19	28.1	1660		1110	2.7	< 1		1	< 1	14.4		0209-07641-003
GMW-03	3/18/2003	7.11	25.7	1530		1030	< 1	< 1	< 1	1.5	< 1	19.9		030302447005
GMW-03	3/18/2003	7.11	25.7	1530		1030	1.4	< 1	< 1	2	< 1	19.8		030302447010
GMW-03	2/25/2004	7.19	24.6	1620		1080	2.2	< 1	< 1	1.2	< 1	17		040202114011
GMW-03	2/25/2004	7.19	24.6	1620		1080	2.4	< 1	< 1	1.2	< 1	17		040202114012
GMW-03	3/9/2005	7.18	26.8	1620		1080	2.8	< 1	< 1	1.4	< 1	16		05030895-16D
GMW-03	3/28/2006	7.05	25.3	1490		1000	1.8	< 1	< 1	< 1	< 1	27		06031725-26D
GMW-03	3/29/2007	7.07	25.3	1660		1100	2.62	< 1	< 1	1.67	< 1	24.9		07030871-44
GMW-03	1/11/2008	6.86	26.39	2407		1610	2.9	<0.5	<0.5	1.6	<0.5	21		200517-012
GMW-03	11/25/2008	6.97	28.01	2460		1648.2	1.8	<0.5	<0.5	< 1.8	<0.5	4.8		208170-006
GMW-03	2/18/2009	4.51	26.65	2678	10	1.79	1.6	<0.5	<0.5	0.8	<0.5	12		210202-009
GMW-03	8/25/2009	6.98	28.42	2738	12	1.84	3.1	<0.5	<0.5	1.1	<0.5	17		214514-004
GMW-03	2/5/2010	7.05	25.3	4044	13.6	2.71	2.4	<0.5	<0.5	1.4	<0.5	15		218218-023

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
GMW-03	8/25/2010	7.37	28.64	2674	2.41	1.79	2.6	<0.5	<0.5	1.8	<0.5	12		222127-008
GMW-03	8/25/2010	7.37	28.64	2674	2.41	1.79	2.6	<0.5	<0.5	1.8	<0.5	12		
GMW-03	5/5/2011	6.72	33.61	2989	5.89		1.7	<0.5	<0.5	0.9	<0.5	7.2		PGA SOUTH
GMW-03	8/3/2011	6.89	32.98	3220	2.84		2.1	<0.5	<0.5	1.1	<0.5	11		PGA SOUTH
GMW-03	2/6/2012	7.01	25.66	40.7	1.4		1	<0.5	<0.5	1.6	<0.5	10	17	189044
GMW-03	8/7/2012						1.2	<0.5	<0.5	1.1	<0.5	8.6		189044
GMW-03	2/6/2013				1.95		0.6	<0.5	<0.5	1.2	<0.5	5.6		189044
GMW-03	8/8/2013				1.99		1.4	<0.5	<0.5	1.1	<0.5	6.9		247818-004
GMW-04	1/22/1988									1				
GMW-04	1/31/1990	7.1	24.6			1240	<0.2	<0.2		<0.2	<0.2	<0.2		2500
GMW-04	4/18/1990	7.07	25.4	1850		1240	<0.2	<0.2		<0.2	<0.2	<0.2		4665
GMW-04	7/19/1990	7.1	27.1	1970		1320	<0.2	<0.2		<0.2	<0.2	<0.2		7728
GMW-04	10/21/1990	7.2	25.6	2100		1410	<0.2	<0.2		<0.2	<0.2	<0.2		10738
GMW-04	1/23/1991	7.25	25.2	1970		1310	<0.2	<0.2		<0.2	<0.2	<0.2		101748
GMW-04	3/15/1991	7.18	25.9	2010		1350	<0.2	<0.2		<0.2	<0.2	<0.2		103798
GMW-04	6/20/1991	7.35	26.7	2060		1370	<0.2	<0.2		<0.2	<0.2	<0.2		106834
GMW-04	1/21/1992	7.35	23.7	1750		1170	<0.2	<0.2		<0.2	<0.2	<0.2		201771
GMW-04	1/25/1992												< 10	201816
GMW-04	3/28/1992	7.41	25	1720		1150	<0.2	<0.2		<0.2	<0.2	<0.2		203979
GMW-04	6/28/1992	7.45	26.4	1850		1230	<0.2	<0.2		1.1	<0.2	<0.2		206045
GMW-04	10/8/1992	7.43	26.9	1680		1120	<0.2	<0.2		<0.2	<0.2	<0.2		210612
GMW-04	12/15/1992	7.37	23.1	1880		1250	<0.2	<0.2		<0.2	<0.2	0.2		212807
GMW-04	12/16/1992	7.37	23.1	1880		1250	<0.2	<0.2		<0.2	<0.2	0.2		21280701
GMW-04	1/29/1993												< 10	301943
GMW-04	3/12/1993	7.1	24.6	1640		1100	<0.2	<0.2		2.4	<0.2	<0.2		30375804
GMW-04	6/22/1993	7.05	26.3	2000		1300	<0.2	<0.2		<0.2	<0.2	7.1		30695106
GMW-04	10/5/1993	7.07	25.9	2030		1360	<0.2	<0.2		<0.2	<0.2	11		31063901
GMW-04	12/23/1993	7.08	23.8	1980		1320	<0.2	<0.2		<0.2	<0.2	12	< 10	31214512
GMW-04	4/5/1994	7.14	24.9	1730		1140	<0.2	<0.2		<0.2	<0.2	24		40467404
GMW-04	6/15/1994	7	25.7	1820		1230	<0.2	<0.5		<0.2	<0.2	29	< 10	40684407
GMW-04	6/16/1994	7	25.7	1820		1230	<0.2	<0.5		<0.2	<0.2	24		40684408
GMW-04	9/9/1994	7	25	1440			<0.2	<0.2		<0.2	<0.2	39		40964708
GMW-04	9/10/1994	7	25	1440			<0.2	<0.2		<0.2	<0.2	29		40964709
GMW-04	12/8/1994	5.84	24.1	3320		1956	<0.2	<0.2		<0.2	<0.2	25		9412023866
GMW-04	12/23/1994												< 5	9412026711
GMW-04	3/28/1995	6.97	25	1680		1120	< 1	< 1		< 1	< 1	38.9		9503-4500-1
GMW-04	6/9/1995	7.3	26.5	1630		1090	< 1	< 1		< 1	< 1	46.1		9506-05828-3
GMW-04	9/18/1995	7.46	26.3	1620		1080	< 1	< 1		< 1	< 1	31.2		9509-07574-4
GMW-04	3/25/1996	7.3	22.3	1450		960	< 1	< 1		< 1	< 1	32.8		9603-01474-1
GMW-04	6/20/1996	7.19	28.2	1480		1000	< 1	< 1		< 1	< 1	39.6		9606-03103-11
GMW-04	9/20/1996	7.24	26.3	1440		970	< 1	< 1		< 1	< 1	26.3		9609-04837-9
GMW-04	9/20/1996	7.24	26.3	1440		970	< 1	< 1		< 1	< 1	29.2		9609-04837-6
GMW-04	12/26/1996	7.1	24.8	1480		1000	< 1	< 1		< 1	< 1	30.2		9612-06692-5
GMW-04	2/20/1997	7.28	25.4	1480			< 1	< 1		< 1	< 1	25.3		9702-01175-5
GMW-04	6/11/1997	7.29	27.3	990		660	< 1	< 1		< 1	< 1	26		9706-03639-22
GMW-04	9/17/1997	7.28	25.7	1020		680	<0.5	<0.5		<0.5	<0.5	24.3		9709-06025-7
GMW-04	9/17/1997	7.28	25.7	1020		680	<0.5	<0.5		<0.5	<0.5	23.8		9709-06025-6
GMW-04	11/25/1997	7.14	25.3	1000		680	< 1	< 1		< 1	< 1	22		9711-07631-5
GMW-04	2/5/1998	7.15	25.1	1040		690	< 1	< 1		< 1	< 1	16.9		9802-00879-7
GMW-04	9/3/1998	7.24	26.8	1010		670	< 1	< 1		< 1	< 1	18.7		9809-06227-1
GMW-04	2/12/1999	7.23	25.4	990		660	< 1	< 1		< 1	< 1	13.3		9902-01472-04
GMW-04	2/12/1999	7.23	25.4	990		660	< 1	< 1		< 1	< 1	13.3		9902-01472-05
GMW-04	7/27/1999	7.14	27	950		640	< 1	< 1		< 1	< 1	15.5		9907-06764-004
GMW-04	1/19/2000	7.09	25.6	1040		700	< 1	< 1		< 1	< 1	13.8		0001-00632-006
GMW-04	7/21/2000	7.17	26.3	1090		730	< 1	< 1		< 1	< 1	11.3		0007-06410-009
GMW-04	7/21/2000	7.17	26.3	1090		730	< 1	< 1		< 1	< 1	11.6		0007-06410-008
GMW-04	2/5/2001	7.1	25.8	1080		720	< 1	< 1		< 1	< 1	11.6		0102-00985-002
GMW-04	8/31/2001	7.22	26.9	1160		780	< 1	< 1		< 1	< 1	10		0109-06442-005
GMW-04	8/31/2001	7.22	26.9	1160		780	< 1	< 1		< 1	< 1	4.2		0109-06442-004
GMW-04	2/5/2002	7.15	25.4	1170		790	< 1	< 1		< 1	< 1	8.2		0202-01006-002
GMW-04	2/5/2002	7.15	25.4	1170		790	< 1	< 1		< 1	< 1	8.1		0202-01006-003
GMW-04	9/5/2002	7.1	27	1170		790	< 1	< 1		< 1	< 1	6.8		0209-07468-005
GMW-04	3/18/2003	7.14	25.6	1120		750	< 1	< 1	< 1	< 1	< 1	4.7		030302447007
GMW-04	2/19/2004	7.19	25	1280		860	< 1	< 1	< 1	< 1	< 1	1.8		040201896003
GMW-04	3/8/2005	7.1	27.4	1410		940	< 1	< 1	< 1	< 1	< 1	1.4		05030895-02D
GMW-04	3/20/2006	6.85	22.9	1150		770	< 1	< 1	< 1	< 1	< 1	1.6	< 10	06031366-10D
GMW-04	8/29/2006												< 10	06081187-02B
GMW-04	3/12/2007	7.05	26.4	1310		870	< 1	< 1	< 1	< 1	< 1	< 1		07030441-06
GMW-04	5/8/2007	7.03	29	1280		860								07050310-05
GMW-04	5/30/2007	7	25.3	1330		890							16.9	07051077-04
GMW-04	9/18/2007												12.1	07090641-02A

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
GMW-04	9/19/2007	6.88	28.5	410		260								07090641-02A
GMW-04	3/26/2008	6.89	25.77	2265		1474							8	202224-003
GMW-04	6/17/2008	6.13	25.74	2339		1570							3.8	204049-003
GMW-04	6/17/2008	6.13	25.74	2339		1570							5.1	204049-002
GMW-04	8/5/2008	6.8	26.66	2298		1487							4	205110-013
GMW-04	11/19/2008	6.91	25.97	2260		1510	<0.5	<0.5	<0.5	<0.5	<0.5	0.4		208075-017
GMW-04	2/18/2009	6.85	22.26	2362	21.3	1.58	<0.5	<0.5	<0.5	<0.5	<0.5	0.3		210202-010
GMW-04	2/4/2010	6.98	25.17	2683	217	1.8	<0.5	<0.5	<0.5	<0.5	<0.5	0.3		218209-008
GMW-04	2/10/2011	6.99	27.06	2107	8.25		<0.5	<0.5	<0.5	<0.5	<0.5	0.3		PGA SOUTH
GMW-04	2/2/2012	7.57	26.71	2150	15		<0.5	<0.5	<0.5	<0.5	<0.5	0.2		189044
GMW-04	2/6/2013				21.9		<0.5	<0.5	<0.5	<0.5	<0.5	0.1		189044
GMW-05	1/22/1988									1.6				
GMW-05	1/23/1988									1.5				
GMW-05	1/31/1990	7.29	23.4			1600	<0.2	<0.2		<0.2	<0.2	<0.2		2500
GMW-05	4/18/1990	7.1	25.4	2420		1620	<0.2	<0.2		<0.2	<0.2	<0.2		4665
GMW-05	7/19/1990	7.23	27.2	2750		1830	<0.2	<0.2		<0.2	<0.2	<0.2		7728
GMW-05	10/21/1990	7.32	25.8	2750		1840	<0.2	<0.2		<0.2	<0.2	<0.2		10738
GMW-05	1/23/1991	7.37	23.2	2750		1830	<0.2	<0.2		<0.2	<0.2	<0.2		101748
GMW-05	3/15/1991	7.3	25.4	2750		1830	<0.2	<0.2		<0.2	<0.2	<0.2		103798
GMW-05	6/20/1991	7.4	26	2890		1940	<0.2	<0.2		<0.2	<0.2	<0.2		106834
GMW-05	9/22/1991	7.58	26.3	2970		1980	<0.2	<0.2		<0.2	<0.2	<0.2		109886
GMW-05	3/6/1997						<0.5	<0.5		<0.5	<0.5	8.9		7030182
GMW-05	5/17/2006	7.03	27.8	1350		900							10.8	06051217-01B
GMW-05	8/29/2006												44	06081187-03B
GMW-05	5/8/2007	7.11	28.9	1290		860								07050310-04
GMW-05	5/30/2007	6.84	27.7	1380		920							89.8	07051077-05
GMW-05	9/18/2007	7.17	27.8	1450		970							29.4	07090641-01A
GMW-05	3/26/2008	7.06	25.93	2336		1518							52	202224-002
GMW-05	6/16/2008	6.89	26.97	2460		1600							9.5	204021-003
GMW-05	7/28/2008	6.34	27.96	2310		1499							58	204938-004
GMW-06	3/18/1987												10	ATL
GMW-06	6/26/1987												17	ATL
GMW-06	1/31/1990							<0.2			<0.2	<0.2		2500
GMW-06	4/19/1990	7.24	26	2660		1770	<0.2	<0.2		8.4	<0.2	<0.2		4665
GMW-06	7/19/1990	7.27	28	2820		1880	<0.2	<0.2		7	<0.2	<0.2		7728
GMW-06	10/21/1990	7.33	25.9	2940		1960		<0.2		9.7	<0.2	<0.2		10738
GMW-06	10/21/1990						<0.2							10721
GMW-06	1/23/1991	7.4	25.6	2960		1980	<0.2	<0.2		10.5	<0.2	<0.2		101748
GMW-06	3/15/1991	7.33	26.5	2910		1940	<0.2	<0.2		6.7	<0.2	<0.2		103798
GMW-06	6/20/1991	7.34	27.8	3130		2100	<0.2	<0.2		0.4	<0.2	<0.2		106834
GMW-06	9/22/1991	7.72	27.6	3100		2080	<0.2	<0.2		8.1	<0.2	<0.2		109886
GMW-06	1/22/1992	7.37	25	2660		1780	<0.2	<0.2		12	<0.2	<0.2		201784
GMW-06	3/29/1992	7.32	25.3	2630		1760	<0.2	0.3		11	<0.2	0.3		203979
GMW-06	3/30/1992	7.32	25.3	2630		1760	<0.2	<0.2		11	<0.2	0.2		20397901
GMW-06	6/28/1992	7.36	26.4	3110		2070	<0.2	<0.2		9.9	<0.2	<0.2		206045
GMW-06	10/8/1992	7.32	27.7	2850		1890	<0.2	<0.2		10.1	<0.2	<0.2		210612
GMW-06	12/31/1992	7.1	25.9	3180		2110	<0.2	<0.2		10	<0.2	<0.2		212030
GMW-06	3/24/1993	7.11	27	3380		2260	<0.2	<0.2		12	<0.2	<0.2		30397408
GMW-06	3/25/1993	7.11	27	3380		2260	<0.2	<0.2		11	<0.2	<0.2		30397410
GMW-06	6/15/1993	7.06	28.3	4400		1400	<0.2	<0.2		14	<0.2	<0.2		30681608
GMW-06	10/10/1993	7.14	26.5	4280			<0.2	<0.2		9.1	<0.2	<0.2		31070917
GMW-06	10/11/1993	7.14	26.5	4280			<0.2	<0.2		12	<0.2	0.4		31070918
GMW-06	12/21/1993	7.09	25.1	4030		2690	<0.2	<0.2		10	<0.2	0.4		31214501
GMW-06	4/7/1994	7.23	26.4	3540		2370	<0.2	<0.2		4.5	<0.2	0.7		40467419
GMW-06	6/6/1994	7.13	27.4	3000		1990	<0.2	<0.2		5.5	<0.2	1.4		40667301
GMW-06	9/27/1994	6.99	26.5	1970			<0.2	<0.2		4.1	<0.2	4.7		40993617
GMW-06	9/28/1994	6.99	26.5	1970			<0.2	<0.2		3.8	<0.2	4.4		40993618
GMW-06	12/19/1994	7.21	24.8	2410		1620	<0.2	6.4		5.6	<0.2	6.4		9412025534
GMW-06	12/20/1994	7.21	24.8	2410		1620	<0.2	<0.2		4	<0.2	4.7		9412025537
GMW-06	3/23/1995	7.18	26.5	2400		1600	< 1	< 1		5.1	< 1	3.7		9503-4396-1
GMW-06	6/16/1995	7.23	26.2	2890		1980	< 1	< 1		6.7	< 1	8.8		9506-05955-1
GMW-06	9/20/1995	7.23	27.5	2730		1820	< 1	< 1		3.2	< 1	8		9509-07574-15
GMW-06	12/18/1995	7.31	25.1	2510		1660	< 1	< 1		3.6	< 1	7.4		9512-09134-6
GMW-06	3/28/1996	7.15	27.2	2410		1600	< 1	< 1		4.4	< 1	9.1		9603-01561-2
GMW-06	6/24/1996	7.25	28	2330		1550	< 1	< 1		3.7	< 1	7.3		9606-03147-2
GMW-06	9/25/1996	7.14	27.4	2220		1500	< 1	< 1		2.4	< 1	8.2		9609-04963-9
GMW-06	9/25/1996	7.14	27.4	2220		1500	< 1	< 1		2.4	< 1	8.3		9609-04963-10
GMW-06	12/18/1996	7.12	25.7	4850		3230	< 1	< 1		5	< 1	11.8		9612-06602-5
GMW-06	2/19/1997	7.25	26.7	4860			< 1	< 1		4.2	< 1	10.7		9702-01144-10
GMW-06	6/10/1997	7.22	26.9	1520		1020	< 1	< 1		2.1	< 1	8.3		9706-03639-7
GMW-06	9/12/1997	7.17	27.4	1550		1040	<0.5	<0.5		3.37	<0.5	10.4		9709-05902-1

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
GMW-06	12/11/1997	7.13	25.3	1580		1060	< 1	< 1		3.9	< 1	8		9712-08036-2
GMW-06	2/5/1998	7.29	26.2	1640		1100	< 1	< 1		5.1	< 1	7.4		9802-00879-8
GMW-06	9/4/1998	7.26	27.6	1740		1170	< 1	< 1		4.6	< 1	6.6		9809-06227-2
GMW-06	11/4/1998												< 5	9811-08030-1
GMW-06	2/7/1999	7.22	26.5	1820		1220	< 1	< 1		3.7	< 1	3.4		9902-01284-17
GMW-06	7/29/1999	7.11	27.3	1500		1000	< 1	< 1		4.1	< 1	5.3		9907-06851-005
GMW-06	1/25/2000	7.19	26.9	1120		750	< 1	< 1		4.7	< 1	4.9		0001-00788-002
GMW-06	7/24/2000	7.15	26.8	1450		970	< 1	< 1		3.6	< 1	4.9		0007-06500-001
GMW-06	2/19/2001	7.14	26.8	1510		1000	< 1	< 1		4.8	< 1	4.2		0102-01314-001
GMW-06	9/20/2001	7.21	28.5	1570		1050	< 1	< 1		4.8	< 1	3.6		0109-07024-005
GMW-06	2/6/2002	7.13	26.9	1490		990	< 1	< 1		3.8	< 1	2.9		0202-01089-005
GMW-06	9/11/2002	7.24	27.8	1470		980	< 1	< 1		2.8	< 1	3.1		0209-07641-004
GMW-06	3/18/2003	7.04	25.5	1440		960	< 1	< 1	< 1	4.5	< 1	3.6		030302447011
GMW-06	9/18/2003	7.01	29.3	1400		940	< 1	< 1	< 1	4	< 1	2.6		030908952010
GMW-06	2/25/2004	7.21	24.3	1480		990	< 1	< 1	< 1	3.2	< 1	1.6		040202114013
GMW-06	3/9/2005	7.14	27.8	1270		850	< 1	< 1	< 1	3.2	< 1	1.8		05030895-17D
GMW-06	9/26/2005	7.03	29.7	1320		880	< 1	< 1	< 1	4.6	< 1	1.6		05091650-03D
GMW-06	3/22/2006	7.02	27.8	1190		800	< 1	< 1	< 1	2.5	< 1	1.5	< 10	06031725-01D
GMW-06	8/16/2006												16	06080731-06B
GMW-06	9/26/2006	6.99	27.7	1760		1180	< 1	< 1	< 1	4.46	< 1	1.37		06091031-07D
GMW-06	3/29/2007	7.06	25.2	1620		1080	< 1	< 1	< 1	4.01	< 1	1.49		07030871-46
GMW-06	5/8/2007	7.02	29.8	1610		1080								07050310-03
GMW-06	5/30/2007	6.75	29.4	1490		990							19.9	07051077-07
GMW-06	8/30/2007	6.88	29.7	1840		1220	< 1	< 1	< 1	5.21	< 1	< 1		07081159-06D
GMW-06	8/30/2007	6.88	29.7	1840		1220	< 1	< 1	< 1	5.18	< 1	< 1		07081159-05D
GMW-06	9/18/2007	6.89	28.1	1820		1220							15.4	07090641-03A
GMW-06	3/26/2008	6.94	26.2	2552		1658	<0.5	<0.5	<0.5	4.1	<0.5	1.1		202224-005
GMW-06	3/26/2008	6.94	26.2	2552		1658	<0.5	<0.5	<0.5	3.8	<0.5	1.2	5.5	202224-004
GMW-06	6/17/2008	7.04	27.12	2472		1650							3.8	204049-005
GMW-06	7/29/2008	5.79	26.91	3130		2034	<0.5	<0.5	<0.5	6.4	<0.5	1.3	5.6	204966-008
GMW-06	2/20/2009	7.18	25.62	1978	3	1.33	<0.5	<0.5	<0.5	2	<0.5	0.5	34	210261-002
GMW-06	8/28/2009	7.25	30.57	1973	12.7	1.32	<0.5	<0.5	<0.5	0.9	<0.5	0.9		214574-017
GMW-06	8/28/2009	7.25	30.57	1973	12.7	1.32	<0.5	<0.5	<0.5	0.8	<0.5	0.7		214574-016
GMW-06	2/3/2010	7.1	24.18	3575	31.7	2.4	<0.5	<0.5	<0.5	2.7	<0.5	0.6	190	218222-002
GMW-06	2/11/2011	6.76	24.28	1724	4.77		<0.5	<0.5	<0.5	2	<0.5	0.3	7.4	PGA SOUTH
GMW-06	5/9/2011	7.18	26.75	1801	1.9		<0.5	<0.5	<0.5	2.8	<0.5	0.5		PGA SOUTH
GMW-06	8/4/2011	6.9	29.3	2707	7.76		<0.5	<0.5	<0.5	8.2	<0.5	1.2	5.6	PGA SOUTH
GMW-06	2/6/2012	7	24.67	3409	2.7		<0.5	<0.5	<0.5	12	<0.5	1.1	14	189044
GMW-06	8/14/2012						<0.5	<0.5	<0.5	10	<0.5	0.9	9.2	189044
GMW-06	2/7/2013				2.86		<0.5	<0.5	<0.5	11	<0.5	0.9	13	189044
GMW-07	1/31/1990							0.6			<0.2	<0.2		2500
GMW-07	4/18/1990	7.2	25.6	2360		1580	3.1	0.3		<0.2	<0.2	<0.2		4665
GMW-07	7/19/1990	7.21	27.9	2900		1940	9.7	0.4		0.3	<0.2	0.3		7728
GMW-07	10/21/1990	7.4	25.8	2790		1850	7.8	1.3		0.3	<0.2	0.2		10738
GMW-07	1/23/1991	7.44	25.4	2660		1770	4.8	<0.2		0.2	<0.2	<0.2		101748
GMW-07	3/15/1991	7.35	26.4	2780		1850	4.7	0.4		<0.2	<0.2	<0.2		103798
GMW-07	6/20/1991	7.34	26.5	3080		2060	10.3	<0.2		0.5	<0.2	0.4		106834
GMW-07	9/22/1991	7.62	27.3	2830		1890	5.8	<0.2		0.5	<0.2	<0.2		109886
GMW-07	1/24/1992	7.34	26	2230		1490	6	<0.2		<0.2	<0.2	<0.2		201816
GMW-07	3/29/1992	7.33	25.8	2160		1440	4.1	<0.2		0.8	<0.2	<0.2		203979
GMW-07	6/28/1992	7.35	26.7	2460		1580	2.2	<0.2		2	<0.2	<0.2		206045
GMW-07	6/29/1992	7.35	26.7	2420		1580	2.4	0.4		<0.2	<0.2	<0.2		20604501
GMW-07	10/8/1992	7.32	27.5	2240		1490	1.5	<0.2		<0.2	<0.2	<0.2		210612
GMW-07	12/15/1992	7.32	23.8	2430		1620	1.4	<0.2		<0.2	<0.2	<0.2		212807
GMW-07	12/16/1992	7.32	23.8	2430		1620	1.4	<0.2		<0.2	<0.2	<0.2		21280701
GMW-07	3/12/1993	7.2	26	2460		1640	0.9	<0.2		<0.2	<0.2	0.4		30375807
GMW-07	6/30/1993	7.05	26.6	3200		1400	1.4	<0.2		0.2	<0.2	3.8		30750022
GMW-07	7/1/1993	7.05	26.6	3200		1400	1.3	<0.2		0.6	<0.2	3.7		30750026
GMW-07	10/5/1993	7.11	26.6	2960		1970	<0.2	<0.2		<0.2	<0.2	5.8		31063902
GMW-07	12/31/1993	6.57	24.2	3090			<0.2	<0.2		0.3	<0.2	8.8		40152205
GMW-07	1/1/1994	6.57	24.2	3090			<0.2	<0.2		<0.2	<0.2	9.1		40152203
GMW-07	4/5/1994	7.21	26.9	2550		1700	0.4	<0.2		0.4	<0.2	16		40467403
GMW-07	6/14/1994	7.08	26.8	2530		1730	0.3	<0.5		0.3	<0.2	19		40684403
GMW-07	9/8/1994		26.1	1980			0.2	<0.2		<0.2	<0.2	27		40964702
GMW-07	12/7/1994	7.25	27.1	2360		2220	<0.2	<0.2		<0.2	<0.2	18		9412023861
GMW-07	3/20/1995	7.09	26	2350		1680	< 1	< 1		< 1	< 1	25.6		9503-4288-1
GMW-08	3/16/1987												12	ATL
GMW-08	1/30/1990	6.9												1745
GMW-08	1/24/1992	7.1	25.8	5000		3350	15	< 2		890	7	< 2		201816
GMW-08	1/25/1992	7.1	25.8	5000		3350	< 4	< 4		740	< 4	< 4		20181601
GMW-08	3/29/1992	7.08	26.4	4460		2980	13	<0.2		700	7.1	1.5		203979

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
GMW-08	5/15/1992	6.77	27.7				30	< 2		870	7	< 2		205840
GMW-08	6/28/1992	7.03	26.5	5780		3850	28	1		970	5	4		206045
GMW-08	8/21/1992	7.21	27	5830		3900	45	3		940	4	6		208894
GMW-08	10/8/1992	7.12	27.2	6700		4480	20	< 2		580	< 2	2		210612
GMW-08	1/4/1993	6.7	24.9	6310		4220	10	< 1		390	2	3		301538
GMW-08	3/24/1993	6.95	26.9	4600		3090	8	< 2		620	5	2		30397409
GMW-08	6/16/1993	7.01	26.7	4700		1490	17	< 1		540	1	9		30681614
GMW-08	10/8/1993	7.02	27	5990			10	<0.2		280	<0.2	11		31070901
GMW-08	10/9/1993	7.02	27	5990			4	< 1		300	< 1	8		31070902
GMW-08	12/28/1993	6.99	25.6	4850		3280	3.4	<0.2		190	<0.2	8	34	31219404
GMW-08	1/6/1994	7.27	24	4340		2890								40158605
GMW-08	1/6/1994												27	40158604
GMW-08	4/20/1994	7.14	27.8	3890		2640	5.2	< 1		100	< 1	5.4		40494812
GMW-08	6/10/1994	6.98	27.7	3700		2450	3	1		48	<0.4	6		40672203
GMW-08	9/27/1994	6.85	25.9	3170			<0.2	<0.2		62	<0.2	4.7		40993627
GMW-08	9/28/1994	6.85	25.9	3170			< 2.5	5.3		59	< 1	< 1		40993628
GMW-08	12/1/1994	6.92	25.8	4100		1015	4	<0.2		89	<0.2	6.4		9411021931
GMW-08	3/30/1995	7.08	26.6	4100		2730	1.5	< 1		47.4	< 1	2.6		9503-4521-2
GMW-08	10/26/1995	7.29	26.7	3920		2630	< 1	< 1		8.9	< 1	6.1		9510-08288-3
GMW-08	12/11/1995	7.22	26.3	3760		2520	< 1	< 1		41.2	< 1	1.8		9512-09012-1
GMW-08	12/29/1996	7.01	26.1	3980		2660	< 1	< 1		188	< 1	< 1		9612-06704-5
GMW-08	12/12/1997	6.88	25.5	3000		2000	4.9	< 1		226	< 1	1.9		9712-08051-6
GMW-08	5/28/1998	7.17	28.4	2750		1840	< 1	< 1		141	< 1	< 1		9805-03669-2
GMW-08	11/4/1998												6	9811-08030-7
GMW-08	2/8/1999	6.95	26.2	3010		2010	< 1	< 1		35.4	< 1	< 1		9902-01334-02
GMW-08	1/27/2000	6.92	26.3	2540		1100	2.2	< 1		80.3	< 1	< 1		0001-00895-002
GMW-08	2/22/2001	6.85	26.2	2860		1920	3.6	< 1		234	< 1	< 1		0102-01393-012
GMW-08	2/14/2002	6.81	26.8	3160		2110	< 1	< 1		140	< 1	< 1		0202-01358-001
GMW-08	3/24/2003	6.94	27.6	2970		1990	4.9	< 1	4.5	200	1.9	1.2		030302652006
GMW-08	9/24/2003	6.89	26.1	3080		2060	6.1	< 1	6.6	288	3.3	< 1		030909106025
GMW-08	3/9/2004	7.1	27.9	2800		1870	2.7	< 1	3.2	190	1	1		040302676008
GMW-08	9/28/2004	6.8	29	2880		1920	4.3	< 2	3.2	145	< 2	< 2		040911253015
GMW-08	3/23/2005	7.01	24.5	2530		1690	3.1	< 1	2.7	180	< 1	3.2		05031440-21D
GMW-08	9/19/2005	6.83	29.1	220		150	1.9	< 1	1.4	160	< 1	3.3		05091212-03D
GMW-08	3/30/2006	6.89	26.6	3410		2270	< 1	< 1	< 1	34	< 1	2		06031844-06D
GMW-08	9/28/2006	6.9	29.8	2970		1960	< 1	< 1	< 1	23.76	< 1	1.33		06091031-20D
GMW-08	3/15/2007	7	29	3060		2040	< 1	< 1	< 1	23.22	< 1	1.49		07030679-07
GMW-08	9/27/2007	6.88	29.3	3460		2280	< 1	< 1	< 1	29.41	< 1	< 1		07091009-23D
GMW-08	8/4/2008	6.63	28.02	4582		2975	1.5	<0.8	1.4	140	0.4	1.3		205110-010
GMW-09MC	8/7/1992	7.65	28.8	2030		1360	<0.2	<0.2		0.3	<0.2	<0.2		208634
GMW-09MC	1/4/1993	7.6	25	2040		1340	<0.2	<0.2		<0.2	<0.2	<0.2		301538
GMW-09MC	6/30/1993	7.4	27.9	2100		1300	<0.2	<0.2		<0.2	<0.2	<0.2		30750023
GMW-09MC	2/18/1994	7.45	25.5	1980		1320	<0.2	<0.2		1.7	<0.2	<0.2		40295808
GMW-09MC	7/8/1994	7.25	27	1780		1180	<0.2	<0.2		2.6	<0.2	<0.2		40760517
GMW-09MC	1/25/1995	7.6	24	2190			2.9	<0.2		4.5	<0.2	<0.2		9501032402
GMW-09MC	4/10/1995	7.44	27	2070		1380	< 1	< 1		1.5	< 1	< 1		9504-4786-1
GMW-09MC	5/15/1995	7.41	27	2050		1400	< 1	< 1		1.8	< 1	< 1		9505-5400-1
GMW-09MC	6/5/1995	7.3	27.2	2020		1360	< 1	< 1		1.2	< 1	< 1		9506-05740-1
GMW-09MC	7/13/1995	7.46	27.2	2000		1350	< 1	< 1		< 1	< 1	< 1		9507-06450-02
GMW-09MC	8/8/1995	7.53	27.7	1940		1290	< 1	< 1		< 1	< 1	< 1		9508-06941-10
GMW-09MC	9/11/1995	7.5	27.8	1970		1320	< 1	< 1		1.8	< 1	< 1		9509-07486-2
GMW-09MC	10/26/1995	7.4	26.1	1910		1290	< 1	< 1		1.3	< 1	< 1		9510-08288-5
GMW-09MC	10/26/1995	7.4	26.1	1910		1290	< 1	< 1		1.4	< 1	< 1		9510-08288-7
GMW-09MC	12/12/1995	7.34	25.8	1870		1260	< 1	< 1		1.4	< 1	1.3		9512-09012-8
GMW-09MC	3/15/1996	7.3	24.9	1870		1260	< 1	< 1		< 1	< 1	< 1		9603-01304-1
GMW-09MC	6/13/1996	7.4	27.4	1760		1170	< 1	< 1		1.7	< 1	< 1		9606-02981-1
GMW-09MC	9/19/1996						< 1	< 1		< 1	< 1	< 1		9609-04824-2
GMW-09MC	9/19/1996	7.41	28.1	1770		1190	< 1	< 1		< 1	< 1	< 1		9609-04824-1
GMW-09MC	12/18/1996	7.33	25.3	1790		1200	< 1	< 1		< 1	< 1	< 1		9612-06602-6
GMW-09MC	2/24/1997	7.39	26.7	1820			< 1	< 1		< 1	< 1	< 1		9702-01250-1
GMW-09MC	2/24/1997	7.39	26.7	1820			< 1	< 1		< 1	< 1	< 1		9702-01250-2
GMW-09MC	5/30/1997	7.3	28.2	1210		810	< 1	< 1		< 1	< 1	< 1	226	9706-03357-2
GMW-09MC	9/17/1997	7.64	26.8	1160		770	<0.5	<0.5		0.7	<0.5	<0.5		9709-06025-8
GMW-09MC	10/16/1997												20	9710-06746-1
GMW-09MC	11/25/1997	7.35	26.2	1200		800	< 1	< 1		< 1	< 1	< 1	516	9711-07631-4
GMW-09MC	2/3/1998	7.32	26.3	1180		790	< 1	< 1		< 1	< 1	< 1	395	9802-00879-3
GMW-09MC	5/7/1998	7.42	28.9	1180		790	< 1	< 1		< 1	< 1	< 1	176	9805-03178-2
GMW-09MC	8/11/1998												190	PHH00477
GMW-09MC	8/11/1998	7.35	28.1	1180		780	< 1	< 1		< 1	< 1	< 1	184	9808-05612-5
GMW-09MC	10/15/1998	7.53	27.9	1160		780	< 1	< 1		< 1	< 1	< 1	182	9810-07346-3
GMW-09MC	2/12/1999	7.41	26.1	1190		800	< 1	< 1		< 1	< 1	< 1	487	9902-01472-03

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
GMW-09MC	4/15/1999	7.26	27.3	1190		790	< 1	< 1		< 1	< 1	< 1	965	9904-03550-01
GMW-09MC	7/27/1999	7.3	27.9	1170		770	< 1	< 1		< 1	< 1	< 1	241	9907-06764-003
GMW-09MC	10/19/1999	7.43	27.1	1210		800	< 1	< 1		< 1	< 1	< 1		9910-09616-012
GMW-09MC	10/19/1999	7.43	27.1	1210		800	< 1	< 1		< 1	< 1	< 1		9910-09616-011
GMW-09MC	10/26/1999												182	9910-09616-011
GMW-09MC	1/18/2000	7.3	26.5	1210		810	< 1	< 1		< 1	< 1	< 1	254	0001-00605-008
GMW-09MC	4/4/2000	7.41	27.5	1800		790	< 1	< 1		< 1	< 1	< 1	329	0004-03089-006
GMW-09MC	7/21/2000	7.42	27.7	1260		840	< 1	< 1		< 1	< 1	< 1	342	0007-06410-015
GMW-09MC	10/17/2000	7.25	27.1	1270		850	< 1	< 1		< 1	< 1	< 1	210	0010-09139-004
GMW-09MC	2/6/2001	7.33	27.3	1220		820	< 1	< 1		< 1	< 1	< 1	387	0102-00985-007
GMW-09MC	4/19/2001	7.45	27.1	1260		850	< 1	< 1		< 1	< 1	< 1	303	0104-02938-007
GMW-09MC	9/20/2001	7.42	27.4	1250		840	< 1	< 1		< 1	< 1	< 1	236	0109-07024-001
GMW-09MC	9/20/2001	7.42	27.4	1250		840	< 1	< 1		< 1	< 1	< 1		0109-07024-002
GMW-09MC	11/20/2001	7.4	26.5	1240		830	< 1	< 1		< 1	< 1	< 1	138	0111-08927-010
GMW-09MC	11/20/2001	7.4	26.5	1240		830	< 1	< 1		< 1	< 1	< 1		0111-08927-011
GMW-09MC	2/6/2002	7.3	25.3	1240		830	< 1	< 1		< 1	< 1	< 1	353	0202-01089-003
GMW-09MC	6/14/2002	7.46	27.8	1220		820	< 1	< 1		< 1	< 1	< 1	295	0206-04956-007
GMW-09MC	9/11/2002	7.34	28.2	1190		800	< 1	< 1		< 1	< 1	< 1	240	0209-07641-002
GMW-09MC	10/25/2002	7.3	26.8	1200		810	< 1	< 1		< 1	< 1	< 1	257	0210-09002-017
GMW-09MC	3/19/2003	7.33	26.7	1210		820	< 1	< 1	< 1	< 1	< 1	< 1	161	030302542002
GMW-09MC	6/25/2003	7.32	27.8	1160		780	< 1	< 1	< 1	< 1	< 1	< 1		030605833018
GMW-09MC	6/25/2003	7.32	27.8	1160		780	< 1	< 1	< 1	< 1	< 1	< 1		030605833008
GMW-09MC	9/18/2003	7.22	26	1180		790	< 1	< 1	< 1	< 1	< 1	< 1		030908952009
GMW-09MC	12/8/2003	7.49	23.8	1250		840	< 1	< 1	< 1	< 1	< 1	< 1		031212090006
GMW-09MC	2/24/2004	7.41	24.7	1230		820	< 1	< 1	< 1	< 1	< 1	< 1	226	040202114006
GMW-09MC	2/24/2004	7.41	24.7	1230		820	< 1	< 1	< 1	< 1	< 1	< 1		040202114007
GMW-09MC	4/23/2004	7.27	27.8	1120		760	< 1	< 1	< 1	< 1	< 1	< 1		040404468008
GMW-09MC	9/23/2004	7.31	29.7	1040		700	< 1	< 1	< 1	< 1	< 1	< 1		040911070009
GMW-09MC	12/21/2004	7.16	21.7	1240		830	< 1	< 1	< 1	< 1	< 1	< 1		04121265-08D
GMW-09MC	12/21/2004	7.16	21.7	1240		830	< 1	< 1	< 1	< 1	< 1	< 1		04121265-07D
GMW-09MC	3/9/2005												240	05030895-14B
GMW-09MC	3/9/2005	7.46	26.6	1180		800	< 1	< 1	< 1	< 1	< 1	< 1		05030895-15D
GMW-09MC	3/9/2005	7.46	26.6	1180		800	< 1	< 1	< 1	< 1	< 1	< 1		05030895-14D
GMW-09MC	6/8/2005	7.43	28.7	1100		740	< 1	< 1	< 1	< 1	< 1	< 1		05060846-02D
GMW-09MC	9/26/2005	7.3	29.5	1110		750	< 1	< 1	< 1	< 1	< 1	< 1		05091650-02D
GMW-09MC	12/9/2005	7.13	22.7	1270		850	< 1	< 1	< 1	< 1	< 1	< 1		05120894-13D
GMW-09MC	3/28/2006	7.09	25.9	1190		800	< 1	< 1	< 1	< 1	< 1	< 1	150	06031725-27D
GMW-09MC	6/14/2006	7.14	26.8	1170		780	< 1	< 1	< 1	< 1	< 1	< 1		06060615-07D
GMW-09MC	6/14/2006	7.14	26.8	1170		780	< 1	< 1	< 1	< 1	< 1	< 1		06060615-06D
GMW-09MC	8/29/2006												240	06081187-04B
GMW-09MC	9/25/2006	7.22	26.7	1220		830	< 1	< 1	< 1	< 1	< 1	< 1		06091031-01D
GMW-09MC	12/22/2006	7.3	21.2	1340		900	< 1	< 1	< 1	< 1	< 1	< 1		06120700-06D
GMW-09MC	3/29/2007	7.4	22.3	1410		940	< 1	< 1	< 1	< 1	< 1	< 1	240	07030871-40
GMW-09MC	5/30/2007	7.24	28	1270		860							288	07051077-03
GMW-09MC	6/6/2007	6.92	25.6	1300		870	< 1	< 1	< 1	< 1	< 1	< 1		07060256-06
GMW-09MC	8/30/2007	7.16	27.4	1300		870	< 1	< 1	< 1	< 1	< 1	< 1		07081159-01D
GMW-09MC	8/30/2007	7.16	27.4	1300		870	< 1	< 1	< 1	< 1	< 1	< 1		07081159-02D
GMW-09MC	9/19/2007	7.07	27.2	1330		890							234	07090693-01A
GMW-09MC	10/10/2007						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		198353-011
GMW-09MC	10/11/2007	7.25	26.4	2160										198353-011
GMW-09MC	1/8/2008	7.34	25.79	2273		1520	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	100	200453-001
GMW-09MC	6/18/2008	6.45	26.77	2480		1610							95	204083-012
GMW-09MC	6/18/2008	6.45	26.77	2480		1610							85	204083-010
GMW-09MC	7/28/2008	7.21	26.49	2426		1577	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	71	204938-005
GMW-09MC	11/20/2008	7.21	26.28	2350		1570	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		208075-011
GMW-09MC	2/18/2009												970	210202-038
GMW-09MC	2/18/2009	7.38	24.89	2482	384	1.66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		210202-026
GMW-09MC	5/19/2009	7.13	27.96	2490	203	1.67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		212306-008
GMW-09MC	8/25/2009	7.22	30.68	2484	208	1.66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		214514-018
GMW-09MC	11/18/2009	7.35	19.99	2467	241	1.65	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		216704-007
GMW-09MC	2/5/2010	7.26	22.91	4799	166	3.22							460	218208-008
GMW-09MC	2/5/2010	7.26	22.91	4799	166	3.22	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		218218-009
GMW-09MC	5/4/2010	7.54	25.87	2429	145	1.63	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		220017-007
GMW-09MC	8/27/2010	7.21	27.37	2797	215	1.87	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		222127-016
GMW-09MC	12/3/2010						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		224639-014
GMW-09MC	2/10/2011	6.97	25.19	2596	70.9		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	290	PGA SOUTH
GMW-09MC	8/9/2011	6.83	29.38	2339	105		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		PGA SOUTH
GMW-09MC	10/18/2011												3000	154540
GMW-09MC	11/11/2011	7.14	22.65	1819	46		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	610	154540
GMW-09MC	2/2/2012	7.42	25.27	2640	90.9		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	400	189044
GMW-09MC	5/2/2012	6.95	27.04	2190	110		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		189044

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
GMW-09MC	8/6/2012	7.27	27.67	2271	71.1		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		189044
GMW-09MC	11/7/2012				224		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		189044
GMW-09MC	2/6/2013				7.47		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1200	189044
GMW-09MC	5/7/2013				112		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4800	PGA South
GMW-09MC	8/8/2013				247		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	820	247818-003
GMW-09MC	11/6/2013				139		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	7300	250604-003
GMW-10LC	8/6/1992	7.8	29.2	2470		1650	<0.2	<0.2		<0.2	<0.2	<0.2		208604
GMW-10LC	12/30/1992	7.9	26.5	2460		1640	<0.2	<0.2		<0.2	<0.2	<0.2		21203001
GMW-10LC	12/31/1992	7.9	26.5	2460		1640	<0.2	<0.2		<0.2	<0.2	<0.2		212030
GMW-10LC	6/29/1993	7.55	28.3	2600		1300	<0.2	<0.2		<0.2	<0.2	<0.2		30750015
GMW-10LC	6/30/1993	7.55	28.3	2600		1300	<0.2	<0.2		<0.2	<0.2	<0.2		30750020
GMW-10LC	2/28/1994	7.53	27.4	2370		1580	<0.2	<0.2		<0.2	<0.2	<0.2		40351707
GMW-10LC	7/7/1994	7.27	27.9	2170		1450	<0.2	<0.2		<0.2	<0.2	<0.2		40760510
GMW-10LC	1/25/1995	7.84	26.6	2400		1790	<0.2	<0.2		<0.2	<0.2	<0.2		9501032401
GMW-10LC	6/29/1995	7.77	28.7	2460		1640	< 1	< 1		< 1	< 1	< 1		9507-06188-7
GMW-10LC	12/28/1995	7.44	26.2	2140		1490	< 1	< 1		< 1	< 1	< 1		9512-09221-36
GMW-10LC	12/28/1995	7.44	26.2	2140		1490	< 1	< 1		< 1	< 1	< 1		9512-09221-35
GMW-10LC	12/17/1996	7.67	25.9	2370		1560	< 1	< 1		< 1	< 1	< 1		9612-06566-8
GMW-10LC	11/24/1997	7.77	26.6	1640		1100	< 1	< 1		< 1	< 1	< 1		9711-07592-3
GMW-10LC	5/26/1998	7.72	28.3	1600		1080	< 1	< 1		< 1	< 1	< 1		9805-03593-3
GMW-10LC	2/6/1999	7.73	26.8	1620		1080	< 1	< 1		< 1	< 1	< 1		9902-01284-08
GMW-10LC	1/20/2000	7.71	27.8	1690		1130	< 1	< 1		< 1	< 1	< 1		0001-00680-002
GMW-10LC	1/29/2001	7.61	26.8	1250		1820	< 1	< 1		< 1	< 1	< 1		0101-00748-004
GMW-10LC	1/29/2001	7.61	26.8	1250		1820	< 1	< 1		< 1	< 1	< 1		0101-00748-003
GMW-10LC	1/24/2002	7.67	27.4	1780		1170	< 1	< 1		< 1	< 1	< 1		0201-00709-004
GMW-10LC	4/7/2006	7.2	28.5	1600		1080	< 1	< 1	< 1	< 1	< 1	< 1		06040770-02D
GMW-10LC	2/17/2009	7.06	26.04	2016	32.9	1.31	<0.5	<0.5	<0.5	0.5	<0.5	<0.5		210202-027
GMW-10LC	8/27/2009	7.67	26.98	3780	14.8	2.53	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		214574-013
GMW-10LC	8/31/2010	6.93	26.61	1506	7	1.01	0.2	<0.5	0.2	4.6	<0.5	<0.5		222178-017
GMW-10LC	12/1/2010						0.2	<0.5	0.2	5	<0.5	<0.5		224639-039
GMW-10LC	5/10/2011	6.89	26.1	1461	9.77		0.3	<0.5	0.2	5.3	<0.5	<0.5		PGA SOUTH
GMW-10LC	8/7/2011	7.21	25.7	1550	3.1		<0.5	<0.5	0.3	6.6	<0.5	<0.5		PGA SOUTH
GMW-10LC	11/10/2011	7	25.07	1293	2.76		0.3	<0.5	0.3	5.8	<0.5	<0.5	< 5	154540
GMW-10LC	2/5/2012	7.09	25.95	2100	2.3		0.1	<0.5	0.2	4.5	<0.5	<0.5		189044
GMW-10LC	5/5/2012	7.03	26.24	1522	1.44		<0.5	<0.5	<0.5	4.7	<0.5	<0.5		189044
GMW-10LC	8/13/2012						<0.5	<0.5	<0.5	3.8	<0.5	<0.5		189044
GMW-10LC	2/12/2013				72.8		<0.5	<0.5	0.2	2.5	<0.5	<0.5		189044
GMW-10LC	8/8/2013				46.3		<0.5	<0.5	<0.5	0.9	<0.5	<0.5		247818-016
GMW-10UC	8/5/1992	8.34	27.9	1860		1240	<0.2	<0.2		1.2	<0.2	<0.2		2086304
GMW-10UC	12/24/1992	7.3	25.6	1950		1270	<0.2	<0.2		0.8	<0.2	<0.2		212987
GMW-10UC	12/25/1992	7.3	25.6	1950		1270	<0.2	<0.2		0.7	<0.2	<0.2		21298701
GMW-10UC	6/29/1993	7.26	27.4	1950		1300	<0.2	<0.2		0.3	<0.2	<0.2		30750013
GMW-10UC	3/8/1994	7.37	27	1910		1290	<0.2	<0.2		0.3	<0.2	<0.2		40378314
GMW-10UC	3/9/1994	7.37	27	1910		1290	<0.2	<0.2		0.3	<0.2	<0.2		40378315
GMW-10UC	7/7/1994	7.18	27.5	1730		1140	<0.2	<0.2		<0.2	<0.2	<0.2		40760511
GMW-10UC	1/23/1995	7.43	26.1	2080		1400	<0.2	<0.2		<0.2	<0.2	<0.2		9501031946
GMW-10UC	6/29/1995	7.35	28	2020		1350	< 1	< 1		< 1	< 1	< 1		9507-06188-6
GMW-10UC	12/28/1995	7.27	25.3	2420		1790	< 1	< 1		< 1	< 1	< 1		9512-09221-34
GMW-10UC	12/17/1996	7.3	25.6	1940		1300	< 1	< 1		< 1	< 1	< 1		9612-06566-7
GMW-10UC	11/24/1997	7.16	26.2	1330		890	< 1	< 1		< 1	< 1	< 1		9711-07592-2
GMW-10UC	5/26/1998	7.3	27.6	1300		870	< 1	< 1		< 1	< 1	< 1		9805-03593-2
GMW-10UC	2/6/1999	7.25	26.1	1280		850	< 1	< 1		< 1	< 1	< 1		9902-01284-09
GMW-10UC	1/20/2000	7.29	27.2	1220		810	< 1	< 1		< 1	< 1	< 1		0001-00680-004
GMW-10UC	1/20/2000	7.29	27.2	1220		810	< 1	< 1		< 1	< 1	< 1		0001-00680-003
GMW-10UC	1/29/2001	7.04	25.4	1300		870	< 1	< 1		< 1	< 1	< 1		0101-00748-002
GMW-10UC	1/29/2001	7.04	25.4	1300		870	< 1	< 1		< 1	< 1	< 1		0101-00748-001
GMW-10UC	1/24/2002	7.2	26.2	1210		810	< 1	< 1		< 1	< 1	< 1		0201-00709-003
GMW-10UC	4/7/2006	7.09	28.5	1130		760	< 1	< 1	< 1	< 1	< 1	< 1		06040770-01D
GMW-10UC	2/17/2009	7.56	26.89	3710	16.2	2.41	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		210202-021
GMW-10UC	8/27/2009	7.13	26.13	1895	8.86	1.27	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		214574-012
GMW-10UC	12/3/2010						<0.5	<0.5	<0.5	0.2	<0.5	<0.5		PGA SOUTH
GMW-10UC	12/3/2010						<0.5	<0.5	<0.5	0.2	<0.5	<0.5		224639-015
GMW-10UC	8/8/2011	7.38	28.28	3205	31.5		<0.5	<0.5	<0.5	1.8	<0.5	<0.5		PGA SOUTH
GMW-11LC	8/6/1992	7.38	27.7	2320		1540	<0.2	<0.2		29.1	<0.2	<0.2		208604
GMW-11LC	12/23/1992	7.5	26.2	2860		1900	<0.2	<0.2		13.4	<0.2	<0.2		212987
GMW-11LC	6/18/1993	7.64	28.5	3000		1300	<0.2	<0.2		41	<0.2	<0.2		30689316
GMW-11LC	3/9/1994	7.51	26.5	2810		1890	<0.2	<0.2		81	0.6	<0.2		40378317
GMW-11LC	7/20/1994	7.23	27.7	2420		1620	0.8	0.4		48	0.4	0.4		40786504
GMW-11LC	1/16/1995	7.7	26.1	2830		1930	<0.2	<0.2		4.8	<0.2	<0.2		9501030621
GMW-11LC	6/21/1995	7.65	28	3030		2050	< 1	< 1		1.3	< 1	< 1		9506-06046-1
GMW-11LC	9/19/1995	7.56	28.8	3000		2010	< 1	< 1		< 1	< 1	< 1		9509-07574-11

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
GMW-11LC	12/18/1995	7.46	26.1	2910		1970	< 1	< 1		1.2	< 1	< 1		9512-09134-4
GMW-11LC	3/27/1996	7.22	27.3	2470		1650	< 1	< 1		2.1	< 1	< 1		9603-01526-5
GMW-11LC	3/27/1996	7.8	26.3	2850		1910	< 1	< 1		2.1	< 1	< 1		9603-01526-4
GMW-11LC	6/21/1996	7.6	28.6	2830		1890	< 1	< 1		1.8	< 1	< 1		9606-03105-1
GMW-11LC	9/20/1996	7.55	27.1	2940		1960	< 1	< 1		< 1	< 1	< 1		9609-04837-10
GMW-11LC	12/17/1996	7.45	25.7	2960		1980	< 1	< 1		1.5	< 1	< 1		9612-06566-9
GMW-11LC	2/19/1997	7.49	26.7	2960			< 1	< 1		1.1	< 1	< 1		9702-01144-6
GMW-11LC	2/19/1997	7.49	26.7	2960			< 1	< 1		1.1	< 1	< 1		9702-01144-7
GMW-11LC	6/10/1997	7.49	27.7	1980		1320	< 1	< 1		< 1	< 1	< 1		9706-03639-20
GMW-11LC	6/10/1997	7.49	27.7	1980		1320	< 1	< 1		< 1	< 1	< 1		9706-03639-19
GMW-11LC	9/11/1997	7.52	27.5	2080		1370	< 1	< 1		< 1	< 1	< 1		9709-05871-10
GMW-11LC	11/20/1997	7.49	26.7	1960		1320	< 1	< 1		< 1	< 1	< 1		9711-07532-5
GMW-11LC	11/20/1997	7.49	26.7	1960		1320	< 1	< 1		< 1	< 1	< 1		9711-07532-4
GMW-11LC	1/28/1998	7.55	26.6	2000		1340	< 1	< 1		< 1	< 1	< 1		9801-00660-3
GMW-11LC	1/28/1998	7.55	26.6	2000		1340	< 1	< 1		< 1	< 1	< 1		9801-00660-1
GMW-11LC	8/27/1998	7.54	29.4	1920		1270	< 1	< 1		< 1	< 1	< 1		9808-06031-3
GMW-11LC	8/27/1998	7.54	29.4	1920		1270	< 1	< 1		< 1	< 1	< 1		9808-06031-4
GMW-11LC	2/12/1999	7.58	26.7	2000		1340	< 1	< 1		< 1	< 1	< 1		9902-01472-06
GMW-11LC	7/28/1999	7.61	29.1	2010		1350	< 1	< 1		< 1	< 1	< 1		9907-06840-005
GMW-11LC	1/19/2000	7.7	27.2	2110		1410	< 1	< 1		< 1	< 1	< 1		0001-00632-008
GMW-11LC	7/21/2000	7.5	28.3	2160		1440	< 1	< 1		< 1	< 1	< 1		0007-06410-012
GMW-11LC	2/5/2001	7.48	27.1	2200		1470	< 1	< 1		< 1	< 1	< 1		0102-00985-004
GMW-11LC	9/13/2001	7.62	28.4	2220		1490	< 1	< 1		1	< 1	< 1		0109-06815-003
GMW-11LC	2/5/2002	7.7	27	2180		1460	< 1	< 1		< 1	< 1	< 1		0202-01006-007
GMW-11LC	2/5/2002	7.7	27	2180		1460	< 1	< 1		< 1	< 1	< 1		0202-01006-006
GMW-11LC	9/5/2002	7.58	27.4	2080		1390	< 1	< 1		< 1	< 1	< 1		0209-07468-009
GMW-11LC	9/5/2002	7.58	27.4	2080		1390	< 1	< 1		< 1	< 1	< 1		0209-07468-010
GMW-11LC	3/18/2003	7.31	26.9	2060		1380	< 1	< 1	< 1	< 1	< 1	< 1		030302447009
GMW-11LC	3/18/2003	7.31	26.9	2060		1380	< 1	< 1	< 1	< 1	< 1	< 1		030302447004
GMW-11LC	2/24/2004	7.62	25.9	2060		1380	< 1	< 1	< 1	< 1	< 1	< 1		040202114002
GMW-11LC	3/8/2005	7.6	27.3	2070		1380	< 1	< 1	< 1	< 1	< 1	< 1		05030895-07D
GMW-11LC	3/8/2005	7.6	27.3	2070		1380	< 1	< 1	< 1	< 1	< 1	< 1		05030895-06D
GMW-11LC	3/2/2006	7.15	27	1870		1250	< 1	< 1	< 1	< 1	< 1	< 1		06030607-11D
GMW-11LC	3/26/2007	7.43	28.9	1960		1300	< 1	< 1	< 1	< 1	< 1	< 1		07030871-15
GMW-11LC	11/20/2008	7.55	27.02	3720		2490	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		208075-019
GMW-11LC	2/17/2009	7.57	27.03	3824	13.2	2.49	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		210202-019
GMW-11LC	2/1/2010	7.72	26.78	3640	16.9	2.44	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		218171-017
GMW-11LC	11/30/2010						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		224639-035
GMW-11LC	2/8/2011	7.29	26.59	4187	4.71		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		PGA SOUTH
GMW-11LC	8/7/2011	7.64	262.66	3178	17.4		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		PGA SOUTH
GMW-11LC	2/5/2012	7.53	27.02	4370	4.81		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		189044
GMW-11LC	2/12/2013				92		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		189044
GMW-11UC	8/6/1992	7.73	28.2	2790		1860	<0.2	<0.2		1	<0.2	<0.2		208604
GMW-11UC	12/23/1992	7.2	25.5	2440		1630	<0.2	<0.2		0.6	<0.2	<0.2		212987
GMW-11UC	6/30/1993	7.2	27.3	2500		1300	<0.2	<0.2		0.8	<0.2	<0.2		30750018
GMW-11UC	3/8/1994	7.35	26.2	2350		1570	<0.2	<0.2		12	<0.2	<0.2		40378301
GMW-11UC	7/8/1994	7.18	26.9	2120		1420	<0.2	<0.2		17	<0.2	<0.2		40760516
GMW-11UC	1/16/1995	6.7	25.7	2470		2750	<0.2	<0.2		20	<0.2	<0.2		9501029591
GMW-11UC	6/28/1995	7.35	27.6	2460		1640	< 1	< 1		6.3	< 1	< 1		9507-06188-1
GMW-11UC	9/20/1995	7.36	27.2	2430		1630	< 1	< 1		2.2	< 1	< 1		9509-07574-14
GMW-11UC	12/18/1995	7.31	25.1	2510		1660	< 1	< 1		7.5	< 1	< 1		9512-09134-5
GMW-11UC	3/28/1996	7.25	25.9	2380		1590	< 1	< 1		10.4	< 1	< 1		9603-01561-1
GMW-11UC	6/24/1996	7.31	27.2	2340		1570	< 1	< 1		10.7	< 1	< 1		9606-03147-1
GMW-11UC	9/25/1996	7.15	27.8	2390		1590	1.4	< 1		27.7	< 1	< 1		9609-04963-7
GMW-11UC	9/25/1996	7.15	27.8	2390		1590	1.4	< 1		27.2	< 1	< 1		9609-04963-8
GMW-11UC	12/26/1996	7.02	25.6	2360		1580	< 1	< 1		32.7	< 1	< 1		9612-06692-4
GMW-11UC	12/26/1996	7.02	25.6	2360		1580	< 1	< 1		32.2	< 1	< 1		9612-06692-3
GMW-11UC	2/25/1997	7.12	25.5	2360			< 1	< 1		26.6	< 1	< 1		9702-01250-17
GMW-11UC	2/25/1997	7.12	25.5	2360			< 1	< 1		26.6	< 1	< 1		9702-01250-16
GMW-11UC	6/16/1997	7.27	27.7	1660		1110	1.6	< 1		33	< 1	< 1		9706-03832-3
GMW-11UC	6/16/1997	7.27	27.7	1660		1110	1.6	< 1		35	< 1	< 1		9706-03832-2
GMW-11UC	9/23/1997	7.46	26.3	1600		1070	1.4	< 1		29.7	< 1	< 1		9709-06208-9
GMW-11UC	12/12/1997	7.07	26	1720		1150	3.3	< 1		69	< 1	< 1		9712-08051-1
GMW-11UC	2/13/1998	7.17	25.8	1740		1150	3.2	< 1		32.6	< 1	< 1		9802-01144-2
GMW-11UC	9/9/1998	7.17	27.5	1770		1190	1.6	< 1		45.4	< 1	< 1		9809-06345-4
GMW-11UC	2/8/1999	7.09	26.6	1740		1160	2.3	< 1		53	< 1	< 1		9902-01334-07
GMW-11UC	7/31/1999	7.16	27.5	1730		1150	2	< 1		45.1	< 1	< 1		9908-06887-010
GMW-11UC	1/19/2000	7.22	26.1	1490		1000	1.8	< 1		35.6	< 1	< 1		0001-00868-005
GMW-11UC	1/19/2000	7.22	26.1	1490		1000	1.6	< 1		37.2	< 1	< 1		0001-00868-004
GMW-11UC	7/27/2000	7.26	27.8	1760		1190	< 1	< 1		21.7	< 1	< 1		0007-06600-011
GMW-11UC	2/22/2001	7.12	26.6	1840		1230	< 1	< 1		21.3	< 1	< 1		0102-01393-011

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
GMW-11UC	9/26/2001	7.2	28.4	1820		1220	< 1	< 1		14.4	< 1	< 1		0109-07212-002
GMW-11UC	2/18/2002	6.98	26.1	1690		1130	< 1	< 1		5.3	< 1	< 1		0202-01412-001
GMW-11UC	9/16/2002	7.18	28.1	1710		1140	< 1	< 1		5.1	< 1	< 1		0209-07807-001
GMW-11UC	3/24/2003	7.05	27.7	1680		1130	< 1	< 1	< 1	2.9	< 1	< 1		030302652005
GMW-11UC	9/22/2003	7.14	28.7	1400		920	< 1	< 1	< 1	13.5	< 1	< 1		030909106007
GMW-11UC	9/22/2003	7.14	28.7	1400		920	< 1	< 1	< 1	13.4	< 1	< 1		030909106006
GMW-11UC	3/2/2004	7.2	22.7	1780		1190	0.56	< 1	0.5	12	< 1	< 1		040302356010
GMW-11UC	3/2/2004	7.2	22.7	1780		1190	0.63	< 1	0.54	14	< 1	< 1		040302356009
GMW-11UC	9/27/2004	7.07	28.7	1560		1050	< 2	< 2	< 2	13.8	< 2	< 2		040911253001
GMW-11UC	3/22/2005	7.21	25.9	1640		1100	< 1	< 1	< 1	15	< 1	< 1		05031440-11D
GMW-11UC	9/28/2005						< 1	< 1	< 1	4.4	< 1	< 1		05091650-13D
GMW-11UC	9/28/2005	7.12	27.2	1560		1040	< 1	< 1	< 1	4.2	< 1	< 1		05091650-14D
GMW-11UC	3/13/2006	6.84	23.7	1630		1090	< 1	< 1	< 1	5.7	< 1	< 1		06031132-06D
GMW-11UC	5/17/2006	7.06	27.9	1410		950							24.3	06051217-05B
GMW-11UC	8/16/2006												21	06080731-07B
GMW-11UC	9/26/2006	7.11	28.6	1360		910	< 1	< 1	< 1	1.64	< 1	< 1		06091031-11D
GMW-11UC	3/23/2007	7.15	24.8	1470		990	< 1	< 1	< 1	1.11	< 1	< 1		07030871-13
GMW-11UC	5/31/2007	7.1	26.6	1390		920							28.9	07051097-02
GMW-11UC	9/19/2007	6.76	28.7	1470		980							37.1	07090693-03A
GMW-11UC	9/24/2007	6.88	27.7	1460		970	< 1	< 1	< 1	1.4	< 1	< 1		07091009-03D
GMW-11UC	1/22/2008	6.96	26.08	2499		1670	<0.5	<0.5	<0.5	1.1	<0.5	<0.5	31	200697-003
GMW-11UC	6/16/2008	6.32	26.73	2695		1810							37	204021-002
GMW-11UC	7/28/2008	7.07	26.31	2531		1645							15	204938-006
GMW-11UC	8/2/2008	6.86	26.29	2460		1599	<0.5	<0.5	<0.5	1.3	<0.5	<0.5		205111-013
GMW-11UC	2/16/2009	7.09	26.21	2471	6.12	1.61	<0.5	<0.5	<0.5	0.9	<0.5	<0.5		210202-033
GMW-11UC	8/27/2009	7.08	27.63	2469	13.1	1.65	<0.5	<0.5	<0.5	1.7	<0.5	<0.5		214574-014
GMW-11UC	2/1/2010	7.22	26.35	2333	7.8	1.56	0.4	<0.5	<0.5	2.9	<0.5	<0.5		218171-006
GMW-11UC	8/24/2010	7.12	26.76	1969	9.21	1.32	0.2	<0.5	<0.5	2	<0.5	<0.5		222127-004
GMW-11UC	5/7/2011	7.11	31.56	2610	9.47		0.1	<0.5	<0.5	1.8	<0.5	<0.5		PGA SOUTH
GMW-11UC	8/3/2011	6.23	31.75	1674	2.15		0.3	<0.5	0.1	4.4	<0.5	<0.5		PGA SOUTH
GMW-11UC	2/8/2012	7.28	26.83	2075	41.4		<0.5	<0.5	<0.5	1.5	<0.5	<0.5		189044
GMW-11UC	8/8/2012	6.98	30.4	1793	26.8		0.2	<0.5	<0.5	1.7	<0.5	<0.5		189044
GMW-11UC	2/12/2013				58.2		0.2	<0.5	<0.5	1.4	<0.5	<0.5		189044
GMW-11UC	8/8/2013				15.2		< 1.0	< 1.0	< 1.0	1.1	< 1.0	< 1.0		247818-018
GMW-12LC	8/7/1992	7.65	27.2	1990		1330	<0.2	<0.2		<0.2	<0.2	<0.2		208634
GMW-12LC	1/5/1993	7.5	25.8	1996		1320	<0.2	<0.2		<0.2	<0.2	<0.2		301538
GMW-12LC	6/30/1993	7.32	28.1	2000		1300	<0.2	<0.2		0.3	<0.2	<0.2		30750021
GMW-12LC	2/26/1994	7.36	26.3	1770		1170	<0.2	<0.2		<0.2	<0.2	<0.2		40351701
GMW-12LC	7/7/1994	7.18	28.4	1640		1100		<0.2		<0.2	<0.2	<0.2		40760512
GMW-12LC	1/27/1995	7.55	28.5	1860		1780	<0.2	<0.2		<0.2	<0.2	<0.2		9501032402
GMW-12UC	8/7/1992	7.43	26.8	2300		1530	<0.2	<0.2		<0.2	<0.2	<0.2		208634
GMW-12UC	1/5/1993	7.3	25.2	2250		1490	<0.2	<0.2		<0.2	<0.2	<0.2		301538
GMW-12UC	6/30/1993	7.21	27.2	2300		1300	<0.2	<0.2		<0.2	<0.2	<0.2		30750019
GMW-12UC	2/26/1994	7.3	26.2	1920		1270	<0.2	<0.2		<0.2	<0.2	<0.2		40351702
GMW-12UC	7/8/1994	7.19	26.1	1860		1260	<0.2	<0.2		<0.2	<0.2	<0.2		40760515
GMW-12UC	1/23/1995	7.1	25.1	1980			<0.2	<0.2		<0.2	<0.2	<0.2		9501031941
GMW-13UC	##############	6.7	21.55	3791	1.8	2.46								210261-001
GMW-13UC	4/12/1995	7.13	27.2	2750		1830	< 1	< 1		95.3	< 1	< 1		9504-4786-8
GMW-13UC	4/12/1995	7.13	27.2	2750		1830	< 1	< 1		92.6	< 1	< 1		9504-4786-7
GMW-13UC	5/17/1995	7.41	26.9	1880		1260	< 1	< 1		81.5	< 1	< 1		9505-5478-2
GMW-13UC	6/7/1995	7.15	26	2820		1880	< 1	< 1		122	< 1	< 1		9506-05804-1
GMW-13UC	7/13/1995	7.24	28.2	3040		2030	< 1	< 1		135	< 1	< 1		9507-06450-06
GMW-13UC	7/13/1995	7.24	28.2	3040		2030	< 1	< 1		137	< 1	< 1		9507-06450-05
GMW-13UC	8/10/1995	7.1	27.4	3070		2050	< 1	< 1		132	< 1	< 1		9508-06941-16
GMW-13UC	8/10/1995	7.1	27.4	3070		2050	< 1	< 1		123	< 1	< 1		9508-06941-15
GMW-13UC	9/11/1995	7.1	27.6	2680		1780	< 1	< 1		84.5	< 1	< 1		9509-07486-1
GMW-13UC	10/26/1995	7.02	25.6	2440		1630	< 1	< 1		67.2	< 1	< 1		9510-08288-2
GMW-13UC	10/26/1995	7.02	25.6	2440		1630	< 1	< 1		79.3	< 1	< 1		9510-08288-1
GMW-13UC	12/12/1995	6.99	26.1	2300		1520	< 1	< 1		71.9	< 1	< 1		9512-09012-7
GMW-13UC	3/15/1996	7.14	26.3	2300		1570	< 1	< 1		53.5	< 1	< 1		9603-01304-2
GMW-13UC	6/6/1996	7.13	27.4	2640		1770	< 1	< 1		76.8	< 1	< 1		9606-02833-5
GMW-13UC	6/6/1996						< 5		< 5	100	< 5			DelMar
GMW-13UC	9/9/1996	7.24	27.9	2490		1690	< 1	< 1		51.6	< 1	< 1		9609-04599-5
GMW-13UC	12/23/1996	6.88	24.9	2520		1690	< 1	< 1		66.1	< 1	< 1		9612-06657-3
GMW-13UC	2/24/1997	6.95	24.3	2550			< 1	< 1		74.2	< 1	< 1		9702-01250-5
GMW-13UC	5/30/1997	6.99	27.6	1830		1230	< 1	< 1		64.5	< 1	< 1	180	9706-03357-1
GMW-13UC	9/17/1997	6.93	26.5	1810		1210	1.2	<0.5		63.4	<0.5	<0.5		9709-06025-11
GMW-13UC	10/16/1997												152	9710-06746-5
GMW-13UC	12/16/1997	7	26.2	1700		1130	< 1	< 1		49.7	< 1	< 1	155	9712-08132-12
GMW-13UC	2/23/1998						< 1	< 1		34.1	< 1	< 1		9802-01284-2
GMW-13UC	2/23/1998	7.12	26.3	1500		1000	< 1	< 1		34	< 1	< 1	74	9802-01284-1

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
GMW-13UC	5/6/1998	7.15	27	1760		1180	< 1	< 1		59.6	< 1	< 1	193	9805-03152-7
GMW-13UC	9/13/1998	7.07	27.9	1700		1140	< 1	< 1		66.7	< 1	< 1	189	9809-06400-17
GMW-13UC	10/30/1998	7.07	25.5	1870		1280	< 1	< 1		65.7	< 1	< 1		9811-07838-8
GMW-13UC	10/30/1998	7.07	25.5	1870		1280	< 1	< 1		65.5	< 1	< 1	172	9811-07838-5
GMW-13UC	2/6/1999	7.02	26.1	1590		1060	< 1	< 1		44.1	< 1	< 1	110	9902-01284-04
GMW-13UC	4/20/1999	7.05	27.5	1770		1180	< 1	< 1		80.8	< 1	< 1	183	9904-03705-08
GMW-13UC	7/31/1999	6.92	28.1	1880		1250	1.4	< 1		79.5	< 1	< 1		9908-06887-018
GMW-13UC	10/20/1999	6.95	26.1	1220		1830	< 1	< 1		109	< 1	< 1	220	9910-09613-006
GMW-13UC	2/3/2000	7.01	26.4	1640		1100	1.5	< 1		57.4	< 1	< 1	151	0002-01144-003
GMW-13UC	4/6/2000	7.1	26.6	1760		1180	1.2	< 1		65.6	< 1	< 1	158	0004-03196-009
GMW-13UC	7/29/2000	7.17	27.3	1970		1320	1.4	< 1		74.3	< 1	< 1	219	0007-06667-014
GMW-13UC	10/20/2000	6.98	26.5	1880		1270	< 1	< 1		73	< 1	< 1		0010-09219-015
GMW-13UC	10/20/2000	6.98	26.5	1880		1270	< 1	< 1		79.2	< 1	< 1	177	0010-09219-014
GMW-13UC	3/1/2001	7	25.7	1720		1140	< 1	< 1		61.5	< 1	< 1	140	0103-01562-003
GMW-13UC	4/23/2001	7.13	26.7	1850		1240	1.1	< 1		72.8	< 1	< 1	179	0104-03010-003
GMW-13UC	9/28/2001	6.99	27.4	1970		1320	< 1	< 1		89.4	< 1	< 1	222	0110-07277-009
GMW-13UC	11/23/2001	6.98	25.6	1810		1210	1	< 1		76	< 1	< 1	212	0111-08940-006
GMW-13UC	2/18/2002	6.96	25.7	1650		1120	1.1	< 1		52	< 1	< 1	145	0202-01412-004
GMW-13UC	6/17/2002	7.05	28	1920		1300	< 1	< 1		115	< 1	< 1	254	0206-05041-001
GMW-13UC	9/18/2002	6.97	28	1980		1330	1.1	< 1		131	< 1	< 1	255	0209-07897-005
GMW-13UC	10/24/2002	6.94	26.3	1900		1270	1.6	< 1		141	< 1	< 1	244	0210-09002-012
GMW-13UC	3/27/2003	7.08	27.2	1750		1170	1	< 1	< 1	81	< 1	< 1	232	030302776003
GMW-13UC	3/27/2003	7.08	27.2	1750		1170	< 1	< 1	< 1	81	< 1	< 1		030302776004
GMW-13UC	6/26/2003	6.91	26.5	1890		1270	2.1	< 1	< 1	138	< 1	< 1		030605833011
GMW-13UC	9/24/2003	6.92	25.5	1950		1300	2.5	< 1	< 1	124	< 1	< 1		030909106023
GMW-13UC	9/24/2003	6.92	25.5	1950		1300	1.7	< 1	< 1	118	< 1	< 1		030909106022
GMW-13UC	12/9/2003	7.1	23.1	1760		1180	1.6	< 1	< 1	74.6	< 1	< 1		031212090017
GMW-13UC	12/9/2003	7.1	23.1	1760		1180	1.7	< 1	< 1	78	< 1	< 1		031212090016
GMW-13UC	3/8/2004	6.98	27.4	1640		1080	1.3	< 1	< 1	89	< 1	< 1	235	040302676001
GMW-13UC	5/6/2004	6.81	27.4	1780		1190	2	< 1	< 1	110	< 1	< 1		040505018001
GMW-13UC	9/28/2004	6.79	28.2	1830		1230	2.4	< 2	< 2	108	< 2	< 2		040911253012
GMW-13UC	12/16/2004	6.79	24.2	1840		1230	2.2	< 1	< 1	100	< 1	< 1		04121090-10D
GMW-13UC	3/18/2005	7.29	25.9	1240		830	< 1	< 1	< 1	7.9	< 1	< 1	17	05031440-01D
GMW-13UC	6/9/2005	6.96	26.6	1780		1190	2	< 1	< 1	110	< 1	< 1		05060846-12D
GMW-13UC	6/9/2005	6.96	26.6	1780		1190	2.2	< 1	< 1	110	< 1	< 1		05060846-11D
GMW-13UC	9/30/2005	6.92	28.9	1720		1160	2	< 1	< 1	110	< 1	< 1		05100435-06D
GMW-13UC	9/30/2005	6.92	28.9	1720		1160	2	< 1	< 1	100	< 1	< 1		05100435-07D
GMW-13UC	12/9/2005	6.86	24.8	1810		1210	< 1	< 1	< 1	110	< 1	< 1		05120894-15D
GMW-13UC	12/9/2005	6.86	24.8	1810		1210	1.1	< 1	< 1	120	< 1	< 1		05120894-16D
GMW-13UC	3/27/2006	7.09	26.5	1840		1230	2.7	< 1	< 1	97	< 1	< 1	360	06031725-24D
GMW-13UC	8/29/2006												440	06081187-05B
GMW-13UC	9/19/2006	6.98	25.9	2200		1470	3.17	< 1	< 1	179.6	< 1	< 1		06090740-11D
GMW-13UC	9/19/2006	6.98	25.9	2200		1470	2.08	< 1	< 1	118.77	< 1	< 1		06090740-15D
GMW-13UC	12/21/2006	6.97	22.7	2240		1510	2.88	< 1	< 1	97.65	< 1	< 1		06120700-02D
GMW-13UC	3/27/2007	6.91	25.7	2140		1420	3	< 1	< 1	170.1	< 1	< 1	395	07030871-23
GMW-13UC	5/31/2007	6.8	26.8	2280		1530							475	07051097-01
GMW-13UC	6/7/2007	6.78	25.1	2360		1580	3.57	< 1	< 1	135.9	< 1	< 1		07060256-10
GMW-13UC	9/19/2007	6.78	27.2	2280		1520							503	07090693-02A
GMW-13UC	9/26/2007	6.91	28.4	2150		1440	3.64	< 1	< 1	138	< 1	< 1		07091009-13D
GMW-13UC	10/10/2007	7.07	26.6	3660			3.4	< 1	< 1	110	< 1	< 1		198353-010
GMW-13UC	1/23/2008	6.73	25.86	2855		1910	1.5	<0.5	<0.5	56	<0.5	0.1		200724-008
GMW-13UC	1/23/2008	6.73	25.86	2855		1910	1.5	<0.5	0.07	57	<0.5	0.2	220	200724-007
GMW-13UC	4/16/2008	6.7	25.88	3598		2338	3.4	<0.5	<0.5	92	<0.5	0.3		202646-007
GMW-13UC	4/16/2008	6.7	25.88	3598		2338	2.9	<0.5	0.1	97	<0.5	0.3		202646-008
GMW-13UC	6/17/2008	5.98	26.16	3817		2560							420	204049-004
GMW-13UC	8/5/2008	6.61	25.93	3654		2377	5	<0.5	0.2	99	<0.5	0.3	480	205110-012
GMW-13UC	11/21/2008	6.75	25.87	3569		2390	2.8	<0.5	<0.5	70	<0.5	0.2	570	208077-009
GMW-13UC	2/21/2009						2.3	<0.5	<0.5	56	<0.5	<0.5	460	210261-003
GMW-13UC	2/21/2009						2.6	<0.5	0.1	60	<0.5	0.1	510	210261-001
GMW-13UC	5/21/2009	6.64	26.46	3769	4.62	2.53	4.1	0.5	0.2	100	0.5	0.3		212365-002
GMW-13UC	5/21/2009	6.64	26.46	3769	4.62	2.53	3.2	1	1	110	1	1		212365-001
GMW-13UC	8/29/2009	6.62	30.29	4336	11.7	2.91	3.8	<0.5	<0.5	100	<0.5	0.4		214574-002
GMW-13UC	11/21/2009	6.79	24.68	3618	4.17	2.42	5	<0.5	0.1	85	<0.5	0.3		216790-012
GMW-13UC	2/4/2010												370	218222-001
GMW-13UC	2/4/2010	6.81	25.64	6558	8.17	4.39							370	218208-010
GMW-13UC	2/4/2010						3.3	<0.5	<0.5	91	<0.5	0.2		218209-019
GMW-13UC	2/4/2010	6.81	25.64	6558	8.17	4.39	3.2	<0.5	<0.5	83	<0.5	0.2		218209-016
GMW-13UC	2/4/2010	6.81	25.64	6558	8.17	4.39	3.1	<0.5	<0.5	89	<0.5	0.2		218222-007
GMW-13UC	2/4/2010						4.5	<0.5	0.1	78	<0.5	0.2		218209-010
GMW-13UC	2/4/2010						4.4	<0.5	0.1	98	<0.5	0.2		218209-012
GMW-13UC	2/4/2010						3.2	<0.5	0.5	84	<0.5	0.2		218209-018

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
GMW-13UC	5/5/2010	6.81	31.26	3793	2.76	2.54	3.6	<0.5	<0.5	96	<0.5	0.2		220017-016
GMW-13UC	5/5/2010	6.81	31.26	3793	2.76	2.54	3.8	<0.5	<0.5	96	<0.5	0.3		220017-015
GMW-13UC	9/1/2010	6.4	30.05	3561	2.43	2.39	3.2	<0.5	<0.5	96	<0.5	0.2		222178-018
GMW-13UC	12/8/2010						2.4	<0.7	<0.7	76	<0.7	0.2	410	224639-003
GMW-13UC	2/15/2011	6.46	28.27	2941	6.31		2.9	<0.5	<0.5	93	<0.5	0.2	340	PGA SOUTH
GMW-13UC	5/12/2011	6.44	30.61	3196	1.39		3.5	<0.5	0.2	89	<0.5	0.2		PGA SOUTH
GMW-13UC	8/2/2011						3.1	<0.7	<0.7	100	<0.7	0.7		PGA SOUTH
GMW-13UC	8/11/2011						3.9	<0.5	0.1	98	<0.5	0.3	570	PGA SOUTH
GMW-13UC	11/9/2011	6.73	25.81	2981	1.74		4	<0.5	0.1	82	<0.5	0.3	480	154540
GMW-13UC	2/9/2012	6.75	25.24	4053	2.79		3.4	<0.5	0.2	97	<0.5	0.2	420	189044
GMW-13UC	5/7/2012	6.33	28.22	3488	1.7		2.6	<0.7	<0.7	82	<0.7	0.4		189044
GMW-13UC	8/13/2012	6.74	28.37	3314	1.35		2.8	<0.7	<0.7	89	<0.7	0.2		189044
GMW-13UC	11/8/2012				11.5		1.8	<0.7	<0.7	58	<0.7	0.2		189044
GMW-13UC	2/6/2013				6.43		2.5	<0.5	0.2	71	<0.5	0.2	320	189044
GMW-13UC	5/7/2013				7.4		2.2	<0.5	0.1	70	<0.5	0.2	420	PGA South
GMW-13UC	8/8/2013				2.21		2	<0.5	<0.5	75	<0.5	0.2 J	450	247818-013
GMW-13UC	10/21/2013						3.7	<0.5	<0.5	81	<0.5	0.2 J	430	250082-001
GMW-13UC	10/21/2013						3.2	<0.5	<0.5	80	<0.5	0.2 J	430	250082-004
GMW-13UC	10/21/2013						2.7	<0.5	<0.5	73	<0.5	0.2 J	400	250082-002
GMW-13UC	10/21/2013						1.6	<0.5	<0.5	45	<0.5	<0.5	420	250082-003
GMW-13UC	11/6/2013				3.23		1.8	<0.5	0.1 J	59	<0.5	0.2 J	460	250604-006
GMW-14UC	10/14/1999	7.31	27	1180		790	< 1	< 1		34.7	< 1	< 1	49	9910-09459-002
GMW-14UC	4/6/2000	7.38	26.2	1190		800	< 1	< 1		25.3	< 1	< 1	38	0004-03196-006
GMW-14UC	7/29/2000	7.33	27.3	1240		830	< 1	< 1		30.4	< 1	< 1	46	0007-06667-013
GMW-14UC	10/20/2000	7.29	26.2	1200		800	< 1	< 1		22.8	< 1	< 1	32	0010-09219-013
GMW-14UC	3/1/2001	7.25	25.1	1280		860	< 1	< 1		26.1	< 1	< 1	35	0103-01562-002
GMW-14UC	4/24/2001	7.3	27.1	1250		830	< 1	< 1		21.7	< 1	< 1	43	0104-03010-008
GMW-14UC	9/28/2001	7.24	27.3	1320		890	< 1	< 1		23.7	< 1	< 1	48	0110-07277-007
GMW-14UC	11/23/2001	7.21	25.3	1340		900	< 1	< 1		26	< 1	< 1		0111-08940-007
GMW-14UC	11/23/2001	7.21	25.3	1340		900	< 1	< 1		25	< 1	< 1	64	0111-08940-005
GMW-14UC	2/16/2002	7.14	26	1530		890	< 1	< 1		27	< 1	< 1	66	0202-01372-010
GMW-14UC	6/17/2002	7.36	27.4	1210		810	< 1	< 1		22.6	< 1	< 1	50	0206-05041-004
GMW-14UC	9/18/2002	7.25	27.7	1240		820	< 1	< 1		21.8	< 1	< 1		0209-07897-004
GMW-14UC	9/18/2002	7.25	27.7	1240		820	< 1	< 1		23.7	< 1	< 1	42	0209-07897-003
GMW-14UC	10/24/2002	7.25	26	1270		850	< 1	< 1		11.4	< 1	< 1		0210-09002-020
GMW-14UC	10/24/2002	7.25	26	1270		850	< 1	< 1		25.8	< 1	< 1	38	0210-09002-011
GMW-14UC	3/27/2003	7.2	27.5	1290		870	< 1	< 1	< 1	28.9	< 1	< 1	76	030302776001
GMW-14UC	5/30/2003						< 1	< 1	< 1	30.4	< 1	< 1	43	030604879004
GMW-14UC	10/31/2003	7.26	27.4	1280		860	< 1	< 1	< 1	38.6	< 1	< 1		031110495006
GMW-14UC	1/30/2004	7.31	22.9	1340		900	< 1	< 1	< 1	25	< 1	< 1		040201087004
GMW-14UC	4/30/2004	7.19	27.8	1270		860	< 1	< 1	< 1	34	< 1	< 1	50	040504728004
GMW-14UC	8/5/2004	7.15	27.3	1120		760	< 1	< 1	< 1	31	< 1	< 1	51	040808873004
GMW-14UC	12/16/2004	7.14	22.6	1340		900	< 1	< 1	< 1	30	< 1	< 1		04121090-08D
GMW-14UC	1/26/2005	7.2	22.4	1310		880	< 1	< 1	< 1	29	< 1	< 1	40	05011481-05D
GMW-14UC	5/3/2005	7.21	28.6	1150		770	< 1	< 1	< 1	25	< 1	< 1		05050647-04D
GMW-14UC	7/25/2005	7.25	28.5	1190		800	< 1	< 1	< 1	15	< 1	< 1		05071450-04D
GMW-14UC	10/25/2005	7.25	28.8	1100		730	< 1	< 1	< 1	15	< 1	< 1		05101626-04D
GMW-14UC	1/25/2006	7.12	22.2	1300		870	< 1	< 1	< 1	14	< 1	< 1	26	06011686-05D
GMW-14UC	6/8/2006	7.11	27.1	1100		740	< 1	< 1	< 1	16	< 1	< 1		06060404-04D
GMW-14UC	9/19/2006	7.22	26.7	1170		790	< 1	< 1	< 1	15.07	< 1	< 1		06090740-12D
GMW-14UC	12/21/2006	7.32	23.2	1500		1000	< 1	< 1	< 1	15.82	< 1	< 1		06120700-01D
GMW-14UC	3/27/2007	7.07	24.7	1370		920	< 1	< 1	< 1	20.89	< 1	< 1	37.2	07030871-24
GMW-14UC	6/5/2007	6.98	25.8	1200		810	< 1	< 1	< 1	14.86	< 1	< 1		07060256-03
GMW-14UC	9/26/2007	7.21	28.5	1310		880	< 1	< 1	< 1	14.32	< 1	< 1		07091009-12D
GMW-14UC	10/9/2007	7.12	25.8	2120		960	<0.5	<0.5	<0.5	14	<0.5	<0.5		198353-003
GMW-14UC	1/22/2008	6.85	25.04	2227		1490	0.1	<0.5	<0.5	20	<0.5	<0.5	40	200697-007
GMW-14UC	4/16/2008	7.04	25.27	2096		1363	<0.5	<0.5	<0.5	14	<0.5	0.2		202646-005
GMW-14UC	8/1/2008	7.04	26.32	2011		1307							23	205110-002
GMW-14UC	8/1/2008						<0.5	<0.5	<0.5	12	<0.5	0.2		205111-003
GMW-14UC	11/21/2008	7.1	24.2	2028		1360	<0.5	<0.5	<0.5	6.7	<0.5	<0.5		208077-010
GMW-14UC	2/20/2009	7.07	23.63	2272	59.6	1.48	<0.5	<0.5	<0.5	4.5	<0.5	<0.5	23	210249-027
GMW-14UC	2/20/2009						<0.5	<0.5	<0.5	4.3	<0.5	<0.5	21	210249-026
GMW-14UC	5/20/2009	6.94	29.6	2371	17.7	1.59	0.2	<0.5	<0.5	24	<0.5	0.2		212368-001
GMW-14UC	5/20/2009	6.94	29.6	2371	17.7	1.59	0.3	<0.5	<0.5	25	<0.5	0.2		212367-006
GMW-14UC	8/29/2009	6.67	30.73	2577	13	1.73	<0.5	<0.5	<0.5	16	<0.5	<0.5	39	214574-001
GMW-14UC	11/21/2009	7.08	20.57	2138	428	1.43	0.3	<0.5	<0.5	14	<0.5	<0.5		216790-011
GMW-14UC	2/4/2010	7.02	25.19	4033	8.78	2.7							25	218208-002
GMW-14UC	2/4/2010	7.02	25.19	4033	8.78	2.7							25	218208-007
GMW-14UC	2/4/2010						0.2	<0.5	<0.5	16	<0.5	<0.5		218209-017
GMW-14UC	2/4/2010	7.02	25.19	4033	8.78	2.7	0.2	<0.5	<0.5	13	<0.5	<0.5		218218-011
GMW-14UC	2/4/2010						0.3	<0.5	<0.5	19	<0.5	<0.5		218209-014

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
GMW-14UC	2/4/2010	7.02	25.19	4033	8.78	2.7	0.2	<0.5	<0.5	13	<0.5	<0.5		218218-012
GMW-14UC	2/4/2010						0.2	<0.5	<0.5	19	<0.5	<0.5		218209-013
GMW-14UC	5/5/2010	7.13	28.15	2118	6.02	1.42	<0.5	<0.5	<0.5	11	<0.5	<0.5		220017-014
GMW-14UC	8/31/2010	6.37	28.86	1979	9.33	1.33	<0.5	<0.5	<0.5	10	<0.5	<0.5	19	222178-007
GMW-14UC	12/7/2010						<0.5	<0.5	<0.5	13	<0.5	<0.5		224639-031
GMW-14UC	2/15/2011	6.86	26.58	1870	7.54		<0.5	<0.5	<0.5	4.9	<0.5	<0.5		PGA SOUTH
GMW-14UC	5/12/2011	6.78	28.25	1861	80.2		<0.5	<0.5	<0.5	7.2	<0.5	<0.5	27	PGA SOUTH
GMW-14UC	8/10/2011	6.6	29.15	1939	9.08		<0.5	<0.5	<0.5	8.1	<0.5	<0.5	19	PGA SOUTH
GMW-14UC	11/14/2011	6.85	24.74	1578	8.6		<0.5	<0.5	<0.5	9.4	<0.5	<0.5	21	PGA SOUTH
GMW-14UC	2/8/2012	6.89	25.42	2440	18.5		<0.5	<0.5	<0.5	11	<0.5	<0.5	23	189044
GMW-14UC	5/7/2012	7.17	27.26	1936	16.4		<0.5	<0.5	<0.5	9.8	<0.5	<0.5		189044
GMW-14UC	8/13/2012	7.55	26.96	1877	6.21		<0.5	<0.5	<0.5	8	<0.5	<0.5	21	189044
GMW-14UC	11/7/2012				30.1		0.2	<0.5	<0.5	12	<0.5	<0.5		189044
GMW-14UC	2/6/2013				17.9		<0.5	<0.5	<0.5	8.4	<0.5	<0.5	19	189044
GMW-14UC	5/7/2013				20.7		<0.5	<0.5	<0.5	4.4	<0.5	<0.5		PGA South
GMW-14UC	8/9/2013				19.3		<0.5	<0.5	<0.5	5.9	<0.5	<0.5		247902-004
GMW-14UC	10/21/2013						<0.5	<0.5	<0.5	1.2	<0.5	<0.5	6.5	250082-008
GMW-14UC	10/21/2013						<0.5	<0.5	<0.5	2.1	<0.5	<0.5	13	250082-007
GMW-14UC	10/21/2013						<0.5	<0.5	<0.5	4.4	<0.5	<0.5	11	250082-006
GMW-14UC	10/21/2013						<0.5	<0.5	<0.5	4.0	<0.5	<0.5	28	250082-005
GMW-14UC	11/6/2013				95.2		<0.5	<0.5	<0.5	3.8	<0.5	<0.5	23	250604-007
GMW-15UC	10/14/1999	7.29	26.8	1220		820	< 1	< 1		11.8	< 1	< 1	11	9910-09459-003
GMW-15UC	4/6/2000	7.2	26	1160		780	< 1	< 1		13.1	< 1	< 1	12	0004-03196-005
GMW-15UC	4/6/2000	7.2	26	1160		780	< 1	< 1		11.7	< 1	< 1		0004-03196-007
GMW-15UC	7/29/2000	7.39	25.5	1200		800	< 1	< 1		11.6	< 1	< 1	12	0007-06667-010
GMW-15UC	10/20/2000	7.19	25.6	1230		820	< 1	< 1		12.8	< 1	< 1	11	0010-09219-012
GMW-15UC	2/26/2001	7.36	24.5	1120		750	< 1	< 1		12.5	< 1	< 1	15	0102-01473-008
GMW-15UC	4/25/2001	7.31	25.3	1140		760	< 1	< 1		11.6	< 1	< 1	13	0104-03058-002
GMW-15UC	9/28/2001	7.31	27.2	1190		790	< 1	< 1		12.9	< 1	< 1	13	0110-07277-003
GMW-15UC	11/23/2001	7.32	24.8	1070		730	< 1	< 1		7.9	< 1	< 1	12	0111-08940-004
GMW-15UC	2/16/2002	7.32	25.1	1050		700	< 1	< 1		12	< 1	< 1	12	0202-01372-003
GMW-15UC	6/17/2002	7.43	27.4	1080		720	< 1	< 1		14.2	< 1	< 1	14	0206-05041-003
GMW-15UC	9/17/2002	7.34	26.3	1100		750	< 1	< 1		12.2	< 1	< 1	12	0207-07807-012
GMW-15UC	10/24/2002	7.1	25.2	1140		770	< 1	< 1		13.7	< 1	< 1	10	0210-09002-010
GMW-15UC	3/27/2003	7.32	24	1060		710	< 1	< 1	< 1	11.1	< 1	< 1	13	030302776016
GMW-15UC	5/30/2003						< 1	< 1	< 1	13.4	< 1	< 1	12	030604879003
GMW-15UC	10/31/2003		25.5	1080		720	< 1	< 1	< 1	14.3	< 1	< 1		031110495005
GMW-15UC	1/30/2004	7.43	22.3	1100		740	< 1	< 1	< 1	9.2	< 1	< 1		040201087003
GMW-15UC	4/30/2004	7.29	28.4	1100		730	< 1	< 1	< 1	11	< 1	< 1	12	040504728003
GMW-15UC	8/5/2004	7.23	27.8	1070		720	< 1	< 1	< 1	12	< 1	< 1	12	040808873003
GMW-15UC	12/16/2004	7.15	21.6	1260		850	< 1	< 1	< 1	14	< 1	< 1		04121090-07D
GMW-15UC	1/26/2005	7.28	22	1250		840	< 1	< 1	< 1	14	< 1	< 1	< 10	05011481-04D
GMW-15UC	5/3/2005	7.31	28.8	1100		740	< 1	< 1	< 1	14	< 1	< 1		05050647-03D
GMW-15UC	7/25/2005	7.4	28.3	1060		710	< 1	< 1	< 1	11	< 1	< 1		05071450-03D
GMW-15UC	10/25/2005	7.28	27.9	950		640	< 1	< 1	< 1	9.2	< 1	< 1		05101626-03D
GMW-15UC	1/25/2006	7.1	22.3	1140		760	< 1	< 1	< 1	7.1	< 1	< 1	15	06011686-04D
GMW-15UC	6/7/2006	7.01	27.6	1020		680	< 1	< 1	< 1	5.7	< 1	< 1		06060404-03D
GMW-15UC	9/18/2006	7.34	26.6	1080		720	< 1	< 1	< 1	5.56	< 1	< 1		06090740-07D
GMW-15UC	9/18/2006	7.34	26.6	1080		720	< 1	< 1	< 1	5.76	< 1	< 1		06090740-17D
GMW-15UC	12/19/2006	7.33	21	1280		860	< 1	< 1	< 1	5.19	< 1	< 1		06120700-18D
GMW-15UC	4/18/2007	7.15	24	1240		830	< 1	< 1	< 1	4.73	< 1	< 1	15.3	07040678-12
GMW-15UC	6/5/2007	7.23	24.5	1210		810	< 1	< 1	< 1	4.62	< 1	< 1		07060256-02
GMW-15UC	9/25/2007	6.81	25.6	1270		840	< 1	< 1	< 1	4.99	< 1	< 1		07091009-09D
GMW-15UC	9/25/2007	6.81	25.6	1270		840	< 1	< 1	< 1	4.69	< 1	< 1		07091009-08D
GMW-15UC	10/9/2007	7.21	24.8	2160		897	<0.5	<0.5	<0.5	5.2	<0.5	<0.5		198353-006
GMW-15UC	10/9/2007	7.21	24.8	2160		897	<0.5	<0.5	<0.5	5.2	<0.5	<0.5		198353-005
GMW-15UC	1/10/2008	7.13	24.37	2138		1430	<0.5	<0.5	<0.5	5	<0.5	<0.5	11	200517-010
GMW-15UC	11/21/2008	7.23	21.25	2056		1380	<0.5	<0.5	<0.5	1.6	<0.5	<0.5		208077-011
GMW-15UC	2/18/2009												13	210202-045
GMW-15UC	2/18/2009	7.17	21.6	2167	19.3	1.42	<0.5	<0.5	<0.5	1	<0.5	<0.5		210202-016
GMW-15UC	5/20/2009	7.05	25.62	2380	2.06	1.59	<0.5	<0.5	<0.5	4.2	<0.5	<0.5		212367-004
GMW-15UC	11/20/2009	7.18	21.8	2189	18.4	1.47	<0.5	<0.5	<0.5	1.6	<0.5	<0.5		216790-004
GMW-15UC	2/3/2010	7.17	26.08	4645	4.39	3.11							5.2	218167-008
GMW-15UC	2/3/2010	7.17	26.08	4645	4.39	3.11	<0.5	<0.5	<0.5	2	<0.5	<0.5		218171-026
GMW-15UC	5/4/2010	7.34	27.23	2242	5.54	1.5	<0.5	<0.5	<0.5	2.6	<0.5	<0.5		220017-009
GMW-15UC	8/30/2010	7.01	26.29	2415	1.22	1.62	<0.5	<0.5	<0.5	2.4	<0.5	<0.5		222127-027
GMW-15UC	8/30/2010	7.01	26.29	2415	1.22	1.62	<0.5	<0.5	<0.5	2.4	<0.5	<0.5		
GMW-15UC	12/5/2010						<0.5	<0.5	<0.5	1.7	<0.5	<0.5		PGA SOUTH
GMW-15UC	12/5/2010						<0.5	<0.5	<0.5	1.7	<0.5	<0.5		224639-023
GMW-15UC	2/12/2011	6.93	25.08	2356	12.1		<0.5	<0.5	<0.5	1.4	<0.5	<0.5	5.4	PGA SOUTH
GMW-15UC	5/26/2011	6.64	24.73	2510	32.9		<0.5	<0.5	<0.5	0.6	<0.5	<0.5		PGA SOUTH

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
GMW-15UC	8/10/2011	6.78	25.2	2021	1.28		<0.5	<0.5	<0.5	1.2	<0.5	<0.5		PGA SOUTH
GMW-15UC	10/18/2011												10	154540
GMW-15UC	11/11/2011	7.11	24.07	1701	0.82		<0.5	<0.5	<0.5	0.9	<0.5	<0.5	3.3	154540
GMW-15UC	2/7/2012	7.23	23	2707	5		<0.5	<0.5	<0.5	0.7	<0.5	<0.5	8.8	189044
GMW-15UC	5/4/2012	7.12	26.53	21900	0.9		<0.5	<0.5	<0.5	0.7	<0.5	<0.5		189044
GMW-15UC	8/7/2012	6.75	28.55	2209	5.1		<0.5	<0.5	<0.5	0.7	<0.5	<0.5		189044
GMW-15UC	11/7/2012				16.6		<0.5	<0.5	<0.5	0.2	<0.5	<0.5		189044
GMW-15UC	2/6/2013				21.9		<0.5	<0.5	<0.5	0.1	<0.5	<0.5	4.9	189044
GMW-15UC	5/7/2013				41.8		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		PGA South
GMW-15UC	8/9/2013				55.1		<0.5	<0.5	<0.5	0.3 J	<0.5	<0.5		247902-005
GMW-15UC	11/6/2013				185		<0.5	<0.5	<0.5	0.1 J	<0.5	<0.5	8.0 J	250604-008
GMW-16UC	4/6/2000	7.28	25.7	1820		1220	< 1	< 1		4.1	< 1	< 1	8	0004-03196-004
GMW-16UC	7/29/2000	7.25	25.2	1980		1320	< 1	< 1		4	< 1	< 1	7	0007-06667-009
GMW-16UC	10/20/2000	7.22	25	1860		1250	< 1	< 1		6.3	< 1	< 1	8	0010-09219-011
GMW-16UC	2/26/2001	7.23	24	1910		1280	< 1	< 1		7.9	< 1	< 1	9	0102-01473-006
GMW-16UC	4/25/2001	7.24	24.7	1970		1320	< 1	< 1		6.5	< 1	< 1	10	0104-03058-001
GMW-16UC	9/28/2001	7.27	27.1	1930		1290	< 1	< 1		6.3	< 1	< 1	8	0110-07277-002
GMW-16UC	11/23/2001	7.2	23.2	1940		1300	< 1	< 1		4.7	< 1	< 1	8	0111-08940-003
GMW-16UC	2/16/2002	7.25	23.6	1890		1260	< 1	< 1		9.5	< 1	< 1	8	0202-01372-002
GMW-16UC	6/17/2002	17.28	26.1	1800		1200	< 1	< 1		8.8	< 1	< 1	11	0206-05041-002
GMW-16UC	9/17/2002	7.3	25.7	1850		1240	< 1	< 1		6.8	< 1	< 1	8	0207-07807-011
GMW-16UC	10/24/2002	7.21	25	1870		1240	< 1	< 1		7.2	< 1	< 1	6	0210-09002-009
GMW-16UC	3/26/2003	7.12	25.1	1820		1220	< 1	< 1	< 1	7.4	< 1	< 1	10	030302776014
GMW-16UC	5/30/2003						< 1	< 1	< 1	9.6	< 1	< 1	12	030604879002
GMW-16UC	10/31/2003	7.23	25.8	1700		1140	< 1	< 1	< 1	9.2	< 1	< 1		031110495004
GMW-16UC	1/30/2004	7.37	23.5	1680		1120	< 1	< 1	< 1	6.2	< 1	< 1		040201087002
GMW-16UC	4/30/2004	7.29	28.6	1480		990	< 1	< 1	< 1	8.4	< 1	< 1	12	040504728002
GMW-16UC	8/5/2004	7.2	27.7	1030		1530	< 1	< 1	< 1	8.8	< 1	< 1	12	040808873002
GMW-16UC	12/16/2004	7.11	20.6	1660		1120	< 1	< 1	< 1	10	< 1	< 1		04121090-06D
GMW-16UC	1/26/2005	7.25	22	1720		1150	< 1	< 1	< 1	9.5	< 1	< 1	10	05011481-03D
GMW-16UC	5/3/2005	7.26	27.8	1320		890	< 1	< 1	< 1	9.4	< 1	< 1		05050647-02D
GMW-16UC	7/25/2005	7.3	27.9	1310		880	< 1	< 1	< 1	9.6	< 1	< 1		05071450-02D
GMW-16UC	10/25/2005	7.32	25.5	1400		940	< 1	< 1	< 1	10	< 1	< 1		05101626-02D
GMW-16UC	1/25/2006	7.21	21.5	1630		1090	< 1	< 1	< 1	12	< 1	< 1	18	06011686-03D
GMW-16UC	6/7/2006	7.15	26.5	1470		980	< 1	< 1	< 1	10	< 1	< 1		06060404-02D
GMW-16UC	9/18/2006	7.28	24.9	1450		960	< 1	< 1	< 1	10.51	< 1	< 1		06090740-06D
GMW-16UC	12/19/2006	7.28	21.2	1550		1040	< 1	< 1	< 1	11.25	< 1	< 1		06120700-17D
GMW-16UC	12/19/2006	7.28	21.2	1550		1040	< 1	< 1	< 1	10.78	< 1	< 1		06120700-16D
GMW-16UC	3/27/2007	7.17	23.5	1470		980	< 1	< 1	< 1	11.25	< 1	< 1	18.1	07030871-20
GMW-16UC	3/27/2007	7.17	23.5	1470		980	< 1	< 1	< 1	11.28	< 1	< 1		07030871-22
GMW-16UC	6/28/2007	7.02	25.1	1430		960	< 1	< 1	< 1	11	< 1	< 1		07060907-01
GMW-16UC	9/25/2007	6.79	26.4	1300		870	< 1	< 1	< 1	10.47	< 1	< 1		07091009-07D
GMW-16UC	10/10/2007	7.22	23.9	2190			<0.5	<0.5	<0.5	10	<0.5	<0.5		198353-008
GMW-16UC	1/22/2008	6.52	23.59	2156		1450	<0.5	<0.5	<0.5	8.7	<0.5	<0.5	16	200697-006
GMW-16UC	4/16/2008	7.12	23.66	2436		1580	<0.5	<0.5	<0.5	11	<0.5	<0.5		202646-006
GMW-16UC	11/20/2008	7.14	27.29	2396		1600	<0.5	<0.5	<0.5	3.3	<0.5	<0.5		208075-040
GMW-16UC	2/20/2009	7.16	25.65	2295	1000	1.54	<0.5	<0.5	<0.5	4.9	<0.5	<0.5	22	210249-023
GMW-16UC	5/20/2009	7.15	27.69	2046	105	1.37	<0.5	<0.5	<0.5	10	<0.5	<0.5		212367-005
GMW-16UC	11/21/2009	7.22	19	2084	482	1.4	<0.5	<0.5	<0.5	12	<0.5	<0.5		216790-010
GMW-16UC	2/5/2010	7.24	25.32	3523	15.5	2.36							18	218208-006
GMW-16UC	2/5/2010						<0.5	<0.5	<0.5	9.7	<0.5	<0.5		218218-010
GMW-16UC	2/5/2010						<0.5	<0.5	<0.5	9.3	<0.5	<0.5		218218-018
GMW-16UC	2/5/2010	7.24	25.32	3523	15.5	2.36	<0.5	<0.5	<0.5	11	<0.5	<0.5		218218-008
GMW-16UC	2/5/2010						<0.5	<0.5	<0.5	8	<0.5	<0.5		218218-020
GMW-16UC	5/5/2010	7.32	26.35	2393	134	1.6	<0.5	<0.5	<0.5	11	<0.5	<0.5		220017-013
GMW-16UC	8/31/2010	6.57	27.56	2230	55.2	1.49	<0.5	<0.5	<0.5	12	<0.5	<0.5		222178-006
GMW-16UC	12/6/2010						<0.5	<0.5	<0.5	12	<0.5	<0.5		224639-029
GMW-16UC	2/14/2011	7.39	26.71	2337	33.6		<0.5	<0.5	<0.5	12	<0.5	<0.5	19	PGA SOUTH
GMW-16UC	5/12/2011	7.19	26.26	2257	27.7		<0.5	<0.5	<0.5	13	<0.5	<0.5		PGA SOUTH
GMW-16UC	8/2/2011						<0.5	<0.5	<0.5	18	<0.5	<0.5		PGA SOUTH
GMW-16UC	8/11/2011	6.76	26	2043	27.3		<0.5	<0.5	<0.5	15	<0.5	<0.5	17	PGA SOUTH
GMW-16UC	11/15/2011	7.16	21.95	1440	3.9		<0.5	<0.5	<0.5	15	<0.5	<0.5	17	PGA SOUTH
GMW-16UC	2/9/2012	7.22	23.56	2582	67.2		<0.5	<0.5	<0.5	13	<0.5	<0.5	14	189044
GMW-16UC	5/7/2012	7.16	26.83	2338	109		<0.5	<0.5	<0.5	14	<0.5	<0.5		189044
GMW-16UC	8/14/2012	7.1	25.96	2065	78.8		<0.5	<0.5	<0.5	17	<0.5	<0.5		189044
GMW-16UC	11/7/2012				27.2		<0.5	<0.5	<0.5	16	<0.5	<0.5		189044
GMW-16UC	2/6/2013				7.91		<0.5	<0.5	<0.5	16	<0.5	<0.5	16	189044
GMW-16UC	5/7/2013				11.4		<0.5	<0.5	<0.5	2.4	<0.5	<0.5		PGA South
GMW-16UC	8/9/2013				9.47		<0.5	<0.5	<0.5	9.7	<0.5	<0.5		247902-006
GMW-16UC	11/6/2013				47.8		<0.5	<0.5	<0.5	6.4	<0.5	<0.5	17	250604-009
GMW-17UC	3/17/2000						< 1	< 1		12.2	< 1	< 1		0003-02506-001

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
GMW-17UC	4/5/2000	7.28	25.6	1930		1300	< 1	< 1		13.2	< 1	< 1	8	0004-03148-001
GMW-17UC	7/25/2000	7.54	27.3	2150		1440	< 1	< 1		10.8	< 1	< 1	15	0007-06500-010
GMW-17UC	10/20/2000	7.24	24.6	2140		1430	< 1	< 1		13.1	< 1	< 1	12	0010-09219-010
GMW-17UC	2/20/2001	7.29	23.7	2090		1400	< 1	< 1		13.2	< 1	< 1	12	0102-01314-014
GMW-17UC	4/24/2001	7.39	25.3	2080		1390	< 1	< 1		13.1	< 1	< 1		0104-03010-010
GMW-17UC	4/24/2001	7.39	25.3	2080		1390	< 1	< 1		12.3	< 1	< 1	12	0104-03010-009
GMW-17UC	9/27/2001	7.24	27.3	2250		1510	< 1	< 1		10.7	< 1	< 1	13	0109-07260-006
GMW-17UC	11/23/2001	7.34	22.8	2180		1450	< 1	< 1		7.7	< 1	< 1	12	0111-08940-002
GMW-17UC	2/7/2002	7.22	23.6	2150		1440	< 1	< 1		9.9	< 1	< 1	11	0202-01152-009
GMW-17UC	6/18/2002	7.31	25.4	2210		1480	< 1	< 1		9.6	< 1	< 1		0206-05041-007
GMW-17UC	6/18/2002	7.31	25.4	2210		1480	< 1	< 1		11	< 1	< 1	13	0206-05041-005
GMW-17UC	9/12/2002	7.32	27.7	2120		1410	< 1	< 1		10.2	< 1	< 1	12	0209-07700-005
GMW-17UC	10/24/2002	7.23	24.7	2160		1440	< 1	< 1		11.4	< 1	< 1	10	0210-09002-008
GMW-17UC	3/20/2003	7.16	24.9	2010		1340	< 1	< 1	< 1	11.8	< 1	< 1	13	030302542011
GMW-17UC	5/30/2003						< 1	< 1	< 1	12.5	< 1	< 1	14	030604879001
GMW-17UC	10/30/2003	7.21	25	1940		1300	< 1	< 1	< 1	16.8	< 1	< 1		031110495001
GMW-17UC	1/30/2004	7.3	20.7	2120		1410	< 1	< 1	< 1	11	< 1	< 1		040201087001
GMW-17UC	4/30/2004	7.25	26.5	1550		1040	< 1	< 1	< 1	15	< 1	< 1	16	040504728001
GMW-17UC	8/5/2004	7.29	27.4	1590		1070	< 1	< 1	< 1	15	< 1	< 1	21	040808873001
GMW-17UC	12/16/2004	7.31	19.5	1900		1280	< 1	< 1	< 1	17	< 1	< 1		04121090-13D
GMW-17UC	12/16/2004	7.31	19.5	1900		1280	< 1	< 1	< 1	17	< 1	< 1		04121090-05D
GMW-17UC	1/25/2005	7.19	23.4	1750		1170	< 1	< 1	< 1	16	< 1	< 1	19	05011481-01D
GMW-17UC	5/3/2005	7.23	27.3	1470		980	< 1	< 1	< 1	14	< 1	< 1		05050647-01D
GMW-17UC	7/25/2005	7.21	26.2	1500		1010	< 1	< 1	< 1	13	< 1	< 1		05071450-01D
GMW-17UC	10/25/2005	7.27	27.1	1360		910	< 1	< 1	< 1	14	< 1	< 1		05101626-01D
GMW-17UC	1/25/2006	7.25	24.1	1510		1010	< 1	< 1	< 1	12	< 1	< 1	26	06011686-02D
GMW-17UC	6/7/2006	7.1	27	1370		920	< 1	< 1	< 1	10	< 1	< 1		06060404-01D
GMW-17UC	9/18/2006	7.24	24.3	1490		1000	< 1	< 1	< 1	8.09	< 1	< 1		06090740-05D
GMW-17UC	12/19/2006	7.23	21.3	1700		1140	< 1	< 1	< 1	9.17	< 1	< 1		06120700-15D
GMW-17UC	3/27/2007	7.22	23.7	1480		990	< 1	< 1	< 1	10.05	< 1	< 1	20.3	07030871-19
GMW-17UC	6/5/2007	7.12	29.3	1540		1040	< 1	< 1	< 1	9.78	< 1	< 1		07060256-01
GMW-17UC	9/25/2007	7.04	27.2	1440		960	< 1	< 1	< 1	10.57	< 1	< 1		07091009-06D
GMW-17UC	10/10/2007	7.25	24.2	2420			<0.5	<0.5	<0.5	10	<0.5	<0.5		198353-009
GMW-17UC	1/10/2008	7.41	24.48	1826		1220	<0.5	<0.5	<0.5	4.4	<0.5	<0.5	13	200517-016
GMW-17UC	4/15/2008	7.14	24.69	1929		1254	<0.5	<0.5	<0.5	4.9	<0.5	<0.5		202646-003
GMW-17UC	8/2/2008	7.23	24.58	1738		1130							13	205110-001
GMW-17UC	8/2/2008						<0.5	<0.5	<0.5	5	<0.5	<0.5		205111-010
GMW-17UC	11/20/2008	7.3	25.69	1595		1070	<0.5	<0.5	<0.5	2.1	<0.5	<0.5		208075-015
GMW-17UC	2/18/2009												25	210202-039
GMW-17UC	2/18/2009	7.33	20.54	1745	396	1.17	<0.5	<0.5	<0.5	1.8	<0.5	<0.5		210202-025
GMW-17UC	5/19/2009	7.26	28.44	1837	115	1.23	<0.5	<0.5	<0.5	2.9	<0.5	<0.5		212306-010
GMW-17UC	8/29/2009	7.16	29.48	2028	219	1.36	<0.5	<0.5	<0.5	3.5	<0.5	<0.5		214574-010
GMW-17UC	11/20/2009	7.27	18.89	2149	127	1.44	0.1	<0.5	<0.5	5.8	<0.5	<0.5		216790-003
GMW-17UC	2/5/2010	7.33	24.25	3252	120	2.18							8.9	218208-005
GMW-17UC	2/5/2010						<0.5	<0.5	<0.5	1.1	<0.5	<0.5		218218-021
GMW-17UC	2/5/2010						<0.5	<0.5	<0.5	0.3	<0.5	<0.5		218218-019
GMW-17UC	2/5/2010						<0.5	<0.5	<0.5	0.3	<0.5	<0.5		218218-017
GMW-17UC	2/5/2010	7.33	24.25	3252	120	2.18	<0.5	<0.5	<0.5	0.9	<0.5	<0.5		218218-005
GMW-17UC	5/4/2010	7.63	24.72	1698	117	1.14	<0.5	<0.5	<0.5	1.5	<0.5	<0.5		220017-008
GMW-17UC	8/28/2010	6.58	26.09	1764	2.13	1.18	<0.5	<0.5	<0.5	1.8	<0.5	<0.5		222127-024
GMW-17UC	12/5/2010						<0.5	<0.5	<0.5	2	<0.5	<0.5		224639-007
GMW-17UC	2/12/2011	7.04	24.72	1870	41.2		<0.5	<0.5	<0.5	2	<0.5	<0.5	9.8	PGA SOUTH
GMW-17UC	5/11/2011	6.9	27.34	2135	6.37		<0.5	<0.5	<0.5	2.3	<0.5	<0.5		PGA SOUTH
GMW-17UC	8/9/2011	6.84	25.72	17.95	4.23		<0.5	<0.5	<0.5	4.8	<0.5	<0.5		PGA SOUTH
GMW-17UC	11/12/2011	7.24	24.23	1319	0.73		<0.5	<0.5	<0.5	2.2	<0.5	<0.5	7.2	PGA SOUTH
GMW-17UC	2/7/2012	7.37	22.76	2358	45		<0.5	<0.5	<0.5	3.2	<0.5	<0.5	11	189044
GMW-17UC	5/4/2012	7.2	26.26	1825	49.7		<0.5	<0.5	<0.5	3.5	<0.5	<0.5		189044
GMW-17UC	8/10/2012	7.34	28.53	1684	36.3		<0.5	<0.5	<0.5	2.5	<0.5	<0.5		189044
GMW-17UC	11/7/2012				27.1		<0.5	<0.5	<0.5	1.7	<0.5	<0.5		189044
GMW-17UC	2/6/2013				13.7		<0.5	<0.5	<0.5	2	<0.5	<0.5	9.5	189044
GMW-17UC	5/7/2013				22.8		<0.5	<0.5	<0.5	3.6	<0.5	<0.5		PGA South
GMW-17UC	8/9/2013				13.1		<0.5	<0.5	<0.5	10	<0.5	<0.5		247902-007
GMW-17UC	11/6/2013				103		<0.5	<0.5	<0.5	14	<0.5	<0.5	47	250604-010
GMW-18UC	3/23/2009						< 1	< 1	< 1	< 1	< 1	< 1	390	PSC1291-02
GMW-18UC	3/24/2009						< 1	< 1	< 1	7.8	< 1	< 1	190	PSC1289-002
GMW-18UC	3/24/2009						< 1	< 1	< 1	1.8	< 1	< 1	320	PSC1358-001
GMW-18UC	3/24/2009						< 1	< 1	< 1	7	< 1	< 1	150	PSC1289-001
GMW-18UC	3/25/2009						< 1	< 1	< 1	< 1	< 1	< 1		PSC1360-01
GMW-18UC	3/26/2009												61	PSC1360-01
GMW-18UC	3/31/2009						< 1	< 1	< 1	6.6	< 1	< 1	29	PSD0024-01
GMW-18UC	5/20/2009	6.9	24.01	5113	1.06	3.43	<0.5	<0.5	<0.5	6.5	<0.5	<0.5	25	212367-008

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
GMW-18UC	8/29/2009	6.91	29.07	5390	2	3.61	<0.5	<0.5	<0.5	4.4	<0.5	<0.5	16	214574-011
GMW-18UC	9/23/2009	7.02	29.37	4961	1	3.32	<0.5	<0.5	<0.5	4.8	<0.5	<0.5		215185-013
GMW-18UC	9/23/2009	7.02	29.37	4961	1	3.32	<0.5	<0.5	<0.5	4.7	<0.5	<0.5		215185-012
GMW-18UC	10/21/2009	7.01	29.02	4685	1.01		<0.5	<0.5	<0.5	4.5	<0.5	<0.5		215904-011
GMW-18UC	10/21/2009	7.01	29.02	4685	1.01		<0.5	<0.5	<0.5	4.4	<0.5	<0.5		215904-010
GMW-18UC	11/20/2009	7.02	25.87	4656	0.54	3.12	0.1	<0.5	<0.5	3.6	<0.5	<0.5	13	216790-006
GMW-18UC	12/16/2009	6.86	23.07	5100	0	3.42	<0.5	<0.5	<0.5	3.1	<0.5	<0.5	16	217363-001
GMW-18UC	2/4/2010	6.97	22.45	9187	1.03	6.16							13	218209-001
GMW-18UC	2/4/2010	6.97	22.45	9187	1.03	6.16								218208-001
GMW-18UC	2/4/2010	6.97	22.45	9187	1.03	6.16	<0.5	<0.5	<0.5	3.9	<0.5	<0.5		218218-013
GMW-18UC	5/4/2010	7.13	26.16	4584	0.4	3.07	<0.5	<0.5	<0.5	4.3	<0.5	<0.5	11	220017-010
GMW-18UC	8/30/2010	6.61	25.47	4796	1.02	3.21	<0.5	<0.5	<0.5	3	<0.5	<0.5	13	222127-028
GMW-18UC	12/5/2010						<0.5	<0.5	<0.5	3.2	<0.5	<0.5	15	224639-024
GMW-18UC	2/13/2011	7.05	19.58	4610	0.5		<0.5	<0.5	<0.5	2.1	<0.5	<0.5	12	PGA SOUTH
GMW-18UC	5/11/2011	6.88	26.3	5270	1.46		<0.5	<0.5	<0.5	3.4	<0.5	<0.5		PGA SOUTH
GMW-18UC	8/4/2011						<0.5	<0.5	<0.5	2.9	<0.5	<0.5		PGA SOUTH
GMW-18UC	8/10/2011	6.96	28.8	4103	0.85		<0.5	<0.5	<0.5	2.9	<0.5	<0.5	13	PGA SOUTH
GMW-18UC	11/14/2011	6.82	21.18	3010	0.21		<0.5	<0.5	<0.5	3.2	<0.5	<0.5	11	PGA SOUTH
GMW-18UC	2/7/2012	7.04	23.63	4357	0.5		<0.5	<0.5	<0.5	0.8	<0.5	<0.5	11	189044
GMW-18UC	5/4/2012	6.79	27.5	4263	0.26		<0.5	<0.5	<0.5	3.3	<0.5	<0.5		189044
GMW-18UC	8/9/2012	6.59	30.2	3953	0.63		<0.5	<0.5	<0.5	3	<0.5	<0.5		189044
GMW-18UC	11/7/2012				6.74		<0.5	<0.5	<0.5	2.8	<0.5	<0.5		189044
GMW-18UC	2/6/2013				4.57		<0.5	<0.5	<0.5	3	<0.5	<0.5	11	189044
GMW-18UC	8/9/2013				7.05		<0.5	<0.5	<0.5	2.7	<0.5	<0.5		247902-008
GMW-18UC	11/6/2013				5.35		<0.5	<0.5	<0.5	2.5	<0.5	<0.5	15	250604-011
GMW-19LC	3/17/2009						< 1	< 1	< 1	< 1	< 1	< 1	110	PSC1032-02
GMW-19LC	3/18/2009						< 1	< 1	< 1	0.92	< 1	< 1	160	PSC1088-01
GMW-19LC	3/18/2009						< 1	< 1	< 1	0.62	< 1	< 1	350	PSC1088-02
GMW-19LC	3/18/2009						< 1	< 1	< 1	0.73	< 1	< 1	170	PSC1088-03
GMW-19LC	3/19/2009						< 1	< 1	< 1	1.6	< 1	< 1	111	PSC1120-01
GMW-19LC	3/30/2009						< 1	< 1	< 1	4.8	< 1	< 1	23	PSC1577-02
GMW-19LC	5/20/2009	7.05	25.69	2875	10	1.93	<0.5	<0.5	<0.5	11	<0.5	<0.5	39	212367-007
GMW-19LC	11/20/2009	7.09	23.9	2921	31.3	1.96	<0.5	<0.5	<0.5	11	<0.5	<0.5	36	216790-008
GMW-19LC	11/20/2009	7.09	23.9	2921	31.3	1.96	0.3	<0.5	<0.5	10	<0.5	<0.5	34	216790-007
GMW-19LC	2/6/2010	7.08	22.97	5789	14.2	3.88							44	218208-012
GMW-19LC	2/6/2010	7.08	22.97	5789	14.2	3.88							38	218208-011
GMW-19LC	2/6/2010	7.08	22.97	5789	14.2	3.88	0.5	<0.5	<0.5	8.7	<0.5	<0.5		218209-006
GMW-19LC	2/6/2010	7.08	22.97	5789	14.2	3.88	0.1	<0.5	<0.5	10	<0.5	<0.5		218209-005
GMW-19LC	5/5/2010	7.09	23.27	3800	6.19	2.55	0.1	<0.5	<0.5	17	<0.5	<0.5	37	220017-012
GMW-19LC	9/1/2010	6.76	25.58	3124	2.54	2.09	0.2	<0.5	<0.5	14	<0.5	<0.5	39	222178-011
GMW-19LC	12/7/2010						0.4	<0.5	<0.5	14	<0.5	<0.5	54	224639-001
GMW-19LC	2/15/2011	6.68	23.08	3345	1.45		<0.5	<0.5	<0.5	4.8	<0.5	<0.5	39	PGA SOUTH
GMW-19LC	5/12/2011	6.32	27.86	2365	2.28		<0.5	<0.5	<0.5	6.9	<0.5	<0.5		PGA SOUTH
GMW-19LC	8/2/2011						<0.5	<0.5	<0.5	15	<0.5	<0.5		PGA SOUTH
GMW-19LC	8/11/2011	6.63	26.11	3500	2.14		0.2	<0.5	<0.5	14	<0.5	0.1	50	PGA SOUTH
GMW-19LC	11/14/2011	6.71	23.32	1575	0.74		0.2	<0.5	<0.5	16	<0.5	<0.5	41	PGA SOUTH
GMW-19LC	2/9/2012	6.98	25.06	3955	1.07		0.2	<0.5	<0.5	14	<0.5	<0.5	41	189044
GMW-19LC	5/7/2012	6.73	25.8	3815	1.02		0.2	<0.5	<0.5	16	<0.5	<0.5		189044
GMW-19LC	8/14/2012	6.64	27.53	3427	5.08		<0.5	<0.5	<0.5	16	<0.5	0.1		189044
GMW-19LC	11/8/2012				72		0.1	<0.5	<0.5	13	<0.5	<0.5		189044
GMW-19LC	2/6/2013				14.5		0.1	<0.5	<0.5	10	<0.5	<0.5	39	189044
GMW-19LC	5/7/2013				13.4		0.2	<0.5	<0.5	15	<0.5	<0.5		PGA South
GMW-19LC	8/9/2013				24.5		<0.5	<0.5	<0.5	13	<0.5	<0.5		247902-009
GMW-19LC	11/6/2013				12.2		0.1 J	<0.5	<0.5	15	<0.5	<0.5	55	250604-012
GMW-20LC	12/5/2008						< 1	< 1	< 1	< 1	< 1	< 1	890	PRL0412-03
GMW-20LC	12/5/2008						< 1	< 1	< 1	< 1	< 1	< 1		PRL0365-03
GMW-20LC	12/5/2008						< 1	< 1	< 1	< 1	< 1	< 1	220	PRL0412-02
GMW-20LC	12/5/2008						< 1	< 1	< 1	< 1	< 1	< 1	160	PRL0412-01
GMW-20LC	12/6/2008													PRL0424-01
GMW-20LC	12/8/2008												92	PRL0365-03
GMW-20LC	12/8/2008						< 1	< 1	< 1	2.4	< 1	< 1	89	PRL0424-01
GMW-20LC	12/9/2008													PRL0424-01
GMW-20LC	12/10/2008													PRL0610-01
GMW-20LC	12/11/2008												37	PRL0610-01
GMW-20LC	12/13/2008						< 1	< 1	< 1	< 1	< 1	< 1		PRL0610-01
GMW-20LC	12/16/2008													PRL0610-01
GMW-20LC	1/22/2009						< 1	< 1	< 1	3.2	< 1	< 1	< 10	PSA1166-02
GMW-20LC	2/20/2009	7.24	24.23	2206	337	1.43	<0.5	<0.5	<0.5	1.4	<0.5	<0.5	9.2	210249-022
GMW-20LC	5/19/2009	6.93	33.53	2747	662	1.84	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	140	212306-009
GMW-20LC	8/26/2009						<0.5	<0.5	<0.5	0.3	<0.5	<0.5	11	214514-020
GMW-20LC	11/18/2009	7.16	24.69	2988	67.8	2	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	14	216704-009

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
GMW-20LC	2/2/2010	7.29	23.19	3084	491	2.07							4.4	218167-007
GMW-20LC	2/2/2010	7.29	23.19	3084	491	2.07	<0.5	<0.5	<0.5	0.2	<0.5	<0.5		218171-001
GMW-20LC	5/3/2010	7.1	27.09	2207	13.3	1.48	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	5	220017-004
GMW-20LC	5/3/2010	7.1	27.09	2207	13.3	1.48	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	3.5	220017-003
GMW-20LC	8/27/2010	6.71	24.58	2680	11.4	1.8	<0.5	<0.5	<0.5	0.8	<0.5	<0.5	6.3	222127-018
GMW-20LC	12/4/2010						<0.5	<0.5	<0.5	0.7	<0.5	<0.5	< 9	224639-018
GMW-20LC	2/10/2011	6.82	24.04	2698	5.23		<0.5	<0.5	<0.5	0.7	<0.5	<0.5	12	PGA SOUTH
GMW-20LC	8/9/2011	6.57	28.08	2963	15.8		<0.5	<0.5	<0.5	0.5	<0.5	<0.5		PGA SOUTH
GMW-20LC	10/19/2011												7.6	154540
GMW-20LC	11/12/2011	7.03	22.37	1748	9.91		<0.5	<0.5	<0.5	0.7	<0.5	<0.5	11	PGA SOUTH
GMW-20LC	2/6/2012	6.98	24.26	2251	7.5		<0.5	<0.5	<0.5	1.2	<0.5	<0.5	9.4	189044
GMW-20LC	5/3/2012	7.06	26.58	2005	5.67		<0.5	<0.5	<0.5	1.2	<0.5	<0.5		189044
GMW-20LC	8/8/2012	7.06	26.74	2046	0.14		<0.5	<0.5	<0.5	1.1	<0.5	<0.5		189044
GMW-20LC	11/7/2012				15.6		<0.5	<0.5	<0.5	1.1	<0.5	<0.5		189044
GMW-20LC	2/6/2013				12.4		<0.5	<0.5	<0.5	0.8	<0.5	<0.5	10	189044
GMW-20LC	5/7/2013				6.47		<0.5	<0.5	<0.5	0.8	<0.5	<0.5		PGA South
GMW-20LC	8/9/2013				65		<0.5	<0.5	<0.5	1.4	<0.5	<0.5		247902-010
GMW-20LC	11/6/2013				508		<0.5	<0.5	<0.5	1.9	<0.5	<0.5	37	250604-013
GMW-21UC	6/7/2010						<0.5	<0.5	<0.5	45	<0.5	<0.5		PTF0584-02
GMW-21UC	6/8/2010						<0.5	<0.5	<0.5	3.9	<0.5	<0.5		PTF0584-03
GMW-21UC	6/8/2010						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		PTF0584-04
GMW-21UC	6/8/2010						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		PTF0584-05
GMW-21UC	6/24/2010						0.65	< 1	< 1	140	< 1	0.35		PTF1386-01
GMW-21UC	7/27/2010						< 1	< 1	< 1	4.5	< 1	< 1	<0.01	PTG1526-01
GMW-21UC	8/31/2010	7.08	26.2	1905	37.6	1.28	<0.5	<0.5	<0.5	0.8	<0.5	<0.5		222178-003
GMW-21UC	9/30/2010						<0.5	<0.5	<0.5	1.3	<0.5	<0.5		222848-001
GMW-21UC	9/30/2010						<0.5	<0.5	<0.5	0.5	<0.5	<0.5		222848-002
GMW-21UC	10/18/2010						<0.5	<0.5	<0.5	0.8	<0.5	<0.5		223344-002
GMW-21UC	12/4/2010						<0.5	<0.5	<0.5	1.4	<0.5	<0.5		224639-019
GMW-21UC	12/4/2010						<0.5	<0.5	<0.5	0.8	<0.5	<0.5		224639-020
GMW-21UC	2/10/2011	6.68	27.07	2519	13.1		<0.5	<0.5	<0.5	0.3	<0.5	<0.5	7.4	PGA SOUTH
GMW-21UC	5/11/2011	7.22	26.04	2556	98.2		<0.5	<0.5	<0.5	0.5	<0.5	<0.5		PGA SOUTH
GMW-21UC	8/4/2011	6.72	30.21	2109	12.6		<0.5	<0.5	<0.5	0.4	<0.5	<0.5		PGA SOUTH
GMW-21UC	11/17/2011	6.88	26.79	1713	10									154540
GMW-21UC	2/3/2012	6.83	26.57	2604	20.2		<0.5	<0.5	<0.5	0.5	<0.5	<0.5		189044
GMW-21UC	8/6/2012	6.87	30.89	2426	28.5		<0.5	<0.5	<0.5	0.1	<0.5	<0.5		189044
GMW-21UC	2/12/2013				105		<0.5	<0.5	<0.5	0.2	<0.5	<0.5		189044
GMW-21UC	8/8/2013				26.8		<0.5	<0.5	<0.5	0.2 J	<0.5	<0.5		247818-017
GMW-22UC	6/15/2010						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		PTF0956-02
GMW-22UC	6/15/2010						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		PTF0956-03
GMW-22UC	6/16/2010						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		PTF0956-04
GMW-22UC	6/16/2010						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		PTF0956-05
GMW-22UC	6/24/2010						< 1	< 1	< 1	0.48	< 1	< 1		PTF1386-02
GMW-22UC	8/26/2010	7.23	30.9	1714	44.1	1.15	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		222127-013
GMW-22UC	9/30/2010						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		222848-003
GMW-22UC	9/30/2010						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		222848-004
GMW-22UC	10/18/2010						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		223344-004
GMW-22UC	12/6/2010						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		224639-028
GMW-22UC	2/11/2011												4.5	PGA SOUTH
GMW-22UC	2/15/2011	6.82	21.48	1148	7.14		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		PGA SOUTH
GMW-22UC	5/9/2011	7.12	26.45	1537	8.47		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		PGA SOUTH
GMW-22UC	8/8/2011	6.47	27.71	1436	13.4		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		PGA SOUTH
GMW-22UC	11/17/2011	7.1	25	905	21.2									154540
GMW-22UC	2/6/2012	7.26	25.74	1317	11.8		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		189044
GMW-23UC	2/16/2012						<0.5	<0.5	<0.5	0.4	<0.5	<0.5	7.8	234458-001
GMW-23UC	5/2/2012	6.62	29.49	1877	1.06		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		235957-002
GMW-23UC	8/7/2012	6.93	29.99	1959	7.82		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		238695-002
GMW-23UC	11/7/2012				2.77		<0.5	<0.5	<0.5	0.1	<0.5	<0.5		241095-012
GMW-23UC	2/6/2013				2.23		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		242961-008
GMW-23UC	8/8/2013				5.77		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		247818-019
GMW-24	2/7/2013				6.66		5.9	<0.5	0.4	67	<0.5	0.6		189044
GMW-24	5/7/2013				5.43		10	<0.5	0.4	77	<0.5	0.8		PGA South
GMW-24A	8/9/2013				6.5		10	<0.5	0.3 J	77	<0.5	0.9		247902-014
GMW-24A	11/5/2013				5.57		12	<0.5	0.4 J	74	<0.5	0.8		250555-009
GMW-25	5/7/2013				20.1		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		PGA South
GMW-25LC	8/12/2013				8.14		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	18	247902-001
GMW-25LC	11/6/2013				12.2		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	24	250604-014
GMW-26	5/7/2013				20.4		<0.5	<0.5	<0.5	4.5	<0.5	<0.5		PGA South
GMW-26LC	8/12/2013				8.22		<0.5	<0.5	<0.5	1.2	<0.5	<0.5	4.9 J	247902-002
GMW-26LC	11/6/2013				33.4		<0.5	<0.5	<0.5	1.7	<0.5	<0.5	8.7	250604-015
GP-01	12/14/1984												710	ETC

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
GP-01	3/26/1985												440	ETC
GP-01	5/31/1985												630	ETC
GP-01	4/10/1986												930	ETC
GP-01	3/25/1987												500	ETC
GP-01	6/30/1987												720	ETC
GP-01	10/2/1987												370	ETC
GP-01	1/23/1988												540	ETC
GP-01	7/1/1993	7.23	26.4	3300		2250	<0.2	<0.2		<0.2	<0.2	<0.2		30754203
GP-01	10/20/1993	7.25	25.5	4100			<0.2	<0.2		0.3	<0.2	<0.2		31092912
GP-01	12/24/1993	7.26	23.8	3490		2320	<0.2	<0.2		<0.2	<0.2	<0.2	36	31218801
GP-01	4/21/1994	7.32	28.3	2780		1850	<0.2	<0.2		0.3	<0.2	0.4		40494820
GP-01	6/16/1994	7.28	25.5	2440		1740	<0.2	<0.5		0.3	<0.2	0.7	41	40684412
GP-01	9/27/1994	6.9	25	1820			<0.2	<0.2		0.4	<0.2	1.8		40993614
GP-01	12/15/1994	7.42	24.2	2650		1750	<0.2	<0.2		<0.2	<0.2	2.6		9412025533
GP-01	12/29/1994												56	9412027412
GP-01	3/22/1995	7.24	26.9	2970		2000	< 1	< 1		< 1	< 1	3.2		9503-4380-5
GP-01	12/28/1995	7.26	22.5	3360		2220	< 1	< 1		< 1	< 1	5.1		9512-09221-33
GP-01	12/29/1996	7.29	24.2	2560		1720	< 1	< 1		< 1	< 1	6.3		9612-06704-8
GP-01	12/19/1997	7.2	23.6	2010		1350	< 1	< 1		< 1	< 1	5.4		9712-08185-14
GP-01	5/29/1998	7.15	26.5	1980		1320	< 1	< 1		< 1	< 1	< 1		9805-03669-11
GP-01	11/2/1998												235	9811-07847-3
GP-01	2/12/1999	7.35	24.2	1920		1280	< 1	< 1		< 1	< 1	< 1		9902-01472-01
GP-01	2/3/2000	7.27	25.5	1790		1200	< 1	< 1		< 1	< 1	2.5		0002-01144-005
GP-01	1/23/2001	7.23	24.9	1970		1320	< 1	< 1		< 1	< 1	< 1		0101-00601-013
GP-01	1/23/2002	7.19	22.6	2080		1390	< 1	< 1		< 1	< 1	< 1		0201-00680-004
GP-01	3/28/2003	7.05	26.6	1760		1180	< 1	< 1	< 1	< 1	< 1	< 1		030302776009
GP-01	3/9/2004	7.36	27.1	1660		1110	< 1	< 1	< 1	0.61	< 1	1.1		040302676007
GP-01	3/8/2005	7.29	25.1	1630		1090	< 1	< 1	< 1	< 1	< 1	1		05030895-01D
GP-01	3/30/2006	7.14	25.4	1640		1090	< 1	< 1	< 1	< 1	< 1	1.2	120	06031844-05D
GP-01	8/15/2006												110	06080731-01B
GP-01	3/15/2007	7.25	22.9	1950		1310	< 1	< 1	< 1	< 1	< 1	< 1		07030679-06
GP-01	5/9/2007	7.14	29.4	1550		1030								07050341-05
GP-01	5/29/2007	6.96	25	1910		1270							283	07051026-01
GP-01	9/20/2007	6.76	27.8	1760		1180							207	07090741-03A
GP-01	1/23/2008	6.92	24.47	2962		1980							36	200724-002
GP-01	6/17/2008	7.41	27.94	3033		1970							47	204049-009
GP-01	6/18/2008	7.41	27.94	3033		1970							45	204083-006
GP-01	7/29/2008	6.07	25.91	2873		1868							61	204966-011
GP-01	7/29/2008	6.07	25.91	2873		1868							51	204966-010
GP-01	11/20/2008	7.06	24	2980		2000	<0.5	<0.5	<0.5	0.8	<0.5	1.8		208075-020
GP-01	2/21/2009						<0.5	<0.5	<0.5	<0.5	<0.5	1.1		210249-008
GP-01	2/21/2009	7.27	24.8	3036		1.98	<0.5	<0.5	<0.5	<0.5	<0.5	1.4		210249-009
GP-01	2/3/2010	7.4	24.58	5168		3.46	<0.5	<0.5	<0.5	0.8	<0.5	0.9		218171-020
GP-02	12/17/1984												690	ETC
GP-02	1/2/1985												580	ETC
GP-02	3/26/1985												100	ETC
GP-02	5/31/1985												100	ETC
GP-02	4/10/1986												33	ETC
GP-02	3/26/1987												31	ATL
GP-02	6/29/1987												1360	ATL
GP-02	6/30/1987												65	ATL
GP-02	10/2/1987												1400	ATL
GP-02	10/6/1987												21	ATL
GP-02	1/23/1988												12	ATL
GP-02	1/24/1988												11	ATL
GP-02	1/24/1988												21	ROD
GP-02	5/4/1993						5.1	0.7		57	<0.2	<0.2		30553202
GP-02	5/6/1996	7.05	26.9	2140		1420	1.7	< 1		26.8	< 1	34.7		9605-02234-1
GP-02	11/2/1998												< 5	9811-07847-2
GP-02	5/22/2006	6.87	26.4	1290		860							110	06051362-01B
GP-02	8/30/2006												310	06081187-09B
GP-02	5/29/2007	6.96	27.4	1550		1040							162	07051026-04
GP-02	9/20/2007	7.09	29	1190		800							192	07090741-06A
GP-02	1/23/2008	7.01	24.27	2555		1710							54	200724-003
GP-02	6/17/2008	7.11	26.13	2902		1890							29	204049-008
GP-02	6/18/2008	7.11	26.13	2902		1890							33	204083-008
GP-02	7/30/2008	6.33	26.88	2679		1741							32	204995-005
GP-02	11/25/2008												41	208170-008
GP-02	11/25/2008	7.04	24.1	2660		1780	1.1	<0.5	<0.5	47	<0.5	5.7		208170-004
GP-02	2/20/2009	7.17	25.6	2610		1.3	0.7	<0.5	<0.5	34	<0.5	4.6	70	210262-004
GP-02	8/26/2009	7.03	27.89	3299		2.21	<0.5	<0.5	<0.5	0.7	<0.5	0.8		214514-024

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
GP-02	8/30/2010	7.08	25.02	2316	378	1.55	0.3	<0.5	<0.5	35	<0.5	3		222178-013
GP-02	8/6/2011	7.08	26.05	2162	>1000		<0.5	<0.5	<0.5	23	<0.5	1.6	41	PGA SOUTH
GP-02	2/6/2012	7.13	23.11	2140			0.3	<0.5	<0.5	29	<0.5	2.1	29	189044
GP-02	8/6/2012	6.08	25.69	22.75	100		0.3	<0.5	<0.5	32	<0.5	1.7	27	189044
GP-03	1/23/1988												560	ROD
GP-03	12/30/1994						<0.2	<0.2		1.1	<0.2	<0.2		9412027711
GP-07	3/25/1987												40	ATL
GP-07	6/24/1987												110	ATL
GP-07	10/5/1987												31	ATL
GP-07	1/24/1988												20	ATL
GP-07	5/3/1993	7.18	25.6	5020		3330	< 4	< 4		530	< 4	< 4		30551708
GP-07	5/6/1996	7.33	28.1	4640		3120	< 1	< 1		37.3	< 1	2.5		9605-02234-2
GP-07	11/2/1998												42	9811-07847-4
GP-07	5/16/2006	7.06	29	1950		1300							180	06051217-03B
GP-07	8/15/2006												100	06080731-02B
GP-07	5/9/2007	6.95	29.1	2170		1460								07050341-04
GP-07	5/29/2007	6.93	28.5	2230		1500							193	07051026-02
GP-07	9/20/2007	6.56	27.7	2210		1470							885	07090741-04A
GP-07	1/23/2008	7.01	24.06	3480		2331.6							28	200727-004
GP-07	6/17/2008	7.16	25.82	3822		2480							7.7	204049-007
GP-07	6/18/2008	7.16	25.82	3822		2480							9.5	204083-011
GP-07	7/29/2008	5.69	26.01	3697		2388							8.4	204966-007
INJSB-01	3/2/1993						<0.2	<0.2		0.6	<0.2	<0.2		30357901
INJSB-01	3/3/1993						<0.2	<0.2		190	1.5	0.4		30357902
INJSB-01	9/27/1993						<0.2	<0.2		3.1	<0.2	<0.2		30900102
INJSB-01	1/20/1999	7.54	27.3	1340		890	< 1	< 1		< 1	< 1	< 1		9901-00698-01
INJSB-02	3/5/1993						<0.2	<0.2		<0.2	<0.2	<0.2		30363401
INJSB-02	3/6/1993						<0.2	<0.2		0.5	<0.2	<0.2		30363402
INJSB-02	9/27/1993						<0.2	<0.2		<0.2	<0.2	<0.2		30900103
INJSB-02	6/30/1995	7.53	27.3	2070		1380	< 1	< 1		< 1	< 1	< 1		9507-06189-8
INJSB-02	6/30/1995	7.53	27.3	2070		1380	< 1	< 1		1.1	< 1	< 1		9507-06189-5
INJSB-02	9/27/1995	7.53	27.9	2020		1360	< 1	< 1		1.5	< 1	< 1		9509-07736-6
INJSB-02	9/27/1995	7.53	27.9	2020		1360	< 1	< 1		< 1	< 1	< 1		9509-07736-9
INJSB-02	12/29/1995	7.18	25.3	2020		1360	< 1	< 1		6.8	< 1	< 1		9601-00016-9
INJSB-02	12/22/1996	7.28	25.7	2130		1370	< 1	< 1		2.1	< 1	< 1		9612-06641-4
INJSB-02	12/22/1996	7.28	25.7	2130		1370	< 1	< 1		2.1	< 1	< 1		9612-06641-3
INJSB-02	12/16/1997	7.27	27	1410		940	< 1	< 1		1.2	< 1	< 1		9712-08132-13
INJSB-02	5/27/1998	7.48	28.4	1420		950	< 1	< 1		< 1	< 1	< 1		9805-03620-4
INJSB-02	1/20/1999	7.34	27.1	1410		940	< 1	< 1		< 1	< 1	< 1		9901-00698-02
INJSB-02	2/1/2000	7.35	26.3	1300		870	< 1	< 1		< 1	< 1	< 1		0002-01077-005
INJSB-02	2/20/2001	7.25	26.6	1450		970	< 1	< 1		< 1	< 1	< 1		0102-01314-011
INJSB-02	2/7/2002	7.35	27	1370		910	< 1	< 1		< 1	< 1	< 1		0202-01152-005
INJSB-02	2/7/2002	7.35	27	1370		910	< 1	< 1		< 1	< 1	< 1		0202-01152-004
INJSB-05	4/16/1993						0.4	<0.2		48	0.4	<0.2		30480401
INJSB-05	4/16/1993						0.8	<0.2		100	1	<0.2		30480402
INJSB-05	5/21/1993						<0.2	<0.2		33	<0.2	<0.2		30584002
INJSB-05	9/27/1993						<0.2	<0.2		45	<0.2	<0.2		30900104
INJSB-05	6/30/1995	7.15	27.7	2390		1600	< 1	< 1		42.1	< 1	< 1		9507-06189-4
INJSB-05	9/27/1995	7.4	28.1	2110		1430	< 1	< 1		22.1	< 1	< 1		9509-07736-5
INJSB-05	9/27/1995	7.4	28.1	2110		1430	< 1	< 1		21.5	< 1	< 1		9509-07736-1
INJSB-05	12/29/1995	7.41	25.9	2260		1480	< 1	< 1		9	< 1	< 1		9601-00016-8
INJSB-05	12/22/1996	7.25	26.2	1960		1320	< 1	< 1		5.1	< 1	< 1		9612-06641-5
INJSB-05	12/16/1997	7.26	26.3	1360		920	< 1	< 1		6.1	< 1	< 1		9712-08132-14
INJSB-05	5/27/1998	7.45	28.1	1370		920	< 1	< 1		3.3	< 1	< 1		9805-03620-3
INJSB-05	2/4/1999	7.25	26.2	1410		940	< 1	< 1		< 1	< 1	< 1		9902-01193-05
INJSB-05	2/1/2000	7.38	26.6	1340		900	< 1	< 1		< 1	< 1	< 1		0002-01077-006
INJSB-05	2/20/2001	7.36	27.8	1410		950	< 1	< 1		< 1	< 1	< 1		0102-01314-010
INJSB-05	2/7/2002	7.46	27.5	1400		940	< 1	< 1		< 1	< 1	< 1		0202-01152-006
INJSB-05	3/19/2003	7.51	26.7	1320		890	< 1	< 1	< 1	< 1	< 1	< 1		030302542006
INJSB-05	2/26/2004	7.55	26.5	1270		850	< 1	< 1	< 1	< 1	< 1	< 1		040202165005
INJSB-05	3/14/2005	7.55	23.9	1310		880	< 1	< 1	< 1	< 1	< 1	< 1		05031045-10D
INJSB-05	3/23/2006	7.29	28.8	970		650	< 1	< 1	< 1	< 1	< 1	< 1		06031725-08D
INJSB-05	3/27/2007	7.45	27.4	1270		850	< 1	< 1	< 1	1.44	< 1	< 1		07030871-25
INJSB-05	1/9/2008	8.32	25.74	2022		1350	<0.5	<0.5	<0.5	0.9	<0.5	<0.5		200451-002
INJSB-05	2/19/2009	11.93	27.48	6655	130	4.46	<0.5	<0.5	<0.5	3.5	<0.5	<0.5		210249-012
INJSB-05	2/4/2010	12.33	24.93	1832	160	1.23	0.2	<0.5	<0.5	12	<0.5	<0.5		218218-014
INJSB-05	9/1/2010	12.06	30.12	6585	41.4	4.41	<0.5	<0.5	<0.5	6	<0.5	<0.5		
INJSB-05	9/1/2010	12.06	30.12	6585	41.4	4.41	<0.5	<0.5	<0.5	6	<0.5	<0.5		222178-010
INJSB-05	12/7/2010						0.3	<0.5	<0.5	24	<0.5	<0.5		224639-006
INJSB-05	12/7/2010						0.3	<0.5	<0.5	24	<0.5	<0.5		PGA SOUTH
INJSB-05	2/14/2011	11.65	28.53	2683	63.8		0.1	<0.5	<0.5	12	<0.5	<0.5		PGA SOUTH

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
INJSB-05	5/11/2011	10.43	28.91	2324	98		<0.5	<0.5	<0.5	4.6	<0.5	<0.5		PGA SOUTH
INJSB-05	8/7/2011	10.13	35.74	2167	62.9		<0.5	<0.5	<0.5	0.4	<0.5	<0.5		PGA SOUTH
INJSB-05	2/4/2012	12.55	30.25	6465	80.5		<0.5	<0.5	<0.5	6.1	<0.5	<0.5		189044
INJSB-05	8/11/2012	12.23	30.92	3237	152		<0.5	<0.5	<0.5	3.2	<0.5	<0.5		189044
NE-01	2/7/1990							<0.2			<0.2	<0.2		2564
NE-01	2/15/1990	7.45	23.5			3480	<0.2	<0.2		32.3	<0.2	<0.2		2622
NE-01	2/20/1990	6.85	21	5280		3560	< 2	< 2		44	< 2	< 2		2653
NE-01	4/3/1990	7.38	25.7	4600		3070	<0.2	<0.2		42.3	<0.2	<0.2		4522
NE-01	4/17/1990	7.38	25.3	4590		3060	<0.2	<0.2		53.6	<0.2	<0.2		4665
NE-01	5/23/1990			5300		3490	<0.2	<0.2		36.6	<0.2	<0.2		5760
NE-01	6/19/1990		32.8	5160		3430	<0.2	<0.2		29.9	<0.2	<0.2		6772
NE-01	7/18/1990	7.35	29.9	5060		3380	<0.2	<0.2		18	<0.2	<0.2		7728
NE-01	8/17/1990	7.42	28.7	5080		3390	<0.2	<0.2		22.7	<0.2	<0.2		8664
NE-01	9/22/1990	7.35	25.2	5110		3410	<0.2	<0.2		28.8	<0.2	<0.2		9768
NE-01	10/18/1990	7.35	27.5	5330		3540	<0.2	<0.2		42.5	<0.2	0.2		10724
NE-01	11/30/1990	7.32	18.1	5010		3330	<0.2	<0.2		64.9	<0.2	<0.2		12542
NE-01	12/18/1990	7.11	22.9	5080		3430	<0.2	<0.2		20.4	<0.2	<0.2		12764
NE-01	1/23/1991	7.36	23.3	5130		3420	<0.2	<0.2		28	<0.2	<0.02		101748
NE-01	2/17/1991	7.39	23.6	5200		3480	<0.2	<0.2		20.5	<0.2	<0.2		102699
NE-01	3/17/1991	7.29	23.3	5140		3440	<0.2	<0.2		14.8	<0.2	0.4		103798
NE-01	4/22/1991	7.4	25.8	5220		3480	<0.2	<0.2		13.8	<0.2	<0.2		104816
NE-01	5/22/1991	7.4	26.6	5330		3570	<0.2	<0.2		15	<0.2	<0.2		105819
NE-01	6/19/1991	7.44	26.8	5440		3630	<0.2	<0.2		6.6	<0.2	<0.2		106811
NE-01	7/21/1991	7.41	26.4	5270		3520	<0.2	<0.2		6.6	<0.2	<0.2		107817
NE-01	8/18/1991	7.46	26.8	5330		3540	<0.2	<0.2		14.4	<0.2	<0.2		108745
NE-01	9/22/1991	7.58	25.8	5300		3530	<0.2	<0.2		12.3	<0.2	<0.2		109886
NE-01	1/18/1992	7.27	24.8	4500		3000	<0.2	<0.2		22	<0.2	<0.2		201734
NE-01	3/30/1992	7.52	25.4				<0.2	<0.2		25	0.3	<0.2		203992
NE-01	7/13/1992	7.43	27.6	4650		3100	<0.2	<0.2		17.3	<0.2	<0.2		207683
NE-01	10/2/1992	7.4	26.4	4800		3200	<0.2	<0.2		14.3	<0.2	<0.2		210533
NE-01	12/23/1992						<0.2	<0.2		11.9	<0.2	<0.2		212987
NE-01	3/15/1993	7.5	23.5	4780		3260	<0.2	<0.2		14	0.2	<0.2		30377301
NE-01	3/16/1993	7.5	23.5	4780		3260	<0.2	<0.2		13	<0.2	<0.2		30377305
NE-01	5/14/1993	7.26	26.2	4630		3070	<0.2	<0.2		15	<0.2	<0.2		30574301
NE-01	6/25/1993	7.22	26.8	4700		1700	<0.2	<0.2		11	<0.2	<0.2		30602705
NE-01	6/26/1993	7.22	26.8	4700		1700	<0.2	<0.2		11	<0.2	<0.2		30602706
NE-01	9/13/1993												22	309683
NE-01	10/8/1993	7.23	26.7	4700		3020	<0.2	<0.2		6.5	<0.2	<0.2		31070933
NE-01	10/29/1993												< 10	310128
NE-01	12/20/1993	7.2	23	5110		3300	<0.2	<0.2		9.7	<0.2	<0.2	18	31207901
NE-01	4/18/1994	6.82	30.1	6310			<0.2	<0.2		11	<0.2	<0.2		40486601
NE-01	5/10/1994												22	40587509
NE-01	6/16/1994	7.5	25.2	4620		3080	<0.2	<0.5		4.9	<0.2	<0.2		40684424
NE-01	9/27/1994	7.11	27.6	4610		3100	<0.2	< 1		6.2	<0.5	<0.5		40992211
NE-01	12/12/1994	7.25	24.2	4450		2930	<0.2	<0.2		6.5	<0.2	<0.2		9412023863
NE-01	12/21/1994												30	9412026718
NE-01	3/22/1995	7.36	26.2	4930		3350	< 1	< 1		7.6	< 1	< 1		9503-4380-6
NE-01	3/22/1995						< 1	< 1		7.8	< 1	< 1		9503-4380-11
NE-01	6/14/1995	7.39	26.7	4640		3040	< 1	< 1		5.7	< 1	< 1		9506-05930-17
NE-01	9/14/1995	7.4	26.6	4520		3010	< 1	< 1		2.5	< 1	< 1		9509-07511-5
NE-01	12/26/1995	7.22	24.2	4640		3200	< 1	< 1		2.9	< 1	< 1		9512-09221-7
NE-01	3/21/1996	7.21	25.9	4630		3090	< 1	< 1		2.3	< 1	< 1		9603-01428-11
NE-01	3/21/1996	7.21	25.9	4630		3090	< 1	< 1		2.3	< 1	< 1		9603-01428-10
NE-01	6/28/1996	7.17	27.2	4140		2750	< 1	< 1		2.3	< 1	< 1		9606-03238-12
NE-01	9/24/1996	7.35	26.1	4400		3100	< 1	< 1		< 1	< 1	< 1		9609-04903-12
NE-01	12/11/1996	7.43	25.8	4190		2800	< 1	< 1		1.5	< 1	< 1		9612-06480-14
NE-01	2/4/1997	7.29	24.9	4290			< 1	< 1		1.6	< 1	< 1		9702-00817-4
NE-01	4/25/1997	7.2	25.9	2910		1940	< 1	< 1		1.4	< 1	< 1		9704-02536-7
NE-01	5/7/1997												31	9705-02785-2
NE-01	6/6/1997												27	9706-03503-2
NE-01	9/5/1997	7.18	25.9	2830		1890	< 1	< 1		1.12	< 1	< 1		9709-05737-2
NE-01	10/21/1997	7.32	26.3	2770		1850	< 1	< 1		1.4	< 1	< 1	50	9710-06823-5
NE-01	1/16/1998	7.31	24.7	2770		1850	< 1	< 1		1.8	< 1	< 1		9801-00427-7
NE-01	7/22/1998	7.42	27.1	2860		1800	< 1	< 1		< 1	< 1	< 1		9807-05076-3
NE-01	1/30/1999	7.1	24.6	2880		1930	< 1	1.5		< 1	< 1	< 1		9901-00917-08
NE-01	7/26/1999	7.3	27	2780		1860	< 1	< 1		< 1	< 1	< 1		9907-06734-004
NE-01	1/11/2000	7.35	24.5	2700		1810	< 1	< 1		1.1	< 1	< 1		0001-00381-001
NE-01	7/19/2000	7.22	25.9	2640		1770	< 1	< 1		< 1	< 1	< 1		0007-06367-001
NE-01	1/22/2001	7.21	25.1	2740		1830	< 1	< 1		< 1	< 1	< 1		0101-00601-001
NE-01	6/18/2001												62	0106-04427-001
NE-01	6/25/2001												60	0106-04615-001

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
NE-01	7/2/2001												71	0107-04779-001
NE-01	7/13/2001												57	0107-05115-001
NE-01	7/23/2001	7.41	27.5	2700		1810	< 1	< 1		< 1	< 1	< 1		0107-05336-004
NE-01	8/9/2001												61	0108-05808-001
NE-01	10/12/2001												62	0110-07753-001
NE-01	8/27/2002	7.37	26.2	2470		1650	< 1	< 1		< 1	< 1	< 1		0208-07256-001
NE-01	10/7/2002												58	0210-08395-001
NE-01	1/14/2003												65	0301-00459-005
NE-01	3/6/2003	7.32	26.8	2360		1580	< 1	< 1	< 1	< 1	< 1	< 1		030302105001
NE-01	4/11/2003												59	030403290008
NE-01	7/10/2003												62	030706280008
NE-01	9/9/2003	7.5	27.2	2280		1520	< 1	< 1	< 1	< 1	< 1	< 1	63	030908571001
NE-01	10/16/2003												59	031009963001
NE-01	1/16/2004												67	040100605008
NE-01	2/16/2004	7.42	23.1	2360		1580	< 1	< 1	< 1	< 1	< 1	< 1		040201839001
NE-01	9/17/2004	7.47	26.5	2200		1470	< 1	< 1	< 1	< 1	< 1	< 1	76	040910776004
NE-01	10/14/2004												94	04101076-07B
NE-01	1/12/2005	7.5	23.2	2300		1540	< 1	< 1	< 1	< 1	< 1	< 1	81	05011033-08D
NE-01	4/12/2005												84	05041031-07B
NE-01	7/11/2005												78.6	05070997-09B
NE-01	9/12/2005	7.66	28.5	2320		1550	< 1	< 1	< 1	< 1	< 1	< 1		05090940-06D
NE-01	10/14/2005												75	05101155-10B
NE-02	2/7/1990	6.2	25.2			3690	<0.2	<0.2		210	0.3	<0.2		2564
NE-02	2/15/1990	7.27	25.3			3700	0.4	<0.2		160	0.2	0.2		2622
NE-02	2/20/1990	6.96	20.8	5520		3710	< 2	< 2		240	< 2	< 2		2653
NE-02	4/3/1990	7.3	25.8	5160		3450	0.3	<0.2		220	0.3	0.3		4522
NE-02	4/17/1990	7.26	25.2	5190		3470	< 4	< 4		190	< 4	< 4		4665
NE-02	5/23/1990			5810		3850	< 10	< 10		160	< 10	< 10		5760
NE-02	6/19/1990	0	32.7	5850		3900	<0.2	<0.2		210	<0.2	<0.2		6772
NE-02	7/18/1990	7.22	29.6	5700		3810	< 2	< 2		140	< 2	< 2		7728
NE-02	8/17/1990	7.32	29.8	5510		3670	2	< 1		140	< 1	< 1		8664
NE-02	9/23/1990	7.31	26.6	5680		3780	< 2	< 2		160	< 2	< 2		9768
NE-02	10/21/1990	7.46	25.8	5630		3750	< 2	< 2		150	< 2	< 2		10738
NE-02	11/30/1990	7.27	17.7	5430		3640	< 1	< 1		160	< 1	< 1		12542
NE-02	12/18/1990	7.25	22.8	5460		3680	< 1	< 1		100	< 1	< 1		12764
NE-02	1/23/1991	7.31	23.4	5340		3540	< 1	< 1		112	< 1	< 1		101748
NE-02	2/17/1991	7.4	22.4	5310		3520	< 1	< 1		99	< 1	< 1		102699
NE-02	3/17/1991	7.32	22.8	5370		3580	< 2	< 2		88	< 2	< 2		103798
NE-02	4/22/1991	7.32	25.7	5240		3520	< 2	< 2		75	< 2	< 2		104816
NE-02	5/22/1991	7.3	27.8	5270		3510	< 1	< 1		56	< 1	< 1		105819
NE-02	6/30/1991	7.41	26.4	5270		3520	<0.2	<0.2		72	<0.2	<0.2		106811
NE-02	7/21/1991	7.34	26.6	5190		3470	<0.2	<0.2		72	<0.2	<0.2		107817
NE-02	8/18/1991	7.36	27.8	5070		3400	< 1	< 1		53	< 1	< 1		108745
NE-02	9/22/1991	7.55	26.1	5080		3400	< 1	< 1		54	< 1	< 1		109886
NE-02	1/20/1992	7.57	22.9			2950	<0.4	<0.4		65	<0.4	<0.4		201746
NE-02	1/20/1992			4420										102746
NE-02	3/30/1992	7.36	25.7				<0.2	<0.2		68	<0.2	<0.2		203992
NE-02	10/2/1992	7.4	27.6	4560		3050	<0.2	<0.2		38.4	<0.2	<0.2		210533
NE-02	12/23/1992						<0.2	<0.2		39.8	<0.2	<0.2		212987
NE-02	3/15/1993	7.3	24.1	4160		2780	<0.2	<0.2		37	0.2	<0.2		30377302
NE-02	5/14/1993	7.11	27.2	4080		2710	0.2	<0.2		58	<0.2	<0.2		30574302
NE-02	6/25/1993	7.21	27.6	4800		1600	0.5	<0.2		41	<0.2	<0.2		30602707
NE-02	9/13/1993												14	309683
NE-02	10/8/1993	7.2	27.1	4810		2700	<0.4	<0.4		63	<0.4	<0.4		31070934
NE-02	10/29/1993												42	310128
NE-02	12/20/1993	7.21	23.7	4400		2900	<0.2	<0.2		41	<0.2	<0.2	13	31207902
NE-02	4/18/1994	6.71	27.1	5120			<0.2	<0.2		33	<0.2	<0.2		40486602
NE-02	5/13/1994												< 10	40587513
NE-02	6/16/1994	7.2	25.2	4380		2940	<0.2	<0.5		24	<0.2	0.9		40684425
NE-02	9/27/1994	7.06	27.7	4400		2900	<0.2	< 1		26	<0.5	<0.5		40992210
NE-02	12/12/1994	7.27	24.7	4300		2860	<0.2	<0.2		22	<0.2	<0.2		9412023864
NE-02	12/21/1994												68	9412026719
NE-02	3/22/1995	7.28	26.2	4570		3070	< 1	< 1		17.4	< 1	< 1		9503-4380-7
NE-02	6/14/1995	7.45	26.5	4510		3000	< 1	< 1		13.4	< 1	< 1		9506-05930-18
NE-02	6/14/1995	7.45	26.5	4510		3000	< 1	< 1		13.7	< 1	< 1		9506-05930-21
NE-02	9/14/1995	7.44	26.8	4350		2900	< 1	< 1		8.1	< 1	< 1		9509-07511-7
NE-02	9/14/1995	7.44	26.8	4350		2900	< 1	< 1		8.7	< 1	< 1		9509-07511-4
NE-02	12/26/1995	7.17	23.9	4620		3230	< 1	< 1		6.8	< 1	< 1		9512-09221-6
NE-02	3/21/1996	7.28	26.4	4220		2820	< 1	< 1		9.2	< 1	< 1		9603-01428-5
NE-02	6/17/1996	7.2	27.5	4050		2680	< 1	< 1		6.3	< 1	< 1		9606-03052-4
NE-02	9/25/1996	7.27	26.6	4160		2830	< 1	< 1		5	< 1	< 1		9609-04963-1

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
NE-02	12/11/1996	7.27	24.7	4160		2790	< 1	< 1		7.3	< 1	< 1		9612-06480-15
NE-02	2/4/1997	7.32	24.5	4150			< 1	< 1		6.6	< 1	< 1		9702-00817-5
NE-02	4/25/1997	7.23	25.4	2800		1870	< 1	< 1		4	< 1	< 1		9704-02536-8
NE-02	5/7/1997												35	9705-02785-3
NE-02	6/6/1997												20	9706-03503-3
NE-02	9/5/1997	7.48	26.3	2830		1890	< 1	< 1		2.74	< 1	< 1		9709-05737-1
NE-02	10/21/1997	7.51	26.5	2780		1860	< 1	< 1		4.4	< 1	< 1	30	9710-06823-4
NE-02	1/16/1998	7.4	25.5	2740		1840	< 1	< 1		5.6	< 1	< 1		9801-00427-8
NE-02	7/23/1998	7.27	26.5	2590		1750	< 1	< 1		2.1	< 1	< 1		9807-05076-5
NE-02	1/30/1999	7.28	24.9	2690		1800	< 1	< 1		3.3	< 1	< 1		9901-00917-09
NE-02	7/26/1999	7.29	26.8	2530		1700	< 1	< 1		1.8	< 1	< 1		9907-06734-005
NE-02	1/11/2000	7.45	24.2	2690		1800	< 1	< 1		2.9	< 1	< 1		0001-00381-002
NE-02	7/19/2000	7.36	25.7	2640		1770	< 1	< 1		< 1	< 1	< 1		0007-06367-002
NE-02	1/22/2001	7.32	25.1	2670		1810	< 1	< 1		1.7	< 1	< 1		0101-00601-002
NE-02	7/13/2001												36	0107-05115-002
NE-02	7/23/2001	7.49	27.2	2130		1400	< 1	< 1		< 1	< 1	< 1		0107-05336-001
NE-02	8/9/2001												33	0108-05808-002
NE-02	10/12/2001												13	0110-07753-002
NE-02	1/14/2002												20	0201-00427-009
NE-02	1/21/2002	7.4	24.1	2510		1680	< 1	< 1		3.1	< 1	< 1		0201-00589-001
NE-02	4/11/2002												42	0204-03063-008
NE-02	7/16/2002												27	0207-05904-003
NE-02	8/27/2002	7.46	27.4	2250		1510	< 1	< 1		< 1	< 1	< 1		0208-07256-002
NE-02	10/7/2002												12	0210-08395-002
NE-02	1/14/2003												12	0301-00459-006
NE-02	3/6/2003	730	27.3	2160		1440	< 1	< 1	< 1	1.3	< 1	< 1		030302105002
NE-02	4/11/2003												14	030403290009
NE-02	7/10/2003												11	030706280009
NE-02	9/9/2003	7.57	27.7	2140		1430	< 1	< 1	< 1	< 1	< 1	< 1	8	030908571002
NE-02	10/16/2003												6	031009963002
NE-02	1/16/2004												14	040100605009
NE-02	2/16/2004	7.47	24	2170		1460	< 1	< 1	< 1	2.4	< 1	< 1		040201839002
NE-02	9/17/2004	7.48	27.9	1940		1300	< 1	< 1	< 1	< 1	< 1	< 1	37	040910776005
NE-02	10/14/2004												63	04101076-08B
NE-02	1/12/2005	7.67	23.3	2080		1390	< 1	< 1	< 1	< 1	< 1	< 1	31	05011033-09D
NE-02	4/12/2005												46	05041031-08B
NE-02	7/11/2005												42.6	05070997-10B
NE-02	9/13/2005	7.43	29.5	1850		1230	< 1	< 1	< 1	2.2	< 1	< 1		05090940-08D
NE-02	10/14/2005												35	05101155-11B
NE-02	2/15/2006	7.36	25.7	2080		1390	< 1	< 1	< 1	3.2	< 1	< 1		06021236-10D
NE-02	4/13/2006												65	06041175-04B
NE-02	8/14/2006												37	06080585-06B
NE-02	9/13/2006	7.37	27.3	2050		1370	< 1	< 1	< 1	< 1	< 1	< 1		06090520-14D
NE-02	10/19/2006												45.9	06100842-01B
NE-02	1/12/2007												39.6	07010389-11
NE-02	3/6/2007	7.58	25.2	2260		1510	< 1	< 1	< 1	< 1	< 1	< 1		07030441-01
NE-02	4/11/2007												52.9	07040678-05
NE-02	7/12/2007												53.9	07070476-01B
NE-02	8/20/2007	7.52	26.3	2050		1370	< 1	< 1	< 1	< 1	< 1	< 1		07080915-06D
NE-02	10/9/2007												26	198348-014
NE-02	1/16/2008						0.2	<0.5	<0.5	3.4	<0.5	<0.5		200619-010
NE-02	6/17/2008						0.2	<0.5	<0.5	4.8	<0.5	<0.5		204079-001
NE-02	8/14/2008						0.2	<0.5	<0.5	4.9	<0.5	<0.5	9.6	205346-004
NE-02	11/17/2008	7.69	24.5	3370		1660	<0.5	<0.5	<0.5	3	<0.5	<0.5		208075-027
NE-02	11/25/2008												210	208170-005
NE-02	2/18/2009	7.26	25	3240		1.63	0.3	<0.5	<0.5	6.1	<0.5	<0.5	10	210200-001
NE-02	5/13/2009	7.28	25	3230		1.62							20	212166-001
NE-02	8/23/2009	7.39	27.9	3430		1.7								214514-009
NE-02	8/23/2009	7.39	27.9	3430		1.7	0.1	<0.5	<0.5	3.7	<0.5	<0.5		214393-001
NE-02	8/26/2009												110	214514-009
NE-02	12/2/2009	7.46	24.2	3280		1.64							82	217016-005
NE-02	2/23/2010	6.95	22.5	3330		1.65	<0.5	<0.5	<0.5	4.4	<0.5	<0.5	49	218482-001
NE-02	5/12/2010	7.01	24.6	3720		1.87							63	220168-001
NE-02	8/17/2010												63	221992-001
NE-02	11/30/2010												36	224639-053
NE-02	5/4/2011	7.33	26.47	3486	2.51								31	PGA SOUTH
NE-02	8/6/2011	7.35	26.49	2810	38								22	PGA SOUTH
NE-02	11/8/2011	7.41	24.47	1336	0.92								12	154540
NE-02	5/2/2012												22	PGA SOUTH
NE-02	5/11/2012	7.55	25.13	3074	2.67		<0.5	<0.5	<0.5	1.8	<0.5	<0.5	18	189044
NE-02	8/6/2012	7.42	27.28	29.19	0.43								16	189044

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
NE-02	11/5/2012	7.88	23.71	2474	0.30								9.2	189044
NE-02	2/6/2013	7.36	21.69	3602	0.95		0.2	<0.5	<0.5	7	<0.5	<0.5	17	189044
NE-02	5/6/2013	7.04	27.43	3743	2.49		0.2	<0.5	<0.5	5.7	<0.5	<0.5	16	PGA South
NE-02	8/7/2013	7.25	27.08	3392	1.45		<0.5	<0.5	<0.5	2.0	<0.5	<0.5	12	247736-005
NE-02	11/5/2013	7.3	24	3067	0.71		<0.5	<0.5	<0.5	0.8	<0.5	<0.5	8.7	250555-006
NE-03	2/7/1990							<0.2			0.7	0.4		2654
NE-03	2/15/1990	7.1	24.8			3600	3.6	<0.2		400	0.5	0.6		2622
NE-03	2/20/1990	7.05	20.3	5450		3630	< 2	< 2		270	< 2	< 2		2653
NE-03	4/3/1990	7.16	25.7	5180		3460	5.3	<0.2		500	0.9	0.9		4522
NE-03	4/17/1990	7.45	25.2	5050		3360	< 4	< 4		360	< 4	< 4		4665
NE-03	5/23/1990			5920		3900	< 10	< 10		430	< 10	< 10		5760
NE-03	6/19/1990		33.1	5860		3900	< 5	< 5		380	< 5	< 5		6772
NE-03	7/18/1990	7.08	32.9	5980		3860	8	< 2		460	< 2	< 2		7728
NE-03	8/17/1990	7.37	27.4	5520		3680	< 5	< 5		290	< 5	< 5		8664
NE-03	9/23/1990	7.27	30	5600		3740	< 5	< 5		210	< 5	< 5		9768
NE-03	10/18/1990	7.29	26.9	5560		3720	5	< 2		250	< 2	< 2		10721
NE-03	11/30/1990	7.14	24.7	5430		3630	5	< 2		330	< 2	< 2		12542
NE-03	12/18/1990	7.18	21.9	5390		3640	6	< 2		270	< 2	< 2		12764
NE-03	1/23/1991	7.4	22.4	5300		3540	< 2	< 2		171	< 2	< 2		101748
NE-03	2/17/1991	7.36	23.9	5210		3470	< 4	< 4		200	< 4	< 4		102699
NE-03	3/17/1991	7.31	22.7	5300		3550	2	< 2		160	< 2	< 2		103798
NE-03	4/22/1991	7.35	26.1	5250		3510	2.6	< 2		170	< 2	< 2		104816
NE-03	5/22/1991	7.36	27.1	5300		3510	< 2	< 2		130	< 2	< 2		105819
NE-03	6/19/1991	7.31	26.6	5290		3540	8	0.2		220	0.4	0.4		106811
NE-03	7/21/1991	7.37	26.8	5400		3600	8	<0.2		220	0.4	0.4		107817
NE-03	8/18/1991	7.46	27.9	5300		3530	3	< 2		186	< 2	< 2		108745
NE-03	9/22/1991	7.62	26.2	5120		3410	< 2	< 2		110	< 2	< 2		109886
NE-03	1/20/1992	7.64	21.8	4380		2930	1.9	< 1		170	< 1	< 1		201746
NE-03	3/30/1992	7.36	25.8				2	< 1		200	< 1	< 1		203992
NE-03	3/31/1992	7.36	25.8				2	< 1		180	1	< 1		20399201
NE-03	7/13/1992	7.18	27.2	4580		2880	< 1	< 1		220	< 1	< 1		207683
NE-03	10/2/1992	7.3	26.3	4400		2940	1.6	<0.2		180	0.6	0.2		210533
NE-03	12/23/1992						0.8	<0.2		120	0.4	<0.2		212987
NE-03	5/14/1993	7.29	27.1	4700		3140	1.5	<0.2		270	0.2	0.3		30574303
NE-03	6/25/1993	7.16	27.4	4850		1600	3.1	<0.2		270	0.3	0.5		30602709
NE-03	9/13/1993												21	309683
NE-03	10/13/1993	7.23	27.1	4570		3120	3.3	<0.4		300	<0.4	<0.4		31074105
NE-03	10/29/1993												23	310128
NE-03	12/20/1993	7.3	23.6	4500		3000	2.6	<0.2		260	0.5	0.4	31	31207903
NE-03	4/18/1994	6.75	25.5	5240			3.4	<0.2		260	0.5	0.4		40486603
NE-03	5/10/1994												26	40587508
NE-03	6/16/1994	7	25.4	4450		2970	2	< 2.5		170	< 1	< 1		40684426
NE-03	9/27/1994	7.1	28.5	4500		3000	<0.2	< 1		190	<0.5	<0.5		40992208
NE-03	12/12/1994	7.19	24.7	4240		2820	1.7	<0.2		120	<0.2	<0.2		9412023865
NE-03	12/21/1994												11	9412026711
NE-03	3/22/1995	7.27	26.1	4520		3070	< 1	< 1		82.8	< 1	< 1		9503-4380-8
NE-03	6/14/1995	7.39	26.3	4390		2920	1.7	< 1		82	< 1	< 1		9506-05930-19
NE-03	9/14/1995	7.36	26.8	4250		2820	1.8	< 1		88	< 1	< 1		9509-07511-3
NE-03	12/26/1995	7.23	24.6	4750		3380	2	< 1		58.1	< 1	< 1		9512-09221-5
NE-03	3/21/1996	7.18	26.8	4190		2800	1.6	< 1		57.9	< 1	< 1		9603-01428-4
NE-03	6/17/1996	7.21	27.6	4320		2870	2.4	< 1		74.5	< 1	< 1		9606-03052-3
NE-03	9/24/1996	7.22	25.8	4400		3180	< 1	< 1		71.5	< 1	< 1		9609-04903-13
NE-03	12/11/1996	7.22	25.7	4340		2890	< 1	< 1		69.7	< 1	< 1		9612-06480-13
NE-03	2/4/1997	7.24	24.6	4360			2	< 1		53.4	< 1	< 1		9702-00817-3
NE-03	4/25/1997	7.21	25.9	2970		1990	< 1	< 1		67.6	< 1	< 1		9704-02536-6
NE-03	5/7/1997												21	9705-02785-4
NE-03	6/6/1997												< 10	9706-03503-4
NE-03	9/5/1997	7.23	26.3	3050		2040	4.81	< 1		93.7	< 1	< 1		9709-05737-3
NE-03	10/21/1997	7.27	26.6	2900		1930	2.8	< 1		53.8	< 1	< 1	20	9710-06823-3
NE-03	1/16/1998	7.27	25.6	2870		1920	< 1	< 1		48.4	< 1	< 1		9801-00427-6
NE-03	7/22/1998	7.1	26.7	2810		1880	2.4	< 1		45.1	< 1	< 1		9807-05076-2
NE-03	1/30/1999	7.16	24.2	2790		1860	< 1	< 1		33.8	< 1	< 1		9901-00917-10
NE-03	7/26/1999	7.18	26.9	2820		1890	1.9	< 1		40.9	< 1	< 1		9907-06734-006
NE-03	1/11/2000	7.25	23.8	2740		1830	2.3	< 1		34.3	< 1	< 1		0001-00381-003
NE-03	7/19/2000	7.12	25.5	2160		1840	1.7	< 1		38.1	< 1	< 1		0007-06367-003
NE-03	1/22/2001	7.31	25.8	2720		1820	< 1	< 1		29.5	< 1	< 1		0101-00601-003
NE-03	6/18/2001												48	0106-04427-002
NE-03	6/25/2001												15	0106-04615-002
NE-03	7/2/2001												15	0107-04779-002
NE-03	7/13/2001												13	0107-05115-003
NE-03	7/23/2001	7.38	28.5	2670		1780	1.3	< 1		34	< 1	< 1		0107-05336-002

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
NE-03	8/9/2001												15	0108-05808-003
NE-03	10/12/2001												12	0110-07753-003
NE-03	1/14/2002												< 5	0201-00427-010
NE-03	1/21/2002	7.31	24.8	2690		1800	1.4	< 1		34.8	< 1	< 1		0201-00589-002
NE-03	4/11/2002												15	0204-03063-009
NE-03	7/16/2002												13	0207-05904-004
NE-03	8/27/2002	7.34	27.5	2570		1720	2.6	< 1		43.8	< 1	< 1		0208-07256-003
NE-03	10/7/2002												11	0210-08395-003
NE-03	1/14/2003												23	0301-00459-007
NE-03	3/6/2003	7.4	26.5	2440		1630	< 1	< 1	< 1	27.7	< 1	< 1		030302105003
NE-03	4/11/2003												9	030403290010
NE-03	7/10/2003												10	030706280010
NE-03	9/17/2003	7.51	30.7	2370		1580	< 1	< 1	< 1	32.8	< 1	< 1	12	030908952005
NE-03	10/16/2003												9	031009963003
NE-03	1/16/2004												11	040100605010
NE-03	2/16/2004	7.61	24.3	2260		1510	< 1	< 1	< 1	13	< 1	< 1		040201839003
NE-03	4/19/2004												5	040404233001
NE-03	7/23/2004												10	040708258005
NE-03	9/17/2004	7.39	29	2040		1360	< 1	< 1	< 1	20	< 1	< 1		040910776006
NE-03	10/14/2004												30	04101076-09B
NE-03	1/12/2005	7.33	23.9	2370		1590	< 1	< 1	< 1	10	< 1	< 1	24	05011033-10D
NE-03	4/12/2005												22	05041031-09B
NE-03	7/12/2005												23	05070997-11B
NE-03	9/12/2005	7.48	28.1	2180		1460	1.7	< 1	< 1	25	< 1	< 1		05090940-05D
NE-03	10/14/2005												24	05101155-12B
NE-03	2/15/2006	7.12	26.2	1910		1270	1.1	< 1	< 1	17	< 1	< 1		06021236-11D
NE-03	4/13/2006												26	06041175-05B
NE-03	8/14/2006												26	06080585-07B
NE-03	9/13/2006	7.25	28	2280		1530	2.91	< 1	< 1	33.76	< 1	< 1		06090520-13D
NE-03	10/19/2006												48.9	06100842-02B
NE-03	1/12/2007												23.2	07010389-12
NE-03	3/6/2007	7.36	26.1	2210		1480	1.32	< 1	< 1	19.42	< 1	< 1		07030441-02
NE-03	4/11/2007												34.8	07040678-06
NE-03	7/12/2007												47.1	07070476-02B
NE-03	8/20/2007	7.24	26.7	2330		1560	2.01	< 1	< 1	24.37	< 1	< 1		07080915-05D
NE-03	10/9/2007												19	198348-015
NE-03	1/16/2008						1.5	<0.5	0.2	19	<0.5	0.3		200619-011
NE-03	6/17/2008												14	204079-001
NE-03	6/17/2008						0.2	<0.5	<0.5	9.8	<0.5	<0.5	15	204079-002
NE-03	8/14/2008						<0.5	<0.5	0.3	41	<0.5	0.6	13	205346-003
NE-03	11/17/2008	7.02	21.2	3370		1660	0.7	<0.5	<0.5	23	<0.5	0.5	3.9	208075-028
NE-03	2/23/2009	7.17	25.2	3490		1.75	1.8	<0.5	<0.5	19	<0.5	0.3	12	210262-005
NE-03	5/13/2009	7.18	25.4	3430		1.72	1.9	<0.5	<0.5	24	<0.5	0.4	8.9	212166-002
NE-03	8/23/2009	7.25	28.3	3860		1.93	1.7	<0.5	0.2	35	<0.5	0.5	23	214393-002
NE-03	12/2/2009	7.43	24.8	3680		1.83	1.6	<0.5	0.3	25	<0.5	0.6	3	217016-006
NE-03	2/23/2010	7.03	19.4	3570		1.78	1.9	<0.5	0.2	25	<0.5	0.4	4.5	218482-002
NE-03	5/12/2010	7.1	23.9	3580		1.79	2.2	<0.5	0.2	36	<0.5	0.4	4.7	220168-002
NE-03	8/17/2010	7.9	28.5	3510		1.75	1.4	<0.5	<0.5	15	<0.5	0.3	6.5	221992-002
NE-03	11/30/2010						1.2	<0.5	0.3	30	<0.5	0.4	13	224639-054
NE-03	2/8/2011	6.99	24.51	3212	0.2		1.8	<0.5	0.1	33	<0.5	0.4	12	PGA SOUTH
NE-03	5/4/2011	7.2	25.53	3328	1.1		1.2	<0.5	0.2	29	<0.5	0.4	9	PGA SOUTH
NE-03	8/6/2011	7.31	26.01	2890	9.86		2.8	<0.5	<0.5	30	<0.5	0.6	14	PGA SOUTH
NE-03	11/8/2011	7.23	24.69	2843	1.4		1.1	<0.5	0.1	23	<0.5	0.4	12	154540
NE-03	2/7/2012	7.4	21.49	2883	2.46		1.9	<0.5	0.2	22	<0.5	0.4	10	189044
NE-03	5/11/2012	7.26	25.31	3129	3.63		2.6	<0.5	0.1	28	<0.5	0.6	10	189044
NE-03	8/6/2012	7.32	29.4	3301	3.87		1.9	<0.5	0.2	32	<0.5	0.7	11	189044
NE-03	11/5/2012	7.53	23.81	2755	.37		3.2	<0.5	0.2	30	<0.5	0.6	15	189044
NE-03	2/6/2013	7.62	21.6	3630	0.98		2.3	<0.5	0.1	23	<0.5	0.4	13	189044
NE-03	5/6/2013	6.9	25.8	3588	3.21		<0.5	<0.5	<0.5	21	<0.5	0.4	11	PGA South
NE-03	8/7/2013	7.1	28.95	3850	3.08		2.6	<0.5	0.2 J	34	<0.5	1.0	16	247736-006
NE-03	11/5/2013	7.05	24.5	3450	1.5		3.1	<0.5	0.2 J	28	<0.5	0.8	14	250555-007
NE-04	2/7/1990							<0.2			1.1	1.2		2654
NE-04	2/15/1990	7.25	25.1			4160	<0.2	<0.2		790	0.8	1.1		2622
NE-04	2/20/1990	6.85	20.1	6180		4210	< 2	< 2		530	< 2	< 2		2653
NE-04	4/3/1990	7.4	25.3	5150		3460	2.7	<0.2		430	0.8	0.5		4522
NE-04	4/17/1990	7.48	25.2	4860		3210	7	< 4		680	< 4	< 4		4665
NE-04	5/23/1990			6180		4080	4.1	<0.2		450	1.2	0.6		5760
NE-04	6/19/1990		35.5	6950		4660	< 5	< 5		610	< 5	< 5		6772
NE-04	7/18/1990	7.3	29.3	6760		4520	< 5	< 5		670	< 5	< 5		7728
NE-04	8/17/1990	7.42	31.2	5710		3790	9	< 5		310	< 5	< 5		8664
NE-04	9/23/1990	7.57	27.2	6020		4020	5	< 5		250	< 5	< 5		9768

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
NE-04	10/18/1990	7.46	26.2	5560		3710	9	< 2		280	< 2	< 2		10721
NE-04	11/30/1990	7.08	22.1	5480		3670	7	< 2		570	< 2	< 2		12542
NE-04	12/18/1990	7.33	20.9	5270		3510	7	< 2		310	< 2	< 2		12764
NE-04	1/23/1991	7.51	22.8	5220		3490	< 4	< 4		200	< 4	< 4		101748
NE-04	2/17/1991	7.49	23.8	5080		3390	< 5	< 5		160	< 5	< 5		102699
NE-04	3/17/1991	7.44	22.5	5190		3460	< 4	< 4		150	< 4	< 4		103798
NE-04	4/22/1991	7.52	26.11	5170		3450	4.5	< 2		190	< 2	< 2		104816
NE-04	5/22/1991	7.49	26.7	5230		3490	< 2	< 2		120	< 2	< 2		105819
NE-04	6/19/1991	7.49	27.2	5370		3590	4.4	0.2		160	0.3	0.2		107817
NE-04	7/21/1991	7.53	27.1	5230		3480	4.4	<0.2		160	0.3	<0.2		107817
NE-04	8/18/1991	7.61	27.9	5250		3520	4	< 2		205	< 2	< 2		108745
NE-04	9/22/1991	7.65	26.4	5200		3470	2	< 2		120	< 2	< 2		109886
NE-04	1/24/1992	7.27	14.3	5420		3620	4	< 1		210	< 1	< 1		201816
NE-04	3/30/1992	7.49	26.2				6	< 1		270	2	< 1		203992
NE-04	3/31/1992	7.49	26.2				4			210	2	< 1		20399201
NE-04	7/13/1992	7.31	27.9	4550		2920	5	< 1		290	1	< 1		207683
NE-04	10/2/1992	7.82	24.1	4290		2860	4	< 1		210	2	< 1		210533
NE-04	12/23/1992						2	<0.4		230	1	<0.4		212987
NE-04	3/15/1993	7.3	24	4540		3020	6	< 1		350	2	< 1		30377303
NE-04	5/14/1993	7.37	27.5	4850		3240	5.2	<0.2		270	0.6	0.5		30574304
NE-04	6/25/1993	7.49	27.8	4800		1600	8.4	<0.2		260	0.7	0.9		30602710
NE-04	9/13/1993												36	309683
NE-04	10/8/1993	7.35	27.7	4810		3250	< 2	< 2		180	< 2	< 2		31070935
NE-04	10/29/1993												27	310128
NE-04	12/20/1993	7.25	23	4800		3200	5.3	<0.2		270	1.2	0.6	31	31207904
NE-04	4/18/1994	6.94	26.7	5910			4.4	<0.2		240	1.1	0.5		40486604
NE-04	5/10/1994												22	40587507
NE-04	6/16/1994	7.3	25.6	4770		3180	5.8	<0.5		230	2	< 1		40684410
NE-04	9/27/1994	7.21	28.1	4800		3200	0.3	< 1		190	<0.5	<0.5		40992207
NE-04	12/12/1994	7.18	25.1	4270		2830	5.2	<0.2		200	<0.2	<0.2		9412023866
NE-04	12/13/1994	7.18	25.1	4270		2830	5.6	<0.2		180	<0.2	<0.2		9412023868
NE-04	12/21/1994												86	9412026711
NE-04	3/22/1995	7.32	26.3	4570		3090	5.1	< 1		119	< 1	< 1		9503-4380-9
NE-04	6/14/1995	7.36	26.9	4290		2840	4.7	< 1		100	< 1	< 1		9506-05930-20
NE-04	9/14/1995	7.38	26.6	4120		2750	6.3	< 1		95.4	< 1	< 1		9509-07511-2
NE-04	12/26/1995	7.13	24.8	4730		3360	5	< 1		59.2	< 1	< 1		9512-09221-9
NE-04	12/26/1995	7.13	24.8	4730		3360	6	< 1		74.6	< 1	< 1		9512-09221-4
NE-04	3/21/1996	7.23	27.3	4150		2800	4.8	< 1		74.2	< 1	< 1		9603-01428-3
NE-04	6/17/1996	7.21	27.7	4090		2700	5	< 1		67.6	< 1	< 1		9606-03052-2
NE-04	9/24/1996	7.33	25.7	4150		2960	< 1	< 1		60.9	< 1	< 1		9609-04903-14
NE-04	9/24/1996	7.33	25.7	4150		2960	< 1	< 1		59.4	< 1	< 1		9609-04903-16
NE-04	12/11/1996	7.31	25.8	4070		2730	< 1	< 1		76.4	< 1	< 1		9612-06480-12
NE-04	2/4/1997	7.32	24.2	4050			6	< 1		55.4	< 1	< 1		9702-00817-2
NE-04	4/25/1997	7.35	25.8	2880		1920	< 1	< 1		48.7	< 1	< 1		9704-02536-5
NE-04	5/7/1997												31	9705-02785-5
NE-04	6/6/1997												21	9706-03503-10
NE-04	9/5/1997	7.22	26.4	2740		1830	11.7	< 1		74.2	< 1	< 1		9709-05737-4
NE-04	10/21/1997	7.28	26.4	2790		1860	8.5	< 1		59.9	< 1	< 1	30	9710-06823-2
NE-04	1/16/1998	7.24	25.6	2800		1870	8.4	< 1		81.7	< 1	< 1		9801-00427-5
NE-04	4/20/1998	7.29	27.8	2810		1880	8.2	< 1		79.8	< 1	< 1		9804-02699-3
NE-04	7/22/1998	7.17	27.3	2160		1840	8.2	< 1		57.6	< 1	< 1		9807-05076-1
NE-04	10/30/1998	7.22	23.5	2840		1900	9	< 1		60	< 1	< 1		9811-07838-16
NE-04	1/30/1999	7.11	25.3	2890		1940	6.3	< 1		65.4	< 1	< 1		9901-00917-11
NE-04	4/13/1999	7.27	26.2	2740		1830	7.7	< 1		68.7	< 1	< 1		9904-03467-03
NE-04	7/26/1999	7.08	27.2	2730		1830	7.2	< 1		71.8	< 1	< 1		9907-06734-007
NE-04	10/15/1999	7.31	26.9	2640		1770	6.5	< 1		61.3	< 1	< 1		9910-09461-001
NE-04	1/11/2000	7.23	24.5	2830		1900	3.3	< 1		25	< 1	< 1		0001-00381-004
NE-04	4/3/2000	7.24	27.2	2760		1850	6.1	< 1		52	< 1	< 1		0004-02940-001
NE-04	7/19/2000	7.28	25.7	2710		1810	7.9	< 1		50.9	< 1	< 1		0007-06367-004
NE-04	10/13/2000	7.31	27.1	2630		1760	9.5	< 1		59.3	< 1	< 1		0010-09034-003
NE-04	1/22/2001	7.14	26.6	2700		1800	8.5	< 1		52.5	< 1	< 1		0101-00601-004
NE-04	4/17/2001	7.2	27.9	2620		1750	7.5	< 1		65.3	< 1	< 1		0104-02877-001
NE-04	6/18/2001												21	0106-04427-003
NE-04	6/25/2001												18	0106-04615-003
NE-04	7/2/2001												16	0107-04779-003
NE-04	7/13/2001												18	0107-05115-004
NE-04	7/23/2001	7.24	28.3	2640		1770	3.5	< 1		33	< 1	< 1		0107-05336-003
NE-04	8/9/2001												30	0108-05808-004
NE-04	10/12/2001												27	0110-07753-004
NE-04	11/16/2001	7.24	27.2	2590		1730	6.2	< 1		51.7	< 1	< 1		0111-08851-003
NE-04	1/14/2002												15	0201-00427-011

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
NE-04	1/21/2002	7.33	25.9	2680		1790	4.1	< 1		37	< 1	< 1		0201-00589-003
NE-04	4/11/2002												31	0204-03063-010
NE-04	5/21/2002	7.18	26.3	2550		1710	6	< 1		44.3	< 1	< 1		0205-04172-001
NE-04	7/16/2002												28	0207-05904-005
NE-04	8/27/2002	7.2	28.1	2380		1590	6.2	< 1		62.3	< 1	< 1		0208-07256-004
NE-04	10/7/2002												30	0210-08395-004
NE-04	10/16/2002	7.54	26.4	2350		1570	1.4	< 1		30.6	< 1	< 1		0210-08788-009
NE-04	1/14/2003												28	0301-00459-008
NE-04	3/6/2003	7.38	26.8	2420		1620	3.6	< 1	< 1	50.7	< 1	< 1		030302105004
NE-04	4/11/2003												24	030403290011
NE-04	7/10/2003												27	030706280011
NE-04	11/14/2003												39	031111068008
NE-04	1/16/2004												30	040100605011
NE-04	2/16/2004	7.33	25.1	2330		1560	4.3	< 1	< 1	59	< 1	< 1		040201839004
NE-04	4/19/2004												17	040404233002
NE-04	7/23/2004												14	040708258006
NE-04	9/17/2004	7.41	29.1	2100		1400	6.2	< 2.5	< 2.5	88	< 2.5	< 2.5		040910776007
NE-04	10/14/2004												53	04101076-10B
NE-04	1/12/2005	7.42	24.5	2340		1570	2	< 1	< 1	39	< 1	< 1	41	05011033-11D
NE-04	4/12/2005												36	05041031-10B
NE-04	7/12/2005												32.4	05070997-12B
NE-04	9/12/2005	7.46	29.2	2070		1380	1.7	< 1	< 1	23	< 1	< 1		05090940-04D
NE-04	2/15/2006	7.44	24.9	2230		1490	1.8	< 1	< 1	19	< 1	< 1		06021236-14D
NE-04	8/14/2006												35	06080585-08B
NE-04	9/13/2006	7.24	28.1	2280		1520	4.78	< 1	< 1	64.02	< 1	< 1		06090520-12D
NE-04	10/19/2006												48.9	06100842-03B
NE-04	1/12/2007												35	07010389-13
NE-04	3/6/2007	7.41	27.4	2410		1600	1.94	< 1	< 1	23.28	< 1	< 1		07030441-03
NE-04	7/12/2007												41.9	07070476-03B
NE-04	8/20/2007	7.33	28	2420		1610	2.62	< 1	< 1	35.61	< 1	< 1		07080915-04D
NE-04	10/9/2007												22	198348-016
NE-04	1/16/2008						3	<0.5	0.4	34	<0.5	0.8		200619-012
NE-04	6/17/2008						2.7	<0.5	0.3	36	<0.5	0.8	19	204079-003
NE-04	8/14/2008						3.1	<0.5	0.4	41	<0.5	0.9	25	205346-002
NE-04	11/17/2008	7.26	25.6	3720		1860	2.8	<0.5	0.4	31	<0.5	1.1	23	208075-029
NE-04	2/18/2009	6.96	25.8	3670		1.83	4.9	<0.5	0.5	57	<0.5	1.6	22	210200-002
NE-04	5/13/2009	6.98	26.1	3550		1.77	6.3	<0.5	0.6	56	<0.5	2	21	212166-003
NE-04	8/23/2009	7.16	27.7	3750		1.87	5.8	<0.5	0.4	50	<0.5	1.6	40	214393-003
NE-04	12/2/2009	7.26	25.2	3530		1.76	6.6	<0.5	0.4	35	<0.5	2	29	217016-007
NE-04	12/2/2009	7.26	25.2	3530		1.76	6.8	<0.5	0.5	34	<0.5	2	27	217016-009
NE-04	2/23/2010	6.7	24.4	3470		1.73	5.9	<0.5	0.6	45	<0.5	1.7	24	218482-003
NE-04	5/12/2010	6.82	25.6	3450		1.72	4.8	<0.5	0.4	45	<0.5	1.6	40	220168-003
NE-04	8/17/2010	7.61	28.2	3280		1.63	4	<0.5	0.3	32	<0.5	1.5	24	221992-003
NE-04	11/30/2010						5	<0.5	0.4	41	<0.5	1.7	26	224639-055
NE-04	2/8/2011	7.01	25.04	2941	32.7		4.2	<0.5	0.3	33	<0.5	1.7	30	PGA SOUTH
NE-04	5/3/2011	6.63	25.46	3431	20		4.5	<0.5	0.4	35	<0.5	1.4		PGA SOUTH
NE-04	5/6/2011						4.5	<0.5	0.3	28	<0.5	1.7	150	PGA SOUTH
NE-04	6/2/2011						4.2	<0.5	0.3	33	<0.5	1.6		PGA SOUTH
NE-04	8/1/2011												25	PGA SOUTH
NE-04	8/6/2011	7.07	27.29	2642	6.39		3.8	<0.5	0.2	31	<0.5	1.5	23	PGA SOUTH
NE-04	9/7/2011												23	PGA SOUTH
NE-04	10/5/2011												23	154540
NE-04	11/7/2011												22	PGA SOUTH
NE-04	11/8/2011	7	23.9	2542	2.45		4.6	<0.5	0.3	26	<0.5	1.3	19	154540
NE-04	12/7/2011												20	189044
NE-04	2/7/2012	7.06	24.32	2732	0.65		4.5	<0.5	0.3	35	<0.5	1.9	20	189044
NE-04	5/21/2012						5.6	<0.5	0.3	30	<0.5	1.8	19	189044
NE-04	8/6/2012	7.19	29.09	3066	1.33		4.1	<0.5	0.3	35	<0.5	1.6	20	189044
NE-04	11/5/2012	7.41	24.51	2727	.81		4.2	<0.5	0.3	47	<0.5	1.4	24	189044
NE-04	2/6/2013	6.86	21.51	3584	2.06		4.6	<0.5	0.3	45	<0.5	1.4	26	189044
NE-04	5/6/2013	6.71	25.83	3543	2.37		4	<0.5	0.3	41	<0.5	1.4	24	PGA South
NE-04	8/7/2013	6.93	28.76	4019	3.29		3.1	<0.5	0.2 J	46 J	<0.5	1.4	29	247736-007
NE-04	11/5/2013	6.87	25.1	3648	0.85		3.2	<0.5	0.3 J	48	<0.5	1.1	24	250555-008
NE-05	2/7/1990							<0.2			0.6	0.4		2654
NE-05	2/15/1990	7.22	25.2			3000	5.7	<0.2		230	0.5	0.4		2622
NE-05	2/20/1990	6.95	19.4	4580		3040	2	< 2		450	< 2	< 2		2653
NE-05	4/3/1990	7.27	24.5	4290		2860	6.2	<0.2		270	0.8	0.5		4522
NE-05	4/17/1990	7.19	25.1	4370		2910	6	< 4		400	< 4	< 4		4665
NE-05	5/23/1990			4960		3270	4.9	<0.2		378	0.9	<0.2		5760
NE-05	6/19/1990		31	5410		3560	< 5	< 5		800	< 5	< 5		6772
NE-05	7/18/1990	7.03	29.8	5310		3550	< 5	< 5		560	< 5	< 5		7728

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
NE-05	8/17/1990	7.17	28.5	4940		3290	< 5	< 5		320	< 5	< 5		8664
NE-05	9/23/1990	7.26	26.7	5440		3630	< 5	< 5		450	< 5	< 5		9768
NE-05	10/18/1990	7.16	26.4	5260		3500	8	< 2		390	< 2	< 2		10721
NE-05	11/30/1990	7.16	19.4	5450		3648	8	< 2		560	< 2	< 2		12542
NE-05	12/18/1990	7.01	22.9	5220		3480	8	< 2		450	< 2	< 2		12764
NE-05	1/23/1991	7.25	21.6	5010		3330	< 5	< 5		300	< 5	< 5		101748
NE-05	2/17/1991	7.33	24.2	4950		3290	6	< 5		220	< 5	< 5		102699
NE-05	3/17/1991	7.19	22.9	5060		3370	7	< 4		340	< 4	< 4		103798
NE-05	4/22/1991	7.36	26.8	4860		3260	18	< 2		360	< 2	< 2		104816
NE-05	5/22/1991	7.28	26.6	4970		3310	< 2	< 2		260	< 2	< 2		105819
NE-05	6/19/1991	7.3	29.9	5090		3400	0.2	<0.2		330	8.5	0.5		106811
NE-05	7/21/1991	7.35	27	4940		3290	0.2	<0.2		330	8.5	0.5		107817
NE-05	8/18/1991	7.57	27.8	5060		3370	6	< 2		277	< 2	< 2		108745
NE-05	9/22/1991	7.57	26.7	5040		3360	7	< 2		300	< 2	< 2		109886
NE-05	1/20/1992	7.54	23.1	4240		2840	4	< 2		260	< 2	< 2		201746
NE-05	7/13/1992	7.08	27.1	4170		2750	6	< 1		320	1	< 1		207683
NE-05	7/14/1992	7.08	27.1	4170		2750	6	< 1			1	< 1		20768301
NE-05	10/2/1992	7.51	20.1	4100		2740	8	< 1		250	2	< 1		210533
NE-05	12/23/1992						6.8	<0.2		290	0.6	0.2		212987
NE-05	3/15/1993	6.9	25.9	4020		2690	13	< 1		320	2	< 1		30377304
NE-05	5/14/1993	7.23	27.9	4530		3020	8.8	<0.2		220	0.4	0.5		30574305
NE-05	6/25/1993	7.08	28	4900		1600	11	0.4		220	0.4	0.8		30602711
NE-05	9/13/1993												78	309683
NE-05	10/8/1993	7.1	27.9	4100		2730	3	< 2		260	< 2	< 2		31070936
NE-05	10/29/1993												73	310128
NE-05	12/20/1993	7.1	24	4050		2800	19	<0.2		340	1	0.8	64	31207905
NE-05	12/21/1993	7.1	24	4050		2800	11	0.5		290	0.5	0.8		31207912
NE-05	4/18/1994	6.76	26.7	4650			14	<0.2		250	0.5	0.7		40486605
NE-05	5/10/1994												60	40587506
NE-05	6/16/1994	6.9	25.9	3690		2500	13	<0.5		200	< 1	< 1		40684411
NE-05	9/27/1994	7.03	28	4050		2800	0.4	< 1		270	<0.5	<0.5		40992206
NE-05	12/12/1994	7.03	25.2	4310		2860	12	<0.2		320	<0.2	<0.2		9412023867
NE-05	12/21/1994												56	9412026711
NE-05	3/22/1995	7.06	26.4	4630		3090	12.1	< 1		240	< 1	< 1		9503-4380-10
NE-05	6/14/1995	7.25	27.1	4410		2920	11.1	< 1		230	< 1	< 1		9506-05930-1
NE-05	9/14/1995	7.08	26.7	4160		2740	7.3	< 1		216	< 1	< 1		9509-07511-1
NE-05	12/26/1995	7.13	24.8	4730		3360	9.5	100		210	< 1	< 1		9512-09221-8
NE-05	12/26/1995	7.11	25.3	4840		3420	8.6	< 1		195	< 1	< 1		9512-09221-3
NE-05	3/21/1996						8.5	< 1		244	< 1	1.1		9603-01428-2
NE-05	3/21/1996	7.06	27	4250		2950	7.8	< 1		222	< 1	1.1		9603-01428-1
NE-05	6/17/1996	7.13	28	3980		2650	< 1	< 1		254	< 1	< 1		9606-03052-1
NE-05	9/25/1996	7.19	27.5	4040		2890	< 1	< 1		300	< 1	< 1		9609-04963-2
NE-05	12/11/1996	7.07	26.5	4090		2800	< 1	< 1		296	< 1	< 1		9612-06480-11
NE-05	2/3/1997	7.18	26.5	4070			7.5	< 1		257	< 1	1.4		9702-00817-1
NE-05	4/25/1997	7.12	26.5	2710		1810	< 1	< 1		277	< 1	< 1		9704-02536-4
NE-05	5/7/1997												57	9705-02785-6
NE-05	6/6/1997												37	9706-03503-11
NE-05	9/26/1997	7.3	26.8	2560		1710	7.5	< 1		284	< 1	1		9709-06223-1
NE-05	10/21/1997	7.21	26.5	2480		1660	9.4	< 1		303	< 1	< 1	70	9710-06823-1
NE-05	1/16/1998	7.29	25.5	2520		1680	5.6	< 1		227	< 1	< 1		9801-00427-4
NE-05	4/20/1998	730	27.7	2530		1690	5.5	< 1		212	< 1	< 1	42	9804-02699-2
NE-05	1/30/1999	7.13	25.7	2620		1760	5.3	< 1		192	< 1	< 1	62	9901-00917-12
NE-05	1/11/2000	7.27	25.2	2510		1680	4.8	< 1		137	< 1	< 1	81	0001-00381-005
NE-05	1/22/2001	7.25	27	2710		1810	2.7	< 1		148	< 1	< 1	69	0101-00601-005
NE-05	6/18/2001												114	0106-04427-004
NE-05	6/25/2001												92	0106-04615-004
NE-05	7/2/2001												104	0107-04779-004
NE-05	7/13/2001												97	0107-05115-005
NE-05	8/9/2001												143	0108-05808-005
NE-05	10/12/2001												123	0110-07753-005
NE-05	1/14/2002												112	0201-00427-012
NE-05	1/21/2002	7.15	25.7	2670		1790	6.2	< 1		237	< 1	< 1	118	0201-00589-004
NE-05	4/11/2002												139	0204-03063-011
NE-05	7/16/2002												127	0207-05904-006
NE-05	10/7/2002												127	0210-08395-005
NE-05	1/14/2003												120	0301-00459-009
NE-05	3/6/2003	7.25	26.8	2540		1700	< 1	< 1	< 1	156	< 1	< 1		030302105005
NE-05	4/11/2003												90	030403290012
NE-05	7/10/2003												95	030706280012
NE-05	9/9/2003	7.53	27.5	2430		1620	< 1	< 1	< 1	85	< 1	< 1	99	030908571003
NE-05	10/16/2003												89	031009963004

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
NE-05	11/14/2003												92	031111068009
NE-05	12/12/2003												100	031212173003
NE-05	1/16/2004												92	040100605012
NE-05	2/12/2004												85	040201599009
NE-05	2/16/2004	7.48	24.9	2400		1600	1.8	< 1	< 1	140	< 1	< 1		040201839005
NE-05	3/11/2004												83	040302734010
NE-05	4/19/2004												64	040404233003
NE-05	5/14/2004												76	040505319003
NE-05	7/23/2004												15	040708258007
NE-05	8/17/2004												76	040809425006
NE-05	9/17/2004	7.3	29.2	2120		1400	< 5	< 5	< 5	140	< 5	< 5	87	040910776008
NE-05	10/14/2004												100	04101076-15B
NE-05	11/11/2004												94	04110939-08B
NE-05	12/28/2004												83	04121373-01B
NE-05	1/12/2005	7.33	24.1	2430		1620	2.1	< 1	< 1	150	< 1	< 1	92	05011033-12D
NE-05	2/10/2005												96	05021023-11B
NE-05	3/10/2005												78	05031045-01B
NE-05	4/12/2005												75	05041031-11B
NE-05	5/11/2005												68	05050902-12B
NE-05	6/10/2005												69	05060846-28B
NE-05	7/12/2005												66.6	05070997-13B
NE-05	8/10/2005												64	05080907-04B
NE-05	9/12/2005												74	05090940-03B
NE-05	9/12/2005	7.46	28.9	2100		1400	2.9	< 1	< 1	120	< 1	< 1		05090940-03D
NE-05	10/14/2005												66	05101155-13B
NE-05	11/14/2005												72	05111097-04B
NE-05	12/9/2005												65	05120894-21B
NE-05	1/5/2006												68	06010681-06B
NE-05	2/13/2006												61	06021236-05B
NE-05	3/17/2006												52	06031366-07B
NE-05	3/21/2006	7.26	21.5	2350		1570	1.3	< 1	< 1	59	< 1	< 1	54	06031366-13D
NE-05	4/13/2006												55	06041175-06B
NE-05	5/11/2006												62	06050997-01B
NE-05	8/14/2006												54	06080585-09B
NE-05	8/30/2006												58	06081187-08B
NE-05	9/11/2006												65.3	06090520-04B
NE-05	9/13/2006	7.34	27.8	2340		1560	1.42	< 1	< 1	96.04	< 1	< 1		06090520-11D
NE-05	10/19/2006												65.8	06100842-04B
NE-05	11/13/2006												58	06110625-13B
NE-05	12/12/2006												47.4	06120441-01B
NE-05	1/12/2007												63.5	07010389-08
NE-05	2/12/2007												63.4	07020516-10
NE-05	3/6/2007	7.49	26.3	2560		1710	3.13	< 1	< 1	85.1	< 1	< 1	58.1	07030441-04
NE-05	4/11/2007												61.7	07040678-07
NE-05	5/8/2007	7.07	29.1	2280		1520								07050310-07
NE-05	5/15/2007												63.3	07050624-10
NE-05	6/14/2007												58	07060543-07
NE-05	7/12/2007												58.5	07070476-04B
NE-05	8/8/2007												58.1	07080415-09B
NE-05	8/20/2007	7.16	29.8	2100		1410	1.84	< 1	< 1	71.77	< 1	< 1		07080915-03D
NE-05	9/12/2007												61.7	07090478-04B
NE-05	10/9/2007												37	198348-009
NE-05	11/7/2007												39	199171-009
NE-05	1/16/2008						0.5	<0.5	0.1	13	<0.5	0.2	22	200619-009
NE-05	1/16/2008						0.5	<0.5	0.2	13	<0.5	0.2	25	200619-008
NE-05	2/12/2008												46	201202-008
NE-05	3/12/2008												44	201931003
NE-05	4/18/2008												36	202698-008
NE-05	5/13/2008												39	203270-008
NE-05	6/17/2008						2.9	<0.5	0.3	59	<0.5	0.7	35	204079-004
NE-05	6/18/2008													204079-010
NE-05	7/16/2008												37	204674-008
NE-05	8/14/2008												38	205346-001
NE-05	9/11/2008												34	206007-004
NE-05	10/7/2008												36	206689-002
NE-05	11/17/2008	7.02	25.7	3680		1840	3.7	<0.5	0.4	76	<0.5	1.3	38	208075-030
NE-05	12/17/2008	6.91	25	3620		1810							36	208810-005
NE-05	2/18/2009						3.9	<0.5	0.4	82	<0.5	1.3	35	210199-008
NE-05	2/18/2009	6.96	24.6	3740		1.86	4.2	<0.5	0.4	84	<0.5	1.4	34	210199-007
NE-05	3/11/2009	6.93	24.4	3.63		1.81							35	210629-002
NE-05	4/14/2009	6.79	25.6	3600		1790							35	211506-003

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
NE-05	5/13/2009	7.02	26.3	3540		1.76	4.4	<0.5	0.4	63	<0.5	1.4	33	212166-004
NE-05	6/29/2009	6.7	26.9	3480		1.74							34	213205-003
NE-05	7/15/2009	6.94	28.7	3410		1.7							32	213608-003
NE-05	8/23/2009	7.18	27	3840		1.92	3	<0.5	0.3	59	<0.5	0.9	31	214393-004
NE-05	9/16/2009												38	215010-001
NE-05	10/20/2009												33	215908-001
NE-05	11/18/2009	6.75	24.3	3710		1.84							29	216662-001
NE-05	12/2/2009	7.36	26	3770		1.89	4	<0.5	0.5	63	<0.5	1.3	33	217016-008
NE-05	1/14/2010												29	217772-008
NE-05	2/18/2010	6.78	25.5	3670		1.83	2.5	<0.5	0.3	38	<0.5	0.7	33	218388-001
NE-05	2/18/2010	6.78	25.5	3670		1.83	2.7	<0.5	0.4	42	<0.5	0.8	33	218388-002
NE-05	3/9/2010												30	218712-001
NE-05	4/14/2010												32	219502-003
NE-05	5/13/2010	7.03	24.2	3510		1.75	2.3	<0.5	0.2	41	<0.5	0.8	29	220168-005
NE-05	5/13/2010	7.03	24.2	3510		1.75	2.4	<0.5	0.2	42	<0.5	0.8	31	220168-004
NE-05	6/22/2010												32	220905-001
NE-05	7/14/2010	7.63	27.6	3490		1.74							35	221286-001
NE-05	8/17/2010	7.58	29	3550		1.78	3.2	<0.5	0.3	55	<0.5	1	30	221992-004
NE-05	10/20/2010												32	223362-006
NE-05	11/4/2010												31	223810-004
NE-05	12/2/2010												34	224639-047
NE-05	1/4/2011												26	PGA SOUTH
NE-05	2/3/2011	7.48	17.77	3749	1.12								35	PGA SOUTH
NE-05	3/1/2011												33	PGA SOUTH
NE-05	4/5/2011												34	PGA SOUTH
NE-05	5/3/2011												28	PGA SOUTH
NE-05	5/4/2011	7.01	26.18	3321	1.93		2.8	<0.5	0.3	41	<0.5	0.9		PGA SOUTH
NE-05	6/2/2011												31	PGA SOUTH
NE-05	7/5/2011												28	PGA SOUTH
NE-05	8/1/2011												29	PGA SOUTH
NE-05	8/6/2011	7.33	27.32	2973	1.55		1.7	<0.5	0.2	35	<0.5	0.6		PGA SOUTH
NE-05	9/7/2011												30	PGA SOUTH
NE-05	10/5/2011												30	154540
NE-05	11/7/2011						1	<0.5	0.2	30	<0.5	0.5	28	PGA SOUTH
NE-05	11/8/2011	7.23	23.29	2991	0.7		1.5	<0.5	0.3	33	<0.5	0.5		154540
NE-05	11/9/2011	7.24	24.77	2889	0.73								26	154540
NE-05	12/7/2011												27	189044
NE-05	1/3/2012	7.65	25.24	3904	74.8								26	189044
NE-05	2/2/2012	7.29	23.64	3752	1.06		2.6	<0.5	0.3	45	<0.5	0.9	32	189044
NE-05	3/1/2012						2.6	<0.5	0.3	41	<0.5	0.8	27	189044
NEW-01	1/30/1990							<0.2			<0.2	0.5		1745
NEW-01	3/1/1990	7.03	23.8	5220		3470	<0.2	<0.2		4.8	1.3	<0.2		3518
NEW-01	3/21/1990	7.06	24.1	4530		3020	<0.2	<0.2		4.4	0.9	<0.2		3755
NEW-01	4/17/1990	7.04	24.2	4590		2930	<0.2	<0.2		3.9	0.6	<0.2		4665
NEW-01	5/23/1990			4555		3000	<0.2	<0.2		3.7	0.7	<0.2		5760
NEW-01	6/19/1990		27.5	4530		2960	<0.2	<0.2		4.8	1	<0.2		6772
NEW-01	7/17/1990	7.11	27	4410		2940	<0.2	<0.2		4	0.9	<0.2		7728
NEW-01	8/16/1990	7.16	28.6	4420		2950	<0.2	<0.2		2.8	0.5	<0.2		8644
NEW-01	9/22/1990	7.25	24.6	5950		3970	<0.2	<0.2		1.7	<0.2	<0.2		9768
NEW-01	10/17/1990	7.01	25.9	5970		3990	<0.2	<0.2		1.3	<0.2	<0.2		10721
NEW-01	11/24/1990	7.14	25.2	5390		3590	<0.2	<0.2		2.4	0.4	<0.2		11779
NEW-01	12/14/1990	< 7.1	23	5500		3680	<0.2	<0.2		2.5	0.4	<0.2		12764
NEW-01	1/18/1991	7.13	21.9	5650		3770	<0.2	<0.2		1.6	0.5	<0.2		101748
NEW-01	3/17/1991	7.12	23.3	5510		3680	<0.2	<0.2		0.8	<0.2	<0.2		103798
NEW-01	6/21/1991	7.25	25.4	4690		3150	<0.2	<0.2		3	0.8	<0.2		106863
NEW-01	9/24/1991	7.36	25.2	6100		4070	<0.2	<0.2		0.6	0.2	<0.2		109886
NEW-01	1/19/1992	7.33	23.1	5440		3630	<0.2	<0.2		0.9	<0.2	<0.2		201734
NEW-01	3/26/1992	7.32	24.1	5350		3570	<0.2	<0.2		1.4	0.5	<0.2		203951
NEW-01	6/27/1992	7.09	26.9	4650		3110	<0.2	<0.2		0.9	0.3	<0.2		206044
NEW-01	10/9/1992	7.33	25.7	5440		3640	<0.2	<0.2		<0.2	<0.2	<0.2		210645
NEW-01	12/17/1992	7.33	22.2	5890		3950	<0.2	<0.2		0.2	<0.2	<0.2		212907
NEW-01	3/12/1993	6.9	23.6	5290		3530	<0.2	<0.2		0.2	<0.2	<0.2		30375803
NEW-01	6/21/1993	6.92	24.8	4100		1600		<0.2		0.6	<0.2	<0.2		30695101
NEW-01	10/19/1993	6.93	24	5700			<0.2	<0.2		0.4	<0.2	<0.2		31092907
NEW-01	1/11/1994	6.96	24	5620		3760	<0.2	<0.2		0.3	<0.2	<0.2		40166904
NEW-01	4/6/1994	7.03	24.5	4720		3150	<0.2	<0.2		0.7	<0.2	<0.2		40467413
NEW-01	6/13/1994	6.98	24.5	4730		3150	<0.2	<0.5		2.1	<0.2	<0.2		40672210
NEW-01	9/26/1994	6.63	24.9	3630			<0.2	<0.2		3	0.2	0.5		40993604
NEW-01	12/30/1994	7.12		5340		3970	<0.2	<0.2		1.9	<0.2	<0.2		9412027713
NEW-01	3/21/1995	6.95	24.5	5300		3540	< 1	< 1		1.9	< 1	< 1		9503-4378-4
NEW-01	6/12/1995	7.11	25.2	4890		3250	< 1	< 1		3.9	< 1	< 1		9506-05930-14

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
NEW-01	6/12/1995	7.11	25.2	4890		3250	< 1	< 1		3.8	< 1	< 1		9506-05930-13
NEW-01	9/19/1995	7.08	25.6	5060		3380	< 1	< 1		3.8	< 1	< 1		9509-07574-8
NEW-01	12/18/1995	7.02	23.5	5410		4320	< 1	< 1		3.8	< 1	< 1		9512-09134-1
NEW-01	3/27/1996	7.19	25	4270		2880	< 1	< 1		4.4	< 1	< 1		9603-01526-2
NEW-01	6/20/1996	7.12	26.4	3310		2210	< 1	< 1		6.4	< 1	< 1		9606-03103-14
NEW-01	9/20/1996	7.14	26.2	3870		2580	< 1	< 1		6	< 1	< 1		9609-04837-4
NEW-01	12/19/1996	6.99	23.1	4700		3140	< 1	< 1		10.3	< 1	< 1		9612-06624-2
NEW-01	2/19/1997	7.15	24.4	4700			< 1	< 1		7.3	< 1	< 1		9702-01144-12
NEW-01	6/11/1997	7.22	26.3	1750		1170	< 1	< 1		< 1	< 1	< 1		9706-03639-9
NEW-01	6/11/1997	7.22	26.3	1750		1170	< 1	< 1		< 1	< 1	< 1		9706-03639-10
NEW-01	9/16/1997	7.12	24.9	2600		1740	<0.5	<0.5		15.3	<0.5	<0.5		9709-06025-1
NEW-01	12/4/1997	7.11	23.3	3240		2170	< 1	< 1		11.7	< 1	< 1		9712-07851-5
NEW-01	12/4/1997	7.11	23.3	3240		2170	< 1	< 1		13.5	< 1	< 1		9712-07851-4
NEW-01	2/6/1998	7.05	24.2	3010		2010	< 1	< 1		12.2	< 1	1.7		9802-00902-2
NEW-01	8/13/1998									5.8				PHH00611
NEW-01	8/13/1998	7.17	25.7	2580		1720	< 1	< 1		6.6	< 1	< 1		9808-05688-1
NEW-01	10/30/1998	7.02	23.9	3030		2030	< 1	< 1		13.3	< 1	< 1		9811-07838-1
NEW-01	2/7/1999	7.06	23.7	3230		2150	< 1	< 1		12.7	< 1	< 1		9902-01284-20
NEW-01	4/20/1999	7.15	25.8	2650		1770	< 1	< 1		7.9	< 1	< 1		9904-03705-02
NEW-01	4/20/1999	7.15	25.8	2650		1770	< 1	< 1		8.2	< 1	< 1		9904-03705-01
NEW-01	7/29/1999	7.14	25.2	1930		1290	< 1	< 1		5.5	< 1	< 1		9907-06851-006
NEW-01	10/20/1999	7.07	25.1	2760		1850	< 1	< 1		16.8	< 1	< 1		9910-09613-001
NEW-01	10/20/1999	7.07	25.1	2760		1850	< 1	< 1		16.5	< 1	< 1		9910-09613-002
NEW-01	1/25/2000	7.08	24.4	2010		1340	< 1	< 1		21.9	< 1	< 1		0001-00788-005
NEW-01	4/5/2000	7.18	25.5	2550		1700	< 1	< 1		9	< 1	< 1		0004-03148-002
NEW-01	7/26/2000	7.19	26.5	1800		1200	< 1	< 1		2	< 1	< 1		0007-06600-001
NEW-01	10/19/2000	7.13	24.2	2670		1790	< 1	< 1		13.7	< 1	< 1		0010-09219-001
NEW-01	10/19/2000	7.13	24.2	2670		1790	< 1	< 1		12.2	< 1	< 1		0010-09219-002
NEW-01	2/21/2001	7.05	25.5	3330		2220	< 1	< 1		24.5	< 1	< 1		0102-01393-002
NEW-01	2/21/2001	7.05	25.5	3330		2220	< 1	< 1		25.3	< 1	< 1		0102-01393-001
NEW-01	4/20/2001	7.13	25.1	2980		2000	< 1	< 1		16	< 1	< 1		0104-02944-001
NEW-01	9/24/2001	7.13	26	2570		1720	< 1	< 1		17	< 1	< 1		0109-07100-001
NEW-01	11/21/2001	24.3	24.3	3290		2200	< 1	< 1		6.2	< 1	< 1		0111-08941-001
NEW-01	2/13/2002	7.03	24.5	3110		2090	< 1	< 1		21	< 1	< 1		0202-01324-001
NEW-01	5/30/2002	7.07	27.2	2800		1880	< 1	< 1		10.4	< 1	< 1		0205-04370-004
NEW-01	5/30/2002	7.07	27.2	2800		1880	< 1	< 1		11.2	< 1	< 1		0205-04370-003
NEW-01	9/13/2002	7.05	27.9	2700		1800	< 1	< 1		18.1	< 1	< 1		0209-07700-007
NEW-01	10/23/2002	7.07	25.2	3070		2050	< 1	< 1		27.9	< 1	< 1		0210-09002-001
NEW-01	10/23/2002						< 1	< 1		31.1	< 1	< 1		0210-09002-002
NEW-01	3/21/2003	7	25.5	3010		2020	< 1	< 1	< 1	25.9	< 1	< 1		030302553001
NEW-01	6/26/2003	7.11	25.6	2730		1830	< 1	< 1	< 1	23.1	< 1	< 1		030605833012
NEW-01	9/19/2003	7.09	27.4	2340		1570	< 1	< 1	< 1	17.2	< 1	< 1		030908958001
NEW-01	12/9/2003	7.14	22.3	3000		2000	< 1	< 1	< 1	26.8	< 1	< 1		031212090011
NEW-01	3/1/2004	7.06	23.7	2820		1890	< 1	< 1	< 1	14	< 1	< 1		040302356001
NEW-01	5/6/2004	6.92	27.2	2800		1870	< 1	< 1	< 1	18	< 1	< 1		040505018004
NEW-01	5/6/2004	6.92	27.2	2800		1870	< 1	< 1	< 1	20	< 1	< 1		040505018002
NEW-01	9/23/2004	7.07	25.6	2300		1560	< 1	< 1	< 1	21	< 1	< 1		040911070010
NEW-01	12/20/2004	7.01	21.7	2760		1850	< 1	< 1	< 1	11	< 1	< 1		04121265-01D
NEW-01	3/21/2005	7.1	25.2	2370		1590	< 1	< 1	< 1	4.6	< 1	< 1		05031440-04D
NEW-01	6/8/2005	7.02	27	2490		1660	< 1	< 1	< 1	9.7	< 1	< 1		05060846-03D
NEW-01	9/27/2005	7.03	26.9	2300		1550	< 1	< 1	< 1	9.2	< 1	< 1		05091650-07D
NEW-01	12/8/2005	6.99	21.3	2650		1770	< 1	< 1	< 1	6.4	< 1	< 1		05120894-08D
NEW-01	3/7/2006	6.81	24	2600		1740	< 1	< 1	< 1	16	< 1	< 1		06030983-04D
NEW-01	6/14/2006	6.91	27.4	2610		1750	< 1	< 1	< 1	17	< 1	< 1		06060615-09D
NEW-01	9/26/2006	7.01	26.8	2590		1730	< 1	< 1	< 1	14.7	< 1	< 1		06091031-10D
NEW-01	12/21/2006	7.05	21.2	3240		2170	< 1	< 1	< 1	14.83	< 1	< 1		06120700-03D
NEW-01	3/22/2007	7.04	22.6	3040		2030	< 1	< 1	< 1	12.35	< 1	< 1		07030871-07
NEW-01	3/22/2007	7.04	22.6	3040		2030	< 1	< 1	< 1	12.23	< 1	< 1		07030871-08
NEW-01	6/7/2007	6.89	26.2	2970		1990	< 1	< 1	< 1	15.82	< 1	< 1		07060256-12
NEW-01	6/7/2007	6.89	26.2	2970		1990	< 1	< 1	< 1	15.62	< 1	< 1		07060256-13
NEW-01	9/24/2007	6.71	25.6	2570		1720	< 1	< 1	< 1	16.36	< 1	< 1		07091009-02D
NEW-01	10/9/2007	6.96	24.2	4960		1990	0.5	<0.5	<0.5	16	<0.5	<0.5		198353-001
NEW-01	1/11/2008	6.82	23.92	4548		3050	0.2	<0.5	<0.5	10	<0.5	<0.5		200517-011
NEW-01	8/3/2008	7.1	24.42	4581		2980	0.3	<0.5	<0.5	10	<0.5	<0.5		205111-006
NEW-01	11/18/2008						0.3	<0.5	<0.5	11	<0.5	<0.5		208075-010
NEW-01	11/19/2008	6.81	24.26	4770		3200								208075-010
NEW-01	2/18/2009	6.85	24.17	4772	6.73	3.1	0.3	<0.5	<0.5	7.4	<0.5	<0.5		210202-028
NEW-01	5/18/2009	6.84	24.24	4529	7.03	2.99	0.3	<0.5	<0.5	11	<0.5	<0.5		212306-002
NEW-01	8/24/2009	6.88	24.5	4827	20.9	3.23	0.3	<0.5	<0.5	12	<0.5	<0.5		214514-011
NEW-01	11/17/2009	6.85	24.25	4470	6.49	2.99	<0.5	<0.5	<0.5	6.1	<0.5	<0.5		216704-002
NEW-01	2/2/2010	7.33	24.05	4427		11.9	0.1	<0.5	<0.5	6.6	<0.5	<0.5		218171-021

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
NEW-01	5/5/2010	6.96	24.99	4545		7.01	0.2	<0.5	<0.5	7.3	<0.5	<0.5		220017-017
NEW-01	8/24/2010	7.24	24.61	3921	14	2.63	0.2	<0.5	<0.5	8.7	<0.5	<0.5		222127-002
NEW-01	11/30/2010						0.3	<0.5	<0.5	7.7	<0.5	<0.5		224639-033
NEW-01	2/8/2011	6.7	24.48	5022	6.2		0.2	<0.5	<0.5	5	<0.5	<0.5		PGA SOUTH
NEW-01	5/7/2012	6.62	30.38	4668	4.29		0.3	<0.5	<0.5	12	<0.5	<0.5		189044
NEW-01	8/9/2012						0.3	<0.5	<0.5	13	<0.5	<0.5		189044
NEW-01	11/7/2012				3.3		<0.5	<0.5	<0.5	3.7	<0.5	<0.5		189044
NEW-01	2/7/2013				12.5		<0.5	<0.5	<0.5	2.1	<0.5	<0.5		189044
NEW-01	5/7/2013				0.64		0.2	<0.5	0.1	5.3	<0.5	<0.5		PGA South
NEW-01	8/9/2013				10.3		<0.5	<0.5	<0.5	9.9	<0.5	<0.5		247902-015
NEW-01	11/5/2013				39.8		<0.5	<0.5	<0.5	6.5	<0.5	<0.5		250555-010
NEW-02	1/30/1990	7.11	20.5			3460	0.7	<0.2		180	<0.2	0.8		1745
NEW-02	3/1/1990	7.15	24.9	5010		3330	<0.2	<0.2		150	0.3	<0.2		3518
NEW-02	3/21/1990	7.12	24.6	5490		3660	< 2	< 2		220	< 2	< 2		3755
NEW-02	4/17/1990	7.18	25.6	5150		3440	< 2	< 2		340	< 2	< 2		4665
NEW-02	5/23/1990			5950		3980	< 2	< 2		300	< 2	< 2		5760
NEW-02	6/19/1990		28.5	5980		2990	< 2	< 2		410	< 2	< 2		6772
NEW-02	7/17/1990	7.19	28.2	5820		3880	< 2	< 2		280	< 2	< 2		7728
NEW-02	8/17/1990	7.23	26.6	5330		3560	< 2	< 2		310	< 2	< 2		8664
NEW-02	9/22/1990	7.18	25.3	5160		3440	< 2	< 5		210	< 2	< 2		9768
NEW-02	10/17/1990	7.14	25.9	4960		3310	< 2	< 2		100	< 2	< 2		10721
NEW-02	11/24/1990	7.26	25.6	4790		3210	< 1	< 1		50	< 1	< 1		11779
NEW-02	12/14/1990	7.23	25.3	4760		3180	< 1	< 1		70	< 1	< 1		12764
NEW-02	1/18/1991	7.23	24.1	4820		3220	< 1	< 1		75	< 1	< 1		101748
NEW-02	3/17/1991	7.24	25	4790		3200	< 1	< 1		31	< 1	< 1		103798
NEW-02	6/21/1991	7.3	26.1	5170		3450	0.2	<0.2		31	0.4	<0.2		106863
NEW-02	9/24/1991	7.56	25.5	5230		3480	< 2	< 2		76	< 2	< 2		109886
NEW-02	2/8/2011						<0.5	<0.5	<0.5	2.5	<0.5	<0.5	32	PGA SOUTH
NEW-03	1/30/1990	7	21.6			4390	<0.2	<0.2		640	<0.2	1.7		1745
NEW-03	3/1/1990	7	25.2	6750		4500	0.7	<0.2		740	0.7	1.5		3518
NEW-03	3/21/1990	6.95	24.9	6700		4460	< 10	< 10		570	< 10	< 10		3755
NEW-03	4/17/1990	7.08	25.3	5990		4010	< 10	< 10		730	< 10	< 10		4665
NEW-03	5/23/1990			6500		4300	< 10	< 10		650	< 10	< 10		5760
NEW-03	6/19/1990		27.8	6360		4100	< 10	< 10		540	< 10	< 10		6772
NEW-03	7/17/1990	7.03	27.9	6150		4100	< 10	< 10		630	< 10	< 10		7728
NEW-03	8/17/1990	7.17	27.1	5640		3770	< 10	< 10		610	< 10	< 10		8664
NEW-03	9/22/1990	7.08	25.2	6000		4000	< 5	< 5		540	< 5	< 5		9768
NEW-03	10/17/1990	7.16		6510		4340	< 2	< 2		550	< 2	< 2		10721
NEW-03	11/24/1990	7.13	26.1	6390		4260	< 5	< 5		580	< 5	< 5		11779
NEW-03	12/17/1990	7.1	24.5	6340		4220	10	< 4		610	< 4	< 4		12764
NEW-03	1/18/1991	7.21	24.8	6280		4210	< 5	< 5		670	< 5	< 5		101748
NEW-03	3/17/1991	7.21	25.1	6340		4230	< 5	< 5		710	< 5	< 5		103798
NEW-03	6/21/1991	7.29	26	6140		4100	8	< 4		650	< 4	< 4		106863
NEW-03	9/24/1991	7.51	27.2	5610		3740	< 5	< 5		370	< 5	< 5		109886
NEW-03	1/19/1992	7.33	24.8	5040		3370	< 4	< 4		510	< 4	< 4		201734
NEW-03	1/20/1992	7.33	24.8	5040		3370	< 4	< 4		490	< 4	< 4		20173401
NEW-03	3/28/1992	7.24	25.6	5060		3380	7	<0.2		430	<0.2	<0.2		203979
NEW-03	6/27/1992	7.27	26.7	5000		3330	11	< 1		540	< 1	< 1		206044
NEW-03	10/9/1992	7.27	26.4	5130		3430	17	< 1		380	< 1	< 1		210645
NEW-03	1/5/1993	7.3	24.3	4960		3300	8	< 1		380	1	< 1		301538
NEW-03	3/23/1993	7.07	25.4	4720		3140	8	< 5		440	< 5	< 5		30397407
NEW-03	6/18/1993	6.92	26.4	3850		1450	11	< 1		550	< 1	< 1		30689311
NEW-03	10/8/1993	7.08	26	7310				< 1		370	< 1	< 1		31070903
NEW-03	12/30/1993	6.37	20.9	5430			6	<0.2		380	<0.2	0.6		40151215
NEW-03	4/19/1994	7.04	27.5	5820		3900	19	< 1		230	< 1	< 1		40494805
NEW-03	6/10/1994	7.05	27.5	5890		3930	20	2		200	0.5	2		40672204
NEW-03	9/27/1994	6.86	25.3	3830			5.6	4.8		220	<0.2	<0.2		40993629
NEW-03	12/22/1994	7.08	25	5720		3810	42	2.4		150	<0.2	1.4		9412026724
NEW-03	3/30/1995	7.11	25.2	6000		4000	44.3	< 1		158	< 1	< 1		9503-4521-3
NEW-03	12/28/1995	7.05	24.7	4900		3310	46	< 1		104	< 1	1.9		9512-09221-43
NEW-03	12/29/1996	7.14	25.8	5020		3320	50.4	< 1		178	< 1	< 1		9612-06704-12
NEW-03	12/15/1997	7.14	25.3	3330		2230	12.6	< 1		182	< 1	3.9		9712-08132-4
NEW-03	5/28/1998	7.33	27.6	3010		2020	18.6	< 1		131	< 1	< 1		9805-03669-3
NEW-03	2/11/1999	7.18	24.6	2850		1910	26.1	< 1		104	< 1	3.7		9902-01433-07
NEW-03	2/1/2000	7.04	25.4	2600		1730	9.6	< 1		167	< 1	6.4		0002-01077-001
NEW-03	2/26/2001	7.1	25.6	2670		1790	5.2	< 1		102	< 1	2.5		0102-01473-002
NEW-03	2/14/2002	7.13	25.8	2630		1760	1.9	< 1		120	< 1	< 1		0202-01358-005
NEW-03	3/26/2003	7.09	27.4	2510		1690	< 1	< 1	< 1	52	< 1	< 1		030302776011
NEW-03	9/23/2003	7.2	27	2520		1690	4.1	< 1	< 1	90.9	< 1	< 1		030909106014
NEW-03	3/3/2004	7.2	24.6	2610		1740	3.5	< 1	0.78	79	< 1	1.1		040302470005
NEW-03	9/27/2004	7.16	29.3	2220		1490	< 2	< 2	< 2	81.5	< 2	< 2		040911253004

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
NEW-03	3/22/2005	7.14	24.6	2470		1650	4.7	< 1	1.4	110	< 1	3.1		05031440-14D
NEW-03	3/14/2006	7.09	23.6	2590		1730	1.6	< 1	< 1	47	< 1	< 1		06031132-11D
NEW-03	9/27/2006	7.12	28.6	2550		1700	< 1	< 1	< 1	45.45	< 1	< 1		06091031-15D
NEW-03	3/26/2007	7.07	28.2	2500		1670	2.22	< 1	1.02	13.16	< 1	2.43		07030871-17
NEW-03	2/21/2009						5.4	<0.5	0.7	56	<0.5	1		210249-007
NEW-03	2/21/2009	6.8	21.58	3685	223	2.47	5.2	<0.5	0.7	58	<0.5	1		210249-006
NEW-03	8/26/2009	6.89	30.33	4943	290	3.31	6.5	<0.5	0.9	90	<0.5	2.2		214514-023
NEW-03	2/5/2010	7.11	26.26	6310	378	4.23	10	<0.5	1.3	76	<0.5	2.5		218218-004
NEW-03	2/5/2010	7.11	26.26	6310	378	4.23	11	<0.5	1.3	89	<0.5	2.5		218209-015
NEW-03	2/5/2010	7.11	26.26	6310	378	4.23	11	<0.5	1.4	76	<0.5	2.7		218218-003
NEW-03	8/30/2010	7.13	27.63	3593	74	2.41	6.8	<0.5	1.2	89	<0.5	3.1		222178-014
NEW-03	2/14/2011	5.72	28.01	3854	89.9		9.1	<0.5	1.1	95	<0.5	3.9	650	PGA SOUTH
NEW-03	5/7/2011	7.19	27.83	3756	14.1		9.6	<0.5	1.7	85	<0.5	3.2		PGA SOUTH
NEW-03	8/5/2011	6.87	33.41	3705	22.5		8.9	<0.5	1.2	88	<0.5	2.2	190	PGA SOUTH
NEW-03	2/7/2012	7.08	23.89	4590	163		8.5	<0.5	1.4	84	<0.5	3.9	1200	189044
NEW-03	8/10/2012						7.5	<0.5	1.1	91	<0.5	2.6		189044
NEW-03	2/7/2013				7.89		8.9	<0.5	1.3	86	<0.5	3.1	410	189044
NEW-03	8/8/2013				6		7.4	<0.5	1.3	79	<0.5	3.6	87	247818-012
NEW-04	1/30/1990							<0.2				<0.2		1745
NEW-04	3/2/1990	7.42	23.6	4410		2940	<0.2	<0.2		0.2	<0.2	<0.2		3518
NEW-04	3/21/1990	7.41	23.8	4580		3060	<0.2	<0.2		<0.2	<0.2	<0.2		3755
NEW-04	4/18/1990	7.52	22.8	4030		2690	<0.2	<0.2		<0.2	<0.2	<0.2		4665
NEW-04	5/23/1990			4090		2700	<0.2	<0.2		<0.2	<0.2	<0.2		5760
NEW-04	6/19/1990		25.6	4540		3000	<0.2	<0.2		<0.2	<0.2	<0.2		6772
NEW-04	7/17/1990	7.42	25.1	4470		2980	<0.2	<0.2		<0.2	<0.2	<0.2		7728
NEW-04	8/16/1990	7.48	26.1	4260		2840	<0.2	<0.2		<0.2	<0.2	<0.2		8644
NEW-04	9/22/1990	7.49	25.6	4310		2880	<0.2	<0.2		<0.2	<0.2	<0.2		9768
NEW-04	10/17/1990	7.45	24.8	4440		2960	<0.2	<0.2		<0.2	<0.2	<0.2		10721
NEW-04	11/24/1990	7.62	22.5	4360		2890	<0.2	<0.2		<0.2	<0.2	<0.2		11779
NEW-04	1/18/1991	7.6	22.2	4350		2900	<0.2	<0.2		<0.2	<0.2	<0.2		101748
NEW-04	3/16/1991	7.57	23.2	4380		2920	<0.2	<0.2		<0.2	<0.2	<0.2		103798
NEW-04	6/20/1991	7.62	24.5	4440		2980	<0.2	<0.2		<0.2	<0.2	<0.2		106834
NEW-04	9/22/1991	7.68	25	4310		2850	<0.2	<0.2		<0.2	<0.2	<0.2		109886
NEW-04	1/19/1992	7.62	21.4	3800		2530	<0.2	<0.2		<0.2	<0.2	<0.2		201734
NEW-04	1/20/1992	7.62	21.4	3800		2530	<0.2	<0.2		<0.2	<0.2	<0.2		20173401
NEW-04	3/26/1992	7.55	23.7	3790		2530	<0.2	<0.2		<0.2	<0.2	<0.2		203951
NEW-04	6/29/1992	7.43	25	3900		2600	<0.2	<0.2		<0.2	<0.2	<0.2		206065
NEW-04	10/9/1992	7.55	25.1	3650		2400	<0.2	<0.2		<0.2	<0.2	<0.2		210645
NEW-04	1/28/1993	7.55	24.6	3240		2170	<0.2	<0.2		<0.2	0.2	<0.2		30190702
NEW-04	1/29/1993	7.55	24.6	3240		2170	<0.2	<0.2		<0.2	<0.2	<0.2		30190704
NEW-04	3/11/1993	7.34	23.6	3730		2500	<0.2	<0.2		<0.2	<0.2	<0.2		30372409
NEW-04	6/28/1993	7.3	25.1	3700		1500	<0.2	<0.2		<0.2	<0.2	<0.2		30750002
NEW-04	10/19/1993						<0.2	<0.2		<0.2	<0.2	<0.2		31092902
NEW-04	10/20/1993	7.47	24	4000			<0.2	<0.2		<0.2	<0.2	<0.2		31092903
NEW-04	1/11/1994	7.49	23.9	3950		2620	<0.2	<0.2		<0.2	<0.2	<0.2		40166905
NEW-04	4/6/1994	7.45	24.1	3640		2430	<0.2	<0.2		<0.2	<0.2	<0.2		40467409
NEW-04	6/13/1994	7.07	23.7	3810		2550	<0.2	<0.5		<0.2	<0.2	<0.2		40672213
NEW-04	9/9/1994	7.07	23.9	3000			<0.2	<0.2		<0.2	<0.2	<0.2		40964711
NEW-04	12/7/1994	7.66	23.6	3730		2730	<0.2	<0.2		<0.2	<0.2	<0.2		9412023863
NEW-04	3/20/1995	7.51	24.6	3730		2500	< 1	< 1		< 1	< 1	< 1		9503-4288-3
NEW-04	12/28/1995	7.43	24.1	3520		2450	< 1	< 1		< 1	< 1	< 1		9512-09221-40
NEW-04	12/18/1996	7.45	23.3	3740		2490	< 1	< 1		< 1	< 1	< 1		9612-06602-1
NEW-04	12/11/1997	7.61	22.8	2500		1680	< 1	< 1		< 1	< 1	< 1		9712-08036-1
NEW-04	5/7/1998	7.54	25.4	2540		1690	< 1	< 1		< 1	< 1	< 1		9805-03178-1
NEW-04	8/27/1998	7.63	25.5	2200		1470	< 1	< 1		< 1	< 1	< 1		9808-06031-1
NEW-04	10/15/1998	7.56	24.8	2280		1520	< 1	< 1		< 1	< 1	< 1		9810-07346-2
NEW-04	2/7/1999	7.37	23.4	2440		1630	< 1	< 1		< 1	< 1	< 1		9902-01284-14
NEW-04	4/15/1999	7.54	25.2	2340		1570	< 1	< 1		< 1	< 1	< 1		9904-03550-04
NEW-04	7/28/1999	7.5	25.6	2070		1380	< 1	< 1		< 1	< 1	< 1		9907-06840-004
NEW-04	10/18/1999	7.58	24.5	2080		1390	< 1	< 1		< 1	< 1	< 1		9910-09616-004
NEW-04	1/18/2000	7.53	24.3	2080		1390	< 1	< 1		< 1	< 1	< 1		0001-00605-009
NEW-04	4/4/2000	7.47	25.2	2280		1520	< 1	< 1		< 1	< 1	< 1		0004-03089-004
NEW-04	7/21/2000	7.44	26.1	1990		1340	< 1	< 1		< 1	< 1	< 1		0007-06410-011
NEW-04	7/21/2000	7.44	26.1	1990		1340	< 1	< 1		< 1	< 1	< 1		0007-06410-010
NEW-04	10/17/2000	7.64	24.9	2030		1360	< 1	< 1		< 1	< 1	< 1		0010-09139-002
NEW-04	2/5/2001	7.44	24.3	2130		1430	< 1	< 1		< 1	< 1	< 1		0102-00985-003
NEW-04	4/19/2001	7.59	24.6	2380		1600	< 1	< 1		< 1	< 1	< 1		0104-02938-009
NEW-04	9/13/2001	7.61	25.6	1930		1290	< 1	< 1		< 1	< 1	< 1		0109-06815-001
NEW-04	11/20/2001	7.6	24.5	1910		1280	< 1	< 1		< 1	< 1	< 1		0111-08927-006
NEW-04	11/20/2001	7.6	24.5	1910		1280	< 1	< 1		< 1	< 1	< 1		0111-08927-007
NEW-04	2/5/2002	7.57	24	1900		1280	< 1	< 1		< 1	< 1	< 1		0202-01006-004

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
NEW-04	2/5/2002	7.57	24	1900		1280	< 1	< 1		< 1	< 1	< 1		0202-01006-005
NEW-04	5/22/2002	7.67	25	1840		1230	< 1	< 1		< 1	< 1	< 1		0205-04201-004
NEW-04	9/5/2002	7.52	26.4	1800		1200	< 1	< 1		< 1	< 1	< 1		0209-07468-006
NEW-04	10/17/2002	7.56	25	1790		1200	< 1	< 1		< 1	< 1	< 1		0210-08788-006
NEW-04	3/18/2003	7.51	24.5	1790		1190	< 1	< 1	< 1	< 1	< 1	< 1		030302447008
NEW-04	2/24/2004	7.63	22.2	2100		1400	< 1	< 1	< 1	< 1	< 1	< 1		040202114001
NEW-04	3/8/2005	7.52	26.6	2180		1460	< 1	< 1	< 1	< 1	< 1	< 1		05030895-05D
NEW-04	3/8/2005	7.52	26.6	2180		1460	< 1	< 1	< 1	< 1	< 1	< 1		05030895-04D
NEW-04	3/7/2006	7.29	24.9	1950		1310	< 1	< 1	< 1	< 1	< 1	< 1		06030983-01D
NEW-04	3/22/2007	7.61	23	1790		1200	< 1	< 1	< 1	< 1	< 1	< 1		07030871-06
NEW-04	3/22/2007	7.61	23	1790		1200	< 1	< 1	< 1	< 1	< 1	< 1		07030871-05
NEW-04	11/21/2008	7.35	26.91	2740		1840	<0.5	<0.5	<0.5	<0.4	<0.5	<0.5		208077-004
NEW-04	2/17/2009	7.96	23.37	3282	1000	2.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		210199-003
NEW-04	2/3/2010	7.45	24.8	6199	8.19	4.15	<0.5	<0.5	<0.5	0.2	<0.5	<0.5		218222-004
NEW-04	2/10/2011	7.24	23.56	3331	54.2		<0.5	<0.5	<0.5	0.1	<0.5	<0.5		PGA SOUTH
NEW-04	2/3/2012	7.74	24.06	2518	9.32		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		189044
NEW-04	2/8/2013				7.98		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		189044
NEW-08	6/28/1992	7.28	25.7	6350		4240	<0.2	<0.2		0.4	<0.2	<0.2		206043
NEW-08	10/9/1992	7.24	22	6950		4630	<0.2	<0.2		<0.2	<0.2	<0.2		210645
NEW-08	12/19/1992	7.24	21.5	6840		4560	<0.2	<0.2		<0.2	<0.2	<0.2		212916
NEW-08	12/20/1992	7.24	21.5	6840		4560	<0.2	<0.2		<0.2	<0.2	<0.2		21291601
NEW-08	3/16/1993	6.8	23.1	6040		4040	<0.2	<0.2		<0.2	<0.2	<0.2		30381202
NEW-08	6/28/1993	6.94	24.9	5000		1800	<0.2	<0.2		<0.2	<0.2	<0.2		30750005
NEW-08	10/7/1993	6.93	25	7600			<0.2	<0.2		<0.2	<0.2	<0.2		31063904
NEW-08	1/2/1994						<0.2	<0.2		<0.2	<0.2	<0.2		40151203
NEW-08	4/6/1994	7.16	24.6	6500		4400	<0.2	<0.2		<0.2	<0.2	<0.2		40467411
NEW-08	6/15/1994	6.73	25.5	6750		4500	<0.2	<0.5		<0.2	<0.2	<0.2		40684409
NEW-08	9/8/1994	6.73	24	5460			<0.2	<0.2		<0.2	<0.2	<0.2		40964704
NEW-08	12/28/1994	7	23.4	6200		4780	<0.2	<0.2		<0.2	<0.2	<0.2		9412027081
NEW-08	3/20/1995	6.97	24.8	6640		4430	< 1	< 1		< 1	< 1	< 1		9503-4288-4
NEW-09	6/28/1992							<0.2		<0.2	<0.2	<0.2		206043
NEW-09	10/13/1992	7.25	25.5	5990		4000	<0.2	<0.2		0.3	<0.2	<0.2		210714
NEW-09	12/19/1992	7.28	22.9	6510		4340	<0.2	<0.2		0.4	<0.2	<0.2		212916
NEW-09	12/20/1992	7.28	22.9	6510		4340	<0.2	<0.2		0.4	<0.2	<0.2		21291601
NEW-09	3/16/1993	7.2	23.8	6120		4080	<0.2	<0.2		0.6	<0.2	<0.2		30381203
NEW-09	6/29/1993	6.95	25.6	5000		1700	<0.2	<0.2		<0.2	<0.2	<0.2		30750010
NEW-09	10/7/1993	7.1	25.5	6870			<0.2	<0.2		<0.2	<0.2	<0.2		31063903
NEW-09	1/2/1994	6.85	28.9	5970			<0.2	<0.2		<0.2	<0.2	<0.2		40151205
NEW-09	4/6/1994		24.4	4950		3260	<0.2	<0.2		<0.2	<0.2	<0.2		40467412
NEW-09	6/15/1994	6.77	25.1	5720		3940	<0.2	<0.5		<0.2	<0.2	24		40684427
NEW-09	9/8/1994	6.75	< 23.8	4520			<0.2	<0.2		<0.2	<0.2	<0.2		40964705
NEW-09	12/8/1994	7.07	23.5	3130		2150	<0.2	<0.2		<0.2	<0.2	<0.2		9412023867
NEW-09	3/20/1995	7.23	24.3	5250		3490	< 1	< 1		< 1	< 1	< 1		9503-4288-5
NOR-EFF	10/26/1994						<0.2	<0.2		<0.2	<0.2	<0.2		9410015554
NOR-EFF	11/1/1994						<0.2	<0.2		<0.2	<0.2	<0.2		9410016562
NOR-EFF	11/14/1994						<0.2	<0.2		<0.2	<0.2	<0.2		9410019122
NOR-EFF	11/29/1994						<0.2	<0.2		<0.2	<0.2	<0.2		9411021072
NOR-EFF	12/13/1994						<0.2	<0.2		<0.2	<0.2	<0.2		9412023852
NOR-EFF	12/27/1994						<0.2	<0.2		<0.2	<0.2	<0.2		9412026703
NOR-EFF	1/6/1995						<0.2	<0.2		<0.2	<0.2	<0.2		9501028661
NOR-EFF	2/7/1995						<0.2	<0.2		<0.2	<0.2	<0.2		9502034731
NOR-EFF	3/8/1995						< 1	< 1		< 1	< 1	< 1		9503-4139-4
NOR-EFF	4/7/1995	7.39	27.3	1810		1210	< 1	< 1		< 1	< 1	< 1		9504-4674-4
NOR-EFF	5/16/1995	7.78	27.2	1830		1210	< 1	< 1		< 1	< 1	< 1		9505-5400-9
NOR-EFF	6/6/1995	7.4	28.1	1860		1240	< 1	< 1		< 1	< 1	< 1		9506-05740-13
NOR-EFF	7/7/1995	7.58	27.6	1880		1260	< 1	< 1		< 1	< 1	< 1		9507-06296-7
NOR-EFF	8/10/1995	7.3	27.9	1860		1250	< 1	< 1		< 1	< 1	< 1		9508-06941-18
NOR-EFF	9/8/1995	7.38	28.8	1870		1250	< 1	< 1		< 1	< 1	< 1		9509-07402-9
NOR-EFF	10/6/1995	7.36	27.5	1830		1220	< 1	< 1		3.7	< 1	< 1		9510-07900-8
NOR-EFF	11/14/1995	7.33	26.4	1830		1220	< 1	< 1		1.3	< 1	< 1		9511-08545-9
NOR-EFF	12/26/1995	7.17	23.9	1840		1280	< 1	< 1		< 1	< 1	< 1		9512-09221-12
NOR-EFF	1/16/1996	7.15	26.2	1900		1270	< 1	< 1		2.3	< 1	< 1		9601-00275-4
NOR-EFF	2/9/1996	7.08	27.4	1810		0	< 1	< 1		3	< 1	< 1		9602-00661-4
NOR-EFF	3/8/1996	7.45	27.3	1840		1230	< 1	< 1		3.3	< 1	< 1		9603-01159-6
NOR-EFF	4/9/1996	7.38	27.6	1720		1150	< 1	< 1		4	< 1	< 1		9604-01764-6
NOR-EFF	5/14/1996	7.21	27.9	1730		1160	< 1	< 1		4.1	< 1	< 1		9605-02432-6
NOR-EFF	6/26/1996	7.17	27.5	1700		1130	< 1	< 1		3.2	< 1	< 1		9606-03238-2
NOR-EFF	7/15/1996	7.28	27.9	1850		1770	< 1	< 1		6.3	< 1	< 1		9607-03554-4
NOR-EFF	8/16/1996	7.45	28.3	1750		1170	< 1	< 1		< 1	< 1	< 1		9608-04199-6
NOR-EFF	9/27/1996	6.94	27.7	1720		1150	< 1	< 1		< 1	< 1	< 1		9609-04963-25
NOR-EFF	10/4/1996	6.96	27.7	1720		1150	< 1	< 1		< 1	< 1	< 1		9610-05144-5

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
NOR-EFF	11/4/1996	7.14	27.2	1710		1170	< 1	< 1		< 1	< 1	< 1		9611-05675-6
NOR-EFF	12/10/1996	6.96	26.3	1750		1170	< 1	< 1		< 1	< 1	< 1		9612-06480-5
NOR-EFF	1/9/1997	7.01	26.6	1930		1190	< 1	< 1		< 1	< 1	< 1		9701-00271-5
NOR-EFF	2/10/1997	7.06	26.7	1740		0	< 1	< 1		< 1	< 1	< 1		9702-00937-5
NOR-EFF	4/8/1997	7.03	27	1200		800	< 1	< 1		< 1	< 1	< 1		9704-02127-5
NOR-EFF	5/9/1997	6.94	28.8	1200		800	< 1	< 1		< 1	< 1	< 1		9705-02889-4
NOR-EFF	6/10/1997	7.41	29	1170		780	< 1	< 1		< 1	< 1	< 1	<0.01	9706-03639-15
NOR-EFF	7/7/1997	7.29	29.1	1220		820	< 1	< 1		1.5	< 1	< 1		9707-04237-4
NOR-EFF	8/8/1997	7.15	28	1220		820	< 1	< 1		2.4	< 1	< 1		9708-05140-5
NOR-EFF	9/11/1997	7.03	28.2	1220		820	< 1	< 1		2.23	< 1	< 1		9709-05871-20
NOR-EFF	10/15/1997	6.65	27.3	1240		830	< 1	< 1		< 1	< 1	< 1	0.012	9710-06706-3
NOR-EFF	11/6/1997	6.97	26.8	1210		810	< 1	< 1		1.6	< 1	< 1		9711-07207-4
NOR-EFF	12/9/1997	6.9	25.4	1210		810	< 1	< 1		2.3	< 1	< 1		9712-07967-3
NOR-EFF	1/12/1998	6.96	24.5	1220		820	< 1	< 1		1.8	< 1	< 1	0.009	9801-00254-5
NOR-EFF	2/12/1998	7.05	27.2	1200		800	< 1	< 1		1.6	< 1	< 1		9802-01069-5
NOR-EFF	3/5/1998	7.4	28.7	1180		790	< 1	< 1		1.9	< 1	< 1		9803-01518-1
NOR-EFF	4/6/1998	7.13	25.9	1210		810	< 1	< 1		1.3	< 1	< 1	0.008	9804-02325-1
NOR-EFF	5/6/1998	7.17	27.8	1180		790	< 1	< 1		2.7	< 1	< 1		9805-03152-5
NOR-EFF	6/10/1998	7.22	27.9	800		1210	< 1	< 1		3	< 1	< 1		9806-03991-5
NOR-EFF	7/9/1998	7.07	28.1	1190		800	< 1	< 1		< 1	< 1	< 1		9807-04743-2
NOR-EFF	7/30/1998	7.1	27.8	1190		800	< 1	< 1		< 1	< 1	< 1		9807-05285-3
NOR-EFF	8/10/1998	7.11	29.1	1180		790	< 1	< 1		< 1	< 1	< 1	0.012	9808-05542-3
NOR-EFF	9/12/1998	7.25	28.5	1200		800	< 1	< 1		< 1	< 1	< 1		9809-06400-9
NOR-EFF	10/10/1998	7.22	27.2	1200		800	< 1	< 1		< 1	< 1	< 1	0.016	9810-07135-5
NOR-EFF	11/10/1998	7.17	23.9	1210		810	< 1	< 1		< 1	< 1	< 1		9811-08185-5
NOR-EFF	11/17/1998												0.015	9811-08434-003
NOR-EFF	12/10/1998	6.97	24	1220		820	< 1	< 1		< 1	< 1		0.015	9812-09040-005
NOR-EFF	1/7/1999	7.04	25.2	1190		800	< 1	< 1		< 1	< 1	< 1	0.013	9901-00233-05
NOR-EFF	2/11/1999	7.17	24.5	1190		800	< 1	< 1		< 1	< 1	< 1	<0.005	9902-01433-05
NOR-EFF	3/10/1999	7.03	25.4	1120		750	< 1	< 1		< 1	< 1	< 1	0.014	9903-02392-005
NOR-EFF	4/9/1999	7.15	25.6	1210		810	< 1	< 1		< 1	< 1	< 1	0.014	9904-03361-03
NOR-EFF	5/10/1999	7.18	27.9	1180		790	< 1	< 1		1.8	< 1	< 1	0.009	9905-04269-03
NOR-EFF	6/9/1999	7.16	28	1180		790	< 1	< 1		2	< 1	< 1	0.009	9906-05238-06
NOR-EFF	7/12/1999	7.1	28.2	1210		810	< 1	< 1		2.5	< 1	< 1	0.006	9907-06192-005
NOR-EFF	8/10/1999	7.06	28	1220		820	< 1	< 1		2.7	< 1	< 1	<0.005	9908-07278-005
NOR-EFF	9/13/1999	7.2	27.9	1220		810	< 1	< 1		< 1	< 1	< 1	0.042	9909-08258-003
NOR-EFF	10/8/1999	7.09	27.4	1210		810	< 1	< 1		< 1	< 1	< 1	0.027	9910-09178-005
NOR-EFF	11/10/1999	6.96	25.2	1230		820	< 1	< 1		< 1	< 1	< 1	0.019	9911-10331-002
NOR-EFF	12/8/1999	6.92	25.4	1220		810	< 1	< 1		< 1	< 1	< 1	0.016	9912-11043-002
NOR-EFF	1/10/2000	6.92	25.7	1220		820	< 1	< 1		< 1	< 1	< 1	0.014	0001-00301-004
NOR-EFF	2/8/2000	7.02	25.8	1200		800	< 1	< 1		< 1	< 1	< 1	0.011	0002-01344-004
NOR-EFF	3/7/2000	7.07	26.5	1220		820	< 1	< 1		< 1	< 1	< 1	0.013	0003-2088-004
NOR-EFF	4/11/2000	7.13	27.9	1190		790	< 1	< 1		< 1	< 1	< 1	0.012	0004-03322-005
NOR-EFF	5/10/2000	7.1	28.2	1220		820	< 1	< 1		< 1	< 1	< 1	0.011	0005-04330-001
NOR-EFF	6/9/2000	7.1	26.1	1230		820	< 1	< 1		< 1	< 1	< 1	0.011	0006-05131-004
NOR-EFF	7/10/2000	7.08	28.2	1220		810	< 1	< 1		< 1	< 1	< 1	0.014	0007-05952-006
NOR-EFF	8/11/2000	7.2	28.9	1270		850	< 1	< 1		< 1	< 1	< 1	0.011	0008-07186-007
NOR-EFF	9/11/2000	7.14	28.5	1270		840	< 1	< 1		1.2	< 1	< 1	0.012	0009-07995-006
NOR-EFF	10/10/2000	7.17	27.8	850		1270	< 1	< 1		1.2	< 1	< 1	0.013	0010-08886-006
NOR-EFF	11/15/2000	7.04	26.3	1290		860	< 1	< 1		1.2	< 1	< 1	0.013	0011-09900-005
NOR-EFF	12/8/2000	6.72	26.2	1280		850	< 1	< 1		1.3	< 1	< 1	0.01	0012-10488-006*
NOR-EFF	1/9/2001	6.98	25.3	1280		850	< 1	< 1		1.2	< 1	< 1	0.01	0101-00226-003
NOR-EFF	2/15/2001	6.9	26.1	1280		860	< 1	< 1		1.3	< 1	< 1	0.01	0102-01213-006
NOR-EFF	3/13/2001	6.91	26.4	1270		850	< 1	< 1		1.3	< 1	< 1	0.01	0103-01881-006
NOR-EFF	4/10/2001	6.86	25	1270		850	< 1	< 1		1.3	< 1	< 1	0.009	0104-02624-004
NOR-EFF	5/9/2001	7.05	28.7	1260		840	< 1	< 1		2	< 1	< 1	0.009	0105-03408-006
NOR-EFF	6/7/2001	7	28.1	1260		840	< 1	< 1		1.7	< 1	< 1	0.013	0106-04180-006
NOR-EFF	7/10/2001	6.97	28.3	1240		830	< 1	< 1		1.5	< 1	< 1	0.008	0107-04949-006
NOR-EFF	8/10/2001	7.13	28.1	1270		850	< 1	< 1		1.6	< 1	< 1	0.009	0108-05840-004
NOR-EFF	9/10/2001	7.03	27.9	1280		850	< 1	< 1		1	< 1	< 1	0.01	0109-06717-004
NOR-EFF	10/11/2001	7.06	27.4	1280		850	< 1	< 1		2.3	< 1	< 1	0.009	0110-07730-004
NOR-EFF	11/16/2001	6.61	26.9	1310		870	< 1	< 1		2	< 1	< 1	0.009	0111-08851-007
NOR-EFF	12/14/2001	6.93	24	1280		860	< 1	< 1		1.9	< 1	< 1	0.009	0112-09595-006
NOR-EFF	1/14/2002	6.95	26	1270		850	< 1	< 1		1.5	< 1	< 1	<0.005	0201-00427-002
NOR-EFF	2/12/2002	6.96	26	1270		850	< 1	< 1		1.7	< 1	< 1	0.007	0202-01294-006
NOR-EFF	3/13/2002	7.07	27.5	1280		860	< 1	< 1		1.3	< 1	< 1	0.01	0203-02102-006
NOR-EFF	4/11/2002	7.05	27.4	1210		810	< 1	< 1		1.5	< 1	< 1	0.011	0204-03063-002
NOR-EFF	5/9/2002	7.08	28.9	1220		820	< 1	< 1		1.9	< 1	< 1	0.009	0205-03823-004
NOR-EFF	6/12/2002	7.14	29.6	1220		820	< 1	< 1		1.5	< 1	< 1	0.011	0206-04893-004
NOR-EFF	7/11/2002	7.08	27.8	1160		780	< 1	< 1		1.6	< 1	< 1	0.01	0207-05800-004
NOR-EFF	8/13/2002	7.05	27.9	1220		820	< 1	< 1		2	< 1	< 1	0.009	0208-06811-002

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
NOR-EFF	9/10/2002	7.08	28.1	1220		820	< 1	< 1		1.6	< 1	< 1	0.011	0209-07587-004
NOR-EFF	10/11/2002	7.05	27.9	1230		820	< 1	< 1		2.2	< 1	< 1	0.009	0210-08611-002
NOR-EFF	11/6/2002	7.01	27.5	1220		820	< 1	< 1		1.8	< 1	< 1	0.011	0211-09350-006
NOR-EFF	12/11/2002	6.78	26.3	1230		830	< 1	< 1		1.7	< 1	< 1	0.008	0212-10571-005
NOR-EFF	1/14/2003	6.97	26.3	1230		820	< 1	< 1		1.2	< 1	< 1	<0.005	0301-00459-001
NOR-EFF	2/12/2003	6.86	25.7	1220		820	< 1	< 1		1.4	< 1	< 1	0.008	0302-01435-003
NOR-EFF	3/12/2003	7.07	27.8	1220		820	< 1	< 1	< 1	1.5	< 1	< 1	0.008	030302279010
NOR-EFF	4/11/2003	7.02	27.3	1220		820	< 1	< 1	< 1	1.5	< 1	< 1	0.008	030403290002
NOR-EFF	5/14/2003	7.01	27.5	1220		820	< 1	< 1	< 1	1.6	< 1	< 1	0.01	030504425002
NOR-EFF	6/13/2003	7.08	27.6	1160		780	< 1	< 1	< 1	1.8	< 1	< 1	0.01	030605405004
NOR-EFF	7/9/2003	7.12	27.8	1210		810	< 1	< 1	< 1	1.6	< 1	< 1	0.008	030706280002
NOR-EFF	8/15/2003	7.17	30.4	1170		790	< 1	< 1	< 1	< 1	< 1	< 1	0.008	030807651003
NOR-EFF	9/16/2003	7.18	27.9	1080		720	< 1	< 1	< 1	1.8	< 1	< 1	0.009	030908839001
NOR-EFF	10/15/2003	7.07	29.7	1170		780	< 1	< 1	< 1	1.8	< 1	< 1	0.008	031009963011
NOR-EFF	11/13/2003	7.17	26.2	1220		810	< 1	< 1	< 1	1.4	< 1	< 1	0.011	031111068002
NOR-EFF	12/10/2003	7.48	21	1330		900	< 1	< 1	< 1	1.9	< 1	< 1	0.011	031212090021
NOR-EFF	1/16/2004	7.23	24.7	1230		820	< 1	< 1	< 1	1.5	< 1	< 1	0.011	040100605003
NOR-EFF	2/11/2004	7.21	24.6	1230		820	< 1	< 1	< 1	2.2	< 1	< 1	0.01	040201599003
NOR-EFF	3/11/2004	7.17	26	1180		790	< 1	< 1	< 1	1.4	< 1	< 1	0.01	040302734001
NOR-EFF	4/16/2004	7.2	27.4	1190		800	< 1	< 1	< 1	1.5	< 1	< 1	0.01	040404165003
NOR-EFF	5/14/2004	7.17	26.4	1180		790	< 1	< 1	< 1	1.7	< 1	< 1	0.01	040505319001
NOR-EFF	6/21/2004	7.11	770	1150		29.9	< 1	< 1	< 1	1.7	< 1	< 1	0.009	040606859001
NOR-EFF	8/31/2004	7.08	28.7	1120		750	< 1	< 1	< 1	1.1	< 1	< 1	<0.005	040809988001
NOR-EFF	9/10/2004	7.01	26.1	950		630	< 1	< 1	< 1	1.2	< 1	< 1	<0.005	040910453003
NOR-EFF	10/13/2004	7.1	28.8	1110		7.4	< 1	< 1	< 1	1.7	< 1	< 1	0.01	04101076-03D
NOR-EFF	11/11/2004	7.05	25.4	1210		810	< 1	< 1	< 1	1.8	< 1	< 1	<0.01	04110939-04D
NOR-EFF	12/8/2004	7.11	24.9	1190		790	< 1	< 1	< 1	1.6	< 1	< 1	<0.01	04120828-01D
NOR-EFF	1/11/2005	6.93	21.1	1280		850	< 1	< 1	< 1	1.2	< 1	< 1	0.01	05011033-03D
NOR-INF	1/6/2006	6.95	22.8	1260		850	< 1	< 1	< 1	1.9	< 1	< 1		06010681-05D
NOR-INF	2/14/2006	6.9	26.6	1170		780	< 1	< 1	< 1	1.7	< 1	< 1		06021236-09D
NOR-INF	3/14/2006	6.99	25.3	1170		780	< 1	< 1	< 1	1.7	< 1	< 1		06031132-09D
NOR-INF	4/14/2006	7.1	27.3	1170		780	< 1	< 1	< 1	2.3	< 1	< 1		06041175-03D
NOR-INF	5/11/2006	6.92	27	1160		780	< 1	< 1	< 1	1.5	< 1	< 1		06050997-06D
NOR-INF	6/9/2006	7.02	28.5	1040		700	< 1	< 1	< 1	2	< 1	< 1		06060404-11D
NOR-INF	7/20/2006	7.38	29	1150		770	< 1	< 1	< 1	2.4	< 1	< 1		06070776-01D
NOR-INF	8/11/2006	7.12	29	1080		720	< 1	< 1	< 1	2.5	< 1	< 1		06080585-15D
NOR-INF	9/12/2006	7.29	26.7	1240		830	< 1	< 1	< 1	3.56	< 1	< 1		06090520-08D
NOR-INF	10/13/2006	7.31	26.1	1280		840	< 1	< 1	< 1	2.09	< 1	< 1		06100597-04D
NOR-INF	11/14/2006	7.26	25.6	1250		830	< 1	< 1	< 1	2.57	< 1	< 1		06110625-04D
NOR-INF	12/12/2006	7.23	25.5	1290		860	< 1	< 1	< 1	2.14	< 1	< 1		06120441-07D
PARKSH-02	12/9/1981									0.3				
PARKSH-02	9/3/1982												20	VERSAR
PARKSH-02	1/20/1988									0.8				
PHILLIPS	10/23/1984												60	ENSECO-CA
PHILLIPS	4/4/1986												14	RMAL
PHILLIPS	8/22/1986												12	RMAL
PHILLIPS	12/12/1986												34	RMAL
PHILLIPS	4/3/1987												15	RMAL
PHILLIPS	6/23/1987												19	CH2M-RD
PHILLIPS	1/22/1988												30	CH2M-RD
PHILLIPS	7/11/1991	7	25	5610		3750	<0.2	<0.2		4.4	0.3	<0.2		107690
PHILLIPS	6/22/1993		23.8				<0.2	<0.2		3.9	0.3	<0.2		30692001
PHILLIPS	8/29/1994	6.96	26	2720		4020	<0.2	<0.2		3.1	<0.2	<0.2		40808901
PHILLIPS	8/28/1995	6.98	25	5020		3480	< 1	< 1		2.7	< 1	< 1		9508-07236-1
PHILLIPS	7/24/1996	7.23	26.1	4700		3130	< 1	< 1		4.5	< 1	< 1		9607-03728-1
PLA-01	7/30/1992	7.96	27.7	2700		1800	1.8	<0.2		71	0.5	<0.2		207068
PLA-02	9/2/1982												20	VERSAR
PLA-02	10/24/1984												32	ENSECO-CA
PLA-02	4/2/1986												16	RMAL
PLA-02	8/19/1986												19	RMAL
PLA-02	12/9/1986												17	RMAL
PLA-02	3/31/1987												17	RMAL
PLA-02	6/23/1987												14	CH2M-RD
PLA-02	4/11/1988												40	CH2M-RD
PLA-02	7/28/1992	7.72	28.7	2380		1580	<0.2	<0.2		3.9	<0.2	<0.2		207067
PLA-03NEW	12/9/1981									116				
PLA-03NEW	3/17/1982									576.9				
PLA-03NEW	4/20/1982									461				
PLA-03NEW	9/2/1982									1000			20	VERSAR
PLA-03NEW	5/9/1984									200				
PLA-03NEW	5/10/1984									200				

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
PLA-03NEW	10/24/1984									310			48	ENSECO-CA
PLA-03NEW	4/4/1985									390				
PLA-03NEW	4/2/1986									290			21	RMAL
PLA-03NEW	4/3/1986									290				RMAL
PLA-03NEW	8/19/1986									220			18	RMAL
PLA-03NEW	8/20/1986									230				RMAL
PLA-03NEW	12/9/1986									96			43	RMAL
PLA-03NEW	12/10/1986									130				ACOE-MRDI
PLA-03NEW	3/30/1987									243				RMAL
PLA-03NEW	3/31/1987									246			17	RMAL
PLA-03NEW	10/8/1987									49				
PLA-03NEW	10/12/1987									310				
PLA-03NEW	1/20/1988									200				
PLA-03NEW	4/11/1988												20	CH2M-RD
PLA-03NEW	7/29/1992	7.82	28.4	2980		1990	1.1	<0.2		130	1.1	<0.2		207068
PLA-03OLD	7/28/1992	9.12	29.3	1770		1180	<0.2	<0.2		<0.2	<0.2	<0.2		207067
PLA-04	9/2/1982									1.4			30	VERSAR
PLA-04	4/17/1984									0.1				
PLA-04	10/25/1984												17	ENSECO-CA
PMW-03	8/12/1992									<0.2				
PMW-03	11/14/2001						1.2	< 1		73.5	< 1	< 1		0111-08779-003
PMW-03	1/29/2002						1.7	< 1		70.1	< 1	< 1		0201-00832-002
PMW-03	2/27/2002						< 1	< 1		87	< 1	< 1		0202-01675-002
PMW-03	4/1/2002													PMW-03 12
PMW-03	5/1/2002						< 1.5	< 1.5		62.7	< 1.5	< 1.5		0205-03556-002
PMW-03	7/9/2002						< 1	< 1		51.6	< 1	< 1		0207-05749-002
PMW-03	10/1/2002						< 1	< 1		51.8	< 1	< 1		0210-08278-002
PMW-03	1/10/2003						< 1	< 1		67.5	< 1	< 1		0301-00304-002
PMW-08	8/12/1992									< 530				
PMW-08	3/31/1998													
PMW-08	9/17/1998													
PMW-08	3/19/1999													
PMW-08	10/13/1999													
PMW-08	3/29/2000									317		<0.5		
PMW-08	9/28/2000													
PMW-08	3/20/2001									230		1.8		
PMW-08	4/1/2002									110		12		PMW-08 12
PMW-08	4/15/2002													73594-1
PMW-08	1/21/2003									94				
PMW-08	1/8/2004									140				
PMW-08	8/4/2004													0400747-002
PMW-08	2/3/2005													73594-2
PMW-08	2/3/2005									170				
PMW-08	1/24/2006									110				
PMW-08	1/26/2006									110				
PMW-08	1/24/2007									45				
PMW-08	1/24/2008									38				BEM-1Q08
PMW-08	1/24/2008									34		0.99		08010467-07
PMW-08	1/24/2008									38		1.2		08010467-02
PMW-08	1/28/2009									54				
PMW-08	1/28/2009									54		4.2		PSA1393-02
PMW-08	1/20/2011									33.7		4.17		189044
PMW-08	1/15/2013									37				189044
PMW-13	12/27/1991									2.1				
PMW-13	8/12/1992									<0.2				
PMW-13	3/30/1993									3.3				
PMW-13	6/3/1993									31				
PMW-13	8/30/1993									5.9				
PMW-13	12/15/1993									23				
PMW-13	3/23/1994									25				
PMW-13	6/13/1994									25				
PMW-13	9/27/1994									22				
PMW-13	12/20/1994									15				
PMW-13	3/8/1995									9.7				
PMW-13	6/14/1995									7.5				
PMW-13	9/27/1995									5				
PMW-13	12/15/1995									3.4				
PMW-13	3/22/1996									1.5				
PMW-13	6/25/1996									4.6				
PMW-13	9/19/1996									1.8				
PMW-13	3/27/1997									0.89				

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
PMW-13	8/27/1997									1.6				
PMW-13	3/31/1998									14				
PMW-13	1/14/1999	6.89	28.1	7180		4850							< 5	9901-00503-01
PMW-13	3/17/1999									1.2				
PMW-13	10/13/1999													
PMW-13	3/29/2000											< 1		
PMW-13	9/28/2000													
PMW-13	11/14/2001						< 1	< 1		2.1	< 1	< 1		0111-08779-001
PMW-13	1/29/2002						< 1	< 1		2.8	< 1	< 1		0201-00832-001
PMW-13	2/27/2002						< 1	< 1		2.4	< 1	< 1		0202-01675-001
PMW-13	4/1/2002													PMW-13 12
PMW-13	5/1/2002						< 1	< 1		< 1	< 1	< 1		0205-03556-001
PMW-13	7/9/2002						< 1	< 1		1	< 1	< 1		0207-05749-001
PMW-13	10/1/2002						< 1	< 1		2.4	< 1	< 1		0210-08278-001
PMW-13	1/10/2003						< 1	< 1		3.8	< 1	< 1		0301-00304-001
PMW-13	8/2/2004													0400747-003
PMW-13	2/3/2005									1.2				
PMW-13	1/23/2008													08010444-04
PMW-13	1/27/2009													PSA1309-01
PMW-13	1/19/2011													189044
PMW-13	5/9/2012	6.83	34.26	4831	1.25		<0.5	<0.5	<0.5	1.8	<0.5	<0.5	11	189044
PMW-14	12/27/1991									12				
PMW-14	2/18/1992									1				
PMW-14	5/20/1992									100				
PMW-14	8/12/1992									7				
PMW-14	12/14/1992									66				
PMW-14	3/30/1993									14				
PMW-14	4/2/1998													
PMW-14	11/14/2001						1.2	< 1		89.9	< 1	< 1		0111-08779-002
PMW-14	1/29/2002						1.6	< 1		73.4	< 1	< 1		0201-00832-003
PMW-14	2/27/2002						< 1	< 1		81	< 1	< 1		0202-01675-003
PMW-14	4/1/2002													PMW-14 12
PMW-14	5/1/2002						< 1.5	< 1.5		55.7	< 1.5	< 1.5		0205-03556-003
PMW-14	7/10/2002						< 1	< 1		63.3	< 1	< 1		0207-05749-003
PMW-14	10/2/2002						< 1	< 1		72.1	< 1	< 1		0210-08278-004
PMW-14	1/10/2003						< 1	< 1		63.6	< 1	< 1		0301-00304-003
PMW-15	12/27/1991									25				
PMW-15	5/20/1992									98				
PMW-15	8/12/1992									100				
PMW-15	12/14/1992									160				
PMW-15	3/30/1993									130				
PMW-15	6/3/1993									120				
PMW-15	8/30/1993									210				
PMW-15	12/15/1993									210				
PMW-15	3/23/1994									180				
PMW-15	3/27/1997									420				
PMW-15	8/26/1997									260				
PMW-15	3/31/1998									600				
PMW-15	11/5/1998												236	9811-08032-5
PMW-15	3/19/1999									380		< 5		
PMW-15	3/29/2000									237		< 1		
PMW-15	3/20/2001									163		1.9		
PMW-15	11/14/2001						4.2	< 1		203	< 1	< 1		0111-08779-005
PMW-15	1/29/2002						2.4	< 1		190	< 1	< 1		0201-00832-005
PMW-15	2/27/2002						2.8	< 1		210	< 1	< 1		0202-01675-005
PMW-15	4/1/2002									150		0.75		PMW-15 12
PMW-15	5/1/2002						4	< 1		164	< 1	< 1		0205-03556-005
PMW-15	7/10/2002						2.6	< 1		133	< 1	< 1		0207-05749-005
PMW-15	7/29/2002						2.8	< 1		133	< 1	< 1		0207-06299-002
PMW-15	8/16/2002						1.3	< 1		134	< 1	< 1		0208-06945-002
PMW-15	9/18/2002						1.8	< 1		166	< 1	< 1		0209-07897-014
PMW-15	10/2/2002						< 1	< 1		150	< 1	< 1		0210-08278-005
PMW-15	11/20/2002						1.8	< 1		247	< 1	< 1		0211-09862-002
PMW-15	12/16/2002						1.6	< 1		222	< 1	< 1		0212-10672-002
PMW-15	1/10/2003						< 1	< 1		194	< 1	< 1		0301-00304-005
PMW-15	1/22/2003									130				
PMW-15	1/8/2004									32				
PMW-15	8/3/2004													0400747-004
PMW-15	2/2/2005									52				
PMW-15	1/26/2006									43				
PMW-15	1/25/2007									74				

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
PMW-15	1/24/2008									65				BEM-1Q08
PMW-15	1/24/2008									65		<0.5		08010467-01
PMW-15	1/28/2009									50				
PMW-15	1/28/2009									50		< 2		PSA1393-01
PMW-15	1/19/2011									104		1		189044
PMW-15	1/15/2013									97				189044
PMW-16	2/18/1992									33				
PMW-16	5/20/1992									120				
PMW-16	8/12/1992									75				
PMW-16	12/14/1992									57.6				
PMW-16	3/30/1993									100				
PMW-16	6/3/1993									180				
PMW-16	8/30/1993									48				
PMW-16	12/15/1993									190				
PMW-16	6/14/1994									120				
PMW-16	9/27/1994									380				
PMW-16	12/20/1994									200				
PMW-16	3/8/1995									520				
PMW-16	6/14/1995									520				
PMW-16	9/27/1995									600				
PMW-16	12/15/1995									700				
PMW-16	3/22/1996									700				
PMW-16	6/25/1996									840				
PMW-16	9/19/1996									640				
PMW-16	1/14/1999	7.13	27.5	3350		2250							439	9901-00503-02
PMW-16	3/17/1999									140		< 3		
PMW-16	4/6/2000	7.01	27.7	3280		2190							340	0004-03196-013
PMW-16	3/20/2001									145		<0.5		
PMW-16	11/14/2001						1.9	< 1		123	< 1	< 1		0111-08779-004
PMW-16	1/29/2002						1.9	< 1		112	< 1	< 1		0201-00832-004
PMW-16	2/27/2002						< 1	< 1		130	< 1	< 1		0202-01675-004
PMW-16	4/1/2002									34		0.51		PMW-16 12
PMW-16	5/1/2002						< 1	< 1		106	< 1	< 1		0205-03556-004
PMW-16	7/10/2002						< 1	< 1		77.4	< 1	< 1		0207-05749-004
PMW-16	7/29/2002						< 1	< 1		91.5	< 1	< 1		0207-06299-001
PMW-16	8/16/2002						< 1	< 1		93.6	< 1	< 1		0208-06945-001
PMW-16	9/18/2002						< 1	< 1		115	< 1	< 1		0209-07897-015
PMW-16	10/1/2002						< 1	< 1		108	< 1	< 1		0210-08278-003
PMW-16	11/20/2002						< 1	< 1		150	< 1	< 1		0211-09862-001
PMW-16	12/16/2002						< 1	< 1		131	< 1	< 1		0212-10672-001
PMW-16	1/10/2003						< 1	< 1		90.4	< 1	< 1		0301-00304-004
PMW-16	1/21/2003									72				
PMW-16	3/28/2003	7.01	26.7	2580		1680	< 1	< 1	< 1	85	< 1	< 1		030302776008
PMW-16	1/8/2004									43				
PMW-16	3/8/2004	7.12	27.3	2140		1430	< 1	< 1	< 1	38	< 1	< 1		040302676002
PMW-16	8/2/2004													0400747-005
PMW-16	2/1/2005									22				
PMW-16	3/18/2005	7.18	26	2030		1360	< 1	< 1	< 1	28	< 1	< 1		05031440-02D
PMW-16	1/24/2006									18				
PMW-16	1/26/2006									18				
PMW-16	3/23/2006	7.01	26.6	1940		1300	< 1	< 1	< 1	18	< 1	< 1		06031725-17D
PMW-16	1/23/2007									12				
PMW-16	3/27/2007	7.18	25.1	2190		1470	< 1	< 1	< 1	13.05	< 1	< 1		07030871-26
PMW-16	1/22/2008									6.6		<0.5		08010428-01
PMW-16	1/22/2008									6.6				BEM-1Q08
PMW-16	1/28/2009									5				
PMW-16	1/28/2009									5.3		< 2		PSA1393-03
PMW-16	1/19/2011									3.5		1		189044
PMW-16	1/15/2013									5.2				189044
PMW-17	3/20/2001									<0.5		<0.5		
PMW-17	4/1/2002									<0.5		<0.5		PMW-17 12
PMW-17	1/21/2003									<0.5				
PMW-17	8/3/2004													0400747-006
PMW-17	2/1/2005									<0.18				
PMW-17	1/24/2006									<0.5				
PMW-17	1/26/2006									<0.5				
PMW-17	1/23/2007									<0.5				
PMW-17	1/22/2008									<0.5				BEM-1Q08
PMW-17	1/23/2008									<0.5		<0.5		08010444-06
PMW-17	1/27/2009									< 1				
PMW-17	1/27/2009									< 2		< 2		PSA1309-02

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
PMW-17	1/20/2011									<1		<1		189044
PMW-17	1/15/2013									<0.5				189044
PSA-01	1/3/1991	7.62	22.3	810		504	<0.2	<0.02		<0.2	<0.02	<0.02		101531
RECMET-02	6/7/1983												14	ATL
RECMET-02	10/24/1984												42	ENSECO-CA
RECMET-02	4/4/1986												11	RMAL
RECMET-02	8/22/1986												10	RMAL
RECMET-02	10/2/1987												20	CH2M-RD
RECMET-02	1/2/1991	7	23.4	5760		4010	<0.2	<0.2		3.8	<0.2	<0.2		101531
RECMET-02	7/12/1991	7.37	26.6	6310		4200	<0.2	<0.2		2.3	0.4	<0.2		107690
RECMET-02	2/3/1992	7.15	24.4	5100		3400	<0.2	<0.2		3.8	0.5	<0.2		202510
RECMET-02	1/27/1993	7.2	23.5	4810		3210	<0.2	<0.2		3.8	0.9	<0.2		30194314
RECMET-02	6/17/1993	7.13	26.7	4000		1450	<0.2	<0.2		5.3	<0.2	<0.2		30689319
RECMET-02	4/1/1994	7.26	27.5	4320		2860	<0.2	<0.2		3.5	<0.2	<0.2		40452613
RECMET-02	7/13/1994	7.14	27.5	4330		2850	<0.2	<0.5		4.2	0.4	<0.2		40776008
RECMET-02	1/30/1995	7.1	22.2	5180										9501032594
RECMET-02	3/3/1995						< 1	< 1		6.9	< 1	< 1		9502-4002-
SB-06LC	8/3/1993						<0.2	<0.2		23	<0.2	<0.2		30853101
SB-06LC	9/24/1993						<0.2	<0.2		54	<0.2	<0.2		30998504
SB-06LC	6/29/1995	8	28.2	1720		1150	< 1	< 1		17.1	< 1	< 1		9507-06188-9
SB-06LC	6/29/1995	8	28.2	1720		1150	< 1	< 1		15.1	< 1	< 1		9507-06188-8
SB-06LC	9/26/1995	7.76	28.3	1970		1320	< 1	< 1		18	< 1	< 1		9509-07704-10
SB-06LC	12/29/1995	7.51	26.6	2010		1340	< 1	< 1		14.1	< 1	< 1		9601-00016-3
SB-06LC	12/22/1996	8	26.4	1860		1250	< 1	< 1		7.8	< 1	< 1		9612-06641-6
SB-06LC	12/17/1997	7.54	26.1	1530		1020	< 1	< 1		9.9	< 1	< 1		9712-08132-16
SB-06LC	5/28/1998	7.28	27.7	1530		1020	< 1	< 1		50.5	< 1	< 1		9805-03669-7
SB-06LC	2/6/1999	7.38	26.6	1470		980	< 1	< 1		56.2	< 1	< 1		9902-01284-01
SB-06LC	2/2/2000	7.24	27.7	1290		860	< 1	< 1		12.9	< 1	< 1		0002-01108-001
SB-06LC	2/27/2001	7.47	26.8	1460		980	< 1	< 1		38	< 1	< 1		0102-01473-012
SB-06LC	2/16/2002	7.5	27.2	1400		940	< 1	< 1		19	< 1	< 1		0202-01372-004
SB-06LC	3/27/2003	7.19	26.7	1420		950	< 1	< 1	< 1	28.2	< 1	< 1		030302776017
SB-06LC	3/4/2004	7.59	23.6	1570		1050	0.51	< 1	0.5	55	< 1	< 1		040302470009
SB-06LC	3/15/2005	7.54	25.3	1340		900	< 1	< 1	< 1	< 1	< 1	< 1		05031240-05D
SB-06LC	3/24/2006	7.23	26.4	1270		850	< 1	< 1	< 1	2.6	< 1	< 1		06031725-11D
SB-06LC	3/24/2006	7.23	26.4	1270		850	< 1	< 1	< 1	2.6	< 1	< 1		06031725-13D
SB-06LC	3/28/2007	7.39	25.7	1200		810	< 1	< 1	< 1	2.22	< 1	< 1		07030871-29
SB-06LC	1/11/2008	7.67	27.29	1899		1270	<0.5	<0.5	<0.5	1.6	<0.5	<0.5		200517-013
SB-06LC	1/11/2008	7.67	27.29	1899		1270	<0.5	<0.5	<0.5	1.6	<0.5	<0.5		200517-014
SB-06LC	2/19/2009	7.28	26.76	1943	1.77	1.28	<0.5	<0.5	<0.5	1.4	<0.5	<0.5		210249-011
SB-06LC	6/23/2010	7.44	27.77	1709	2.7	1.14503	<0.5	<0.5	<0.5	0.9	<0.5	<0.5		220933-009
SB-06LC	12/4/2010						<0.5	<0.5	<0.5	1.2	<0.5	<0.5		224639-009
SB-06LC	12/4/2010						<0.5	<0.5	<0.5	1.2	<0.5	<0.5		PGA SOUTH
SB-06LC	2/12/2011	7.17	7.17	2008	1.2		<0.5	<0.5	<0.5	0.7	<0.5	<0.5		PGA SOUTH
SB-06LC	8/4/2011	5.46	29.34	2087	0.42		<0.5	<0.5	<0.5	0.5	<0.5	<0.5		PGA SOUTH
SB-06LC	2/21/2012	7.46	25.69	2266	1.49		<0.5	<0.5	<0.5	0.6	<0.5	<0.5		189044
SB-06LC	8/10/2012	7.12	27.23	1643	1.31		<0.5	<0.5	<0.5	0.5	<0.5	<0.5		189044
SB-06LC	2/8/2013				16.7		<0.5	<0.5	<0.5	0.2	<0.5	<0.5		189044
SB-06LC	8/9/2013				16.3		<0.5	<0.5	<0.5	0.3 J	<0.5	<0.5		247902-017
SB-06UC	8/16/1993						<0.2	<0.2		< 70	<0.2	<0.2		30876801
SB-06UC	8/16/1993						<0.2	<0.2		<0.2	<0.2	<0.2		30876802
SB-06UC	9/24/1993						<0.2	<0.2		48	<0.2	<0.2		30998501
SB-06UC	6/29/1995	7.46	27.3	2410		1620	< 1	< 1		38.8	< 1	< 1		9507-06188-10
SB-06UC	6/29/1995	7.46	27.3	2410		1620	< 1	< 1		37	< 1	< 1		9507-06188-11
SB-06UC	9/26/1995	7.24	28	2390		1630	< 1	< 1		44.3	< 1	< 1		9509-07704-11
SB-06UC	12/29/1995	7.1	26.1	2350		1570	< 1	< 1		25.8	< 1	< 1		9601-00016-4
SB-06UC	12/29/1995	7.1	26.1	2350		1570	< 1	< 1		26.1	< 1	< 1		9601-00016-5
SB-06UC	12/22/1996	7.25	25.2	2290		1540	< 1	< 1		14	< 1	< 1		9612-06641-8
SB-06UC	12/17/1997	7.21	25.4	1590		1070	< 1	< 1		9	< 1	< 1		9712-08132-17
SB-06UC	5/28/1998	7.18	27.8	1570		1060	< 1	< 1		12.7	< 1	< 1		9805-03669-5
SB-06UC	5/28/1998	7.18	27.8	1570		1060	< 1	< 1		12.6	< 1	< 1		9805-03669-6
SB-06UC	2/6/1999	7.16	25.7	1550		1030	< 1	< 1		22.1	< 1	< 1		9902-01284-05
SB-06UC	2/2/2000	7.19	26.4	1480		990	1	< 1		47.3	< 1	< 1		0002-01108-003
SB-06UC	2/27/2001	7.25	26.6	1660		1110	< 1	< 1		38.3	< 1	< 1		0102-01473-013
SB-06UC	2/18/2002	7.06	26.4	1630		1090	< 1	< 1		23	< 1	< 1		0202-01412-003
SB-06UC	3/27/2003	7.13	26.3	1550		1040	< 1	< 1	< 1	6.6	< 1	< 1		030302776018
SB-06UC	3/5/2004	7.31	23.4	1580		1060	< 1	< 1	< 1	< 1	< 1	< 1		040302470011
SB-06UC	3/16/2005	7.27	25.6	1450		970	< 1	< 1	< 1	15	< 1	< 1		05031240-07D
SB-06UC	3/27/2006	7.3	27.1	1260		840	< 1	< 1	< 1	1.1	< 1	< 1		06031725-23D
SB-06UC	3/28/2007	7.36	23.7	1530		1030	< 1	< 1	< 1	1.81	< 1	< 1		07030871-30
SB-06UC	1/10/2008	7.65	26.15	2433		1630	<0.5	<0.5	<0.5	2.1	<0.5	<0.5		200517-004

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
SB-06UC	2/20/2009	7.53	25.69	2847	24.1	1.85	<0.5	<0.5	<0.5	4.3	<0.5	<0.5		210249-021
SB-06UC	2/5/2010	7.4	26.54	4296	3.73	2.88								218209-011
SB-06UC	2/6/2010						<0.5	<0.5	<0.5	3	<0.5	<0.5		218209-011
SB-06UC	12/6/2010						<0.5	<0.5	<0.5	3.5	<0.5	<0.5		PGA SOUTH
SB-06UC	12/6/2010						<0.5	<0.5	<0.5	3.5	<0.5	<0.5		224639-026
SB-06UC	2/13/2011	7.53	26.08	2299	13		<0.5	<0.5	<0.5	3.6	<0.5	<0.5		PGA SOUTH
SB-06UC	8/4/2011	7.89	31.74	2968	30.6		<0.5	<0.5	<0.5	8.5	<0.5	<0.5		PGA SOUTH
SB-06UC	2/8/2012	8.76	24.22	2440	75.3		<0.5	<0.5	<0.5	4	<0.5	<0.5		189044
SB-06UC	8/10/2012	8.05	29.8	2065	41.3		<0.5	<0.5	<0.5	6.9	<0.5	<0.5		189044
SB-06UC	2/8/2013				31.9		<0.5	<0.5	<0.5	2.6	<0.5	<0.5		189044
SB-06UC	8/9/2013				63.1		<0.5	<0.5	<0.5	4.2	<0.5	<0.5		247902-018
SB-07LC	8/16/1993						<0.2	<0.2		<0.2	<0.2	<0.2		30876804
SB-07LC	8/16/1993						<0.2	<0.2		1.4	<0.2	<0.2		30876803
SB-07LC	9/25/1993						<0.2	<0.2		0.3	<0.2	<0.2		30998901
SB-07LC	6/30/1995	8	27.7	2000		1340	< 1	< 1		44.1	< 1	< 1		9507-06189-1
SB-07LC	9/26/1995	8.1	27.7	1920		1280	< 1	< 1		45.5	< 1	< 1		9509-07704-12
SB-07LC	12/29/1995	7.63	25.8	2010		1270	< 1	< 1		44.5	< 1	< 1		9601-00016-7
SB-07LC	3/25/1996	8	26.3	1910		1270	< 1	< 1		43.8	< 1	< 1		9603-01474-9
SB-07LC	3/25/1996	8	26.3	1910		1270	< 1	< 1		43.1	< 1	< 1		9603-01474-5
SB-07LC	6/18/1996	7.57	29.6	1880		1260	< 1	< 1		28.1	< 1	< 1		9606-03052-13
SB-07LC	6/18/1996	7.57	29.6	1880		1260	< 1	< 1		28.5	< 1	< 1		9606-03052-12
SB-07LC	9/23/1996	7.94	28.4	1940		1300	< 1	< 1		17.9	< 1	< 1		9609-04903-5
SB-07LC	12/22/1996	7.88	26	2010		1340	< 1	< 1		12.8	< 1	< 1		9612-06641-7
SB-07LC	2/25/1997	7.65	26.7	2020			< 1	< 1		10.6	< 1	< 1		9702-01250-10
SB-07LC	6/12/1997	7.89	28.2	1440		970	< 1	< 1		6.7	< 1	< 1		9706-03666-2
SB-07LC	9/22/1997	7.77	27.5	1450		970	< 1	< 1		6	< 1	< 1		9709-06208-2
SB-07LC	12/17/1997	7.66	26.5	1360		920	< 1	< 1		4.3	< 1	< 1		9712-08132-18
SB-07LC	2/23/1998	7.66	27.6	1340		900	< 1	< 1		3.3	< 1	< 1		9802-01284-4
SB-07LC	9/13/1998	8.02	28	1340		900	< 1	< 1		< 1	< 1	< 1		9809-06400-13
SB-07LC	2/4/1999	7.65	26.3	1250		840	< 1	< 1			< 1	< 1		9902-01193-02
SB-07LC	2/4/1999									10.7				9902-01193-07
SB-07LC	2/4/1999	7.65	26.3	1250		840	< 1	< 1		11	< 1	< 1		9902-01193-04
SB-07LC	7/31/1999	8.08	27.7	1230		810	< 1	< 1		2.4	< 1	< 1		9908-06887-015
SB-07LC	7/31/1999	8.08	27.7	1230		810	< 1	< 1		2.3	< 1	< 1		9908-06887-016
SB-07LC	2/2/2000	7.49	27.3	1210		810	< 1	< 1		3	< 1	< 1		0002-01108-002
SB-07LC	7/25/2000	7.79	27.9	1320		880	< 1	< 1		1.7	< 1	< 1		0007-06500-009
SB-07LC	2/20/2001	7.63	26.9	1350		900	< 1	< 1		1.5	< 1	< 1		0102-01314-013
SB-07LC	9/27/2001	8.05	28.1	1370		930	< 1	< 1		1.3	< 1	< 1		0109-07260-004
SB-07LC	9/27/2001	8.05	28.1	1370		930	< 1	< 1		1.3	< 1	< 1		0109-07260-005
SB-07LC	2/7/2002	7.56	26.5	1330		890	< 1	< 1		1	< 1	< 1		0202-01152-008
SB-07LC	9/12/2002	8.17	28.2	1350		900	< 1	< 1		< 1	< 1	< 1		0209-07700-004
SB-07LC	3/20/2003	7.5	27.5	1330		890	< 1	< 1	< 1	< 1	< 1	< 1		030302542010
SB-07LC	2/26/2004	8.09	25.2	1330		890	< 1	< 1	< 1	< 1	< 1	< 1		040202165007
SB-07LC	3/15/2005	8	25.6	1260		840	< 1	< 1	< 1	< 1	< 1	< 1		05031240-03D
SB-07LC	3/15/2005	8	25.6	1260		840	< 1	< 1	< 1	< 1	< 1	< 1		05031240-04D
SB-07LC	3/24/2006	7.93	28	1300		850	< 1	< 1	< 1	< 1	< 1	< 1		06031725-12D
SB-07LC	3/28/2007	7.75	24.6	1660		1100	< 1	< 1	< 1	< 1	< 1	< 1		07030871-31
SB-07LC	3/28/2007	7.75	24.6	1660		1100	< 1	< 1	< 1	< 1	< 1	< 1		07030871-32
SB-07LC	7/31/2008		27.97	2112		1373	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		205025-005
SB-07LC	2/16/2009	7.88	28.44	2152	13.9	1.44	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		210199-002
SB-07LC	2/1/2010	7.96	26.98	1974	2.77	1.32	<0.5	<0.5	<0.5	0.2	<0.5	<0.5		218222-003
SB-07LC	2/9/2011	7.39	27.81	2029	10.5		<0.5	<0.5	<0.5	0.3	<0.5	<0.5		PGA SOUTH
SB-07UC	8/18/1993						<0.2	<0.2		6.1	<0.2	0.2		30880001
SB-07UC	8/18/1993						<0.2	<0.2		<0.2	<0.2	<0.2		30880002
SB-07UC	9/25/1993						<0.2	<0.2		21	<0.2	<0.2		30998904
SB-07UC	6/29/1995	7.46	26.8	2370		1590	< 1	< 1		27.5	< 1	< 1		9507-06188-12
SB-07UC	9/27/1995	7.4	27.1	2400		1740	< 1	< 1		35.2	< 1	< 1		9509-07736-2
SB-07UC	12/29/1995	7.21	25.4	2150		1660	< 1	< 1		25.4	< 1	< 1		9601-00016-6
SB-07UC	3/25/1996	7.24	25.6	2290		1530	< 1	< 1		29.2	< 1	< 1		9603-01474-4
SB-07UC	6/18/1996	7.22	28.3	2320		1550	< 1	< 1		33.5	< 1	< 1		9606-03052-11
SB-07UC	6/18/1996	7.22	28.3	2320		1550	< 1	< 1		36.5	< 1	< 1		9606-03052-10
SB-07UC	9/23/1996	7.15	28	2240		1510	< 1	< 1		27.9	< 1	< 1		9609-04903-4
SB-07UC	12/22/1996	7.21	24.9	2270		1530	< 1	< 1		33	< 1	< 1		9612-06641-9
SB-07UC	2/25/1997	7.26	26.3	2270			< 1	< 1		40.6	< 1	< 1		9702-01250-11
SB-07UC	6/12/1997	7.41	27.4	1650		1100	< 1	< 1		23	< 1	< 1		9706-03666-1
SB-07UC	9/22/1997	7.29	26.8	1730		1160	< 1	< 1		14.3	< 1	< 1		9709-06208-3
SB-07UC	12/18/1997	7.25	25.8	1640		1100	< 1	< 1		17.4	< 1	< 1		9712-08185-1
SB-07UC	2/23/1998	7.19	26.2	1610		1080	< 1	< 1		23.3	< 1	< 1		9802-01284-5
SB-07UC	9/13/1998	7.35	27.8	1520		1010	< 1	< 1		10.3	< 1	< 1		9809-06400-14
SB-07UC	9/13/1998	7.35	27.8	1520		1010	< 1	< 1		9.8	< 1	< 1		9809-06400-15
SB-07UC	2/4/1999	7.12	25.5	1460		980	< 1	< 1		1.2	< 1	< 1		9902-01193-03

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
SB-07UC	2/4/1999	7.12	25.5	1460		980	< 1	< 1		1.2	< 1	< 1		9902-01193-07
SB-07UC	7/29/1999	7.4	27.9	1430		960	< 1	< 1		9	< 1	< 1		9907-06851-001
SB-07UC	2/2/2000	7.19	26.2	1380		920	< 1	< 1		6.5	< 1	< 1		0002-01108-004
SB-07UC	7/29/2000	7.4	27.5	1430		960	< 1	< 1		4.9	< 1	< 1		0007-06667-011
SB-07UC	2/27/2001	7.32	26.5	1480		990	< 1	< 1		4.8	< 1	< 1		0102-01473-014
SB-07UC	2/27/2001	7.32	26.5	1480		990	< 1	< 1		16.9	< 1	< 1		0102-01473-015
SB-07UC	9/28/2001	7.46	27.3	1680		1120	< 1	< 1		2	< 1	< 1		0110-07277-004
SB-07UC	2/16/2002	7.33	27.1	1500		1000	< 1	< 1		3.2	< 1	< 1		0202-01372-006
SB-07UC	2/16/2002	7.33	27.1	1500		1000	< 1	< 1		3.2	< 1	< 1		0202-01372-007
SB-07UC	9/17/2002	7.56	28.2	1630		1090								0209-07897-001
SB-07UC	9/18/2002						< 1	< 1		< 1	< 1	< 1		0209-07897-001
SB-07UC	3/27/2003	7.3	27.6	1480		990	< 1	< 1	< 1	1	< 1	< 1		030302776019
SB-07UC	9/24/2003	7.52	25.5	1370		920	< 1	< 1	< 1	< 1	< 1	< 1		030909106019
SB-07UC	3/5/2004	7.52	24	1430		960	< 1	< 1	< 1	0.6	< 1	< 1		040302470012
SB-07UC	9/28/2004	7.33	27.9	1350		910	< 2	< 2	< 2	< 2	< 2	< 2		040911253009
SB-07UC	9/28/2004	7.33	27.9	1350		910	< 2	< 2	< 2	< 2	< 2	< 2		040911253010
SB-07UC	3/16/2005	7.45	23.7	1490		1000	< 1	< 1	< 1	< 1	< 1	< 1		05031240-08D
SB-07UC	9/30/2005	7.42	29.2	1080		730	< 1	< 1	< 1	< 1	< 1	< 1		05100435-01D
SB-07UC	3/24/2006	7.4	27.4	1270		850	< 1	< 1	< 1	< 1	< 1	< 1		06031725-14D
SB-07UC	3/24/2006	7.4	27.4	1270		850	< 1	< 1	< 1	< 1	< 1	< 1		06031725-15D
SB-07UC	9/20/2006	8.32	27.9	1470		970	< 1	< 1	< 1	< 1	< 1	< 1		06090740-16D
SB-07UC	3/28/2007	8.53	24.2	2590		1730	< 1	< 1	< 1	1.04	< 1	< 1		07030871-33
SB-07UC	9/27/2007	8.79	27.3	2670		1810	< 1	< 1	< 1	3.51	< 1	< 1		07091009-16D
SB-07UC	8/28/2009	11.89	32.3	6187	163	4.15								214574-009
SB-07UC	8/29/2009						<0.5	<0.5	<0.5	0.2	<0.5	<0.5		214574-009
SB-07UC	2/1/2010	12.34	24.27	6238	217	4.18	<0.5	<0.5	<0.5	0.3	<0.5	<0.5		218171-005
SB-07UC	8/5/2011	11.34	31.68	4112	162		<0.5	<0.5	<0.5	0.3	<0.5	<0.5		PGA SOUTH
SB-08LC	9/23/1993						<0.2	<0.2		0.5	<0.2	<0.2		30996002
SB-08LC	9/23/1993						<0.2	<0.2		<0.2	<0.2	<0.2		30996001
SB-08LC	10/6/1993						<0.2	<0.2		20	<0.2	<0.2		31060401
SB-08LC	6/30/1995	7.72	27.2	1510		1010	< 1	< 1		2.8	< 1	< 1		9507-06189-3
SB-08LC	9/27/1995	7.62	28	1160		760	< 1	< 1		3.5	< 1	< 1		9509-07736-3
SB-08LC	12/29/1995	7.6	25.8	1090		710	< 1	< 1		2.6	< 1	< 1		9601-00016-2
SB-08LC	6/18/1996	7.48	28.2	1180		790	< 1	< 1		2.6	< 1	< 1		9606-03052-15
SB-08LC	12/22/1996	7.58	25.1	1110		730	< 1	< 1		2.6	< 1	< 1		9612-06641-2
SB-08LC	12/22/1996	7.58	25.1	1110		730	< 1	< 1		2.6	< 1	< 1		9612-06641-1
SB-08LC	6/11/1997	7.52	28.4	800		530	< 1	< 1		2.5	< 1	< 1		9706-03639-24
SB-08LC	9/30/1997	7.64	27.6	900		600	< 1	< 1		3.6	< 1	< 1		9709-06274-1
SB-08LC	12/16/1997	7.45	25.8	720		480	< 1	< 1		< 1	< 1	< 1		9712-08132-11
SB-08LC	5/27/1998	7.62	27.8	1020		670	< 1	< 1		2.3	< 1	< 1		9805-03620-1
SB-08LC	9/13/1998	7.58	28	1000		670	< 1	< 1		1.9	< 1	< 1		9809-06400-12
SB-08LC	2/4/1999	7.32	26.4	890		600	< 1	< 1		2.2	< 1	< 1		9902-01193-01
SB-08LC	7/28/1999	7.52	27.8	1090		720	< 1	< 1		2.8	< 1	< 1		9907-06840-012
SB-08LC	2/1/2000	7.41	27.5	1000		660	< 1	< 1		3.3	< 1	< 1		0002-01077-003
SB-08LC	7/25/2000	7.53	28	1220		810	< 1	< 1		4.7	< 1	< 1		0007-06500-008
SB-08LC	2/20/2001	7.35	26.5	1170		790	< 1	< 1		4	< 1	< 1		0102-01314-012
SB-08LC	9/27/2001	7.57	26.7	1160		780	< 1	< 1		7.3	< 1	< 1		0109-07260-003
SB-08LC	2/7/2002	7.47	26.7	1040		680	< 1	< 1		4.6	< 1	< 1		0202-01152-007
SB-08LC	9/12/2002	7.5	28.6	1150		780	< 1	< 1		8.4	< 1	< 1		0209-07700-003
SB-08LC	3/20/2003	7.49	27	1150		770	< 1	< 1	< 1	8.5	< 1	< 1		030302542009
SB-08LC	9/23/2003	7.62	27.2	1170		780	< 1	< 1	< 1	11.4	< 1	< 1		030909106016
SB-08LC	2/26/2004	7.62	25.6	1130		750	< 1	< 1	< 1	6.2	< 1	< 1		040202165006
SB-08LC	9/28/2004	7.38	27.2	1070		720	< 2	< 2	< 2	6	< 2	< 2		040911253008
SB-08LC	3/15/2005	7.52	24.8	1390		930	< 1	< 1	< 1	6.4	< 1	< 1		05031240-01D
SB-08LC	9/30/2005	7.44	29.2	1350		910	< 1	< 1	< 1	4.9	< 1	< 1		05091650-20D
SB-08LC	3/27/2006	7.28	28	1350		900	< 1	< 1	< 1	3.5	< 1	< 1		06031725-20D
SB-08LC	9/20/2006	7.56	26.7	1560		1040	< 1	< 1	< 1	3.59	< 1	< 1		06090740-18D
SB-08LC	3/28/2007	7.34	23.4	1670		1110	< 1	< 1	< 1	6.4	< 1	< 1		07030871-35
SB-08LC	9/27/2007	7.16	28.8	1670		1120	< 1	< 1	< 1	8.4	< 1	< 1		07091009-18D
SB-08LC	1/22/2008	7.2	26.56	2876		1930	<0.5	<0.5	<0.5	6.3	<0.5	<0.5		200697-008
SB-08LC	4/15/2008	7.35	28.2	2851		1860	<0.5	<0.5	<0.5	5.6	<0.5	<0.5		202646-002
SB-08LC	8/3/2008	7.53	27.21	2654		1725	<0.5	<0.5	<0.5	3.8	<0.5	<0.5		205111-008
SB-08LC	11/20/2008	7.42	24.62	2322		1560	<0.5	<0.5	<0.5	1	<0.5	<0.5		208075-012
SB-08LC	2/19/2009	7.75	25.38	2346	54.1	1.52	<0.5	<0.5	<0.5	1.9	<0.5	<0.5		210249-010
SB-08LC	5/19/2009	7.38	29.12	2314	15.6	1.55	<0.5	<0.5	<0.5	1.6	<0.5	<0.5		212367-002
SB-08LC	8/28/2009						<0.5	<0.5	<0.5	1.5	<0.5	<0.5		214574-007
SB-08LC	9/23/2009	7.43	27.77	2156	1	1.44	<0.5	<0.5	<0.5	1.6	<0.5	<0.5		215185-010
SB-08LC	9/28/2009	7.23	27.31	2326	0.81	1.56								214574-007
SB-08LC	10/21/2009	7.4	27.53	2041	0.49		<0.5	<0.5	<0.5	1.6	<0.5	<0.5		215904-008
SB-08LC	11/19/2009	7.42	27.92	2051	0.27	1.37	<0.5	<0.5	<0.5	1.4	<0.5	<0.5		216704-014
SB-08LC	2/3/2010	7.39	24.21	4173	4.97	2.8	<0.5	<0.5	<0.5	0.8	<0.5	<0.5		218171-024

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
SB-08LC	5/3/2010	7.52	26.51	1846	5.53	1.24	<0.5	<0.5	<0.5	0.6	<0.5	<0.5		220017-005
SB-08LC	6/22/2010	7.31	29.58	2059	1.12	1.38	<0.5	<0.5	<0.5	0.7	<0.5	<0.5		220933-008
SB-08LC	6/22/2010	7.31	29.58	2059	1.12	1.38	<0.5	<0.5	<0.5	0.7	<0.5	<0.5		220933-007
SB-08LC	8/27/2010	6.91	27.62	2139	0.72	1.43	<0.5	<0.5	<0.5	0.9	<0.5	<0.5		222127-020
SB-08LC	12/4/2010						<0.5	<0.5	<0.5	0.9	<0.5	<0.5		224639-017
SB-08LC	2/11/2011	7.03	26.08	1834	0.8		<0.5	<0.5	<0.5	0.8	<0.5	<0.5		PGA SOUTH
SB-08LC	5/11/2011	6.41	27.22	2188	0.97		<0.5	<0.5	<0.5	0.8	<0.5	<0.5		PGA SOUTH
SB-08LC	8/5/2011	5.38	30.47	1841	6.53		<0.5	<0.5	<0.5	0.7	<0.5	<0.5		PGA SOUTH
SB-08LC	2/3/2012	7.78	23.63	1650	0.61		<0.5	<0.5	<0.5	2	<0.5	<0.5		189044
SB-08LC	8/9/2012	7.06	28.4	1666	0.78		<0.5	<0.5	<0.5	0.9	<0.5	<0.5		189044
SB-08LC	2/8/2013				6.24		<0.5	<0.5	<0.5	0.3	<0.5	<0.5		189044
SB-08LC	8/9/2013				15.5		<0.5	<0.5	<0.5	0.3 J	<0.5	<0.5		247902-019
SB-08UC	9/25/1993						<0.2	<0.2		<0.2	<0.2	<0.2		30998903
SB-08UC	6/30/1995	7.54	26.7	1940		1310	< 1	< 1		1.1	< 1	< 1		9507-06189-2
SB-08UC	9/27/1995	7.36	28	1980		1320	< 1	< 1		< 1	< 1	< 1		9509-07736-4
SB-08UC	12/29/1995	7.32	25.5	1970		1300	< 1	< 1		< 1	< 1	< 1		9601-00016-1
SB-08UC	6/18/1996	7.31	27.3	1950		1310	< 1	< 1		< 1	< 1	< 1		9606-03052-14
SB-08UC	12/16/1996	7.33	25	2090		1390	< 1	< 1		< 1	< 1	< 1		9612-06522-7
SB-08UC	12/16/1996	7.33	25	2090		1390	< 1	< 1		< 1	< 1	< 1		9612-06522-6
SB-08UC	6/11/1997	7.49	27.8	1500		1000	< 1	< 1		< 1	< 1	< 1		9706-03639-25
SB-08UC	9/30/1997	7.33	26.4	1550		1030	< 1	< 1		< 1	< 1	< 1		9709-06274-2
SB-08UC	12/16/1997	7.24	25	510		1010	< 1	< 1		< 1	< 1	< 1		9712-08132-9
SB-08UC	5/27/1998	7.43	27.7	1520		1020	< 1	< 1		< 1	< 1	< 1		9805-03620-2
SB-08UC	9/13/1998	7.38	27.4	1560		1040	< 1	< 1		< 1	< 1	< 1		9809-06400-11
SB-08UC	2/12/1999	7.28	25.1	1570		1050	< 1	< 1		< 1	< 1	< 1		9902-01472-08
SB-08UC	7/28/1999	7.32	27.5	1570		1050	< 1	< 1		< 1	< 1	< 1		9907-06840-011
SB-08UC	2/1/2000	7.19	26.2	1510		1010	< 1	< 1		< 1	< 1	< 1		0002-01077-002
SB-08UC	7/25/2000	7.26	27.1	1610		1080	< 1	< 1		< 1	< 1	< 1		0007-06500-006
SB-08UC	2/20/2001	7.33	26.9	1680		1130	< 1	< 1		< 1	< 1	< 1		0102-01314-008
SB-08UC	9/27/2001	7.32	26.7	1660		1110	< 1	< 1		< 1	< 1	< 1		0109-07260-001
SB-08UC	2/7/2002	7.25	25.6	1650		1100	< 1	< 1		< 1	< 1	< 1		0202-01152-001
SB-08UC	9/12/2002	7.27	28.2	1570		1050	< 1	< 1		< 1	< 1	< 1		0209-07700-001
SB-08UC	3/19/2003	7.18	27.3	1550		1040	< 1	< 1	< 1	< 1	< 1	< 1		030302542003
SB-08UC	2/26/2004						< 1	< 1	< 1	< 1	< 1	< 1		040202165002
SB-08UC	2/26/2004	7.21	24.3	1540		1030	< 1	< 1	< 1	< 1	< 1	< 1		040202165001
SB-08UC	3/11/2005	7.23	26.9	1560		1040	< 1	< 1	< 1	< 1	< 1	< 1		05031045-07D
SB-08UC	3/27/2006	7.07	25.5	1630		1090	< 1	< 1	< 1	< 1	< 1	< 1		06031725-18D
SB-08UC	3/28/2007	7.18	23.9	1700		1150	< 1	< 1	< 1	1.99	< 1	< 1		07030871-34
SB-08UC	1/10/2008	7.29	25.53	2569		1720	0.2	<0.5	0.08	5.8	<0.5	<0.5		200517-002
SB-08UC	2/20/2009	7.07	27.22	2468	12.9	1.6	0.1	<0.5	<0.5	3.5	<0.5	<0.5		210249-025
SB-08UC	9/23/2009	7.11	27.47	2236	6	1.5	<0.5	<0.5	<0.5	3.1	<0.5	<0.5		215185-011
SB-08UC	10/21/2009	7.08	27.36	2085	20.6		<0.5	<0.5	<0.5	2.8	<0.5	<0.5		215904-009
SB-08UC	11/19/2009	7.06	27.23	2130	16.2	1.43	<0.5	<0.5	<0.5	1.9	<0.5	<0.5		216790-001
SB-08UC	2/3/2010	7.03	26.97	4307	18.7	2.89	<0.5	<0.5	<0.5	2.3	<0.5	<0.5		218171-025
SB-08UC	6/23/2010	6.73	28.25	1986		11.9	<0.5	<0.5	<0.5	1.5	<0.5	<0.5		220933-010
SB-08UC	8/30/2010	7.06	26.59	2130	36.4	1.43	<0.5	<0.5	<0.5	1.1	<0.5	<0.5		222127-026
SB-08UC	8/30/2010	7.06	26.59	2130	36.4	1.43	<0.5	<0.5	<0.5	1.1	<0.5	<0.5		
SB-08UC	2/11/2011	6.37	27.85	2001	7.3		<0.5	<0.5	<0.5	1.1	<0.5	<0.5		PGA SOUTH
SB-08UC	5/25/2011	5.28	25.41	2089	18.6		<0.5	<0.5	<0.5	1.1	<0.5	<0.5		PGA SOUTH
SB-08UC	8/6/2011	5.69	27.69	1910	1.84		<0.5	<0.5	<0.5	1	<0.5	<0.5		PGA SOUTH
SB-08UC	2/4/2012	7.18	25.54	1861	1.34		<0.5	<0.5	<0.5	0.9	<0.5	<0.5		189044
SB-08UC	8/13/2012						<0.5	<0.5	<0.5	1.2	<0.5	<0.5		189044
SB-08UC	2/8/2013				19.7		<0.5	<0.5	<0.5	0.7	<0.5	<0.5		189044
SB-08UC	8/9/2013				20.1		<0.5	<0.5	<0.5	0.3 J	<0.5	<0.5		247902-020
SB-09LC	10/5/1993						<0.2	<0.2		80	<0.2	<0.2		31057401
SB-09LC	4/28/1994						< 2	< 2		110	< 2	< 2		40411007
SB-09LC	5/19/1994						0.8	<0.2		82	0.6	<0.2		40596905
SB-09LC	9/26/1994						1.2	< 1		120	< 1	< 1		40993602
SB-09LC	11/18/1994						<0.2	<0.2			<0.2			9411020404
SB-09LC	1/9/1995		26.9	1550		1030	<0.2	<0.2		54	<0.2	<0.2		9501029233
SB-09LC	3/27/1995						< 1	< 1		38.6	< 1	< 1		9503-4437-5
SB-09LC	3/27/1995													9503-4437-3
SB-09LC	4/21/1995	7.74	26.5	1620		1080	< 1	< 1		40.6	< 1	< 1		9504-4915-12
SB-09LC	4/21/1995	7.74	26.5	1620		1080	< 1	< 1		45.8	< 1	< 1		9504-4915-11
SB-09LC	5/18/1995	7.74	27.9	1630		1090	< 1	< 1		28.3	< 1	< 1		9505-5478-13
SB-09LC	5/19/1995	7.74	27.9	1630		1090	< 1	< 1		37.9	< 1	< 1		9505-5478-16
SB-09LC	6/9/1995	7.79	27.5	1630		1090	< 1	< 1		37.3	< 1	< 1		9506-05828-1
SB-09LC	7/14/1995	7.38	27.8	2330		1560	< 1	< 1		35.7	< 1	< 1		9507-06450-12
SB-09LC	7/14/1995	7.38	27.8	2330		1560	< 1	< 1		32.6	< 1	< 1		9507-06450-13
SB-09LC	8/10/1995	7.94	28.6	1700		1150	< 1	< 1		30.6	< 1	< 1		9508-06941-2
SB-09LC	8/10/1995	7.94	28.6	1700		1150	< 1	< 1		30.9	< 1	< 1		9508-06941-3

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
SB-09LC	9/12/1995	7.81	28	1600		1070	< 1	< 1		33.1	< 1	< 1		9509-07486-8
SB-09LC	9/12/1995	7.81	28	1600		1070	< 1	< 1		33.5	< 1	< 1		9509-07486-10
SB-09LC	10/13/1995	7.8	28.4	1550		1030	< 1	< 1		31.1	< 1	< 1		9510-08059-2
SB-09LC	12/13/1995	7.18	25.7	2290		1530	< 1	< 1		22.6	< 1	< 1		9512-09012-16
SB-09LC	3/25/1996	7.86	26.7	1500		1000	< 1	< 1		26.5	< 1	< 1		9603-01474-3
SB-09LC	6/18/1996	7.8	29	1470		980	< 1	< 1		28.4	< 1	< 1		9606-03052-9
SB-09LC	9/23/1996	7.66	28.7	1460		970	< 1	< 1		31.4	< 1	< 1		9609-04903-3
SB-09LC	12/23/1996	7.79	26.3	1410		950	< 1	< 1		28.5	< 1	< 1		9612-06657-1
SB-09LC	2/25/1997	7.71	26.3	1400			< 1	< 1		21.6	< 1	< 1		9702-01250-12
SB-09LC	6/12/1997	7.96	27.4	1190		800	< 1	< 1		54	< 1	< 1		9706-03666-4
SB-09LC	9/22/1997	7.76	27.4	1400		940	1.6	< 1		97.2	< 1	< 1		9709-06208-4
SB-09LC	12/18/1997	7.76	26.5	1360		910	1	< 1		67.4	< 1	< 1		9712-08185-4
SB-09LC	12/18/1997	7.76	26.5	1360		910	< 1	< 1		58.4	< 1	< 1		9712-08185-3
SB-09LC	2/23/1998	7.6	26.5	1340		900	< 1	< 1		48.1	< 1	< 1		9802-01284-6
SB-09LC	9/16/1998	7.4	27.8	1300		880	< 1	< 1		76.9	< 1	< 1		9809-06485-7
SB-09LC	2/6/1999	7.65	27	1310		870	< 1	< 1		34.5	< 1	< 1		9902-01284-06
SB-09LC	7/31/1999	7.81	27.6	1310		880	< 1	< 1		46.2	< 1	< 1		9908-06887-019
SB-09LC	2/2/2000	7.65	26.5	1330		890	< 1	< 1		38.3	< 1	< 1		0002-01108-005
SB-09LC	7/29/2000	7.83	27.9	1320		880	< 1	< 1		20.7	< 1	< 1		0007-06667-016
SB-09LC	7/29/2000	7.83	27.9	1320		880	< 1	< 1		20.9	< 1	< 1		0007-06667-015
SB-09LC	3/2/2001	7.51	26.5	1330		890	< 1	< 1		26	< 1	< 1		0103-01562-006
SB-09LC	9/28/2001	7.78	27.4	1240		830	< 1	< 1		11.4	< 1	< 1		0110-07277-010
SB-09LC	2/18/2002	7.48	26.4	1250		830	< 1	< 1		29	< 1	< 1		0202-01412-005
SB-09LC	9/18/2002	7.79	28.3	1260		840	< 1	< 1		22.1	< 1	< 1		0209-07897-006
SB-09LC	3/27/2003	7.48	27.2	1240		830	< 1	< 1	< 1	34.7	< 1	< 1		030302776005
SB-09LC	9/24/2003	7.5	25.7	1190		800	< 1	< 1	< 1	29.9	< 1	< 1		030909106024
SB-09LC	3/5/2004	7.61	26.2	1260		850	< 1	< 1	< 1	29	< 1	< 1		040302470016
SB-09LC	3/5/2004	7.61	26.2	1260		850	< 1	< 1	< 1	27	< 1	< 1		040302470014
SB-09LC	9/28/2004	7.53	28.5	1060		710	< 2	< 2	< 2	9.2	< 2	< 2		040911253013
SB-09LC	3/16/2005	7.56	27.7	1040		700	< 1	< 1	< 1	11	< 1	< 1		05031240-10D
SB-09LC	9/30/2005	7.61	29	1080		730	< 1	< 1	< 1	3.7	< 1	< 1		05100435-08D
SB-09LC	3/27/2006	7.31	28.9	1080		720	< 1	< 1	< 1	2.1	< 1	< 1		06031725-22D
SB-09LC	9/21/2006	7.49	27.2	1140		760	< 1	< 1	< 1	1.48	< 1	< 1		06091031-21D
SB-09LC	3/28/2007	7.56	22.5	1320		890	< 1	< 1	< 1	1.62	< 1	< 1		07030871-38
SB-09LC	9/27/2007	7.02	28.8	1150		770	< 1	< 1	< 1	1.38	< 1	< 1		07091009-26D
SB-09LC	9/27/2007	7.02	28.8	1150		770	< 1	< 1	< 1	1.46	< 1	< 1		07091009-21D
SB-09LC	1/10/2008	7.75	26.25	1921		1290	<0.5	<0.5	<0.5	1.4	<0.5	<0.5		200517-001
SB-09LC	7/30/2008	7.44	27.97	1888		1227	<0.5	<0.5	<0.5	0.9	<0.5	<0.5		204995-008
SB-09LC	2/19/2009	7.45	25.51	1979	1.24	1.33	<0.5	<0.5	<0.5	0.8	<0.5	<0.5		210249-013
SB-09LC	8/27/2009	7.3	27.5	2087	1.64	1.4								214574-006
SB-09LC	8/27/2009	7.3	27.5	2087	1.64	1.4								214574-005
SB-09LC	8/28/2009						<0.5	<0.5	<0.5	0.7	<0.5	<0.5		214574-005
SB-09LC	8/28/2009						<0.5	<0.5	<0.5	0.7	<0.5	<0.5		214574-006
SB-09LC	9/22/2009	7.57	28.41	1924	1	1.29	<0.5	<0.5	<0.5	0.8	<0.5	<0.5		215185-006
SB-09LC	10/20/2009	7.27	27.91	1887	0.68									215904-009
SB-09LC	10/20/2009						<0.5	<0.5	<0.5	0.9	<0.5	<0.5		215904-006
SB-09LC	11/19/2009	7.4	27.41	1902	1.38	1.27	<0.5	<0.5	<0.5	0.7	<0.5	<0.5		216704-012
SB-09LC	2/2/2010	7.58	27.51	1894	0.73	1.27	<0.5	<0.5	<0.5	0.7	<0.5	<0.5		218171-004
SB-09LC	6/22/2010						<0.5	<0.5	<0.5	0.8	<0.5	<0.5		220933-006
SB-09LC	6/23/2010	7.37	29.04	1934		1.37								220933-006
SB-09LC	8/28/2010	7.31	28.88	1930	0.93	1.29	<0.5	<0.5	<0.5	0.7	<0.5	<0.5		
SB-09LC	8/28/2010	7.31	28.88	1930	0.93	1.29	<0.5	<0.5	<0.5	0.7	<0.5	<0.5		222127-023
SB-09LC	5/25/2011	7.53	26.97	1921	0.85		<0.5	<0.5	<0.5	0.8	<0.5	<0.5		PGA SOUTH
SB-09LC	8/7/2011	7.16	27.73	1734	0.42		<0.5	<0.5	<0.5	0.7	<0.5	<0.5		PGA SOUTH
SB-09LC	2/7/2012	7.27	26.47	1758	0.63		<0.5	<0.5	<0.5	0.8	<0.5	<0.5		189044
SB-09LC	8/11/2012	7.24	27.74	1544	1.75		<0.5	<0.5	<0.5	0.7	<0.5	<0.5		189044
SB-09LC	2/12/2013				8.95		<0.5	<0.5	<0.5	0.9	<0.5	<0.5		189044
SB-09LC	8/9/2013				17.5		<0.5	<0.5	<0.5	0.5	<0.5	<0.5		247902-021
SB-09UC	3/27/1985													9503-4437-3
SB-09UC	4/28/1994						<0.2	0.4		15	<0.2	<0.2		40411006
SB-09UC	5/19/1994						<0.2	<0.2		20	<0.2	<0.2		40596903
SB-09UC	7/14/1994						<0.2	<0.5		20	<0.2	<0.2		40776018
SB-09UC	9/26/1994						0.2	<0.2		21	<0.2	<0.2		40993601
SB-09UC	11/17/1994						<0.2	<0.2		25	<0.2	<0.2		9411020403
SB-09UC	1/9/1995	7.3	25.3	1550		1030	<0.2	<0.2		45	<0.2	<0.2		9501029232
SB-09UC	3/27/1995						< 1	< 1		44	< 1	< 1		9503-4437-3
SB-09UC	4/19/1995	7.12	24.6	2300		1680	< 1	< 1		34.5	< 1	< 1		9504-4915-7
SB-09UC	5/18/1995	7.4	27.3	2340		1580	< 1	< 1		39.2	< 1	< 1		9505-5478-11
SB-09UC	6/8/1995	7.38	26.5	2320		1550	< 1	< 1		52.5	< 1	< 1		9506-05804-6
SB-09UC	7/14/1995	8.04	28.7	1640		1100	< 1	< 1		39.3	< 1	< 1		9507-06450-11
SB-09UC	8/10/1995	7.42	28	2320		1550	< 1	< 1		40	< 1	< 1		9508-06941-1

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (°C)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
SB-09UC	9/12/1995	7.4	28	2350		1570	< 1	< 1		63.5	< 1	< 1		9509-07486-11
SB-09UC	10/13/1995	7.4	27.2	2370		1580	< 1	< 1		66.4	< 1	< 1		9510-08059-3
SB-09UC	12/13/1995	7.77	26.6	1530		1020	< 1	< 1		55.7	< 1	< 1		9512-09012-15
SB-09UC	3/25/1996	7.2	26.3	2210		1470	< 1	< 1		61.7	< 1	< 1		9603-01474-2
SB-09UC	6/18/1996	7.15	28.4	2220		1470	< 1	< 1		51.7	< 1	< 1		9606-03052-7
SB-09UC	9/23/1996	7.18	28	2140		1440	< 1	< 1		36.4	< 1	< 1		9609-04903-2
SB-09UC	12/23/1996	7.22	25.5	2150		1450	< 1	< 1		34.3	< 1	< 1		9612-06657-2
SB-09UC	2/25/1997	7.32	25.1	2150			< 1	< 1		30.4	< 1	< 1		9702-01250-13
SB-09UC	6/12/1997	7.27	27.2	1500		1000	< 1	< 1		16	< 1	< 1		9706-03666-3
SB-09UC	9/22/1997	7.33	26.2	1480		990	< 1	< 1		25.6	< 1	< 1		9709-06208-7
SB-09UC	12/18/1997	7.26	25.7	1460		980	< 1	< 1		21.1	< 1	< 1		9712-08185-5
SB-09UC	2/23/1998	7.22	25.7	1420		950	< 1	< 1		20.9	< 1	< 1		9802-01284-7
SB-09UC	9/13/1998	7.39	27.4	1460		980	< 1	< 1		13.7	< 1	< 1		9809-06400-16
SB-09UC	2/6/1999	7.2	26.1	1420		950	< 1	< 1		9.1	< 1	< 1		9902-01284-02
SB-09UC	2/6/1999	7.2	26.1	1420		950	< 1	< 1		9	< 1	< 1		9902-01284-03
SB-09UC	7/31/1999	7.22	27.3	1420		950	< 1	< 1		8.2	< 1	< 1		9908-06887-017
SB-09UC	2/3/2000	7.11	25.6	1480		990	< 1	< 1		9.2	< 1	< 1		0002-01144-002
SB-09UC	2/3/2000	7.11	25.6	1480		990	< 1	< 1		10.2	< 1	< 1		0002-01144-001
SB-09UC	7/29/2000	7.34	27.7	1460		980	< 1	< 1		13.6	< 1	< 1		0007-06667-012
SB-09UC	3/1/2001	7.25	26.3	1480		990	< 1	< 1		17	< 1	< 1		0103-01562-001
SB-09UC	9/28/2001	7.28	27.1	1590		1070	< 1	< 1		12.7	< 1	< 1		0110-07277-006
SB-09UC	9/28/2001	7.28	27.1	1590		1070	< 1	< 1		13.3	< 1	< 1		0110-07277-005
SB-09UC	2/16/2002	7.22	28.5	1570		1050	< 1	< 1		11	< 1	< 1		0202-01372-009
SB-09UC	2/16/2002	7.22	28.5	1570		1050	< 1	< 1		12	< 1	< 1		0202-01372-008
SB-09UC	9/18/2002	7.31	27.9	1500		1010	< 1	< 1		8.8	< 1	< 1		0209-07897-002
SB-09UC	3/27/2003	7.24	27.7	1530		1040	< 1	< 1	< 1	9.5	< 1	< 1		030302776020
SB-09UC	9/24/2003	7.26	25.6	1490		1000	< 1	< 1	< 1	11.1	< 1	< 1		030909106020
SB-09UC	3/5/2004	7.29	25.7	1470		990	< 1	< 1	< 1	6.1	< 1	< 1		040302470015
SB-09UC	9/28/2004	7.23	28.2	1390		920	< 2	< 2	< 2	8.4	< 2	< 2		040911253011
SB-09UC	3/16/2005	7.33	26.7	1380		920	< 1	< 1	< 1	7.2	< 1	< 1		05031240-09D
SB-09UC	9/30/2005	7.33	29.4	1220		820	< 1	< 1	< 1	8.2	< 1	< 1		05100435-03D
SB-09UC	9/30/2005	7.33	29.4	1220		820	< 1	< 1	< 1	8.1	< 1	< 1		05100435-04D
SB-09UC	3/27/2006	7.12	28.6	1180		780	< 1	< 1	< 1	5	< 1	< 1		06031725-21D
SB-09UC	9/21/2006	7.21	26.9	1290		860	< 1	< 1	< 1	< 1	< 1	< 1		06091031-22D
SB-09UC	3/28/2007	7.31	22.6	1400		940	< 1	< 1	< 1	< 1	< 1	< 1		07030871-37
SB-09UC	9/27/2007	7.13	28.9	1200		810	< 1	< 1	< 1	< 1	< 1	< 1		07091009-19D
SB-09UC	9/27/2007	7.13	28.9	1200		810	< 1	< 1	< 1	< 1	< 1	< 1		07091009-20D
SB-09UC	1/10/2008	7.36	26.33	2000		1340	<0.5	<0.5	<0.5	0.3	<0.5	<0.5		200517-003
SB-09UC	7/30/2008	5.24	27.61	1981		1287	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		204995-006
SB-09UC	7/30/2008	5.24	27.61	1981		1287	<0.5	<0.5	<0.5	0.2	<0.5	<0.5		204995-007
SB-09UC	2/16/2009	7.09	22.67	2009	43.2	1.35	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		210202-001
SB-09UC	8/27/2009	7.03	27.34	2177	4.28	1.46	<0.5	<0.5	<0.5	0.3	<0.5	<0.5		214574-003
SB-09UC	9/22/2009	7.38	32.74	2037	399	1.37	<0.5	<0.5	<0.5	0.3	<0.5	<0.5		215185-004
SB-09UC	10/20/2009	7.08	25.59	1982	694		<0.5	<0.5	<0.5	0.2	<0.5	<0.5		215904-004
SB-09UC	11/18/2009	7.26	25.36	1987	452	1.33	<0.5	<0.5	<0.5	0.3	<0.5	<0.5		216704-008
SB-09UC	2/2/2010	7.43	23.71	1962	4.68	1.31	<0.5	<0.5	<0.5	0.2	<0.5	<0.5		218171-003
SB-09UC	6/21/2010	6.98	28.2	2048	1.02	1.37	<0.5	<0.5	<0.5	0.1	<0.5	<0.5		220933-003
SB-09UC	8/25/2010	7.5	28.06	1730	2.3	1.16	<0.5	<0.5	<0.5	0.2	<0.5	<0.5		222127-009
SB-09UC	8/5/2011	6.71	30.81	180	32.3		<0.5	<0.5	<0.5	0.2	<0.5	<0.5		PGA SOUTH
SB-09UC	8/8/2012	7.01	35.41	1791	87.3		<0.5	<0.5	<0.5	0.2	<0.5	<0.5		189044
SB-10LC	11/4/1993						<0.2	<0.2		5.8	<0.2	<0.2		31164102
SB-10LC	11/5/1993						<0.2	<0.2		5.9	<0.2	<0.2		31164103
SB-10LC	4/28/1994						< 2	3		15	< 2	< 2		40411008
SB-10LC	5/19/1994						<0.2	<0.2		15	<0.2	<0.2		40596904
SB-10LC	7/14/1994						<0.2	<0.5		11	<0.2	<0.2		40776017
SB-10LC	9/16/1994						<0.2	< 1		11	<0.2	<0.5		40938606
SB-10LC	11/17/1994						<0.2	<0.2		<0.2	<0.2	<0.2		9411020401
SB-10LC	1/9/1995	7.8	26.1	790		570	<0.2	<0.2		<0.2	<0.2	<0.2		9501029231
SB-10LC	3/27/1995						< 1	< 1			< 1	< 1		9503-4437-1
SB-10LC	4/19/1995	7.6	26.3	970		660	< 1	< 1		< 1	< 1	< 1		9504-4915-6
SB-10LC	5/18/1995	7.77	27.8	1020		670	< 1	< 1		1.2	< 1	< 1		9505-5478-10
SB-10LC	5/18/1995	7.77	27.8	1020		670	< 1	< 1		1.3	< 1	< 1		9505-5478-12
SB-10LC	6/8/1995	7.89	26.7	1050		700	< 1	< 1		1.5	< 1	< 1		9506-05804-5
SB-10LC	7/14/1995	7.75	28.2	1150		770	< 1	< 1		1.1	< 1	< 1		9507-06450-10
SB-10LC	8/10/1995	7.62	27.6	1160		760	< 1	< 1		2.7	< 1	< 1		9508-06941-19
SB-10LC	9/12/1995	7.54	27.5	1150		770	< 1	< 1		1.2	< 1	< 1		9509-07486-7
SB-10LC	10/13/1995	7.68	28	1200		800	< 1	< 1		< 1	< 1	< 1		9510-08059-1
SB-10LC	12/13/1995	7.42	26.5	1190		800	< 1	< 1		1.9	< 1	< 1		9512-09012-14
SB-10LC	3/22/1996	7.5	26.7	1280		860	< 1	< 1		1.2	< 1	< 1		9603-01453-3
SB-10LC	6/18/1996	7.26	28.2	1310		880	< 1	< 1		< 1	< 1	< 1		9606-03052-6
SB-10LC	6/18/1996	7.26	28.2	1310		880	< 1	< 1		1.2	< 1	< 1		9606-03052-8

TABLE C-1
HISTORICAL ANALYTICAL DATA
Phoenix-Goodyear Airport South
Goodyear, Arizona

Well	Sample Date	Field Data				Laboratory Data								Laboratory ID
		pH (s.u.)	Temp (^oC)	Conductivity (uS/cm)	Turbidity (NTU)	TDS (mg/L)	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	cis-1,2-DCE (ug/L)	TCE (ug/L)	trans-1,2-DCE (ug/L)	PCE (ug/L)	Chromium (ug/L)	
SB-10LC	9/23/1996	7.42	28.7	1360		920	< 1	< 1		< 1	< 1	< 1		9609-04903-1
SB-10LC	12/17/1996	7.44	25.5	1490		1000	< 1	< 1		< 1	< 1	< 1		9612-06566-1
SB-10LC	12/17/1996	7.44	25.5	1490		1000	< 1	< 1		< 1	< 1	< 1		9612-06566-3
SB-10LC	2/25/1997	7.42	25.7	1490			< 1	< 1		1.7	< 1	< 1		9702-01250-9
SB-10LC	6/11/1997	7.41	27.7	970		650	< 1	< 1		< 1	< 1	< 1		9706-03639-26
SB-10LC	9/22/1997	7.54	27.8	1080		720	< 1	< 1		< 1	< 1	< 1		9709-06208-30
SB-10LC	12/16/1997	7.42	26.1	1020		680	< 1	< 1		< 1	< 1	< 1		9712-08132-8
SB-10LC	2/23/1998	7.57	27.3	940		630	< 1	< 1		1.3	< 1	< 1		9802-01284-3
SB-10LC	8/11/1998												17	PHH00476
SB-10LC	8/11/1998	7.52	28.9	990		660	< 1	< 1		< 1	< 1	< 1		9808-05612-4
SB-10LC	2/12/1999	7.45	26.7	1050		700	< 1	< 1		< 1	< 1	< 1		9902-01472-07
SB-10LC	7/28/1999	7.57	28.8	1090		740	< 1	< 1		< 1	< 1	< 1		9907-06840-010
SB-10LC	2/3/2000	7.51	27.4	1120		750	< 1	< 1		< 1	< 1	< 1		0002-01077-004
SB-10LC	7/25/2000	7.51	27.9	950		640	< 1	< 1		< 1	< 1	< 1		0007-06500-007
SB-10LC	2/20/2001	7.5	28.1	1090		740	< 1	< 1		< 1	< 1	< 1		0102-01314-009
SB-10LC	9/27/2001	7.59	28.7	780		520	< 1	< 1		< 1	< 1	< 1		0109-07260-002
SB-10LC	2/7/2002	7.5	26.2	870		580	< 1	< 1		< 1	< 1	< 1		0202-01152-002
SB-10LC	9/12/2002	7.58	29.1	810		540	< 1	< 1		< 1	< 1	< 1		0209-07700-002
SB-10LC	3/19/2003	7.43	27.8	840		560	< 1	< 1	< 1	< 1	< 1	< 1		030302542005
SB-10LC	3/19/2003	7.43	27.8	840		560	< 1	< 1	< 1	< 1	< 1	< 1		030302542004
SB-10LC	2/26/2004	7.68	26.1	840		560	< 1	< 1	< 1	< 1	< 1	< 1		040202165003
SB-10LC	3/14/2005	7.42	25.4	910		610	< 1	< 1	< 1	< 1	< 1	< 1		05031045-09D
SB-10LC	3/27/2006	7.2	27.6	860		580	< 1	< 1	< 1	< 1	< 1	< 1		06031725-19D
SB-10LC	3/28/2007	7.41	23	1080		720	< 1	< 1	< 1	< 1	< 1	< 1		07030871-36
SB-10LC	1/9/2008	7.53	26.48	1934		1300	<0.5	<0.5	<0.5	0.8	<0.5	<0.5		200451-001
SB-10LC	2/16/2009	7.52	28.1	1973	5.6	1.32	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		210202-032
SB-10LC	9/22/2009	7.5	28.3	1916	3	1.28	<0.5	<0.5	<0.5	0.8	<0.5	<0.5		215185-005
SB-10LC	10/20/2009	7.31	27.82	1913	1.74		<0.5	<0.5	<0.5	0.8	<0.5	<0.5		215904-005
SB-10LC	11/19/2009	7.37	27.51	1927	0.68	1.29	<0.5	<0.5	<0.5	0.7	<0.5	<0.5		216704-013
SB-10LC	2/2/2010	7.56	27.74	1937	0.62	1.3	<0.5	<0.5	<0.5	0.6	<0.5	<0.5		218171-002
SB-10LC	6/21/2010	7.38	28.82	2072		1.23	<0.5	<0.5	<0.5	0.5	<0.5	<0.5		220933-004
SB-10LC	8/28/2010	7.38	27.88	1965	1.96	1.32	<0.5	<0.5	<0.5	0.4	<0.5	<0.5		222127-022
SB-10LC	2/10/2011						<0.5	<0.5	<0.5	0.4	<0.5	<0.5		PGA SOUTH
SB-10LC	2/9/2012	7.42	22.4	2061	31.8		<0.5	<0.5	<0.5	0.3	<0.5	<0.5		189044
SB-10LC	8/7/2012	7.29	28.61	1674	9.04		<0.5	<0.5	<0.5	0.3	<0.5	<0.5		189044
SB-10LC	2/7/2013				52.1		<0.5	<0.5	<0.5	0.3	<0.5	<0.5		189044
SB-10LC	8/9/2013				12.2		<0.5	<0.5	<0.5	0.3 J	<0.5	<0.5		247902-003
SB-11LC	11/17/1993						< 1	< 1		150	< 1	< 1		31191302
SB-11LC	9/16/1998	7.2	28.4	1360		910	1	< 1		114	< 1	< 1		9809-06485-9
SB-11LC	1/20/1999	7.2	26.9	1410		940	< 1	< 1		111	< 1	< 1		9901-00698-03
SB-11LC	8/7/2011	6.52	29.66	1904	600		0.2	<0.5	<0.5	11	<0.5	<0.5		PGA SOUTH
SB-11LC	11/15/2011	7.31	26.68	2280	4.75		<0.5	<0.5	<0.5	0.5	<0.5	<0.5	3.7	PGA SOUTH
SB-11LC	2/4/2012	7.23	27.04	2714	497		0.2	<0.5	<0.5	8.4	<0.5	<0.5		189044
SB-11LC	5/3/2012	7.35	28.42	2780	230		<0.5	<0.5	<0.5	1.8	<0.5	<0.5		189044
SB-11LC	8/9/2012	7.27	29.06	2636	83.2		<0.5	<0.5	<0.5	1.9	<0.5	<0.5		189044
SB-11LC	2/12/2013				18.3		<0.5	<0.5	<0.5	1.2	<0.5	<0.5		189044
SB-11LC	8/8/2013				9.6		<0.5	<0.5	<0.5	0.9	<0.5	<0.5		247818-015
SB-11UC	11/18/1993						<0.2	<0.2		65	<0.2	<0.2		31194202
SB-11UC	9/16/1998	7.14	27.8	1670		1120	< 1	< 1		10.3	< 1	< 1		9809-06485-8
SB-11UC	1/20/1999	7.1	26.3	1740		1170	< 1	< 1		7.1	< 1	< 1		9901-00698-04
SB-11UC	12/6/2010						<0.5	<0.5	<0.5	0.7	<0.5	<0.5		224639-027
SB-11UC	12/6/2010						<0.5	<0.5	<0.5	0.7	<0.5	<0.5		PGA SOUTH

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
AVONSCH-01	8/25/1992	C	977.19	72.2	904.99
AVONSCH-01	1/11/1993	C	977.19	62.8	914.39
AVONSCH-02	1/11/1993	MFU	970	67.15	902.85
COA-02	1/27/1993	C	972	96.75	875.25
COA-05	1/27/1993	OTHER	964	45.8	918.2
COA-MW1	2/20/1996	A	963.44	51.06	912.38
COA-MW1	3/25/1996	A	963.44	53.2	910.24
COA-MW1	6/28/1996	A	963.44	53.56	909.88
COA-MW1	6/19/1997	A	963.44	57	906.44
COA-MW2	2/20/1996	A	972.02	52.06	919.96
COA-MW2	3/25/1996	A	972.02	53.3	918.72
COA-MW2	6/28/1996	A	972.02	55.37	916.65
COA-MW2	6/19/1997	A	972.02	60.58	911.44
COG-01	1/6/1993	C	966	59.9	906.1
COG-01	10/25/2007	C	966	105.6	860.4
COG-01	5/1/2008	C	966	101.38	864.62
COG-01	9/21/2009	C	968.06	104.4	863.66
COG-01	10/20/2009	C	968.06	103.65	864.41
COG-01	2/23/2010	C	971.85	72.2	899.65
COG-01	8/1/2011	C	971.85	82.37	889.48
COG-01	11/2/2011	C	971.85	79.02	892.83
COG-01	2/1/2012	C	971.85	101.71	870.14
COG-01	5/1/2012	C	971.85	77.7	894.15
COG-01	8/2/2012	C	971.85	108.48	863.37
COG-01	11/2/2012	C	971.85	79.44	892.41
COG-02NEW	1/6/1993	MFU	975.9	75.7	900.2
COG-03	1/6/1993	OTHER	977.33	75.7	901.63
COG-05	2/3/1992	C	973.3	72.1	901.2
COG-05	8/3/1992	C	973.3	76.42	896.88
COG-05	1/6/1993	C	973.3	65.4	907.9
COG-05	1/26/1993	C	973.3	64.8	908.5
COG-05	3/1/1994	C	973.3	83.2	890.1
COG-05	3/11/1994	C	973.3	66.6	906.7
COG-05	1/25/1995	C	973.3	68.3	905
COG-05	10/29/2001	C	973.3	79.8	893.5
COG-05	1/30/2002	C	973.3	74.8	898.5
COG-05	5/13/2002	C	973.3	80.45	892.85
COG-05	7/31/2002	C	973.3	92	881.3
COG-05	10/31/2002	C	973.3	81.63	891.67
COG-05	1/30/2003	C	973.3	78.4	894.9
COG-05	4/30/2003	C	973.3	81.1	892.2
COG-05	8/8/2003	C	973.3	87.6	885.7
COG-05	10/28/2003	C	973.3	82.75	890.55
COG-05	1/28/2004	C	973.3	78.7	894.6
COG-05	4/29/2004	C	973.3	83.23	890.07
COG-05	7/30/2004	C	973.3	94.4	878.9
COG-05	11/3/2004	C	973.3	84.61	888.69
COG-05	1/27/2005	C	973.3	80.35	892.95
COG-05	5/5/2005	C	973.3	83.3	890
COG-05	7/27/2005	C	974.08	90	884.08
COG-05	10/26/2005	C	974.08	82	892.08
COG-05	1/27/2006	C	974.08	80.45	893.63
COG-05	5/3/2006	C	974.08	84.1	889.98

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
COG-05	7/26/2006	C	974.08	90.18	883.9
COG-05	10/30/2006	C	974.08	84.8	889.28
COG-05	1/30/2007	C	974.08	89.45	884.63
COG-05	4/30/2007	C	974.08	85.6	888.48
COG-05	7/31/2007	C	974.08	94.55	879.53
COG-05	10/25/2007	C	974.08	95.6	878.48
COG-05	5/1/2008	C	974.08	89.15	884.93
COG-05	2/20/2009	C	974.08	82.81	891.27
COG-05	5/21/2009	C	974.08	86.19	887.89
COG-05	8/28/2009	C	975.27	94.06	881.21
COG-05	9/21/2009	C	975.27	92.42	882.85
COG-05	10/19/2009	C	975.27	90.92	884.35
COG-05	11/20/2009	C	976.14	86.46	889.68
COG-05	2/3/2010	C	975.27	82.44	892.83
COG-05	5/4/2010	C	975.27	84.5	890.77
COG-05	8/23/2010	C	975.27	90.65	884.62
COG-05	11/29/2010	C	975.27	83.1	892.17
COG-05	2/3/2011	C	975.27	80.98	894.29
COG-05	5/2/2011	C	975.27	86.75	888.52
COG-05	8/1/2011	C	975.27	91.82	883.45
COG-05	11/2/2011	C	975.27	88.11	887.16
COG-05	2/1/2012	C	975.27	86.72	888.55
COG-05	5/1/2012	C	975.27	86.01	889.26
COG-05	8/2/2012	C	975.27	95.65	879.62
COG-05	9/4/2012	C	975.27	94.83	880.44
COG-05	10/1/2012	C	975.27	92.2	883.07
COG-05	11/2/2012	C	975.27	88.53	886.74
COG-05	12/3/2012	C	975.27	86.54	888.73
COG-05	2/4/2013	C	975.27	83.7	891.57
COG-05	5/2/2013	C	975.27	88.68	886.59
COG-05	8/6/2013	C	975.27	97.9	877.37
COG-05	11/5/2013	C	975.27	90.42	884.85
COG-06	1/6/1993	C/MFU	986.7	71.7	915
COG-08	10/25/2007	C	962	68.02	893.98
COG-10	8/26/1992	OTHER	992.2	103	889.2
COG-10	1/6/1993	OTHER	992.2	93.8	898.4
COG-11	8/3/1992	C	976.77	86.27	890.5
COG-11	1/6/1993	C	976.77	74	902.77
COG-11	9/21/2009	C	978.83	203.25	775.58
COG-11	10/21/2009	C	978.83	202.55	776.28
COG-11	2/24/2010	C	978.83	197.72	781.11
COG-11	8/24/2010	C	978.83	206.45	772.38
COG-11	8/2/2012	C	978.83	241	737.83
COG-12	1/6/1993	OTHER	937	63.1	873.9
COG-20	8/2/2012	C	967.73	126	841.73
COG-MW1	2/20/1996	A	965.67	52.8	912.87
COG-MW2	2/20/1996	A	965.79	53.54	912.25
COG-MW3	2/20/1996	A	965.91	53.12	912.79
COG-MW3	6/19/1997	A	965.91	59.64	906.27
DUNCAN	2/1/1993	OTHER	988	103	885
E-03	1/22/1990	A	941.54	40.5	901.04
E-03	1/23/1990	A	941.54	40.65	900.89
E-03	1/24/1990	A	941.54	40.6	900.94

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
E-03	1/25/1990	A	941.54	40.6	900.94
E-03	1/26/1990	A	941.54	40.45	901.09
E-03	1/29/1990	A	941.54	40.65	900.89
E-03	1/30/1990	A	941.54	41	900.54
E-03	1/31/1990	A	941.54	41	900.54
E-03	2/1/1990	A	941.54	41.25	900.29
E-03	2/2/1990	A	941.54	41.6	899.94
E-03	2/8/1990	A	941.54	40.8	900.74
E-03	2/16/1990	A	941.54	40.55	900.99
E-03	2/23/1990	A	941.54	40.25	901.29
E-03	3/1/1990	A	941.54	40.8	900.74
E-03	3/9/1990	A	941.54	41.15	900.39
E-03	3/16/1990	A	941.54	41.65	899.89
E-03	3/21/1990	A	941.54	42.6	898.94
E-03	4/3/1990	A	941.54	41.4	900.14
E-03	4/18/1990	A	941.54	41	900.54
E-03	5/22/1990	A	941.54	44.15	897.39
E-03	6/19/1990	A	941.54	45.85	895.69
E-03	7/18/1990	A	941.54	46.55	894.99
E-03	8/17/1990	A	941.54	46.5	895.04
E-03	9/22/1990	A	941.54	42.2	899.34
E-03	10/21/1990	A	941.54	41.6	899.94
E-03	11/24/1990	A	941.54	41.35	900.19
E-03	12/17/1990	A	941.54	41.1	900.44
E-03	1/21/1991	A	941.54	50	891.54
E-03	2/16/1991	A	941.54	41	900.54
E-03	3/17/1991	A	941.54	40.85	900.69
E-03	4/22/1991	A	941.54	42.75	898.79
E-03	5/19/1991	A	941.54	41.75	899.79
E-03	6/19/1991	A	941.54	46.3	895.24
E-03	7/21/1991	A	941.54	50.55	890.99
E-03	8/18/1991	A	941.54	50.8	890.74
E-03	9/24/1991	A	941.54	47.75	893.79
E-03	5/18/1993	A	941.54	38.1	903.44
E-03	6/11/1993	A	941.54	39	902.54
E-03	7/13/1993	A	941.54	41.7	899.84
E-03	8/9/1993	A	941.54	42.6	898.94
E-03	9/24/1993	A	941.54	40.1	901.44
E-03	10/28/1993	A	941.54	38.4	903.14
E-03	11/24/1993	A	941.54	37.7	903.84
E-03	12/14/1993	A	941.54	37.8	903.74
E-03	1/28/1994	A	941.54	37.8	903.74
E-03	2/25/1994	A	941.54	38.6	902.94
E-03	3/21/1994	A	941.54	39.7	901.84
E-03	4/27/1994	A	941.54	41.5	900.04
E-03	5/26/1994	A	941.54	40.8	900.74
E-03	6/3/1994	A	941.54	41.1	900.44
E-03	7/21/1994	A	941.54	47.3	894.24
E-03	8/25/1994	A	941.54	50.3	891.24
E-03	9/23/1994	A	941.54	46.1	895.44
E-03	10/12/1994	A	941.54	44.6	896.94
E-03	11/18/1994	A	941.54	42	899.54
E-03	12/30/1994	A	941.54	40.6	900.94

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
E-03	1/30/1995	A	941.54	38.8	902.74
E-03	1/30/1995	A	941.54	38.8	902.74
E-03	2/23/1995	A	941.54	39	902.54
E-03	3/30/1995	A	941.54	39.2	902.34
E-03	4/21/1995	A	941.54	40.2	901.34
E-03	5/26/1995	A	941.54	40.2	901.34
E-03	6/23/1995	A	941.54	42.64	898.9
E-03	7/27/1995	A	941.54	48.87	892.67
E-03	8/30/1995	A	941.54	46.25	895.29
E-03	9/29/1995	A	941.54	43.5	898.04
E-03	1/31/1996	A	941.54	39.75	901.79
E-03	2/20/1996	A	941.54	39.67	901.87
E-03	3/30/1996	A	941.54	41.85	899.69
E-03	4/30/1996	A	941.54	43.2	898.34
E-03	5/31/1996	A	941.54	43.05	898.49
E-03	6/28/1996	A	941.54	47.75	893.79
E-03	7/31/1996	A	941.54	49.95	891.59
E-03	8/30/1996	A	941.54	54.8	886.74
E-03	9/28/1996	A	941.54	45.75	895.79
E-03	10/30/1996	A	941.54	44.08	897.46
E-03	1/16/1997	A	941.54	41.31	900.23
E-03	4/29/1997	A	941.54	45	896.54
E-03	7/29/1997	A	941.54	52.46	889.08
E-03	1/30/1998	A	941.54	44	897.54
E-03	5/8/1998	A	941.54	43.13	898.41
E-03	7/30/1998	A	941.54	45.85	895.69
E-03	10/29/1998	A	941.54	42.7	898.84
E-03	1/29/1999	A	941.54	42.3	899.24
E-03	4/29/1999	A	941.54	44.65	896.89
E-03	8/5/1999	A	941.54	50.7	890.84
E-03	10/14/1999	A	941.54	47.9	893.64
E-03	2/9/2000	A	941.54	42.8	898.74
E-03	5/3/2000	A	941.54	44	897.54
E-03	8/3/2000	A	941.54	51.7	889.84
E-03	10/25/2000	A	941.54	48.6	892.94
E-03	2/1/2001	A	941.54	42.3	899.24
E-03	5/25/2001	A	941.54	44.55	896.99
E-03	8/1/2001	A	941.54	51.6	889.94
E-03	10/31/2001	A	941.54	48.1	893.44
E-03	2/1/2002	A	941.54	47.8	893.74
E-03	5/14/2002	A	941.54	47.05	894.49
E-03	8/1/2002	A	941.54	55.17	886.37
E-03	11/1/2002	A	941.54	51.2	890.34
E-03	1/31/2003	A	941.54	46.75	894.79
E-03	5/1/2003	A	941.54	47	894.54
E-03	8/8/2003	A	941.54	53.95	887.59
E-03	10/30/2003	A	941.54	59.7	881.84
E-03	1/29/2004	A	941.54	46.7	894.84
E-03	4/30/2004	A	941.54	47.2	894.34
E-03	7/30/2004	A	941.54	56.4	885.14
E-03	11/2/2004	A	941.54	52.3	889.24
E-03	1/28/2005	A	941.54	45.75	895.79
E-03	5/6/2005	A	941.54	46.2	895.34

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
E-03	7/27/2005	A	941.54	51.7	889.84
E-03	10/28/2005	A	941.54	58.1	883.44
E-03	1/27/2006	A	941.54	45.5	896.04
E-03	5/4/2006	A	941.54	46.7	894.84
E-03	7/27/2006	A	941.54	54	887.54
E-03	10/31/2006	A	941.54	49.8	891.74
E-03	1/30/2007	A	941.54	46.85	894.69
E-03	5/1/2007	A	941.54	50	891.54
E-03	8/1/2007	A	941.54	56.25	885.29
E-03	10/10/2007	A	941.54	57.16	884.38
E-03	1/7/2008	A	941.54	48.99	892.55
E-03	4/14/2008	A	941.54	48.2	893.34
E-03	8/4/2008	A	941.54	91.49	850.05
E-03	11/17/2008	A	941.54	52.77	888.77
E-03	2/16/2009	A	942.9	48.18	894.72
E-03	5/18/2009	A	942.9	49.25	893.65
E-03	8/24/2009	A	942.9	56.65	886.25
E-03	11/18/2009	A	942.9	54.87	888.03
E-03	2/4/2010	A	942.9	47.75	895.15
E-03	5/7/2010	A	942.9	51.11	891.79
E-03	8/23/2010	A	942.9	53.8	889.1
E-03	11/29/2010	A	942.9	50	892.9
E-03	2/3/2011	A	942.9	47.2	895.7
E-03	5/3/2011	A	942.9	48.78	894.12
E-03	8/1/2011	A	942.9	56.65	886.25
E-03	11/2/2011	A	942.9	54.9	888
E-03	2/1/2012	A	942.547	51.05	891.497
E-03	5/1/2012	A	942.547	51.39	891.157
E-03	8/3/2012	A	942.547	58.32	884.227
E-03	11/1/2012	A	942.547	55.93	886.617
E-03	2/4/2013	A	942.547	63.3	879.247
E-03	5/1/2013	A	942.547	65.3	877.247
E-03	8/6/2013	A	942.9	60.56	882.34
E-03	11/4/2013	A	942.9	58	884.9
E-04	4/3/1990	A	940.07	43.54	896.53
E-04	4/18/1990	A	940.07	43.14	896.93
E-04	5/22/1990	A	940.07	42.39	897.68
E-04	7/17/1990	A	940.07	45.74	894.33
E-04	8/16/1990	A	940.07	45.94	894.13
E-04	9/22/1990	A	940.07	42.14	897.93
E-04	10/17/1990	A	940.07	41.14	898.93
E-04	11/24/1990	A	940.07	39.84	900.23
E-04	1/18/1991	A	940.07	40.24	899.83
E-04	2/16/1991	A	940.07	39.89	900.18
E-04	3/17/1991	A	940.07	39.94	900.13
E-04	4/22/1991	A	940.07	41.14	898.93
E-04	5/19/1991	A	940.07	40.54	899.53
E-04	6/19/1991	A	940.07	43.34	896.73
E-04	7/21/1991	A	940.07	47.14	892.93
E-04	8/18/1991	A	940.07	48.29	891.78
E-04	9/24/1991	A	940.07	46.54	893.53
E-04	10/31/1991	A	940.07	44.29	895.78
E-04	11/17/1991	A	940.07	43.44	896.63

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
E-04	1/19/1992	A	940.07	40.49	899.58
E-04	2/23/1992	A	940.07	39.06	901.01
E-04	3/26/1992	A	940.07	38.65	901.42
E-04	4/22/1992	A	940.07	38.8	901.27
E-04	5/15/1992	A	940.07	39.25	900.82
E-04	7/31/1992	A	940.07	43.2	896.87
E-04	8/24/1992	A	940.07	42.6	897.47
E-04	10/7/1992	A	940.07	39.9	900.17
E-04	10/28/1992	A	940.07	39.4	900.67
E-04	11/23/1992	A	940.07	38.5	901.57
E-04	12/17/1992	A	940.07	37.9	902.17
E-04	2/4/1993	A	940.07	35	905.07
E-04	3/10/1993	A	940.07	33.4	906.67
E-04	4/15/1993	A	940.07	35	905.07
E-04	5/18/1993	A	940.07	33	907.07
E-04	6/11/1993	A	940.07	36.5	903.57
E-04	6/22/1993	A	940.07	36.8	903.27
E-04	7/13/1993	A	940.07	39	901.07
E-04	8/9/1993	A	940.07	40.5	899.57
E-04	9/24/1993	A	940.07	38.6	901.47
E-04	10/28/1993	A	940.07	37	903.07
E-04	11/24/1993	A	940.07	36.5	903.57
E-04	12/14/1993	A	940.07	36	904.07
E-04	1/28/1994	A	940.07	36.3	903.77
E-04	2/25/1994	A	940.07	38.8	901.27
E-04	3/21/1994	A	940.07	37.4	902.67
E-04	4/27/1994	A	940.07	39.3	900.77
E-04	5/26/1994	A	940.07	39	901.07
E-04	6/3/1994	A	940.07	38.9	901.17
E-04	7/21/1994	A	940.07	44.4	895.67
E-04	8/25/1994	A	940.07	47.4	892.67
E-04	9/23/1994	A	940.07	44.1	895.97
E-04	10/12/1994	A	940.07	42.9	897.17
E-04	11/18/1994	A	940.07	40.8	899.27
E-04	12/30/1994	A	940.07	39.5	900.57
E-04	1/30/1995	A	940.07	38	902.07
E-04	2/23/1995	A	940.07	37.5	902.57
E-04	3/30/1995	A	940.07	37.5	902.57
E-04	4/21/1995	A	940.07	38.6	901.47
E-04	5/26/1995	A	940.07	38	902.07
E-04	6/23/1995	A	940.07	40.35	899.72
E-04	7/27/1995	A	940.07	45	895.07
E-04	8/30/1995	A	940.07	43.92	896.15
E-04	9/29/1995	A	940.07	41.98	898.09
E-04	10/27/1995	A	940.07	40.45	899.62
E-04	11/29/1995	A	940.07	38.93	901.14
E-04	12/30/1995	A	940.07	38.8	901.27
E-04	1/31/1996	A	940.07	38.2	901.87
E-04	2/20/1996	A	940.07	38.01	902.06
E-04	3/30/1996	A	940.07	39.15	900.92
E-04	4/30/1996	A	940.07	40.8	899.27
E-04	5/31/1996	A	940.07	40.6	899.47
E-04	6/28/1996	A	940.07	44.1	895.97

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
E-04	7/31/1996	A	940.07	46.75	893.32
E-04	8/30/1996	A	940.07	47.85	892.22
E-04	9/28/1996	A	940.07	44.45	895.62
E-04	10/30/1996	A	940.07	42.88	897.19
E-04	1/16/1997	A	940.07	40.3	899.77
E-04	4/30/1997	A	940.07	42.8	897.27
E-04	7/29/1997	A	940.07	47.97	892.1
E-04	1/30/1998	A	940.07	42.1	897.97
E-04	5/8/1998	A	940.07	41.4	898.67
E-04	7/30/1998	A	940.07	43.25	896.82
E-04	10/29/1998	A	940.07	40.9	899.17
E-04	1/29/1999	A	940.07	40.1	899.97
E-04	4/29/1999	A	940.07	41.85	898.22
E-04	8/5/1999	A	940.07	46.95	893.12
E-04	10/14/1999	A	940.07	45.4	894.67
E-04	2/9/2000	A	940.07	41.13	898.94
E-04	5/3/2000	A	940.07	42.1	897.97
E-04	8/3/2000	A	940.07	48.75	891.32
E-04	10/25/2000	A	940.07	47.6	892.47
E-04	2/1/2001	A	940.07	41.77	898.3
E-04	5/25/2001	A	940.07	42.4	897.67
E-04	8/1/2001	A	940.07	48.3	891.77
E-04	10/31/2001	A	940.07	46.9	893.17
E-04	2/1/2002	A	940.07	43.3	896.77
E-04	5/14/2002	A	940.07	44.75	895.32
E-04	8/1/2002	A	940.07	51.42	888.65
E-04	11/1/2002	A	940.07	50.2	889.87
E-04	1/31/2003	A	940.07	45.3	894.77
E-04	5/1/2003	A	940.07	45.5	894.57
E-04	8/8/2003	A	940.07	50.9	889.17
E-04	10/30/2003	A	940.07	50.3	889.77
E-04	1/29/2004	A	940.07	45.9	894.17
E-04	4/30/2004	A	940.07	45.8	894.27
E-04	7/30/2004	A	940.07	51.8	888.27
E-04	11/2/2004	A	940.07	51.9	888.17
E-04	1/28/2005	A	940.07	45.9	894.17
E-04	5/6/2005	A	940.07	44.7	895.37
E-04	7/27/2005	A	940.07	49	891.07
E-04	10/28/2005	A	940.07	47.3	892.77
E-04	1/27/2006	A	940.07	44.7	895.37
E-04	5/4/2006	A	940.07	44.9	895.17
E-04	7/27/2006	A	940.07	50.3	889.77
E-04	10/31/2006	A	940.07	48.8	891.27
E-04	1/31/2007	A	940.07	45.8	894.27
E-04	5/1/2007	A	940.07	47.8	892.27
E-04	8/1/2007	A	940.07	52.6	887.47
E-04	10/9/2007	A	940.07	54.58	885.49
E-04	1/7/2008	A	940.07	50.03	890.04
E-04	4/14/2008	A	940.07	47.1	892.97
E-04	8/4/2008	A	940.07	51.89	888.18
E-04	11/17/2008	A	940.07	52.18	887.89
E-04	2/16/2009	A	940.07	47.76	892.31
E-04	5/18/2009	A	940.07	48.3	891.77

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
E-04	8/24/2009	A	942.13	53	889.13
E-04	11/17/2009	A	942.13	53.55	888.58
E-04	2/2/2010	A	942.13	49.45	892.68
E-04	5/6/2010	A	942.13	46.47	895.66
E-04	8/23/2010	A	942.13	50.79	891.34
E-04	11/29/2010	A	942.13	49.5	892.63
E-04	2/3/2011	A	942.13	46.6	895.53
E-04	5/3/2011	A	942.13	47.7	894.43
E-04	8/1/2011	A	942.13	52.8	889.33
E-04	11/2/2011	A	942.13	54.04	888.09
E-04	2/1/2012	A	941.341	50.5	890.841
E-04	5/1/2012	A	941.341	12.7	928.641
E-04	8/3/2012	A	941.341	54.49	886.851
E-04	11/1/2012	A	941.341	55.02	886.321
E-04	2/4/2013	A	941.341	51.02	890.321
E-04	5/1/2013	A	941.341	50.73	890.611
E-04	8/6/2013	A	942.13	56.85	885.28
E-04	11/4/2013	A	942.13	56.74	885.39
E-07	3/30/1992	A	957.56	52.7	904.86
E-07	4/22/1992	A	957.56	52.1	905.46
E-07	5/14/1992	A	957.56	52.15	905.41
E-07	7/29/1992	A	957.56	52.7	904.86
E-07	1/5/1993	A	957.56	54.4	903.16
E-07	1/12/1993	A	957.56	54.2	903.36
E-07	1/26/1993	A	957.56	53.1	904.46
E-07	2/2/1993	A	957.56	53.3	904.26
E-07	2/4/1993	A	957.56	52.8	904.76
E-07	2/16/1993	A	957.56	51.5	906.06
E-07	2/23/1993	A	957.56	50.3	907.26
E-07	3/9/1993	A	957.56	51.6	905.96
E-07	3/15/1993	A	957.56	52.25	905.31
E-07	3/25/1993	A	957.56	51.2	906.36
E-07	3/30/1993	A	957.56	49.7	907.86
E-07	4/6/1993	A	957.56	50	907.56
E-07	4/13/1993	A	957.56	49.6	907.96
E-07	4/20/1993	A	957.56	49.5	908.06
E-07	5/20/1993	A	957.56	49.8	907.76
E-07	5/25/1993	A	957.56	49.4	908.16
E-07	6/1/1993	A	957.56	49.2	908.36
E-07	7/14/1993	A	957.56	49.5	908.06
E-07	7/20/1993	A	957.56	48.8	908.76
E-07	7/27/1993	A	957.56	49.4	908.16
E-07	8/3/1993	A	957.56	49	908.56
E-07	8/10/1993	A	957.56	49.9	907.66
E-07	1/11/1994	A	957.56	45.8	911.76
E-07	2/24/1995	A	957.56	77.7	879.86
E-07R	12/20/1993	A	954.66	59.7	894.96
E-07R	2/15/1994	A	954.66	78.5	876.16
E-07R	3/4/1994	A	954.66	78.8	875.86
E-07R	3/27/1994	A	954.66	82.7	871.96
E-07R	3/31/1994	A	954.66	76.7	877.96
E-07R	4/14/1994	A	954.66	80.4	874.26
E-07R	5/26/1994	A	954.66	83.4	871.26

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
E-07R	6/3/1994	A	954.66	47.1	907.56
E-07R	7/22/1994	A	954.66	65	889.66
E-07R	8/25/1994	A	954.66	78.3	876.36
E-07R	9/22/1994	A	954.66	50	904.66
E-07R	10/11/1994	A	954.66	76.3	878.36
E-07R	11/18/1994	A	954.66	97.6	857.06
E-07R	12/30/1994	A	954.66	80.6	874.06
E-07R	1/31/1995	A	954.66	99	855.66
E-07R	3/31/1995	A	957.56	68.5	889.06
E-07R	10/27/1995	A	954.66	69.38	885.28
E-07R	11/28/1995	A	954.66	72.9	881.76
E-07R	12/30/1995	A	954.66	64.6	890.06
E-07R	1/31/1996	A	954.66	64.1	890.56
E-07R	2/20/1996	A	954.66	67.5	887.16
E-07R	3/30/1996	A	954.66	67	887.66
E-07R	4/29/1996	A	954.66	88.7	865.96
E-07R	5/31/1996	A	954.66	95.6	859.06
E-07R	6/28/1996	A	954.66	76.5	878.16
E-07R	7/31/1996	A	954.66	74	880.66
E-07R	8/30/1996	A	954.66	71.5	883.16
E-07R	9/28/1996	A	954.66	78.9	875.76
E-07R	10/30/1996	A	954.66	82.25	872.41
E-07R	1/15/1997	A	954.66	84.55	870.11
E-07R	4/29/1997	A	954.66	79.6	875.06
E-07R	7/31/1997	A	954.66	70.6	884.06
E-07R	1/29/1998	A	954.66	71.35	883.31
E-07R	5/8/1998	A	954.66	66.6	888.06
E-07R	7/29/1998	A	954.66	65.75	888.91
E-07R	10/29/1998	A	954.66	53.2	901.46
E-07R	1/28/1999	A	954.66	54.9	899.76
E-07R	4/28/1999	A	954.66	55.55	899.11
E-07R	8/4/1999	A	954.66	54.2	900.46
E-07R	10/13/1999	A	954.66	58.5	896.16
E-07R	2/9/2000	A	954.66	57.9	896.76
E-07R	5/2/2000	A	954.66	57.5	897.16
E-07R	8/2/2000	A	954.66	60.1	894.56
E-07R	10/25/2000	A	954.66	59.6	895.06
E-07R	1/31/2001	A	954.66	60	894.66
E-07R	5/24/2001	A	954.66	58.2	896.46
E-07R	7/31/2001	A	954.66	62.1	892.56
E-07R	10/30/2001	A	954.66	62	892.66
E-07R	1/31/2002	A	954.66	62	892.66
E-07R	5/14/2002	A	954.66	81.7	872.96
E-07R	7/31/2002	A	954.66	58.6	896.06
E-07R	10/31/2002	A	954.66	57.4	897.26
E-07R	1/30/2003	A	954.66	69.8	884.86
E-07R	4/29/2003	A	954.66	70.25	884.41
E-07R	8/8/2003	A	954.66	84.3	870.36
E-07R	10/29/2003	A	954.66	57.7	896.96
E-07R	1/28/2004	A	954.66	72.1	882.56
E-07R	4/30/2004	A	954.66	57.1	897.56
E-07R	7/30/2004	A	954.66	57.2	897.46
E-07R	11/2/2004	A	954.66	71	883.66

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
E-07R	1/28/2005	A	954.66	72.3	882.36
E-07R	5/5/2005	A	954.66	75.3	879.36
E-07R	7/26/2005	A	954.66	57.3	897.36
E-07R	10/27/2005	A	954.66	71.1	883.56
E-07R	1/27/2006	A	954.66	76.2	878.46
E-07R	5/3/2006	A	954.66	56	898.66
E-07R	7/26/2006	A	954.66	55.9	898.76
E-07R	10/31/2006	A	954.66	81.45	873.21
E-07R	1/29/2007	A	954.66	85.8	868.86
E-07R	5/2/2007	A	954.66	64	890.66
E-07R	7/31/2007	A	954.66	96.6	858.06
E-07R	10/8/2007	A	954.66	107.04	847.62
E-07R	8/1/2008	A	954.66	89.9	864.76
E-07R	11/18/2008	A	954.66	87.3	867.36
E-07R	8/24/2010	A	959.93	62.72	897.21
E-07R	11/29/2010	A	959.93	63.41	896.52
E-07R	2/3/2011	A	959.93	61.25	898.68
E-07R	5/2/2011	A	959.93	63.06	896.87
E-07R	8/1/2011	A	959.93	72.85	887.08
E-07R	11/2/2011	A	959.93	73.97	885.96
E-07R	2/1/2012	A	959.378	73.95	885.428
E-07R	5/1/2012	A	959.378	73.82	885.558
E-08	3/30/1992	A	955.95	49.95	906
E-08	4/22/1992	A	955.95	49.45	906.5
E-08	5/14/1992	A	955.95	49.2	906.75
E-08	7/23/1992	A	955.95	49.4	906.55
E-08	7/29/1992	A	955.95	49.4	906.55
E-08	1/12/1993	A	955.95	55	900.95
E-08	1/26/1993	A	955.95	57.3	898.65
E-08	1/29/1993	A	955.95	57.5	898.45
E-08	2/2/1993	A	955.95	58.8	897.15
E-08	2/4/1993	A	955.95	58.1	897.85
E-08	2/16/1993	A	955.95	57.3	898.65
E-08	5/20/1993	A	955.95	50	905.95
E-08	5/25/1993	A	955.95	49.3	906.65
E-08	6/1/1993	A	955.95	49	906.95
E-08	7/14/1993	A	955.95	52.6	903.35
E-08	7/20/1993	A	955.95	53.5	902.45
E-08	9/28/1993	A	955.95	53.5	902.45
E-08	10/5/1993	A	955.95	55	900.95
E-08	10/19/1993	A	955.95	55.8	900.15
E-08	10/26/1993	A	955.95	55.8	900.15
E-08	11/2/1993	A	955.95	56.5	899.45
E-08	11/9/1993	A	955.95	56.6	899.35
E-08	11/16/1993	A	955.95	56.5	899.45
E-08	11/30/1993	A	955.95	56	899.95
E-08	12/20/1993	A	955.95	55.3	900.65
E-08	2/15/1994	A	955.95	55.6	900.35
E-08	3/4/1994	A	955.95	55	900.95
E-08	3/27/1994	A	955.95	45.7	910.25
E-08	3/31/1994	A	955.95	54.9	901.05
E-08	4/14/1994	A	955.95	56.3	899.65
E-08	5/26/1994	A	955.95	73.2	882.75

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
E-08	6/3/1994	A	955.95	56.4	899.55
E-08	7/22/1994	A	955.95	60.7	895.25
E-08	8/25/1994	A	955.95	66.7	889.25
E-08	9/22/1994	A	955.95	50.2	905.75
E-08	10/11/1994	A	955.95	69.6	886.35
E-08	11/18/1994	A	955.95	62.5	893.45
E-08	12/30/1994	A	955.95	69.6	886.35
E-08	1/31/1995	A	955.95	77.8	878.15
E-08	2/24/1995	A	955.95	72.8	883.15
E-08	3/30/1995	A	955.95	48.8	907.15
E-08	10/27/1995	A	955.95	49.97	905.98
E-08	11/28/1995	A	955.95	49.84	906.11
E-08	12/30/1995	A	955.95	49.62	906.33
E-08	1/31/1996	A	955.95	49.57	906.38
E-08	2/20/1996	A	955.95	49.52	906.43
E-08	3/30/1996	A	955.95	49.6	906.35
E-08	4/29/1996	A	955.95	50.28	905.67
E-08	5/31/1996	A	955.95	50.6	905.35
E-08	6/28/1996	A	955.95	51.12	904.83
E-08	7/31/1996	A	955.95	52.13	903.82
E-08	8/30/1996	A	955.95	53.05	902.9
E-08	9/28/1996	A	955.95	53.13	902.82
E-08	10/29/1996	A	955.95	53.01	902.94
E-08	1/15/1997	A	955.95	51.85	904.1
E-08	4/29/1997	A	955.95	52.28	903.67
E-08	7/29/1997	A	955.95	55.39	900.56
E-08	1/29/1998	A	955.95	54.7	901.25
E-08	5/8/1998	A	955.95	53	902.95
E-08	7/28/1998	A	955.95	52.45	903.5
E-08	10/29/1998	A	955.95	52	903.95
E-08	1/28/1999	A	955.95	51.8	904.15
E-08	4/28/1999	A	955.95	52.73	903.22
E-08	8/4/1999	A	955.95	54.8	901.15
E-08	10/13/1999	A	955.95	54.9	901.05
E-08	2/9/2000	A	955.95	53.97	901.98
E-08	5/2/2000	A	955.95	68.8	887.15
E-08	8/2/2000	A	955.95	66.35	889.6
E-08	10/25/2000	A	955.95	70.77	885.18
E-08	1/31/2001	A	955.95	68.8	887.15
E-08	5/24/2001	A	955.95	76.6	879.35
E-08	7/31/2001	A	955.95	60.9	895.05
E-08	1/31/2002	A	955.95	47.25	908.7
E-08	5/14/2002	A	955.95	61.2	894.75
E-08	7/31/2002	A	955.95	60.4	895.55
E-08	10/31/2002	A	955.95	58.5	897.45
E-08	1/30/2003	A	955.95	57.5	898.45
E-08	4/29/2003	A	955.95	62.2	893.75
E-08	8/7/2003	A	955.95	63	892.95
E-08	10/29/2003	A	955.95	65.55	890.4
E-08	1/28/2004	A	955.95	69.55	886.4
E-08	4/28/2004	A	955.95	71.55	884.4
E-08	7/30/2004	A	955.95	58.7	897.25
E-08	11/2/2004	A	955.95	60.45	895.5

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
E-08	1/27/2005	A	955.95	59.7	896.25
E-08	5/5/2005	A	955.95	58	897.95
E-08	7/26/2005	A	955.95	57.85	898.1
E-08	10/27/2005	A	955.95	57.3	898.65
E-08	1/27/2006	A	955.95	56.7	899.25
E-08	5/2/2006	A	955.95	56.9	899.05
E-08	7/25/2006	A	955.95	57.5	898.45
E-08	10/30/2006	A	955.95	58.5	897.45
E-08	1/29/2007	A	955.95	58.3	897.65
E-08	5/2/2007	A	955.95	58.9	897.05
E-08	7/31/2007	A	955.95	61.3	894.65
E-08	10/10/2007	A	955.95	62.35	893.6
E-10	3/30/1992	A	957.56	51.5	906.06
E-10	4/22/1992	A	957.56	50.8	906.76
E-10	5/14/1992	A	957.56	50.55	907.01
E-10	7/23/1992	A	957.56	50.5	907.06
E-10	7/29/1992	A	957.56	50.6	906.96
E-10	1/12/1993	A	957.56	56.8	900.76
E-10	1/26/1993	A	957.56	62.2	895.36
E-10	1/29/1993	A	957.56	62.1	895.46
E-10	2/2/1993	A	957.56	62.7	894.86
E-10	2/4/1993	A	957.56	65.5	892.06
E-10	2/16/1993	A	957.56	54.6	902.96
E-10	2/23/1993	A	957.56	56.4	901.16
E-10	3/9/1993	A	957.56	55.4	902.16
E-10	3/15/1993	A	957.56	55.13	902.43
E-10	3/25/1993	A	957.56	53.5	904.06
E-10	3/30/1993	A	957.56	54.5	903.06
E-10	4/6/1993	A	957.56	55	902.56
E-10	4/13/1993	A	957.56	53.2	904.36
E-10	4/20/1993	A	957.56	53.8	903.76
E-10	5/18/1993	A	957.56	46	911.56
E-10	5/25/1993	A	957.56	55.8	901.76
E-10	6/1/1993	A	957.56	56.4	901.16
E-10	6/10/1993	A	957.56	45.2	912.36
E-10	7/14/1993	A	957.56	57.5	900.06
E-10	7/20/1993	A	957.56	56	901.56
E-10	7/27/1993	A	957.56	58.2	899.36
E-10	8/3/1993	A	957.56	59.8	897.76
E-10	8/10/1993	A	957.56	59.8	897.76
E-10	8/11/1993	A	957.56	58	899.56
E-10	8/17/1993	A	957.56	47.4	910.16
E-10	8/24/1993	A	957.56	47	910.56
E-10	9/21/1993	A	957.56	53	904.56
E-10	9/24/1993	A	957.56	54.5	903.06
E-10	9/28/1993	A	957.56	55.3	902.26
E-10	10/5/1993	A	957.56	56	901.56
E-10	10/19/1993	A	957.56	58.3	899.26
E-10	10/26/1993	A	957.56	59.8	897.76
E-10	10/28/1993	A	957.56	54.4	903.16
E-10	11/2/1993	A	957.56	57.1	900.46
E-10	11/9/1993	A	957.56	55.6	901.96
E-10	11/16/1993	A	957.56	53.7	903.86

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
E-10	11/24/1993	A	957.56	53.8	903.76
E-10	11/30/1993	A	957.56	54.2	903.36
E-10	12/14/1993	A	957.56	46.2	911.36
E-10	12/20/1993	A	957.56	53.3	904.26
E-10	1/28/1994	A	957.56	54.1	903.46
E-10	2/15/1994	A	957.56	50.4	907.16
E-10	2/25/1994	A	957.56	49	908.56
E-10	3/4/1994	A	957.56	48.5	909.06
E-10	3/23/1994	A	957.56	48	909.56
E-10	3/27/1994	A	957.56	48.2	909.36
E-10	3/31/1994	A	957.56	54	903.56
E-10	4/14/1994	A	957.56	73.3	884.26
E-10	4/27/1994	A	957.56	55	902.56
E-10	5/27/1994	A	957.56	51	906.56
E-10	6/3/1994	A	957.56	54.4	903.16
E-10	7/22/1994	A	957.56	56.4	901.16
E-10	8/25/1994	A	957.56	58.3	899.26
E-10	9/22/1994	A	957.56	68	889.56
E-10	10/11/1994	A	957.56	51.2	906.36
E-10	11/18/1994	A	957.56	51.6	905.96
E-10	12/29/1994	A	957.56	50.3	907.26
E-10	1/31/1995	A	957.56	84.6	872.96
E-10	2/24/1995	A	957.56	84.6	872.96
E-10	3/31/1995	A	957.56	57.7	899.86
E-10	4/21/1995	A	957.56	62.2	895.36
E-10	5/26/1995	A	957.56	65.7	891.86
E-10	6/23/1995	A	957.56	80.75	876.81
E-10	7/27/1995	A	957.56	81.4	876.16
E-10	8/30/1995	A	957.56	84.35	873.21
E-10	9/29/1995	A	957.56	24.5	933.06
E-10	10/27/1995	A	957.56	83.88	873.68
E-10	11/28/1995	A	957.56	42.53	915.03
E-10	12/30/1995	A	957.56	65.75	891.81
E-101	4/4/1995	C	954.45	84	870.45
E-101	4/10/1995	C	954.45	78	876.45
E-101	4/17/1995	C	954.45	78	876.45
E-101	4/24/1995	C	954.45	76	878.45
E-101	5/1/1995	C	954.45	77	877.45
E-101	5/16/1995	C	954.45	74	880.45
E-101	5/22/1995	C	954.45	75	879.45
E-101	5/30/1995	C	954.45	77	877.45
E-101	6/5/1995	C	954.45	78	876.45
E-101	6/12/1995	C	954.45	82	872.45
E-101	6/19/1995	C	954.45	82	872.45
E-101	6/26/1995	C	954.45	84	870.45
E-101	7/7/1995	C	954.45	63.8	890.65
E-101	7/21/1995	C	954.45	89	865.45
E-101	7/28/1995	C	954.45	94	860.45
E-101	8/2/1995	C	954.45	90	864.45
E-101	8/11/1995	C	954.45	100	854.45
E-101	8/15/1995	C	954.45	90	864.45
E-101	8/23/1995	C	954.45	88	866.45
E-101	8/31/1995	C	954.45	90	864.45

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
E-101	9/6/1995	C	954.45	89	865.45
E-101	9/13/1995	C	954.45	83	871.45
E-101	9/22/1995	C	954.45	80	874.45
E-101	9/28/1995	C	954.45	78	876.45
E-101	10/6/1995	C	954.45	76	878.45
E-101	10/31/1995	C	954.45	75	879.45
E-101	11/30/1995	C	954.45	74	880.45
E-101	12/30/1995	C	954.45	73	881.45
E-101	1/8/1996	C	954.45	73	881.45
E-101	2/19/1996	C	954.45	57	897.45
E-101	3/11/1996	C	954.45	59	895.45
E-101	4/8/1996	C	954.45	62	892.45
E-101	5/13/1996	C	954.45	65	889.45
E-101	6/30/1996	C	954.45	66	888.45
E-101	7/14/1996	C	954.45	73	881.45
E-101	8/12/1996	C	954.45	75	879.45
E-101	9/2/1996	C	954.45	78	876.45
E-101	10/28/1996	C	954.45	54	900.45
E-101	1/16/1997	C	954.45	51	903.45
E-101	4/28/1997	C	954.45	60	894.45
E-101	7/29/1997	C	954.45	68	886.45
E-101	10/20/1997	C	954.45	55	899.45
E-101	1/29/1998	C	954.45	52	902.45
E-101	5/1/1998	C	954.45	59	895.45
E-101	7/27/1998	C	954.45	60	894.45
E-101	11/5/1998	C	954.45	55	899.45
E-101	1/22/1999	C	954.45	56	898.45
E-101	5/7/1999	C	954.45	59	895.45
E-101	8/4/1999	C	954.45	65	889.45
E-101	10/12/1999	C	954.45	59	895.45
E-101	2/10/2000	C	954.45	54	900.45
E-101	5/2/2000	C	954.45	55	899.45
E-101	8/3/2000	C	954.45	65	889.45
E-101	10/20/2000	C	954.45	58	896.45
E-101	2/1/2001	C	954.45	49	905.45
E-101	5/24/2001	C	954.45	57	897.45
E-101	7/31/2001	C	954.45	64	890.45
E-101	10/30/2001	C	954.45	57	897.45
E-101	2/1/2002	C	954.45	55.4	899.05
E-101	5/14/2002	C	954.45	62	892.45
E-101	7/30/2002	C	954.45	77.9	876.55
E-101	10/30/2002	C	954.45	64	890.45
E-101	1/30/2003	C	954.45	60.8	893.65
E-101	4/30/2003	C	954.45	62.3	892.15
E-101	8/8/2003	C	954.45	70.1	884.35
E-101	10/28/2003	C	954.45	66.8	887.65
E-101	1/28/2004	C	954.45	69.5	884.95
E-101	4/28/2004	C	954.45	67.5	886.95
E-101	7/29/2004	C	954.45	73	881.45
E-101	11/1/2004	C	954.45	67.8	886.65
E-101	1/27/2005	C	954.45	59.2	895.25
E-101	5/6/2005	C	954.45	60.5	893.95
E-101	7/28/2005	C	954.45	73.5	880.95

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
E-101	10/27/2005	C	954.45	61	893.45
E-101	1/27/2006	C	954.45	59.8	894.65
E-101	5/3/2006	C	954.45	63.3	891.15
E-101	7/26/2006	C	954.45	73	881.45
E-101	10/30/2006	C	954.45	63.7	890.75
E-101	1/31/2007	C	954.45	60.5	893.95
E-101	5/1/2007	C	954.45	70.45	884
E-101	7/31/2007	C	954.45	74	880.45
E-102	10/28/2003	C	976.35	87.4	888.95
E-102	1/29/2004	C	976.35	82.65	893.7
E-102	4/28/2004	C	976.35	87.35	889
E-102	7/30/2004	C	976.35	100.6	875.75
E-102	11/2/2004	C	976.35	90.63	885.72
E-102	1/27/2005	C	976.35	106.85	869.5
E-102	5/5/2005	C	976.35	102.13	874.22
E-102	7/27/2005	C	976.35	108.2	868.15
E-102	10/27/2005	C	976.35	94.8	881.55
E-102	1/26/2006	C	976.35	99.05	877.3
E-102	5/2/2006	C	976.35	101.35	875
E-102	7/25/2006	C	976.35	112.2	864.15
E-102	10/30/2006	C	976.35	106.2	870.15
E-102	1/29/2007	C	976.35	100.05	876.3
E-102	4/30/2007	C	976.35	106.4	869.95
E-102	7/31/2007	C	976.35	114	862.35
E-102	10/10/2007	C	976.35	111	865.35
E-102	4/14/2008	C	977.05	108.67	868.38
E-102	8/10/2008	C	977.05	96.1	880.95
E-102	11/17/2008	C	957.56	111.84	845.72
E-102	2/16/2009	C	979.35	108	871.35
E-102	5/14/2009	C	979.35	112.7	866.65
E-102	8/24/2009	C	979.35	110.1	869.25
E-102	9/21/2009	C	979.35	119.6	859.75
E-102	2/1/2010	C	979.35	16	963.35
E-102	5/2/2011	C	979.35	108.82	870.53
E-11	2/23/1993	A	950.08	54.4	895.68
E-11	3/9/1993	A	950.08	50	900.08
E-11	3/15/1993	A	950.08	50	900.08
E-11	3/25/1993	A	950.08	49.9	900.18
E-11	3/30/1993	A	950.08	49.6	900.48
E-11	4/6/1993	A	950.08	50	900.08
E-11	4/13/1993	A	950.08	50	900.08
E-11	4/20/1993	A	950.08	50.6	899.48
E-11	5/20/1993	A	950.08	50	900.08
E-11	5/25/1993	A	950.08	50.6	899.48
E-11	6/1/1993	A	950.08	50.6	899.48
E-11	7/13/1993	A	950.08	52.3	897.78
E-11	7/20/1993	A	950.08	52.9	897.18
E-11	7/27/1993	A	950.08	53.1	896.98
E-11	8/3/1993	A	950.08	53.7	896.38
E-11	8/10/1993	A	950.08	53.7	896.38
E-11	8/17/1993	A	950.08	53.8	896.28
E-11	8/24/1993	A	950.08	54.8	895.28
E-11	8/31/1993	A	950.08	53.8	896.28

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
E-11	9/21/1993	A	950.08	53	897.08
E-11	9/28/1993	A	950.08	52.9	897.18
E-11	10/5/1993	A	950.08	53	897.08
E-11	10/19/1993	A	950.08	52	898.08
E-11	10/26/1993	A	950.08	51.8	898.28
E-11	11/2/1993	A	950.08	51.7	898.38
E-11	11/9/1993	A	950.08	51.5	898.58
E-11	11/16/1993	A	950.08	51.6	898.48
E-11	11/30/1993	A	950.08	51.5	898.58
E-11	12/20/1993	A	950.08	50.2	899.88
E-11	2/15/1994	A	950.08	51.3	898.78
E-11	3/4/1994	A	950.08	52	898.08
E-11	3/27/1994	A	950.08	52.8	897.28
E-11	3/31/1994	A	950.08	42.4	907.68
E-11	4/13/1994	A	950.08	54.2	895.88
E-11	5/26/1994	A	950.08	61.4	888.68
E-11	6/3/1994	A	950.08	61.7	888.38
E-11	7/22/1994	A	950.08	68.6	881.48
E-11	7/22/1994	A	950.08	68.6	881.48
E-11	8/25/1994	A	950.08	81.5	868.58
E-11	9/23/1994	A	950.08	74.1	875.98
E-11	10/11/1994	A	950.08	74.6	875.48
E-11	11/18/1994	A	950.08	71.5	878.58
E-11	12/29/1994	A	950.08	78	872.08
E-11	1/31/1995	A	950.08	72.9	877.18
E-11	2/24/1995	A	950.08	76	874.08
E-11	3/31/1995	A	950.08	57.1	892.98
E-11	10/27/1995	A	950.08	57.35	892.73
E-11	11/29/1995	A	950.08	56.79	893.29
E-11	12/30/1995	A	950.08	56.25	893.83
E-11	1/31/1996	A	950.08	55.75	894.33
E-11	2/20/1996	A	950.08	56.3	893.78
E-11	3/30/1996	A	950.08	57	893.08
E-11	4/30/1996	A	950.08	59.1	890.98
E-11	5/31/1996	A	950.08	58	892.08
E-11	6/28/1996	A	950.08	61.9	888.18
E-11	7/31/1996	A	950.08	62.7	887.38
E-11	8/30/1996	A	950.08	63.75	886.33
E-11	9/28/1996	A	950.08	61	889.08
E-11	10/30/1996	A	950.08	60.4	889.68
E-11	1/16/1997	A	950.08	57.45	892.63
E-11	4/30/1997	A	950.08	56.22	893.86
E-11	7/29/1997	A	950.08	62.01	888.07
E-11	1/30/1998	A	950.08	57.3	892.78
E-11	5/8/1998	A	950.08	56	894.08
E-11	7/30/1998	A	950.08	57.8	892.28
E-11	10/29/1998	A	950.08	55.5	894.58
E-11	1/29/1999	A	950.08	55	895.08
E-11	4/29/1999	A	950.08	57	893.08
E-11	8/5/1999	A	950.08	62	888.08
E-11	10/14/1999	A	950.08	62.9	887.18
E-11	2/10/2000	A	950.08	57.7	892.38
E-11	5/3/2000	A	950.08	57.5	892.58

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
E-11	8/3/2000	A	950.08	64.75	885.33
E-11	10/25/2000	A	950.08	64	886.08
E-11	2/1/2001	A	950.08	58.8	891.28
E-11	5/25/2001	A	950.08	58.7	891.38
E-11	8/1/2001	A	950.08	52	898.08
E-11	10/31/2001	A	950.08	63.2	886.88
E-11	2/1/2002	A	950.08	60.7	889.38
E-11	5/14/2002	A	950.08	62.8	887.28
E-11	7/30/2002	A	950.08	69.1	880.98
E-11	11/1/2002	A	950.08	65.6	884.48
E-11	1/31/2003	A	950.08	62.5	887.58
E-11	5/1/2003	A	950.08	62.4	887.68
E-11	8/8/2003	A	950.08	68.5	881.58
E-11	10/30/2003	A	950.08	66.8	883.28
E-11	1/29/2004	A	950.08	62.6	887.48
E-11	4/30/2004	A	950.08	66.45	883.63
E-11	7/30/2004	A	950.08	73	877.08
E-11	11/2/2004	A	950.08	73.8	876.28
E-11	1/28/2005	A	950.08	62.2	887.88
E-11	5/6/2005	A	950.08	56.3	893.78
E-11	7/27/2005	A	950.08	66.8	883.28
E-11	10/28/2005	A	950.08	67	883.08
E-11	1/27/2006	A	950.08	65.3	884.78
E-11	5/4/2006	A	950.08	65	885.08
E-11	7/27/2006	A	950.08	56.5	893.58
E-11	10/31/2006	A	950.08	67	883.08
E-11	1/30/2007	A	950.08	64.5	885.58
E-11	5/1/2007	A	950.08	64.2	885.88
E-11	8/1/2007	A	950.08	79	871.08
E-11	10/9/2007	A	950.08	82.13	867.95
E-11	1/7/2008	A	950.08	57.78	892.3
E-11	4/14/2008	A	950.08	56.58	893.5
E-11	8/4/2008	A	950.08	60.4	889.68
E-11	11/18/2008	A	977.05	75.75	901.3
E-11	2/16/2009	A	952.99	57.03	895.96
E-11	5/18/2009	A	952.99	57.3	895.69
E-11	8/24/2009	A	952.99	61	891.99
E-11	11/18/2009	A	952.99	69.38	883.61
E-11	2/1/2010	A	952.99	58.2	894.79
E-11	5/7/2010	A	952.99	54.25	898.74
E-11	8/23/2010	A	952.99	59.3	893.69
E-11	11/29/2010	A	952.99	57.85	895.14
E-11	2/3/2011	A	952.99	55.95	897.04
E-11	5/3/2011	A	952.99	55.95	897.04
E-11	8/1/2011	A	952.99	61.37	891.62
E-11	11/2/2011	A	952.99	62	890.99
E-11	2/1/2012	A	952.658	59.38	893.278
E-11	5/1/2012	A	952.658	59.33	893.328
E-11	8/3/2012	A	952.658	62.48	890.178
E-11	11/1/2012	A	952.658	62.68	889.978
E-11	2/4/2013	A	952.658	59.68	892.978
E-11	5/1/2013	A	952.658	59.64	893.018
E-11	8/6/2013	A	952.99	78.4	874.59

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
E-11	11/4/2013	A	952.99	64.58	888.41
E-12	3/30/1992	A	953.43	47.7	905.73
E-12	4/22/1992	A	953.43	57.35	896.08
E-12	5/15/1992	A	953.43	46.8	906.63
E-12	7/23/1992	A	953.43	47.4	906.03
E-12	7/29/1992	A	953.43	47.4	906.03
E-12	12/31/1992	A	953.43	49.9	903.53
E-12	1/12/1993	A	953.43	50	903.43
E-12	1/26/1993	A	953.43	63.5	889.93
E-12	2/2/1993	A	953.43	49.6	903.83
E-12	2/4/1993	A	953.43	49.5	903.93
E-12	2/16/1993	A	953.43	49.1	904.33
E-12	2/23/1993	A	953.43	48.6	904.83
E-12	3/9/1993	A	953.43	47.5	905.93
E-12	3/12/1993	A	953.43	48	905.43
E-12	3/15/1993	A	953.43	48	905.43
E-12	3/25/1993	A	953.43	47.4	906.03
E-12	3/30/1993	A	953.43	47.5	905.93
E-12	4/6/1993	A	953.43	48	905.43
E-12	4/13/1993	A	953.43	46.7	906.73
E-12	4/20/1993	A	953.43	46.5	906.93
E-12	5/20/1993	A	953.43	45.6	907.83
E-12	5/25/1993	A	953.43	45.6	907.83
E-12	6/1/1993	A	953.43	45.4	908.03
E-12	7/14/1993	A	953.43	45.2	908.23
E-12	7/20/1993	A	953.43	41.6	911.83
E-12	7/27/1993	A	953.43	45.5	907.93
E-12	8/3/1993	A	953.43	45.8	907.63
E-12	8/24/1993	A	953.43	47.8	905.63
E-12	8/31/1993	A	953.43	47.8	905.63
E-12	9/21/1993	A	953.43	48	905.43
E-12	9/28/1993	A	953.43	48	905.43
E-12	10/19/1993	A	953.43	48	905.43
E-12	10/26/1993	A	953.43	48.1	905.33
E-12	11/2/1993	A	953.43	48	905.43
E-12	11/9/1993	A	953.43	48	905.43
E-12	11/16/1993	A	953.43	48.3	905.13
E-12	11/30/1993	A	953.43	48.3	905.13
E-12	12/20/1993	A	953.43	47.8	905.63
E-12	2/15/1994	A	953.43	47.7	905.73
E-12	3/4/1994	A	953.43	47.6	905.83
E-12	3/27/1994	A	953.43	48	905.43
E-12	3/31/1994	A	953.43	48	905.43
E-12	4/14/1994	A	953.43	48.1	905.33
E-12	5/26/1994	A	953.43	47.8	905.63
E-12	6/3/1994	A	953.43	48.8	904.63
E-12	7/21/1994	A	953.43	56.2	897.23
E-12	8/25/1994	A	953.43	56.5	896.93
E-12	9/22/1994	A	953.43	47.5	905.93
E-12	10/11/1994	A	953.43	50	903.43
E-12	11/18/1994	A	953.43	55.1	898.33
E-12	12/29/1994	A	953.43	54.6	898.83
E-12	1/31/1995	A	953.43	54.9	898.53

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
E-12	2/24/1995	A	953.43	57.1	896.33
E-12	3/31/1995	A	953.43	55.1	898.33
E-12	10/27/1995	A	953.43	67.6	885.83
E-12	11/28/1995	A	953.43	66.3	887.13
E-12	12/30/1995	A	953.43	67	886.43
E-12	1/31/1996	A	953.43	73	880.43
E-12	2/20/1996	A	953.43	71	882.43
E-12	3/30/1996	A	953.43	67.5	885.93
E-12	4/29/1996	A	953.43	77	876.43
E-12	5/31/1996	A	953.43	72.8	880.63
E-12	6/28/1996	A	953.43	74.6	878.83
E-12	7/31/1996	A	953.43	73.15	880.28
E-12	9/28/1996	A	953.43	72	881.43
E-12	10/29/1996	A	953.43	61.4	892.03
E-12	1/15/1997	A	953.43	74	879.43
E-12	4/29/1997	A	953.43	68	885.43
E-12	7/29/1997	A	953.43	53.55	899.88
E-12	1/29/1998	A	953.43	53.5	899.93
E-12	5/8/1998	A	953.43	53.5	899.93
E-12	7/28/1998	A	953.43	53.5	899.93
E-12	10/29/1998	A	953.43	53.4	900.03
E-12	1/28/1999	A	953.43	53.45	899.98
E-12	4/28/1999	A	953.43	53.4	900.03
E-12	8/4/1999	A	953.43	52.45	900.98
E-12	10/14/1999	A	953.43	68.35	885.08
E-12	2/9/2000	A	953.43	69	884.43
E-12	5/2/2000	A	953.43	63.3	890.13
E-12	8/2/2000	A	953.43	72.7	880.73
E-12	10/25/2000	A	953.43	61.8	891.63
E-12	2/1/2001	A	953.43	53.77	899.66
E-12	5/24/2001	A	953.43	50.5	902.93
E-12	7/31/2001	A	953.43	61.5	891.93
E-12	10/30/2001	A	953.43	53.5	899.93
E-12	1/30/2002	A	953.43	52.7	900.73
E-12	5/14/2002	A	953.43	55.9	897.53
E-12	7/31/2002	A	953.43	75.5	877.93
E-12	10/31/2002	A	953.43	55.45	897.98
E-12	1/30/2003	A	953.43	62.6	890.83
E-12	4/29/2003	A	953.43	61	892.43
E-12	8/7/2003	A	953.43	74	879.43
E-12	10/29/2003	A	953.43	55.8	897.63
E-12	1/28/2004	A	953.43	61.9	891.53
E-12	4/28/2004	A	953.43	60.4	893.03
E-12	7/30/2004	A	953.43	55.7	897.73
E-12	11/2/2004	A	953.43	57.5	895.93
E-12	1/28/2005	A	953.43	66.3	887.13
E-12	5/5/2005	A	953.43	64.6	888.83
E-12	7/26/2005	A	953.43	55.7	897.73
E-12	10/27/2005	A	953.43	63.3	890.13
E-12	1/27/2006	A	953.43	60.9	892.53
E-12	5/3/2006	A	953.43	67.5	885.93
E-12	7/26/2006	A	953.43	54.35	899.08
E-12	10/31/2006	A	953.43	76.2	877.23

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
E-12	1/29/2007	A	953.43	80.5	872.93
E-12	5/2/2007	A	953.43	63.1	890.33
E-12	7/31/2007	A	953.43	81.2	872.23
E-12	10/10/2007	A	953.43	83.35	870.08
E-12	2/23/2010	A	955.49	64	891.49
E-12	5/13/2010	A	955.49	63.5	891.99
E-16	10/27/1995	A	956.36	54.9	901.46
E-16	11/28/1995	A	956.36	55.2	901.16
E-16	12/30/1995	A	956.36	54.4	901.96
E-16	1/31/1996	A	956.36	53.65	902.71
E-16	2/20/1996	A	956.36	54.1	902.26
E-16	3/30/1996	A	956.36	53	903.36
E-16	4/29/1996	A	956.36	54	902.36
E-16	5/31/1996	A	956.36	54	902.36
E-16	6/28/1996	A	956.36	54.5	901.86
E-16	7/31/1996	A	956.36	55.25	901.11
E-16	8/30/1996	A	956.36	56.75	899.61
E-16	9/28/1996	A	956.36	56.45	899.91
E-16	10/30/1996	A	956.36	56.3	900.06
E-16	1/15/1997	A	956.36	50.9	905.46
E-16	4/29/1997	A	956.36	54.34	902.02
E-16	7/29/1997	A	956.36	69.59	886.77
E-16	1/30/1998	A	956.36	62.4	893.96
E-16	5/8/1998	A	956.36	58.85	897.51
E-16	7/29/1998	A	956.36	58.75	897.61
E-16	10/29/1998	A	956.36	58	898.36
E-16	1/28/1999	A	956.36	57.77	898.59
E-16	4/28/1999	A	956.36	61.6	894.76
E-16	8/5/1999	A	956.36	56.7	899.66
E-16	10/14/1999	A	956.36	56.2	900.16
E-16	2/9/2000	A	956.36	56.2	900.16
E-16	5/2/2000	A	956.36	56	900.36
E-16	8/3/2000	A	956.36	54.35	902.01
E-16	10/25/2000	A	956.36	55.4	900.96
E-16	1/31/2001	A	956.36	56	900.36
E-16	5/24/2001	A	956.36	53.6	902.76
E-16	8/1/2001	A	956.36	54.2	902.16
E-16	10/30/2001	A	956.36	54.45	901.91
E-16	1/31/2002	A	956.36	54.6	901.76
E-16	5/14/2002	A	956.36	54.65	901.71
E-16	7/31/2002	A	956.36	56.1	900.26
E-16	10/31/2002	A	956.36	56.6	899.76
E-16	1/31/2003	A	956.36	56.4	899.96
E-16	4/30/2003	A	956.36	55.9	900.46
E-16	8/8/2003	A	956.36	56.8	899.56
E-16	10/29/2003	A	956.36	57.35	899.01
E-16	1/29/2004	A	956.36	57.8	898.56
E-16	4/29/2004	A	956.36	57	899.36
E-16	7/30/2004	A	956.36	57	899.36
E-16	11/2/2004	A	956.36	58.45	897.91
E-16	1/28/2005	A	956.36	58.65	897.71
E-16	5/6/2005	A	956.36	57.8	898.56
E-16	7/26/2005	A	956.36	57.6	898.76

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
E-16	10/27/2005	A	956.36	57.2	899.16
E-16	1/27/2006	A	956.36	56.72	899.64
E-16	5/4/2006	A	956.36	68.3	888.06
E-16	7/26/2006	A	956.36	56.65	899.71
E-16	10/31/2006	A	956.36	71	885.36
E-16	1/30/2007	A	956.36	67.7	888.66
E-16	5/2/2007	A	956.36	72.2	884.16
E-16	8/1/2007	A	956.36	77.5	878.86
E-16	10/11/2007	A	956.36	74.41	881.95
E-16	1/7/2008	A	956.36	60.94	895.42
E-16	2/16/2008	A	956.36	64.33	892.03
E-16	4/14/2008	A	956.36	76.2	880.16
E-16	8/1/2008	A	956.36	76.58	879.78
E-16	11/17/2008	A	950.08	55.61	894.47
E-16	2/16/2009	A	956.36	64.33	892.03
E-16	5/18/2009	A	956.36	65.25	891.11
E-16	8/24/2009	A	958.42	64.5	893.92
E-16	11/18/2009	A	958.42	64.1	894.32
E-16	2/1/2010	A	958.42	65.7	892.72
E-16	5/7/2010	A	958.42	63	895.42
E-16	8/24/2010	A	958.42	64.35	894.07
E-16	11/29/2010	A	958.42	62.76	895.66
E-16	2/3/2011	A	958.42	64.12	894.3
E-16	5/2/2011	A	958.42	61.91	896.51
E-16	8/1/2011	A	958.42	63.35	895.07
E-16	11/1/2011	A	958.42	65	893.42
E-16	2/1/2012	A	958.502	64.21	894.292
E-16	5/1/2012	A	958.502	77.31	881.192
E-16	8/1/2012	A	958.502	68.31	890.192
E-16	11/1/2012	A	958.502	74.92	883.582
E-16	2/4/2013	A	958.502	80.4	878.102
E-16	5/1/2013	A	958.502	76.81	881.692
E-16	8/5/2013	A	958.42	73.09	885.33
E-16	11/4/2013	A	958.42	80.12	878.3
E-17	1/5/1994	A	958.64	47.9	910.74
E-17	3/27/1994	A	958.64	48.3	910.34
E-17	3/31/1994	A	958.64	48.2	910.44
E-17	4/14/1994	A	958.64	48.5	910.14
E-17	5/26/1994	A	958.64	54.2	904.44
E-17	6/3/1994	A	958.64	49.2	909.44
E-17	9/22/1994	A	958.64	52.4	906.24
E-17	10/27/1995	A	958.64	52.22	906.42
E-17	11/29/1995	A	958.64	52.1	906.54
E-17	12/30/1995	A	958.64	52	906.64
E-17	1/31/1996	A	958.64	51.82	906.82
E-17	2/20/1996	A	958.64	52	906.64
E-17	3/30/1996	A	958.64	53.7	904.94
E-17	4/29/1996	A	958.64	52.4	906.24
E-17	5/31/1996	A	958.64	52.75	905.89
E-17	6/28/1996	A	958.64	53.62	905.02
E-17	7/31/1996	A	958.64	54.4	904.24
E-17	8/30/1996	A	958.64	55.05	903.59
E-17	9/28/1996	A	958.64	55.1	903.54

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
E-17	10/30/1996	A	958.64	54.92	903.72
E-17	1/15/1997	A	958.64	53.65	904.99
E-17	4/29/1997	A	958.64	54.65	903.99
E-17	7/29/1997	A	958.64	57.33	901.31
E-17	1/30/1998	A	958.64	56.82	901.82
E-17	5/8/1998	A	958.64	54.7	903.94
E-17	7/29/1998	A	958.64	54.5	904.14
E-17	10/29/1998	A	958.64	54.3	904.34
E-17	1/28/1999	A	958.64	54.15	904.49
E-17	4/28/1999	A	958.64	54.9	903.74
E-17	8/4/1999	A	958.64	56.2	902.44
E-17	10/13/1999	A	958.64	61	897.64
E-17	2/9/2000	A	958.64	55.8	902.84
E-17	5/2/2000	A	958.64	55.8	902.84
E-17	8/3/2000	A	958.64	57.4	901.24
E-17	10/25/2000	A	958.64	57.8	900.84
E-17	1/31/2001	A	958.64	56.1	902.54
E-17	5/24/2001	A	958.64	55.3	903.34
E-17	8/1/2001	A	958.64	56.5	902.14
E-17	10/30/2001	A	958.64	61.1	897.54
E-17	1/31/2002	A	958.64	54	904.64
E-17	5/14/2002	A	958.64	60.37	898.27
E-17	7/31/2002	A	958.64	59.8	898.84
E-17	10/31/2002	A	958.64	60	898.64
E-17	1/31/2003	A	958.64	59.95	898.69
E-17	4/30/2003	A	958.64	62.8	895.84
E-17	8/8/2003	A	958.64	64.1	894.54
E-17	10/29/2003	A	958.64	64	894.64
E-17	1/29/2004	A	958.64	64.75	893.89
E-17	4/29/2004	A	958.64	63.9	894.74
E-17	7/30/2004	A	958.64	61.62	897.02
E-17	11/2/2004	A	958.64	65.8	892.84
E-17	1/28/2005	A	958.64	65.9	892.74
E-17	5/6/2005	A	958.64	65.3	893.34
E-17	7/26/2005	A	958.64	61.1	897.54
E-17	10/28/2005	A	958.64	60.4	898.24
E-17	1/27/2006	A	958.64	31	927.64
E-17	5/3/2006	A	958.64	40	918.64
E-17	7/26/2006	A	958.64	60.5	898.14
E-17	10/31/2006	A	958.64	30.4	928.24
E-17	1/30/2007	A	958.64	20.2	938.44
E-17	5/2/2007	A	958.64	29	929.64
E-17	8/1/2007	A	958.64	45	913.64
E-17	10/10/2007	A	958.64	68.75	889.89
E-17	1/9/2008	A	958.64	64.13	894.51
E-17	4/14/2008	A	958.64	63.77	894.87
E-17	8/1/2008	A	958.64	62.72	895.92
E-17	11/17/2008	A	956.36	70.07	886.29
E-17	2/17/2009	A	958.64	69.99	888.65
E-17	5/19/2009	A	958.64	70.5	888.14
E-17	8/24/2009	A	960.7	72.6	888.1
E-17	11/17/2009	A	960.7	72.4	888.3
E-17	2/2/2010	A	960.7	71.94	888.76

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
E-17	5/7/2010	A	960.7	70.74	889.96
E-17	8/24/2010	A	960.7	54	906.7
E-17	11/29/2010	A	960.7	72.9	887.8
E-17	2/3/2011	A	960.7	73.85	886.85
E-17	5/2/2011	A	960.7	74	886.7
E-17	8/1/2011	A	960.7	75.41	885.29
E-17	11/1/2011	A	960.7	73.78	886.92
E-17	2/1/2012	A	962.059	73.02	889.039
E-17	5/1/2012	A	962.059	66.8	895.259
E-17	8/2/2012	A	962.059	78.38	883.679
E-17	2/5/2013	A	962.059	78.38	883.679
E-17	5/1/2013	A	962.059	86.41	875.649
E-17	8/6/2013	A	960.7	87.43	873.27
E-17	11/4/2013	A	960.7	90.71	869.99
E-201	10/25/1994	C	969.29	81.08	888.21
E-201	10/27/1994	C	969.29	81.09	888.2
E-201	11/1/1994	C	969.29	79.77	889.52
E-201	11/4/1994	C	969.29	80.08	889.21
E-201	11/8/1994	C	969.29	79.66	889.63
E-201	11/11/1994	C	969.29	79.13	890.16
E-201	11/15/1994	C	969.29	79.29	890
E-201	11/18/1994	C	969.29	79.47	889.82
E-201	11/21/1994	C	969.29	79.06	890.23
E-201	11/23/1994	C	969.29	79.11	890.18
E-201	11/29/1994	C	969.29	79.37	889.92
E-201	12/2/1994	C	969.29	81.42	887.87
E-201	12/9/1994	C	969.29	78.7	890.59
E-201	12/13/1994	C	969.29	80.26	889.03
E-201	12/20/1994	C	969.29	78.97	890.32
E-201	12/27/1994	C	969.29	77.7	891.59
E-201	1/3/1995	C	969.29	78.82	890.47
E-201	1/10/1995	C	969.29	78.43	890.86
E-201	1/17/1995	C	969.29	78.04	891.25
E-201	1/24/1995	C	969.29	78.03	891.26
E-201	1/31/1995	C	969.29	76.91	892.38
E-201	2/7/1995	C	969.29	78.05	891.24
E-201	2/13/1995	C	969.29	77.63	891.66
E-201	2/22/1995	C	969.29	79.15	890.14
E-201	3/2/1995	C	969.29	77.35	891.94
E-201	3/10/1995	C	969.29	77.37	891.92
E-201	3/15/1995	C	969.29	76.75	892.54
E-201	4/4/1995	C	969.29	84	885.29
E-201	4/10/1995	C	969.29	85	884.29
E-201	4/17/1995	C	969.29	83	886.29
E-201	4/24/1995	C	969.29	82	887.29
E-201	5/1/1995	C	969.29	82	887.29
E-201	5/16/1995	C	969.29	80	889.29
E-201	5/22/1995	C	969.29	81	888.29
E-201	5/30/1995	C	969.29	80	889.29
E-201	6/5/1995	C	969.29	82	887.29
E-201	6/12/1995	C	969.29	76	893.29
E-201	6/19/1995	C	969.29	85	884.29
E-201	6/26/1995	C	969.29	75	894.29

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
E-201	7/7/1995	C	969.29	90	879.29
E-201	7/24/1995	C	969.29	95	874.29
E-201	7/28/1995	C	969.29	99	870.29
E-201	8/2/1995	C	969.29	99	870.29
E-201	8/10/1995	C	969.29	101	868.29
E-201	8/15/1995	C	969.29	98	871.29
E-201	8/23/1995	C	969.29	91	878.29
E-201	8/31/1995	C	969.29	90	879.29
E-201	9/6/1995	C	969.29	98	871.29
E-201	9/13/1995	C	969.29	95	874.29
E-201	9/22/1995	C	969.29	85	884.29
E-201	9/28/1995	C	969.29	82	887.29
E-201	10/6/1995	C	969.29	82	887.29
E-201	10/31/1995	C	969.29	81	888.29
E-201	11/30/1995	C	969.29	81	888.29
E-201	12/30/1995	C	969.29	79	890.29
E-201	1/8/1996	C	969.29	80	889.29
E-201	2/19/1996	C	969.29	78	891.29
E-201	3/11/1996	C	969.29	79	890.29
E-201	4/18/1996	C	969.29	82	887.29
E-201	5/13/1996	C	969.29	83	886.29
E-201	6/3/1996	C	969.29	85	884.29
E-201	7/16/1996	C	969.29	94	875.29
E-201	8/17/1996	C	969.29	95	874.29
E-201	9/13/1996	C	969.29	79	890.29
E-201	10/28/1996	C	969.29	83	886.29
E-201	1/15/1997	C	969.29	81	888.29
E-201	4/30/1997	C	969.29	94	875.29
E-201	7/29/1997	C	969.29	106	863.29
E-201	10/20/1997	C	969.29	90	879.29
E-201	1/29/1998	C	969.29	86	883.29
E-201	5/8/1998	C	969.29	88	881.29
E-201	7/27/1998	C	969.29	91	878.29
E-201	11/5/1998	C	969.29	86	883.29
E-201	1/22/1999	C	969.29	81	888.29
E-201	5/7/1999	C	969.29	87	882.29
E-201	8/4/1999	C	969.29	98	871.29
E-201	10/12/1999	C	969.29	89	880.29
E-201	2/10/2000	C	969.29	86	883.29
E-201	5/2/2000	C	969.29	88	881.29
E-201	8/3/2000	C	969.29	101	868.29
E-201	10/20/2000	C	969.29	138	831.29
E-201	1/31/2001	C	969.29	138	831.29
E-201	5/24/2001	C	969.29	138	831.29
E-201	8/1/2001	C	969.29	138	831.29
E-201	10/30/2001	C	969.29	91	878.29
E-201	1/31/2002	C	969.29	83.45	885.84
E-201	5/14/2002	C	969.29	84.4	884.89
E-201	7/31/2002	C	969.29	99.7	869.59
E-201	10/31/2002	C	969.29	85.65	883.64
E-201	1/31/2003	C	969.29	82.45	886.84
E-201	4/30/2003	C	969.29	85.7	883.59
E-201	8/8/2003	C	969.29	93.1	876.19

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
E-201	10/29/2003	C	969.29	87.9	881.39
E-201	1/29/2004	C	969.29	82.3	886.99
E-201	4/29/2004	C	969.29	85.2	884.09
E-201	11/2/2004	C	969.29	96.5	872.79
E-201	1/28/2005	C	969.29	84.35	884.94
E-201	5/6/2005	C	969.29	89	880.29
E-201	7/27/2005	C	969.29	99.1	870.19
E-201	10/27/2005	C	969.29	88.1	881.19
E-201	1/27/2006	C	969.29	87.6	881.69
E-201	5/4/2006	C	969.29	91.5	877.79
E-201	7/26/2006	C	969.29	93.8	875.49
E-201	10/31/2006	C	969.29	88.8	880.49
E-201	1/30/2007	C	969.29	86.7	882.59
E-201	5/2/2007	C	969.29	83.9	885.39
E-201	8/1/2007	C	969.29	93.3	875.99
E-201	10/11/2007	C	969.29	90.08	879.21
E-201	1/8/2008	C	969.29	82.74	886.55
E-201	4/14/2008	C	969.29	88.82	880.47
E-201	11/17/2008	C	958.64	96.04	862.6
E-201	5/18/2009	C	969.29	84.87	884.42
E-201	8/24/2009	C	971.35	40.4	930.95
E-201	9/21/2009	C	971.35	90.67	880.68
E-201	10/19/2009	C	971.35	88.84	882.51
E-201	11/17/2009	C	971.35	85.62	885.73
E-201	2/1/2010	C	971.35	79.6	891.75
E-201	5/3/2010	C	971.35	81.35	890
E-201	8/23/2010	C	971.35	88.05	883.3
E-201	11/29/2010	C	971.35	80.45	890.9
E-201	2/3/2011	C	971.35	78.8	892.55
E-201	5/3/2011	C	971.35	82.7	888.65
E-201	8/1/2011	C	971.35	90.9	880.45
E-201	11/2/2011	C	971.35	84.48	886.87
E-201	2/1/2012	C	970.665	82.95	887.715
E-201	5/1/2012	C	970.665	83.96	886.705
E-201	8/3/2012	C	970.665	91.53	879.135
E-201	11/1/2012	C	970.665	87.01	883.655
E-201	2/4/2013	C	970.665	81.35	889.315
E-201	5/1/2013	C	970.665	85.12	885.545
E-201	8/5/2013	C	971.35	95.15	876.2
E-201	11/4/2013	C	971.35	88.83	882.52
E-202	10/25/1994	C	957.05	60.61	896.44
E-202	10/27/1994	C	957.05	60.06	896.99
E-202	11/1/1994	C	957.05	59.06	897.99
E-202	11/4/1994	C	957.05	58.01	899.04
E-202	11/8/1994	C	957.05	57.79	899.26
E-202	11/11/1994	C	957.05	61.84	895.21
E-202	11/15/1994	C	957.05	62.07	894.98
E-202	11/18/1994	C	957.05	60.65	896.4
E-202	11/21/1994	C	957.05	61.75	895.3
E-202	11/23/1994	C	957.05	61.56	895.49
E-202	11/29/1994	C	957.05	61.56	895.49
E-202	12/2/1994	C	957.05	63.22	893.83
E-202	12/9/1994	C	957.05	61.39	895.66

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
E-202	12/13/1994	C	957.05	62.29	894.76
E-202	12/20/1994	C	957.05	61.04	896.01
E-202	12/27/1994	C	957.05	60.2	896.85
E-202	1/3/1995	C	957.05	60.55	896.5
E-202	1/10/1995	C	957.05	59.83	897.22
E-202	1/17/1995	C	957.05	59.47	897.58
E-202	1/24/1995	C	957.05	59.25	897.8
E-202	1/31/1995	C	961.1	58.52	902.58
E-202	2/7/1995	C	961.1	59.4	901.7
E-202	2/13/1995	C	961.1	59.1	902
E-202	2/22/1995	C	961.1	59.9	901.2
E-202	3/2/1995	C	961.1	58.75	902.35
E-202	3/10/1995	C	961.1	58.65	902.45
E-202	3/15/1995	C	961.1	58.2	902.9
E-202	4/4/1995	C	961.1	60	901.1
E-202	4/10/1995	C	961.1	62	899.1
E-202	4/17/1995	C	961.1	60	901.1
E-202	4/24/1995	C	961.1	59	902.1
E-202	5/1/1995	C	961.1	59	902.1
E-202	5/16/1995	C	961.1	57	904.1
E-202	5/22/1995	C	961.1	58	903.1
E-202	5/30/1995	C	961.1	58	903.1
E-202	6/5/1995	C	961.1	60	901.1
E-202	6/12/1995	C	961.1	61	900.1
E-202	6/19/1995	C	961.1	63	898.1
E-202	6/26/1995	C	961.1	62	899.1
E-202	7/7/1995	C	961.1	70	891.1
E-202	7/24/1995	C	961.1	73	888.1
E-202	7/28/1995	C	961.1	75	886.1
E-202	8/2/1995	C	961.1	75	886.1
E-202	8/10/1995	C	961.1	78	883.1
E-202	8/15/1995	C	961.1	74	887.1
E-202	8/23/1995	C	961.1	69	892.1
E-202	8/31/1995	C	961.1	70	891.1
E-202	9/6/1995	C	961.1	68	893.1
E-202	9/13/1995	C	961.1	62	899.1
E-202	9/22/1995	C	961.1	62	899.1
E-202	9/28/1995	C	961.1	61	900.1
E-202	10/6/1995	C	961.1	59	902.1
E-202	10/31/1995	C	961.1	59	902.1
E-202	11/30/1995	C	961.1	58	903.1
E-202	12/30/1995	C	961.1	57	904.1
E-202	1/8/1996	C	961.1	57	904.1
E-202	2/19/1996	C	961.1	56	905.1
E-202	3/11/1996	C	961.1	58	903.1
E-202	4/18/1996	C	961.1	61	900.1
E-202	5/13/1996	C	961.1	62	899.1
E-202	6/3/1996	C	961.1	63	898.1
E-202	7/16/1996	C	961.1	71	890.1
E-202	8/17/1996	C	961.1	72	889.1
E-202	9/13/1996	C	961.1	67	894.1
E-202	10/28/1996	C	961.1	61	900.1
E-202	1/15/1997	C	961.1	59	902.1

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
E-202	4/30/1997	C	961.1	70	891.1
E-202	7/29/1997	C	961.1	79	882.1
E-202	10/20/1997	C	961.1	65	896.1
E-202	1/29/1998	C	961.1	62	899.1
E-202	5/8/1998	C	961.1	64	897.1
E-202	7/27/1998	C	961.1	66	895.1
E-202	11/5/1998	C	961.1	146	815.1
E-202	1/22/1999	C	961.1	59	902.1
E-202	5/7/1999	C	961.1	64	897.1
E-202	8/4/1999	C	961.1	73	888.1
E-202	10/12/1999	C	961.1	65	896.1
E-202	2/10/2000	C	961.1	63	898.1
E-202	5/2/2000	C	961.1	98	863.1
E-202	8/3/2000	C	961.1	137	824.1
E-202	10/20/2000	C	961.1	182	779.1
E-202	1/31/2001	C	961.1	182	779.1
E-202	5/24/2001	C	961.1	178	783.1
E-202	8/1/2001	C	961.1	178	783.1
E-202	10/30/2001	C	961.1	179	782.1
E-202	1/31/2002	C	961.1	67.5	893.6
E-202	5/14/2002	C	961.1	73.1	888
E-202	7/31/2002	C	961.1	87.9	873.2
E-202	10/31/2002	C	961.1	75.6	885.5
E-202	1/31/2003	C	961.1	72.4	888.7
E-202	4/30/2003	C	961.1	74.15	886.95
E-202	8/8/2003	C	961.1	81.6	879.5
E-202	10/29/2003	C	961.1	76.9	884.2
E-202	1/29/2004	C	961.1	71.4	889.7
E-202	4/29/2004	C	961.1	73.9	887.2
E-202	7/30/2004	C	961.1	86.7	874.4
E-202	11/2/2004	C	961.1	78.5	882.6
E-202	1/28/2005	C	961.1	67.7	893.4
E-202	5/6/2005	C	961.1	65.2	895.9
E-202	7/26/2005	C	961.1	77.2	883.9
E-202	10/27/2005	C	961.1	69.7	891.4
E-202	1/27/2006	C	961.1	67.5	893.6
E-202	5/4/2006	C	961.1	70.9	890.2
E-202	7/26/2006	C	961.1	76.3	884.8
E-202	10/31/2006	C	961.1	71.7	889.4
E-202	1/30/2007	C	961.1	70	891.1
E-202	5/2/2007	C	961.1	71.4	889.7
E-202	8/1/2007	C	961.1	80.7	880.4
E-202	10/10/2007	C	961.1	70.02	891.08
E-202	1/8/2008	C	961.1	65.48	895.62
E-202	4/14/2008	C	961.1	68.28	892.82
E-202	8/1/2008	C	961.1	75.79	885.31
E-202	11/17/2008	C	961.1	71.3	889.8
E-202	5/18/2009	C	958.56	69.2	889.36
E-202	8/24/2009	C	958.56	75.2	883.36
E-202	9/21/2009	C	958.56	75.68	882.88
E-202	10/19/2009	C	958.56	75.97	882.59
E-202	11/18/2009	C	958.56	71.4	887.16
E-202	2/1/2010	C	958.56	66.45	892.11

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
E-202	5/7/2010	C	958.56	67.21	891.35
E-202	8/23/2010	C	958.56	72.8	885.76
E-202	11/29/2010	C	958.56	67	891.56
E-202	2/3/2011	C	958.56	64.1	894.46
E-202	5/2/2011	C	958.56	68.88	889.68
E-202	8/1/2011	C	958.56	75.23	883.33
E-202	11/1/2011	C	958.56	73.14	885.42
E-202	2/1/2012	C	958.388	68.05	890.338
E-202	5/1/2012	C	958.388	69.41	888.978
E-202	8/1/2012	C	958.388	75	883.388
E-202	11/1/2012	C	958.388	73.24	885.148
E-203	10/25/1994	C	953	55.4	897.6
E-203	10/27/1994	C	953	58.21	894.79
E-203	11/1/1994	C	953	56.11	896.89
E-203	11/4/1994	C	953	55.7	897.3
E-203	11/8/1994	C	953	55.43	897.57
E-203	11/11/1994	C	953	54.15	898.85
E-203	11/15/1994	C	953	59.55	893.45
E-203	11/18/1994	C	953	59.21	893.79
E-203	11/21/1994	C	953	59.11	893.89
E-203	11/23/1994	C	953	59.5	893.5
E-203	11/29/1994	C	953	58.43	894.57
E-203	12/2/1994	C	953	61.49	891.51
E-203	12/9/1994	C	953	59	894
E-203	12/13/1994	C	953	59.27	893.73
E-203	12/20/1994	C	953	58.68	894.32
E-203	12/27/1994	C	953	58.48	894.52
E-203	1/3/1995	C	953	58.58	894.42
E-203	1/10/1995	C	953	47.5	905.5
E-203	1/17/1995	C	953	57.15	895.85
E-203	1/24/1995	C	953	57.14	895.86
E-203	1/31/1995	C	957.58	55.96	901.62
E-203	2/7/1995	C	957.58	56.9	900.68
E-203	2/13/1995	C	957.58	56.4	901.18
E-203	2/22/1995	C	957.58	56.95	900.63
E-203	3/2/1995	C	957.58	56.25	901.33
E-203	3/10/1995	C	957.58	55.95	901.63
E-203	3/15/1995	C	957.58	55.55	902.03
E-203	4/4/1995	C	957.58	182	775.58
E-203	4/10/1995	C	957.58	182	775.58
E-203	4/17/1995	C	957.58	59	898.58
E-203	4/24/1995	C	957.58	59	898.58
E-203	5/1/1995	C	957.58	59	898.58
E-203	5/16/1995	C	957.58	57	900.58
E-203	5/22/1995	C	957.58	57	900.58
E-203	5/30/1995	C	957.58	58	899.58
E-203	6/5/1995	C	957.58	58	899.58
E-203	6/12/1995	C	957.58	56	901.58
E-203	6/19/1995	C	957.58	62	895.58
E-203	6/26/1995	C	957.58	57	900.58
E-203	7/7/1995	C	957.58	68	889.58
E-203	7/24/1995	C	957.58	70	887.58
E-203	7/28/1995	C	957.58	70	887.58

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
E-203	8/2/1995	C	957.58	73	884.58
E-203	8/10/1995	C	957.58	77	880.58
E-203	8/15/1995	C	957.58	70	887.58
E-203	8/23/1995	C	957.58	68	889.58
E-203	8/31/1995	C	957.58	69	888.58
E-203	9/6/1995	C	957.58	67	890.58
E-203	9/13/1995	C	957.58	60	897.58
E-203	9/22/1995	C	957.58	61	896.58
E-203	9/28/1995	C	957.58	59	898.58
E-203	10/6/1995	C	957.58	59	898.58
E-203	10/31/1995	C	957.58	58	899.58
E-203	11/30/1995	C	957.58	57	900.58
E-203	12/30/1995	C	957.58	56	901.58
E-203	1/8/1996	C	957.58	56	901.58
E-203	2/19/1996	C	957.58	55	902.58
E-203	3/11/1996	C	957.58	57	900.58
E-203	4/18/1996	C	957.58	59	898.58
E-203	5/13/1996	C	957.58	61	896.58
E-203	6/3/1996	C	957.58	61	896.58
E-203	7/16/1996	C	957.58	68	889.58
E-203	8/17/1996	C	957.58	71	886.58
E-203	9/13/1996	C	957.58	62	895.58
E-203	10/28/1996	C	957.58	60	897.58
E-203	1/15/1997	C	957.58	58	899.58
E-203	4/30/1997	C	957.58	68	889.58
E-203	7/29/1997	C	957.58	75	882.58
E-203	10/20/1997	C	957.58	62	895.58
E-203	1/29/1998	C	957.58	60	897.58
E-203	5/8/1998	C	957.58	61	896.58
E-203	7/27/1998	C	957.58	182	775.58
E-203	11/5/1998	C	957.58	63	894.58
E-203	1/22/1999	C	957.58	59	898.58
E-203	8/4/1999	C	957.58	67	890.58
E-203	10/12/1999	C	957.58	60	897.58
E-203	2/10/2000	C	957.58	57	900.58
E-203	5/2/2000	C	957.58	182	775.58
E-203	8/3/2000	C	957.58	182	775.58
E-203	10/20/2000	C	957.58	182	775.58
E-203	1/31/2001	C	957.58	182	775.58
E-203	5/24/2001	C	957.58	182	775.58
E-203	8/1/2001	C	957.58	182	775.58
E-203	10/31/2001	C	957.58	60.2	897.38
E-203	2/1/2002	C	957.58	57	900.58
E-203	5/14/2002	C	957.58	62.2	895.38
E-203	7/31/2002	C	957.58	74.1	883.48
E-203	10/31/2002	C	957.58	63.8	893.78
E-203	1/30/2003	C	957.58	60.5	897.08
E-203	4/29/2003	C	957.58	62	895.58
E-203	8/7/2003	C	957.58	69.5	888.08
E-203	10/29/2003	C	957.58	65	892.58
E-203	1/28/2004	C	957.58	60.8	896.78
E-203	4/28/2004	C	957.58	64.5	893.08
E-203	7/30/2004	C	957.58	76.4	881.18

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
E-203	11/2/2004	C	957.58	67	890.58
E-203	1/28/2005	C	957.58	61.4	896.18
E-203	5/5/2005	C	957.58	62.1	895.48
E-203	7/26/2005	C	957.58	70	887.58
E-203	10/28/2005	C	957.58	63	894.58
E-203	1/27/2006	C	957.58	61.3	896.28
E-203	5/4/2006	C	957.58	141.7	815.88
E-203	7/26/2006	C	957.58	127	830.58
E-203	10/31/2006	C	957.58	64.6	892.98
E-203	1/29/2007	C	957.58	62.2	895.38
E-203	5/2/2007	C	957.58	63.7	893.88
E-203	7/31/2007	C	957.58	72	885.58
E-203	10/10/2007	C	957.58	63.35	894.23
EA-01	5/13/2002	A	887.85	97.11	984.96
EA-01	7/31/2002	A	984.96	99.11	885.85
EA-02	5/13/2002	A	879.83	107.57	987.4
EA-02	7/31/2002	A	987.4	103.81	883.59
EA-03	5/13/2002	A	896.71	90.15	986.86
EA-03	7/31/2002	A	986.86	92.9	893.96
EA-04	7/31/2002	A	983.68	87.78	895.9
EB-01	7/31/2002	C	983.97	136.12	847.85
EMW-01	2/16/1991	C	962.2	57.9	904.3
EMW-02	4/16/1985	B	962.6	57.38	905.22
EMW-02	4/25/1985	B	962.6	55.59	907.01
EMW-02	5/23/1985	B	962.6	54.28	908.32
EMW-02	6/20/1985	B	962.6	57.25	905.35
EMW-02	7/25/1985	B	962.6	56.16	906.44
EMW-02	8/29/1985	B	962.6	58.02	904.58
EMW-02	9/17/1985	B	962.6	56.42	906.18
EMW-02	10/17/1985	B	962.6	53.14	909.46
EMW-02	11/18/1985	B	962.6	52.6	910
EMW-02	12/17/1985	B	962.6	51.81	910.79
EMW-02	1/16/1986	B	962.6	51.61	910.99
EMW-02	2/19/1986	B	962.6	51.13	911.47
EMW-02	3/18/1986	B	962.6	51.14	911.46
EMW-02	5/21/1986	B	962.6	55.26	907.34
EMW-02	6/17/1986	B	962.6	58.03	904.57
EMW-02	7/14/1986	B	962.6	57.94	904.66
EMW-02	8/15/1986	B	962.6	59.25	903.35
EMW-02	9/23/1986	B	962.6	56.26	906.34
EMW-02	10/16/1986	B	962.6	54.41	908.19
EMW-02	11/14/1986	B	962.6	53.59	909.01
EMW-02	12/15/1986	B	962.6	53.43	909.17
EMW-02	1/16/1987	B	962.6	54.5	908.1
EMW-02	2/20/1987	B	962.6	54.5	908.1
EMW-02	3/17/1987	B	962.6	54.8	907.8
EMW-02	4/17/1987	B	962.6	59.1	903.5
EMW-02	5/20/1987	B	962.6	57.1	905.5
EMW-02	6/24/1987	B	962.6	59.58	903.02
EMW-02	7/31/1987	B	962.6	62.87	899.73
EMW-02	8/25/1987	B	962.6	60.88	901.72
EMW-02	10/1/1987	B	962.6	58.6	904
EMW-02	10/23/1987	B	962.6	57.27	905.33

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-02	11/24/1987	B	962.6	54.58	908.02
EMW-02	1/7/1988	B	962.6	56.62	905.98
EMW-02	1/22/1988	B	962.6	53.75	908.85
EMW-02	1/23/1988	B	962.6	53.66	908.94
EMW-02	1/24/1988	B	962.6	53.72	908.88
EMW-02	1/25/1988	B	962.6	54.4	908.2
EMW-02	1/26/1988	B	962.6	57.07	905.53
EMW-02	1/27/1988	B	962.6	57.34	905.26
EMW-02	1/28/1988	B	962.6	56.98	905.62
EMW-02	1/29/1988	B	962.6	53.62	908.98
EMW-02	1/30/1988	B	962.6	53.77	908.83
EMW-02	1/31/1988	B	962.6	53.73	908.87
EMW-02	2/15/1988	B	962.6	54.05	908.55
EMW-02	3/9/1988	B	962.6	53.89	908.71
EMW-02	4/14/1988	B	962.6	57.66	904.94
EMW-02	5/18/1988	B	962.6	58.8	903.8
EMW-02	6/23/1988	B	962.6	61.27	901.33
EMW-02	8/8/1988	B	962.6	62.47	900.13
EMW-02	9/16/1988	B	962.6	62.88	899.72
EMW-02	11/23/1988	B	962.6	63.89	898.71
EMW-02	1/19/1989	B	962.6	53.97	908.63
EMW-02	2/14/1989	B	962.6	54.08	908.52
EMW-02	3/14/1989	B	962.6	54.73	907.87
EMW-02	4/19/1989	B	962.6	58.35	904.25
EMW-02	5/11/1989	B	962.6	57.7	904.9
EMW-02	6/1/1989	B	962.6	58.39	904.21
EMW-02	7/25/1989	B	962.6	65.15	897.45
EMW-02	8/24/1989	B	962.6	62.78	899.82
EMW-02	9/19/1989	B	962.6	59.69	902.91
EMW-02	10/19/1989	B	962.6	58.23	904.37
EMW-02	11/20/1989	B	962.6	57.68	904.92
EMW-02	12/13/1989	B	962.6	56.85	905.75
EMW-02	1/8/1993	B	962.6	53.1	909.5
EMW-02	1/11/2008	B	962.6	60.91	901.69
EMW-02	4/14/2008	B	962.6	71.31	891.29
EMW-02	8/1/2008	B	962.6	77.05	885.55
EMW-02	11/17/2008	B	962.6	71.16	891.44
EMW-02	2/17/2009	B	962.6	67.46	895.14
EMW-02	5/19/2009	B	962.6	70.06	892.54
EMW-02	8/25/2009	B	964.66	76.91	887.75
EMW-02	9/21/2009	B	964.66	78.23	886.43
EMW-02	10/19/2009	B	964.66	74.67	889.99
EMW-02	11/17/2009	B	964.66	72.27	892.39
EMW-02	2/1/2010	B	964.66	66.75	897.91
EMW-02	5/7/2010	B	964.66	68.95	895.71
EMW-02	8/23/2010	B	964.66	76.2	888.46
EMW-02	11/29/2010	B	964.66	68.65	896.01
EMW-02	2/3/2011	B	964.66	66.13	898.53
EMW-02	5/3/2011	B	964.66	71.35	893.31
EMW-02	8/1/2011	B	964.66	78.1	886.56
EMW-02	11/2/2011	B	964.66	73.6	891.06
EMW-02	2/1/2012	B	964.069	72.42	891.649
EMW-02	5/1/2012	B	964.069	72.42	891.649

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-02	8/2/2012	B	964.069	78.82	885.249
EMW-02	11/2/2012	B	964.069	73.75	890.319
EMW-02	2/4/2013	B	964.069	69.38	894.689
EMW-02	5/1/2013	B	964.069	74.92	889.149
EMW-02	8/6/2013	B	964.66	83.18	881.48
EMW-02	11/4/2013	B	964.66	76.36	888.3
EMW-03	3/25/1985	A	962.97	52.83	910.32
EMW-03	4/16/1985	A	962.97	51.68	911.47
EMW-03	4/25/1985	A	962.97	52.4	910.75
EMW-03	5/23/1985	A	962.97	53.29	909.86
EMW-03	6/20/1985	A	962.97	53.39	909.76
EMW-03	7/25/1985	A	962.97	53.74	909.41
EMW-03	8/29/1985	A	962.97	54.03	909.12
EMW-03	9/17/1985	A	962.97	53.9	909.25
EMW-03	10/17/1985	A	962.97	53.38	909.77
EMW-03	11/18/1985	A	962.97	52.51	910.64
EMW-03	12/17/1985	A	962.97	52.2	910.95
EMW-03	1/16/1986	A	962.97	52.08	911.07
EMW-03	2/19/1986	A	962.97	51.31	911.84
EMW-03	3/18/1986	A	962.97	51.22	911.93
EMW-03	5/21/1986	A	962.97	51.4	911.75
EMW-03	6/17/1986	A	962.97	51.69	911.46
EMW-03	7/14/1986	A	962.97	51.99	911.16
EMW-03	8/15/1986	A	962.97	52.69	910.46
EMW-03	9/23/1986	A	962.97	52.69	910.46
EMW-03	10/16/1986	A	962.97	52.44	910.71
EMW-03	11/14/1986	A	962.97	52.15	911
EMW-03	12/15/1986	A	962.97	51.27	911.88
EMW-03	1/16/1987	A	962.97	52.85	910.3
EMW-03	2/20/1987	A	962.97	52.85	910.3
EMW-03	3/17/1987	A	962.97	52.75	910.4
EMW-03	4/17/1987	A	962.97	52.75	910.4
EMW-03	5/20/1987	A	962.97	53.25	909.9
EMW-03	6/24/1987	A	962.97	53.72	909.43
EMW-03	7/31/1987	A	962.97	54.22	908.93
EMW-03	8/25/1987	A	962.97	54.55	908.6
EMW-03	10/1/1987	A	962.97	54	909.15
EMW-03	10/23/1987	A	962.97	54.18	908.97
EMW-03	11/24/1987	A	962.97	53.91	909.24
EMW-03	1/7/1988	A	962.97	55.53	907.62
EMW-03	1/22/1988	A	962.97	52.52	910.63
EMW-03	1/23/1988	A	962.97	52.72	910.43
EMW-03	1/24/1988	A	962.97	52.82	910.33
EMW-03	1/25/1988	A	962.97	52.75	910.4
EMW-03	1/26/1988	A	962.97	52.66	910.49
EMW-03	1/27/1988	A	962.97	52.72	910.43
EMW-03	1/28/1988	A	962.97	52.79	910.36
EMW-03	1/29/1988	A	962.97	52.64	910.51
EMW-03	1/30/1988	A	962.97	52.6	910.55
EMW-03	1/31/1988	A	962.97	52.65	910.5
EMW-03	2/15/1988	A	962.97	52.77	910.38
EMW-03	3/9/1988	A	962.97	52.72	910.43
EMW-03	4/14/1988	A	962.97	52.86	910.29

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-03	5/18/1988	A	962.97	52.65	910.5
EMW-03	6/23/1988	A	962.97	53.34	909.81
EMW-03	8/8/1988	A	962.97	54.74	908.41
EMW-03	9/16/1988	A	962.97	55.4	907.75
EMW-03	11/23/1988	A	962.97	54.77	908.38
EMW-03	1/19/1989	A	962.97	53.25	909.9
EMW-03	2/14/1989	A	962.97	53.2	909.95
EMW-03	3/14/1989	A	962.97	53.18	909.97
EMW-03	4/19/1989	A	962.97	53.72	909.43
EMW-03	5/11/1989	A	962.97	54.1	909.05
EMW-03	6/1/1989	A	962.97	54.69	908.46
EMW-03	7/25/1989	A	962.97	55.7	907.45
EMW-03	8/24/1989	A	962.97	56.5	906.65
EMW-03	8/24/1989	A	962.97	56.5	906.65
EMW-03	9/19/1989	A	962.97	55.71	907.44
EMW-03	10/19/1989	A	962.97	56.48	906.67
EMW-03	11/20/1989	A	962.97	56.1	907.05
EMW-03	12/13/1989	A	962.97	56.12	907.03
EMW-03	3/12/1990	A	962.97	55.92	907.05
EMW-03	2/16/1991	A	962.97	56.82	906.15
EMW-03	4/22/1991	A	962.97	58.92	904.05
EMW-03	5/19/1991	A	962.97	57.57	905.4
EMW-03	1/22/1992	A	962.97	57.82	905.15
EMW-03	2/21/1992	A	962.97	57.36	905.61
EMW-03	4/22/1992	A	962.97	56.2	906.77
EMW-03	5/14/1992	A	962.97	55.9	907.07
EMW-03	6/30/1992	A	962.97	55.4	907.57
EMW-03	7/29/1992	A	962.97	56	906.97
EMW-03	8/24/1992	A	962.97	55.8	907.17
EMW-03	10/6/1992	A	962.97	55.1	907.87
EMW-03	10/28/1992	A	962.97	54.6	908.37
EMW-03	11/23/1992	A	962.97	54.4	908.57
EMW-03	1/4/1993	A	962.97	54.8	908.17
EMW-03	2/4/1993	A	962.97	54.4	908.57
EMW-03	3/18/1993	A	962.97	52.2	910.77
EMW-03	4/15/1993	A	962.97	51	911.97
EMW-03	5/18/1993	A	962.97	50	912.97
EMW-03	6/10/1993	A	962.97	49.9	913.07
EMW-03	6/18/1993	A	962.97	49.6	913.37
EMW-03	7/14/1993	A	962.97	50.3	912.67
EMW-03	8/9/1993	A	962.97	50.6	912.37
EMW-03	9/24/1993	A	962.97	51.4	911.57
EMW-03	10/28/1993	A	962.97	51.5	911.47
EMW-03	11/24/1993	A	962.97	51.7	911.27
EMW-03	12/14/1993	A	962.97	51.3	911.67
EMW-03	12/22/1993	A	962.97	51.7	911.27
EMW-03	1/28/1994	A	962.97	51.8	911.17
EMW-03	2/25/1994	A	962.97	51.8	911.17
EMW-03	3/23/1994	A	962.97	51.9	911.07
EMW-03	4/27/1994	A	962.97	53.2	909.77
EMW-03	5/26/1994	A	962.97	53	909.97
EMW-03	6/1/1994	A	962.97	53.3	909.67
EMW-03	7/22/1994	A	962.97	56	906.97

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-03	8/25/1994	A	962.97	57.8	905.17
EMW-03	9/22/1994	A	962.97	56.3	906.67
EMW-03	10/12/1994	A	962.97	56.7	906.27
EMW-03	11/18/1994	A	962.97	56.8	906.17
EMW-03	12/30/1994	A	962.97	57.2	905.77
EMW-03	1/30/1995	A	962.97	56.8	906.17
EMW-03	2/23/1995	A	962.97	56.4	906.57
EMW-03	3/30/1995	A	962.97	54.7	908.27
EMW-03	4/21/1995	A	962.97	54.6	908.37
EMW-03	5/26/1995	A	962.97	54.1	908.87
EMW-03	6/23/1995	A	962.97	54.24	908.73
EMW-03	7/27/1995	A	962.97	55.19	907.78
EMW-03	8/30/1995	A	962.97	56.16	906.81
EMW-03	9/29/1995	A	962.97	56.06	906.91
EMW-03	10/27/1995	A	962.97	55.85	907.12
EMW-03	11/28/1995	A	962.97	55.71	907.26
EMW-03	12/30/1995	A	962.97	55.55	907.42
EMW-03	1/31/1996	A	962.97	55.45	907.52
EMW-03	2/20/1996	A	962.97	55.42	907.55
EMW-03	3/30/1996	A	962.97	55.5	907.47
EMW-03	4/29/1996	A	962.97	56.1	906.87
EMW-03	5/31/1996	A	962.97	56.41	906.56
EMW-03	6/28/1996	A	962.97	57	905.97
EMW-03	7/31/1996	A	962.97	57.95	905.02
EMW-03	8/30/1996	A	962.97	58.95	904.02
EMW-03	9/28/1996	A	962.97	59	903.97
EMW-03	10/29/1996	A	962.97	58.75	904.22
EMW-03	1/15/1997	A	962.97	57.7	905.27
EMW-03	4/29/1997	A	962.97	58.1	904.87
EMW-03	7/29/1997	A	962.97	61.15	901.82
EMW-03	1/29/1998	A	962.97	60.55	902.42
EMW-03	5/8/1998	A	962.97	58.9	904.07
EMW-03	7/28/1998	A	962.97	58.25	904.72
EMW-03	10/29/1998	A	962.97	58	904.97
EMW-03	1/28/1999	A	962.97	57.65	905.32
EMW-03	4/28/1999	A	962.97	58.62	904.35
EMW-03	8/4/1999	A	962.97	60.65	902.32
EMW-03	10/13/1999	A	962.97	60.8	902.17
EMW-03	2/9/2000	A	962.97	59.95	903.02
EMW-03	5/2/2000	A	962.97	60.35	902.62
EMW-03	8/2/2000	A	962.97	62.1	900.87
EMW-03	10/25/2000	A	962.97	62.9	900.07
EMW-03	1/31/2001	A	962.97	60.85	902.12
EMW-03	5/24/2001	A	962.97	59.7	903.27
EMW-03	7/31/2001	A	962.97	60.6	902.37
EMW-03	10/30/2001	A	962.97	61.65	901.32
EMW-03	1/30/2002	A	962.97	60.8	902.17
EMW-03	5/14/2002	A	962.97	62.1	900.87
EMW-03	7/31/2002	A	962.97	63.75	899.22
EMW-03	10/31/2002	A	962.97	64.9	898.07
EMW-03	1/31/2003	A	962.97	63.87	899.1
EMW-03	4/29/2003	A	962.97	63.4	899.57
EMW-03	8/7/2003	A	962.97	65.2	897.77

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-03	10/29/2003	A	962.97	65.4	897.57
EMW-03	1/28/2004	A	962.97	65.3	897.67
EMW-03	4/28/2004	A	962.97	64.8	898.17
EMW-03	7/30/2004	A	962.97	65.15	897.82
EMW-03	11/2/2004	A	962.97	66.85	896.12
EMW-03	1/27/2005	A	962.97	66.15	896.82
EMW-03	5/5/2005	A	962.97	64.3	898.67
EMW-03	7/26/2005	A	962.97	63.9	899.07
EMW-03	10/27/2005	A	962.97	63.6	899.37
EMW-03	1/27/2006	A	962.97	63.2	899.77
EMW-03	5/2/2006	A	962.97	63.2	899.77
EMW-03	7/25/2006	A	962.97	63.7	899.27
EMW-03	10/30/2006	A	962.97	64.9	898.07
EMW-03	1/29/2007	A	962.97	64.9	898.07
EMW-03	5/1/2007	A	962.97	65.5	897.47
EMW-03	7/31/2007	A	962.97	67.6	895.37
EMW-03	10/9/2007	A	962.97	68.75	894.22
EMW-03	1/7/2008	A	962.97	68.01	894.96
EMW-03	4/14/2008	A	962.97	67.01	895.96
EMW-03	8/1/2008	A	962.97	67.82	895.15
EMW-03	11/17/2008	A	962.97	68.45	894.52
EMW-03	2/16/2009	A	962.97	67.53	895.44
EMW-03	5/19/2009	A	962.97	67.95	895.02
EMW-03	8/24/2009	A	965.03	69.07	895.96
EMW-03	11/17/2009	A	965.03	70.03	895
EMW-03	2/2/2010	A	965.03	69.6	895.43
EMW-03	5/3/2010	A	965.03	67.91	897.12
EMW-03	8/23/2010	A	965.03	67.5	897.53
EMW-03	11/29/2010	A	965.03	67.55	897.48
EMW-03	2/3/2011	A	965.03	66.92	898.11
EMW-03	5/2/2011	A	965.03	67	898.03
EMW-03	8/1/2011	A	965.03	68.92	896.11
EMW-03	11/2/2011	A	965.03	70.6	894.43
EMW-03	12/2/2011	A	963.98	69.77	894.21
EMW-03	2/1/2012	A	963.98	69.45	894.53
EMW-03	3/2/2012	A	963.98	69.64	894.34
EMW-03	4/2/2012	A	963.98	69.2	894.78
EMW-03	5/1/2012	A	963.98	69.47	894.51
EMW-03	6/1/2012	A	963.98	69.6	894.38
EMW-03	7/2/2012	A	963.98	70.1	893.88
EMW-03	8/2/2012	A	963.98	70.61	893.37
EMW-03	9/4/2012	A	963.98	71.1	892.88
EMW-03	10/1/2012	A	963.98	71.46	892.52
EMW-03	11/2/2012	A	963.98	71.45	892.53
EMW-03	12/3/2012	A	963.98	71.36	892.62
EMW-03	2/4/2013	A	963.98	70.94	893.04
EMW-03	5/1/2013	A	963.98	70.9	893.08
EMW-03	8/6/2013	A	965.03	72.6	892.43
EMW-03	11/4/2013	A	965.03	73.73	891.3
EMW-04	1/16/1987	A	960.36	50.06	910.3
EMW-04	2/20/1987	A	960.36	50.1	910.3
EMW-04	3/17/1987	A	960.36	50.1	910.3
EMW-04	4/17/1987	A	960.36	50	910.4

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-04	5/20/1987	A	960.36	50.7	909.7
EMW-04	6/19/1987	A	960.36	50.88	909.52
EMW-04	7/16/1987	A	960.36	51.27	909.13
EMW-04	8/25/1987	A	960.36	51.85	908.55
EMW-04	10/7/1987	A	960.36	51.68	908.72
EMW-04	10/22/1987	A	960.36	51.5	908.9
EMW-04	11/24/1987	A	960.36	51.24	909.16
EMW-04	1/7/1988	A	960.36	50.75	909.65
EMW-04	2/15/1988	A	960.36	50.2	910.2
EMW-04	3/9/1988	A	960.36	50.16	910.24
EMW-04	4/14/1988	A	960.36	50.3	910.1
EMW-04	5/19/1988	A	960.36	50.01	910.39
EMW-04	6/28/1988	A	960.36	50.94	909.46
EMW-04	7/12/1988	A	960.36	51.26	909.14
EMW-04	8/8/1988	A	960.36	46.73	913.67
EMW-04	9/16/1988	A	960.36	47.08	913.32
EMW-04	11/23/1988	A	960.36	50.11	910.29
EMW-04	1/19/1989	A	960.36	50.42	909.98
EMW-04	2/14/1989	A	960.36	50.67	909.73
EMW-04	3/14/1989	A	960.36	50.65	909.75
EMW-04	7/1/1989	A	960.36	51.26	909.14
EMW-04	9/19/1989	A	960.36	53.2	907.2
EMW-04	11/20/1989	A	960.36	53.58	906.82
EMW-04	1/22/1990	A	960.36	53.16	907.2
EMW-04	1/23/1990	A	960.36	53.31	907.05
EMW-04	1/24/1990	A	960.36	53.3	907.1
EMW-04	1/25/1990	A	960.36	53.36	907
EMW-04	1/26/1990	A	960.36	53.31	907.05
EMW-04	1/29/1990	A	960.36	53.26	907.1
EMW-04	1/30/1990	A	960.36	53.21	907.15
EMW-04	1/31/1990	A	960.36	53.26	907.1
EMW-04	2/1/1990	A	960.36	53.26	907.1
EMW-04	2/2/1990	A	960.36	53.31	907.05
EMW-04	2/8/1990	A	960.36	53.36	907
EMW-04	2/16/1990	A	960.36	53.36	907
EMW-04	2/23/1990	A	960.36	53.31	907.05
EMW-04	3/1/1990	A	960.36	53.3	907.1
EMW-04	3/9/1990	A	960.36	53.25	907.15
EMW-04	3/16/1990	A	960.36	53.3	907.1
EMW-04	3/21/1990	A	960.36	53.35	907.05
EMW-04	4/4/1990	A	960.36	53.5	906.9
EMW-04	4/18/1990	A	960.36	53.8	906.6
EMW-04	5/22/1990	A	960.36	54.15	906.25
EMW-04	6/19/1990	A	960.36	54.55	905.85
EMW-04	7/18/1990	A	960.36	55.45	904.95
EMW-04	8/17/1990	A	960.36	56	904.4
EMW-04	9/23/1990	A	960.36	55.4	905
EMW-04	10/18/1990	A	960.36	54.8	905.6
EMW-04	11/24/1990	A	960.36	54.1	906.3
EMW-04	12/17/1990	A	960.36	53.9	906.5
EMW-04	1/21/1991	A	960.36	54.8	905.6
EMW-04	2/16/1991	A	960.36	53.7	906.7
EMW-04	3/16/1991	A	960.36	53.95	906.45

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-04	4/22/1991	A	960.36	53.95	906.45
EMW-04	5/19/1991	A	960.36	54.15	906.25
EMW-04	6/19/1991	A	960.36	54.3	906.1
EMW-04	7/21/1991	A	960.36	55.25	905.15
EMW-04	8/18/1991	A	960.36	56.15	904.25
EMW-04	9/22/1991	A	960.36	56.61	903.75
EMW-04	10/31/1991	A	960.36	56.26	904.1
EMW-04	11/17/1991	A	960.36	56.16	904.2
EMW-04	1/20/1992	A	960.36	56.21	904.15
EMW-04	2/21/1992	A	960.36	54.84	905.52
EMW-04	3/25/1992	A	960.36	54	906.36
EMW-04	4/22/1992	A	960.36	53.55	906.81
EMW-04	5/14/1992	A	960.36	53.2	907.16
EMW-04	6/30/1992	A	960.36	53.1	907.26
EMW-04	7/29/1992	A	960.36	53.2	907.16
EMW-04	8/24/1992	A	960.36	53.2	907.16
EMW-04	10/5/1992	A	960.36	52.7	907.66
EMW-04	10/28/1992	A	960.36	52	908.36
EMW-04	11/23/1992	A	960.36	51.7	908.66
EMW-04	12/15/1992	A	960.36	51.8	908.56
EMW-04	2/4/1993	A	960.36	51.3	909.06
EMW-04	3/10/1993	A	960.36	49.7	910.66
EMW-04	4/15/1993	A	960.36	48.2	912.16
EMW-04	5/18/1993	A	960.36	47.2	913.16
EMW-04	6/10/1993	A	960.36	47.1	913.26
EMW-04	6/14/1993	A	960.36	47.1	913.26
EMW-04	8/9/1993	A	960.36	48	912.36
EMW-04	9/24/1993	A	960.36	48.5	911.86
EMW-04	10/28/1993	A	960.36	48.7	911.66
EMW-04	11/24/1993	A	960.36	48.8	911.56
EMW-04	12/14/1993	A	960.36	48.4	911.96
EMW-04	12/23/1993	A	960.36	48.7	911.66
EMW-04	1/28/1994	A	960.36	49	911.36
EMW-04	2/25/1994	A	960.36	49	911.36
EMW-04	3/23/1994	A	960.36	49.1	911.26
EMW-04	4/27/1994	A	960.36	50.1	910.26
EMW-04	5/26/1994	A	960.36	50.3	910.06
EMW-04	8/25/1994	A	960.36	54.3	906.06
EMW-04	9/22/1994	A	960.36	53.7	906.66
EMW-04	10/12/1994	A	960.36	53.8	906.56
EMW-04	11/18/1994	A	960.36	54	906.36
EMW-04	12/30/1994	A	960.36	54.1	906.26
EMW-04	1/30/1995	A	960.36	53.8	906.56
EMW-04	2/23/1995	A	960.36	53.4	906.96
EMW-04	3/30/1995	A	960.36	52.1	908.26
EMW-04	4/21/1995	A	960.36	51.9	908.46
EMW-04	5/26/1995	A	960.36	51.4	908.96
EMW-04	6/23/1995	A	960.36	51.49	908.87
EMW-04	7/27/1995	A	960.36	52.37	907.99
EMW-04	8/30/1995	A	960.36	53.36	907
EMW-04	9/29/1995	A	960.36	53.31	907.05
EMW-04	10/27/1995	A	960.36	53.07	907.29
EMW-04	11/28/1995	A	960.36	52.95	907.41

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-04	12/30/1995	A	960.36	52.75	907.61
EMW-04	1/31/1996	A	960.36	52.67	907.69
EMW-04	2/20/1996	A	960.36	52.64	907.72
EMW-04	3/30/1996	A	960.36	52.81	907.55
EMW-04	4/29/1996	A	960.36	53.41	906.95
EMW-04	5/31/1996	A	960.36	53.68	906.68
EMW-04	6/28/1996	A	960.36	54.3	906.06
EMW-04	7/31/1996	A	960.36	55.25	905.11
EMW-04	8/30/1996	A	960.36	56.35	904.01
EMW-04	9/28/1996	A	960.36	56.32	904.04
EMW-04	10/29/1996	A	960.36	56.14	904.22
EMW-04	1/15/1997	A	960.36	55	905.36
EMW-04	4/28/1997	A	960.36	55.34	905.02
EMW-04	7/29/1997	A	960.36	58.45	901.91
EMW-04	1/29/1998	A	960.36	57.9	902.46
EMW-04	5/8/1998	A	960.36	56.1	904.26
EMW-04	7/28/1998	A	960.36	55.6	904.76
EMW-04	10/29/1998	A	960.36	55.27	905.09
EMW-04	1/28/1999	A	960.36	54.9	905.46
EMW-04	4/28/1999	A	960.36	55.8	904.56
EMW-04	8/4/1999	A	960.36	57.9	902.46
EMW-04	10/13/1999	A	960.36	58.17	902.19
EMW-04	2/9/2000	A	960.36	57.17	903.19
EMW-04	5/2/2000	A	960.36	57.4	902.96
EMW-04	8/2/2000	A	960.36	59.3	901.06
EMW-04	10/25/2000	A	960.36	60.1	900.26
EMW-04	1/31/2001	A	960.36	57.95	902.41
EMW-04	5/24/2001	A	960.36	56.7	903.66
EMW-04	7/31/2001	A	960.36	57.75	902.61
EMW-04	10/30/2001	A	960.36	58.95	901.41
EMW-04	1/30/2002	A	960.36	58	902.36
EMW-04	5/14/2002	A	960.36	59.1	901.26
EMW-04	7/31/2002	A	960.36	61.13	899.23
EMW-04	10/31/2002	A	960.36	62.5	897.86
EMW-04	1/30/2003	A	960.36	61.35	899.01
EMW-04	4/29/2003	A	960.36	60.6	899.76
EMW-04	8/7/2003	A	960.36	62.55	897.81
EMW-04	10/29/2003	A	960.36	62.85	897.51
EMW-04	1/28/2004	A	960.36	62.47	897.89
EMW-04	4/28/2004	A	960.36	62.05	898.31
EMW-04	7/30/2004	A	960.36	62.7	897.66
EMW-04	11/2/2004	A	960.36	64.37	895.99
EMW-04	1/27/2005	A	960.36	63.37	896.99
EMW-04	5/5/2005	A	960.36	61.5	898.86
EMW-04	7/26/2005	A	960.36	61.16	899.2
EMW-04	10/26/2005	A	960.36	60.97	899.39
EMW-04	1/26/2006	A	960.36	60.47	899.89
EMW-04	5/2/2006	A	960.36	60.45	899.91
EMW-04	7/25/2006	A	960.36	61.1	899.26
EMW-04	10/30/2006	A	960.36	62.2	898.16
EMW-04	1/29/2007	A	960.36	62	898.36
EMW-04	5/1/2007	A	960.36	62.8	897.56
EMW-04	7/31/2007	A	960.36	64.95	895.41

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-04	10/9/2007	A	960.36	65.2	895.16
EMW-04	8/1/2008	A	960.36	65.15	895.21
EMW-04	2/16/2009	A	960.36	64.96	895.4
EMW-04	5/19/2009	A	960.36	65.05	895.31
EMW-04	8/25/2009	A	962.42	66.1	896.32
EMW-04	11/17/2009	A	962.42	67.11	895.31
EMW-04	2/4/2010	A	962.42	66.59	895.83
EMW-04	5/3/2010	A	962.42	64.95	897.47
EMW-04	8/23/2010	A	962.42	64.61	897.81
EMW-04	11/29/2010	A	962.42	64.6	897.82
EMW-04	2/3/2011	A	962.42	63.94	898.48
EMW-04	5/2/2011	A	962.42	64.09	898.33
EMW-04	8/1/2011	A	962.42	65.95	896.47
EMW-04	11/2/2011	A	962.42	67.68	894.74
EMW-04	12/2/2011	A	961.69	67	894.69
EMW-04	2/1/2012	A	961.69	66.53	895.16
EMW-04	3/2/2012	A	961.69	66.62	895.07
EMW-04	4/2/2012	A	961.69	66.38	895.31
EMW-04	5/1/2012	A	961.69	66.62	895.07
EMW-04	6/1/2012	A	961.69	66.65	895.04
EMW-04	7/2/2012	A	961.69	67.03	894.66
EMW-04	8/2/2012	A	961.69	67.82	893.87
EMW-04	9/4/2012	A	961.69	68.21	893.48
EMW-04	10/1/2012	A	961.69	68.6	893.09
EMW-04	11/2/2012	A	961.69	68.64	893.05
EMW-04	12/3/2012	A	961.69	68.55	893.14
EMW-04	5/1/2013	A	961.69	67.9	893.79
EMW-05	1/16/1987	A	966.39	56.4	910.1
EMW-05	2/20/1987	A	966.39	56.4	910.1
EMW-05	3/17/1987	A	966.39	56.4	910.1
EMW-05	4/17/1987	A	966.39	56.3	910.2
EMW-05	5/20/1987	A	966.39	57	909.5
EMW-05	6/19/1987	A	966.39	57.26	909.24
EMW-05	7/16/1987	A	966.39	57.57	908.93
EMW-05	8/25/1987	A	966.39	58.05	908.45
EMW-05	10/7/1987	A	966.39	57.88	908.62
EMW-05	10/22/1987	A	966.39	57.5	909
EMW-05	11/24/1987	A	966.39	57.42	909.08
EMW-05	1/7/1988	A	966.39	57.1	909.4
EMW-05	2/15/1988	A	966.39	56.62	909.88
EMW-05	3/9/1988	A	966.39	56.59	909.91
EMW-05	4/14/1988	A	966.39	56.74	909.76
EMW-05	5/19/1988	A	966.39	56.47	910.03
EMW-05	6/28/1988	A	966.39	57.45	909.05
EMW-05	7/12/1988	A	966.39	57.62	908.88
EMW-05	11/23/1988	A	966.39	58.13	908.37
EMW-05	1/19/1989	A	966.39	51.02	915.48
EMW-05	2/14/1989	A	966.39	57.05	909.45
EMW-05	3/14/1989	A	966.39	57.03	909.47
EMW-05	7/1/1989	A	966.39	57.62	908.88
EMW-05	9/19/1989	A	966.39	60.15	906.35
EMW-05	1/22/1990	A	966.39	59.69	906.7
EMW-05	1/23/1990	A	966.39	59.65	906.74

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-05	1/24/1990	A	966.39	59.69	906.7
EMW-05	1/25/1990	A	966.39	59.74	906.65
EMW-05	1/26/1990	A	966.39	59.69	906.7
EMW-05	1/29/1990	A	966.39	59.64	906.75
EMW-05	1/30/1990	A	966.39	59.54	906.85
EMW-05	1/31/1990	A	966.39	59.59	906.8
EMW-05	2/1/1990	A	966.39	59.7	906.8
EMW-05	2/2/1990	A	966.39	59.8	906.7
EMW-05	2/8/1990	A	966.39	59.8	906.7
EMW-05	2/16/1990	A	966.39	59.85	906.65
EMW-05	2/23/1990	A	966.39	59.8	906.7
EMW-05	3/1/1990	A	966.39	59.7	906.8
EMW-05	3/9/1990	A	966.39	59.7	906.8
EMW-05	3/16/1990	A	966.39	59.7	906.8
EMW-05	3/21/1990	A	966.39	59.65	906.85
EMW-05	4/4/1990	A	966.39	59.9	906.6
EMW-05	4/18/1990	A	966.39	60.15	906.35
EMW-05	5/22/1990	A	966.39	60.44	905.95
EMW-05	6/19/1990	A	966.39	61	905.5
EMW-05	7/18/1990	A	966.39	61.85	904.65
EMW-05	8/17/1990	A	966.39	62.4	904.1
EMW-05	9/23/1990	A	966.39	62.1	904.4
EMW-05	10/18/1990	A	966.39	61.45	905.05
EMW-05	11/25/1990	A	966.39	60.59	905.8
EMW-05	12/17/1990	A	966.39	60.34	906.05
EMW-05	1/21/1991	A	966.39	61.99	904.4
EMW-05	2/16/1991	A	966.39	60.29	906.1
EMW-05	3/16/1991	A	966.39	60.49	905.9
EMW-05	4/22/1991	A	966.39	60.6	905.9
EMW-05	5/19/1991	A	966.39	60.8	905.7
EMW-05	6/19/1991	A	966.39	61.1	905.4
EMW-05	7/21/1991	A	966.39	61.95	904.55
EMW-05	8/18/1991	A	966.39	62.9	903.6
EMW-05	9/22/1991	A	966.39	63.4	903.1
EMW-05	10/31/1991	A	966.39	63	903.5
EMW-05	11/17/1991	A	966.39	62.8	903.7
EMW-05	1/21/1992	A	966.39	61.95	904.55
EMW-05	2/21/1992	A	966.39	61.33	905.17
EMW-05	3/25/1992	A	966.39	60.6	905.79
EMW-05	4/22/1992	A	966.39	60.2	906.19
EMW-05	5/14/1992	A	966.39	60	906.39
EMW-05	6/29/1992	A	966.39	59.8	906.59
EMW-05	7/29/1992	A	966.39	60.1	906.29
EMW-05	8/24/1992	A	966.39	60.05	906.34
EMW-05	10/6/1992	A	966.39	59.4	906.99
EMW-05	10/28/1992	A	966.39	59	907.39
EMW-05	11/23/1992	A	966.39	59.1	907.29
EMW-05	12/23/1992	A	966.39	59.6	906.79
EMW-05	2/4/1993	A	966.39	59	907.39
EMW-05	3/18/1993	A	966.39	57.1	909.29
EMW-05	4/15/1993	A	966.39	55.9	910.49
EMW-05	5/18/1993	A	966.39	54.6	911.79
EMW-05	6/10/1993	A	966.39	54.6	911.79

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-05	6/17/1993	A	966.39	54.5	911.89
EMW-05	7/14/1993	A	966.39	54.7	911.69
EMW-05	8/11/1993	A	966.39	55.1	911.29
EMW-05	9/24/1993	A	966.39	55.8	910.59
EMW-05	10/28/1993	A	966.39	55.9	910.49
EMW-05	11/24/1993	A	966.39	56	910.39
EMW-05	12/14/1993	A	966.39	55.6	910.79
EMW-05	1/28/1994	A	966.39	56.3	910.09
EMW-05	2/25/1994	A	966.39	56.2	910.19
EMW-05	3/23/1994	A	966.39	56.2	910.19
EMW-05	4/27/1994	A	966.39	57.3	909.09
EMW-05	5/27/1994	A	966.39	56.8	909.59
EMW-05	6/1/1994	A	966.39	57.4	908.99
EMW-05	7/22/1994	A	966.39	60.3	906.09
EMW-05	8/25/1994	A	966.39	61.7	904.69
EMW-05	9/22/1994	A	966.39	60.4	905.99
EMW-05	10/12/1994	A	966.39	60.6	905.79
EMW-05	11/18/1994	A	966.39	61	905.39
EMW-05	12/30/1994	A	966.39	61.4	904.99
EMW-05	1/30/1995	A	966.39	61.2	905.19
EMW-05	2/23/1995	A	966.39	60.7	905.69
EMW-05	3/30/1995	A	966.39	59.2	907.19
EMW-05	4/21/1995	A	966.39	59.2	907.19
EMW-05	5/26/1995	A	966.39	58.8	907.59
EMW-05	6/23/1995	A	966.39	58.88	907.51
EMW-05	7/27/1995	A	966.39	59.79	906.6
EMW-05	8/30/1995	A	966.39	60.77	905.62
EMW-05	9/29/1995	A	966.39	60.45	905.94
EMW-05	10/27/1995	A	966.39	60.47	905.92
EMW-05	11/28/1995	A	966.39	60.35	906.04
EMW-05	12/30/1995	A	966.39	60.15	906.24
EMW-05	1/31/1996	A	966.39	60.03	906.36
EMW-05	2/20/1996	A	966.39	59.95	906.44
EMW-05	3/29/1996	A	966.39	59.71	906.68
EMW-05	4/29/1996	A	966.39	60.5	905.89
EMW-05	5/31/1996	A	966.39	60.73	905.66
EMW-05	6/28/1996	A	966.39	61.17	905.22
EMW-05	7/31/1996	A	966.39	62.1	904.29
EMW-05	8/30/1996	A	966.39	63.09	903.3
EMW-05	9/28/1996	A	966.39	63.4	902.99
EMW-05	10/29/1996	A	966.39	63.29	903.1
EMW-05	1/15/1997	A	966.39	61.94	904.45
EMW-05	4/29/1997	A	966.39	62.25	904.14
EMW-05	7/29/1997	A	966.39	65.26	901.13
EMW-05	1/29/1998	A	966.39	64.8	901.59
EMW-05	5/8/1998	A	966.39	63.12	903.27
EMW-05	7/28/1998	A	966.39	62.48	903.91
EMW-05	10/29/1998	A	966.39	62.47	903.92
EMW-05	1/28/1999	A	966.39	62.1	904.29
EMW-05	4/28/1999	A	966.39	62.9	903.49
EMW-05	8/4/1999	A	966.39	64.7	901.69
EMW-05	10/13/1999	A	966.39	64.7	901.69
EMW-05	2/9/2000	A	966.39	54	912.39

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-05	5/2/2000	A	966.39	64.2	902.19
EMW-05	8/2/2000	A	966.39	65.55	900.84
EMW-05	10/25/2000	A	966.39	66.5	899.89
EMW-05	1/31/2001	A	966.39	64.5	901.89
EMW-05	5/24/2001	A	966.39	63.1	903.29
EMW-05	7/31/2001	A	966.39	64.3	902.09
EMW-05	10/30/2001	A	966.39	65.3	901.09
EMW-05	1/30/2002	A	966.39	64.5	901.89
EMW-05	5/14/2002	A	966.39	65.6	900.79
EMW-05	7/31/2002	A	966.39	67.03	899.36
EMW-05	10/31/2002	A	966.39	68.3	898.09
EMW-05	1/30/2003	A	966.39	67.5	898.89
EMW-05	4/29/2003	A	966.39	66.85	899.54
EMW-05	8/7/2003	A	966.39	68.5	897.89
EMW-05	10/29/2003	A	966.39	68.6	897.79
EMW-05	1/28/2004	A	966.39	68.6	897.79
EMW-05	4/28/2004	A	966.39	68.1	898.29
EMW-05	7/30/2004	A	966.39	68.25	898.14
EMW-05	11/2/2004	A	966.39	69.55	896.84
EMW-05	1/28/2005	A	966.39	69.7	896.69
EMW-05	5/5/2005	A	966.39	68.3	898.09
EMW-05	7/26/2005	A	966.39	67.95	898.44
EMW-05	10/27/2005	A	966.39	67.6	898.79
EMW-05	1/26/2006	A	966.39	67.17	899.22
EMW-05	5/2/2006	A	966.39	67	899.39
EMW-05	7/26/2006	A	966.39	66.85	899.54
EMW-05	10/30/2006	A	966.39	68.55	897.84
EMW-05	1/29/2007	A	966.39	68.7	897.69
EMW-05	5/2/2007	A	966.39	69.25	897.14
EMW-05	7/31/2007	A	966.39	70.1	896.29
EMW-05	4/14/2008	A	966.39	69.51	896.88
EMW-05	8/1/2008	A	966.39	70.21	896.18
EMW-05	5/19/2009	A	966.86	71.77	895.09
EMW-05	8/26/2009	A	966.86	72.9	893.96
EMW-05	11/17/2009	A	966.86	73.73	893.13
EMW-05	2/5/2010	A	966.86	73.33	893.53
EMW-05	5/3/2010	A	966.86	71.76	895.1
EMW-05	8/23/2010	A	966.86	71	895.86
EMW-05	11/29/2010	A	966.86	71.35	895.51
EMW-05	2/3/2011	A	966.86	70.89	895.97
EMW-05	5/2/2011	A	966.86	69.04	897.82
EMW-05	8/1/2011	A	966.86	72.54	894.32
EMW-05	11/2/2011	A	966.86	74.27	892.59
EMW-05	2/1/2012	A	967.793	73.25	894.543
EMW-05	5/1/2012	A	967.793	73.18	894.613
EMW-05	8/2/2012	A	967.793	74.32	893.473
EMW-05	11/2/2012	A	967.793	75.22	892.573
EMW-06	1/16/1987	A	960.06	52.95	910.3
EMW-06	2/20/1987	A	960.06	52.95	910.3
EMW-06	3/17/1987	A	960.06	52.95	910.3
EMW-06	4/17/1987	A	960.06	52.95	910.3
EMW-06	5/20/1987	A	960.06	53.55	909.7
EMW-06	6/19/1987	A	960.06	53.72	909.53

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-06	7/1/1987	A	960.06	53.83	909.42
EMW-06	7/16/1987	A	960.06	54.08	909.17
EMW-06	8/25/1987	A	960.06	54.42	908.83
EMW-06	10/7/1987	A	960.06	54.4	908.85
EMW-06	10/22/1987	A	960.06	54.22	909.03
EMW-06	11/24/1987	A	960.06	53.99	909.26
EMW-06	1/7/1988	A	960.06	53.65	909.6
EMW-06	2/15/1988	A	960.06	53.28	909.97
EMW-06	3/9/1988	A	960.06	53.11	910.14
EMW-06	4/14/1988	A	960.06	53.23	910.02
EMW-06	5/19/1988	A	960.06	53.11	910.14
EMW-06	6/28/1988	A	960.06	53.9	909.35
EMW-06	7/12/1988	A	960.06	55.53	907.72
EMW-06	8/8/1988	A	960.06	55.02	908.23
EMW-06	9/16/1988	A	960.06	56.1	907.15
EMW-06	11/23/1988	A	960.06	55.25	908
EMW-06	1/19/1989	A	960.06	53.63	909.62
EMW-06	2/14/1989	A	960.06	53.5	909.75
EMW-06	3/14/1989	A	960.06	53.58	909.67
EMW-06	7/1/1989	A	960.06	55.53	904.23
EMW-06	9/19/1989	A	960.06	55.92	907.33
EMW-06	1/23/1990	A	960.06	53.2	906.86
EMW-06	1/24/1990	A	960.06	53.2	906.86
EMW-06	1/25/1990	A	960.06	53.3	906.76
EMW-06	1/26/1990	A	960.06	53.2	906.86
EMW-06	1/29/1990	A	960.06	53.2	906.86
EMW-06	1/30/1990	A	960.06	53.1	906.96
EMW-06	1/31/1990	A	960.06	53.15	906.91
EMW-06	2/1/1990	A	960.06	52.9	906.86
EMW-06	2/2/1990	A	960.06	53	906.76
EMW-06	2/8/1990	A	960.06	52.95	906.81
EMW-06	2/16/1990	A	960.06	53	906.76
EMW-06	2/23/1990	A	960.06	52.95	906.81
EMW-06	3/1/1990	A	960.06	52.95	906.81
EMW-06	3/9/1990	A	960.06	52.9	906.86
EMW-06	3/16/1990	A	960.06	52.95	906.81
EMW-06	3/21/1990	A	960.06	52.9	906.86
EMW-06	4/4/1990	A	960.06	53.1	906.66
EMW-06	4/18/1990	A	960.06	53.1	906.66
EMW-06	6/19/1990	A	960.06	53.1	906.66
EMW-06	4/22/1992	A	960.06	53.6	906.46
EMW-06	5/14/1992	A	960.06	53.3	906.76
EMW-06	6/29/1992	A	960.06	53.1	906.96
EMW-06	7/29/1992	A	960.06	53.3	906.76
EMW-06	1/29/1993	A	960.06	52.4	907.66
EMW-06	2/4/1993	A	960.06	52.3	907.76
EMW-06	4/8/1993	A	960.06	48.5	911.56
EMW-06	5/18/1993	A	960.06	47.3	912.76
EMW-06	6/11/1993	A	960.06	47.4	912.66
EMW-06	6/14/1993	A	960.06	47.4	912.66
EMW-06	7/14/1993	A	960.06	47.5	912.56
EMW-06	8/11/1993	A	960.06	47.9	912.16
EMW-06	9/24/1993	A	960.06	48.5	911.56

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-06	10/28/1993	A	960.06	48.7	911.36
EMW-06	11/24/1993	A	960.06	48.9	911.16
EMW-06	12/14/1993	A	960.06	48.4	911.66
EMW-06	1/11/1994	A	960.06	49	911.06
EMW-06	1/28/1994	A	960.06	49	911.06
EMW-06	2/25/1994	A	960.06	48.9	911.16
EMW-06	3/23/1994	A	960.06	48.8	911.26
EMW-06	4/27/1994	A	960.06	50.1	909.96
EMW-06	5/27/1994	A	960.06	49.5	910.56
EMW-06	6/1/1994	A	960.06	50.3	909.76
EMW-06	7/22/1994	A	960.06	53.1	906.96
EMW-06	4/21/1995	A	960.06	52.2	907.86
EMW-06	5/26/1995	A	960.06	51.8	908.26
EMW-06	6/23/1995	A	960.06	51.77	908.29
EMW-06	7/27/1995	A	960.06	52.66	907.4
EMW-06	8/30/1995	A	960.06	53.65	906.41
EMW-06	9/29/1995	A	960.06	53.27	906.79
EMW-06	10/27/1995	A	960.06	53.41	906.65
EMW-06	11/28/1995	A	960.06	53.25	906.81
EMW-06	12/30/1995	A	960.06	53.08	906.98
EMW-06	1/31/1996	A	960.06	52.96	907.1
EMW-06	2/20/1996	A	960.06	52.88	907.18
EMW-06	3/30/1996	A	960.06	52.4	907.66
EMW-06	4/29/1996	A	960.06	53.43	906.63
EMW-06	5/31/1996	A	960.06	53.67	906.39
EMW-06	6/28/1996	A	960.06	54	906.06
EMW-06	7/31/1996	A	960.06	54.92	905.14
EMW-06	8/30/1996	A	960.06	56	904.06
EMW-06	9/28/1996	A	960.06	56.25	903.81
EMW-06	10/29/1996	A	960.06	56.15	903.91
EMW-06	1/15/1997	A	960.06	54.89	905.17
EMW-06	4/29/1997	A	960.06	55.25	904.81
EMW-06	7/29/1997	A	960.06	58.17	901.89
EMW-06	1/29/1998	A	960.06	57.8	902.26
EMW-06	5/8/1998	A	960.06	56.1	903.96
EMW-06	7/29/1998	A	960.06	55.55	904.51
EMW-06	10/29/1998	A	960.06	55.4	904.66
EMW-06	1/28/1999	A	960.06	55.05	905.01
EMW-06	4/28/1999	A	960.06	55.85	904.21
EMW-06	8/4/1999	A	960.06	57.67	902.39
EMW-06	10/13/1999	A	960.06	57.7	902.36
EMW-06	2/9/2000	A	960.06	57	903.06
EMW-06	5/2/2000	A	960.06	57.15	902.91
EMW-06	8/2/2000	A	960.06	58.55	901.51
EMW-06	10/25/2000	A	960.06	59.45	900.61
EMW-06	1/31/2001	A	960.06	57.5	902.56
EMW-06	5/24/2001	A	960.06	56.1	903.96
EMW-06	7/31/2001	A	960.06	57.2	902.86
EMW-06	10/30/2001	A	960.06	58.25	901.81
EMW-06	1/30/2002	A	960.06	57.5	902.56
EMW-06	5/14/2002	A	960.06	58.6	901.46
EMW-06	7/31/2002	A	960.06	60.1	899.96
EMW-06	10/31/2002	A	960.06	61.4	898.66

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-06	1/30/2003	A	960.06	65.6	894.46
EMW-06	4/29/2003	A	960.06	59.9	900.16
EMW-06	8/7/2003	A	960.06	61.5	898.56
EMW-06	10/29/2003	A	960.06	61.65	898.41
EMW-06	1/28/2004	A	960.06	61.67	898.39
EMW-06	4/28/2004	A	960.06	61.2	898.86
EMW-06	7/30/2004	A	960.06	61.4	898.66
EMW-06	11/2/2004	A	960.06	63.15	896.91
EMW-06	1/28/2005	A	960.06	63	897.06
EMW-06	5/5/2005	A	960.06	61.3	898.76
EMW-06	7/26/2005	A	960.06	60.9	899.16
EMW-06	10/27/2005	A	960.06	60.5	899.56
EMW-06	1/27/2006	A	960.06	60.07	899.99
EMW-06	5/2/2006	A	960.06	60	900.06
EMW-06	7/26/2006	A	960.06	57.4	902.66
EMW-06	10/30/2006	A	960.06	61.55	898.51
EMW-06	1/29/2007	A	960.06	61.7	898.36
EMW-06	5/2/2007	A	960.06	62.2	897.86
EMW-06	7/31/2007	A	960.06	64.2	895.86
EMW-06	10/9/2007	A	960.06	64.65	895.41
EMW-06	1/11/2008	A	960.06	61.97	898.09
EMW-06	4/14/2008	A	960.06	63.91	896.15
EMW-06	8/1/2008	A	960.06	64.47	895.59
EMW-06	11/17/2008	A	960.06	64.87	895.19
EMW-06	2/16/2009	A	960.06	57.29	902.77
EMW-06	5/19/2009	A	960.06	64.8	895.26
EMW-06	8/25/2009	A	962.12	65.95	896.17
EMW-06	11/18/2009	A	962.12	66.73	895.39
EMW-06	2/5/2010	A	962.12	66.34	895.78
EMW-06	5/7/2010	A	962.12	64.77	897.35
EMW-06	8/27/2010	A	962.12	64.25	897.87
EMW-06	11/29/2010	A	962.12	64.4	897.72
EMW-06	2/3/2011	A	962.12	63.87	898.25
EMW-06	5/3/2011	A	962.12	63.78	898.34
EMW-06	8/1/2011	A	962.12	65.6	896.52
EMW-06	11/2/2011	A	962.12	67.11	895.01
EMW-06	2/1/2012	A	961.009	66.22	894.789
EMW-06	5/1/2012	A	961.009	66.18	894.829
EMW-06	8/2/2012	A	961.009	67.21	893.799
EMW-06	11/2/2012	A	961.009	68.12	892.889
EMW-06	2/4/2013	A	961.009	66.81	894.199
EMW-06	5/1/2013	A	961.009	67.72	893.289
EMW-06	8/6/2013	A	962.12	68.68	893.44
EMW-06	11/4/2013	A	962.12	70.43	891.69
EMW-07	1/16/1987	A	960.04	50.84	909.2
EMW-07	2/20/1987	A	960.04	50.74	909.3
EMW-07	3/17/1987	A	960.04	50.84	909.2
EMW-07	4/17/1987	A	960.04	50.84	909.2
EMW-07	5/20/1987	A	960.04	51.74	908.3
EMW-07	6/19/1987	A	960.04	51.95	908.09
EMW-07	7/16/1987	A	960.04	52.43	907.61
EMW-07	8/25/1987	A	960.04	53.06	906.98
EMW-07	10/7/1987	A	960.04	52.69	907.35

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-07	10/22/1987	A	960.04	52.5	907.54
EMW-07	11/24/1987	A	960.04	52.13	907.91
EMW-07	1/7/1988	A	960.04	51.75	908.29
EMW-07	2/15/1988	A	960.04	51.47	908.57
EMW-07	3/9/1988	A	960.04	51.23	908.81
EMW-07	4/14/1988	A	960.04	51.39	908.65
EMW-07	5/19/1988	A	960.04	50.92	909.03
EMW-07	6/28/1988	A	960.04	52.22	907.73
EMW-07	7/15/1988	A	960.04	52.66	907.29
EMW-07	8/8/1988	A	960.04	53.58	906.37
EMW-07	9/16/1988	A	960.04	54.04	905.91
EMW-07	1/19/1989	A	960.04	51.56	908.39
EMW-07	2/14/1989	A	960.04	51.45	908.5
EMW-07	3/14/1989	A	960.04	51.4	908.55
EMW-07	7/1/1989	A	960.04	52.75	907.29
EMW-07	9/19/1989	A	960.04	53.75	906.29
EMW-07	1/22/1990	A	960.04	54.29	905.75
EMW-07	1/23/1990	A	960.04	54.24	905.8
EMW-07	1/24/1990	A	960.04	50.29	905.75
EMW-07	1/25/1990	A	960.04	50.44	905.6
EMW-07	1/26/1990	A	960.04	50.24	905.8
EMW-07	1/29/1990	A	960.04	50.24	905.8
EMW-07	1/30/1990	A	960.04	53.95	906
EMW-07	1/31/1990	A	960.04	54.1	905.85
EMW-07	2/1/1990	A	960.04	54.1	905.85
EMW-07	2/2/1990	A	960.04	54.3	905.65
EMW-07	2/8/1990	A	960.04	54.3	905.65
EMW-07	2/16/1990	A	960.04	54.3	905.65
EMW-07	2/23/1990	A	960.04	54.15	905.8
EMW-07	3/1/1990	A	960.04	54	905.95
EMW-07	3/9/1990	A	960.04	53.95	906
EMW-07	3/16/1990	A	960.04	54.1	905.85
EMW-07	3/21/1990	A	960.04	54.1	905.85
EMW-07	4/4/1990	A	960.04	54.35	905.6
EMW-07	4/18/1990	A	960.04	54.7	905.25
EMW-07	5/22/1990	A	960.04	55.15	904.8
EMW-07	6/19/1990	A	960.04	55.6	904.35
EMW-07	7/18/1990	A	960.04	56.5	903.45
EMW-07	8/17/1990	A	960.04	57.15	902.8
EMW-07	9/23/1990	A	960.04	56.5	903.45
EMW-07	10/18/1990	A	960.04	55.7	904.25
EMW-07	11/25/1990	A	960.04	54.9	905.05
EMW-07	12/17/1990	A	960.04	54.75	905.2
EMW-07	1/23/1991	A	960.04	54.9	905.05
EMW-07	2/16/1991	A	960.04	54.75	905.2
EMW-07	3/16/1991	A	960.04	55	904.95
EMW-07	4/22/1991	A	960.04	54.95	905
EMW-07	5/19/1991	A	960.04	55.2	904.75
EMW-07	6/19/1991	A	960.04	55.5	904.45
EMW-07	7/21/1991	A	960.04	56.7	903.25
EMW-07	8/18/1991	A	960.04	57.8	902.15
EMW-07	9/24/1991	A	960.04	58.1	901.85
EMW-07	10/31/1991	A	960.04	57.5	902.45

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-07	11/17/1991	A	960.04	57.15	902.8
EMW-07	1/20/1992	A	960.04	56.19	903.85
EMW-07	2/21/1992	A	960.04	55.88	904.16
EMW-07	3/25/1992	A	960.04	54.65	905.39
EMW-07	4/22/1992	A	960.04	54.4	905.64
EMW-07	5/15/1992	A	960.04	54.4	905.64
EMW-07	6/30/1992	A	960.04	54.4	905.64
EMW-07	7/29/1992	A	960.04	54.9	905.14
EMW-07	8/24/1992	A	960.04	54.9	905.14
EMW-07	10/5/1992	A	960.04	54.1	905.94
EMW-07	10/28/1992	A	960.04	53.6	906.44
EMW-07	11/23/1992	A	960.04	53.3	906.74
EMW-07	12/23/1992	A	960.04	52.9	907.14
EMW-07	2/4/1993	A	960.04	52.5	907.54
EMW-07	3/19/1993	A	960.04	50.9	909.14
EMW-07	4/15/1993	A	960.04	50	910.04
EMW-07	5/18/1993	A	960.04	49.1	910.94
EMW-07	6/11/1993	A	960.04	49.2	910.84
EMW-07	6/18/1993	A	960.04	49	911.04
EMW-07	7/14/1993	A	960.04	49.3	910.74
EMW-07	8/9/1993	A	960.04	50	910.04
EMW-07	9/24/1993	A	960.04	50.4	909.64
EMW-07	10/28/1993	A	960.04	50.3	909.74
EMW-07	11/23/1993	A	960.04	50.3	909.74
EMW-07	12/14/1993	A	960.04	50	910.04
EMW-07	1/28/1994	A	960.04	50.7	909.34
EMW-07	2/25/1994	A	960.04	50.7	909.34
EMW-07	3/23/1994	A	960.04	50.7	909.34
EMW-07	4/27/1994	A	960.04	51.7	908.34
EMW-07	5/26/1994	A	960.04	51.9	908.14
EMW-07	6/1/1994	A	960.04	52	908.04
EMW-07	7/22/1994	A	960.04	54.8	905.24
EMW-07	8/25/1994	A	960.04	56.2	903.84
EMW-07	9/22/1994	A	960.04	55.3	904.74
EMW-07	10/12/1994	A	960.04	55.2	904.84
EMW-07	11/18/1994	A	960.04	55.4	904.64
EMW-07	12/30/1994	A	960.04	55.5	904.54
EMW-07	1/30/1995	A	960.04	55	905.04
EMW-07	2/23/1995	A	960.04	54.5	905.54
EMW-07	3/30/1995	A	960.04	53.3	906.74
EMW-07	4/21/1995	A	960.04	53.3	906.74
EMW-07	5/26/1995	A	960.04	53	907.04
EMW-07	6/23/1995	A	960.04	53.12	906.92
EMW-07	7/27/1995	A	960.04	54.25	905.79
EMW-07	8/30/1995	A	960.04	55.07	904.97
EMW-07	9/29/1995	A	960.04	55.04	905
EMW-07	10/27/1995	A	960.04	54.65	905.39
EMW-07	11/29/1995	A	960.04	54.4	905.64
EMW-07	12/30/1995	A	960.04	54	906.04
EMW-07	1/31/1996	A	960.04	43.9	916.14
EMW-07	2/20/1996	A	960.04	53.92	906.12
EMW-07	3/30/1996	A	960.04	53.9	906.14
EMW-07	4/30/1996	A	960.04	54.75	905.29

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-07	5/31/1996	A	960.04	55.05	904.99
EMW-07	6/28/1996	A	960.04	56.5	903.54
EMW-07	7/31/1996	A	960.04	57.05	902.99
EMW-07	8/30/1996	A	960.04	58.08	901.96
EMW-07	9/28/1996	A	960.04	57.92	902.12
EMW-07	10/30/1996	A	960.04	57.75	902.29
EMW-07	1/16/1997	A	960.04	56.11	903.93
EMW-07	4/30/1997	A	960.04	56.73	903.31
EMW-07	7/29/1997	A	960.04	57.97	902.07
EMW-07	1/30/1998	A	960.04	56.83	903.21
EMW-07	5/8/1998	A	960.04	55.05	903.94
EMW-07	7/28/1998	A	960.04	54.9	905.14
EMW-07	10/29/1998	A	960.04	54.35	905.69
EMW-07	1/28/1999	A	960.04	53.8	906.24
EMW-07	4/29/1999	A	960.04	56.4	903.64
EMW-07	8/5/1999	A	960.04	57.15	902.89
EMW-07	10/13/1999	A	960.04	57.2	902.84
EMW-07	2/9/2000	A	960.04	56	904.04
EMW-07	5/4/2000	A	960.04	56.3	903.74
EMW-07	8/3/2000	A	960.04	58.4	901.64
EMW-07	10/25/2000	A	960.04	59.2	900.84
EMW-07	2/1/2001	A	960.04	57	903.04
EMW-07	5/24/2001	A	960.04	55.7	904.34
EMW-07	7/31/2001	A	960.04	57.2	902.84
EMW-07	10/31/2001	A	960.04	57.9	902.14
EMW-07	1/30/2002	A	960.04	57	903.04
EMW-07	5/14/2002	A	960.04	58	902.04
EMW-07	7/31/2002	A	960.04	60	900.04
EMW-07	10/31/2002	A	960.04	61.1	898.94
EMW-07	1/31/2003	A	960.04	63.4	896.64
EMW-07	5/1/2003	A	960.04	59.1	900.94
EMW-07	8/8/2003	A	960.04	61.7	898.34
EMW-07	10/29/2003	A	960.04	61.3	898.74
EMW-07	1/28/2004	A	960.04	60.75	899.29
EMW-07	4/29/2004	A	960.04	60.3	899.74
EMW-07	7/30/2004	A	960.04	61.3	898.74
EMW-07	11/2/2004	A	960.04	63.2	896.84
EMW-07	1/27/2005	A	960.04	61.7	898.34
EMW-07	5/5/2005	A	960.04	60.1	899.94
EMW-07	7/27/2005	A	960.04	60.3	899.74
EMW-07	10/27/2005	A	960.04	60	900.04
EMW-07	1/27/2006	A	960.04	58.55	901.49
EMW-07	5/3/2006	A	960.04	59.1	900.94
EMW-07	7/27/2006	A	960.04	59.5	900.54
EMW-07	10/30/2006	A	960.04	61.1	898.94
EMW-07	1/29/2007	A	960.04	60.7	899.34
EMW-07	4/30/2007	A	960.04	60.7	899.34
EMW-07	7/31/2007	A	960.04	64.2	895.84
EMW-07	1/10/2008	A	960.04	62.79	897.25
EMW-07	4/14/2008	A	960.04	62.18	897.86
EMW-07	8/4/2008	A	960.04	63.6	896.44
EMW-07	11/18/2008	A	960.04	64.11	895.93
EMW-07	2/20/2009	A	960.04	65.56	894.48

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-07	5/19/2009	A	960.04	63.1	896.94
EMW-07	8/25/2009	A	962.1	64.42	897.68
EMW-07	11/18/2009	A	962.1	65.51	896.59
EMW-07	2/5/2010	A	962.1	64.57	897.53
EMW-07	5/6/2010	A	962.1	62.72	899.38
EMW-07	8/24/2010	A	962.1	62.7	899.4
EMW-07	11/29/2010	A	962.1	62.7	899.4
EMW-07	2/3/2011	A	962.1	62.55	899.55
EMW-07	5/3/2011	A	962.1	62	900.1
EMW-07	8/1/2011	A	962.1	64.48	897.62
EMW-07	11/2/2011	A	962.1	66.02	896.08
EMW-07	12/2/2011	A	958.73	64.92	893.81
EMW-07	2/1/2012	A	958.73	64.7	894.03
EMW-07	3/2/2012	A	958.73	64.78	893.95
EMW-07	5/1/2012	A	958.73	64.47	894.26
EMW-07	6/1/2012	A	958.73	64.54	894.19
EMW-07	7/2/2012	A	958.73	65.23	893.5
EMW-07	8/3/2012	A	958.73	66.02	892.71
EMW-07	9/4/2012	A	958.73	66.44	892.29
EMW-07	10/1/2012	A	958.73	66.82	891.91
EMW-07	11/2/2012	A	958.73	66.9	891.83
EMW-07	12/3/2012	A	958.73	66.61	892.12
EMW-07R	2/5/2013	A	957.434	64.05	893.384
EMW-07R	5/1/2013	A	957.434	76.86	880.574
EMW-07R	8/6/2013	A	957.434	66.51	890.924
EMW-07R	11/4/2013	A	957.434	67.35	890.084
EMW-08	1/16/1987	A	961.92	51.45	910.5
EMW-08	2/20/1987	A	961.92	51.55	910.4
EMW-08	3/17/1987	A	961.92	51.65	910.3
EMW-08	4/17/1987	A	961.92	51.35	910.6
EMW-08	5/20/1987	A	961.92	52.25	909.7
EMW-08	6/19/1987	A	961.92	52.32	909.63
EMW-08	7/16/1987	A	961.92	51.43	910.52
EMW-08	8/25/1987	A	961.92	52.95	909
EMW-08	10/7/1987	A	961.92	52.47	909.48
EMW-08	10/22/1987	A	961.92	52.45	909.5
EMW-08	11/24/1987	A	961.92	52.35	909.6
EMW-08	1/7/1988	A	961.92	52.29	909.66
EMW-08	2/15/1988	A	961.92	51.82	910.13
EMW-08	3/9/1988	A	961.92	51.9	910.05
EMW-08	4/14/1988	A	961.92	52.01	909.94
EMW-08	5/19/1988	A	961.92	51.72	910.23
EMW-08	6/28/1988	A	961.92	52.73	909.22
EMW-08	7/13/1988	A	961.92	52.98	908.97
EMW-08	8/8/1988	A	961.92	58.83	903.12
EMW-08	9/14/1988	A	961.92	54.26	907.69
EMW-08	11/23/1988	A	961.92	59.05	902.9
EMW-08	1/19/1989	A	961.92	52.7	909.25
EMW-08	2/14/1989	A	961.92	52.3	909.65
EMW-08	3/14/1989	A	961.92	52.22	909.73
EMW-08	7/1/1989	A	961.92	52.98	908.97
EMW-08	9/19/1989	A	961.92	53.94	907.71
EMW-08	11/20/1989	A	961.92	55.1	906.85

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-08	1/22/1990	A	961.92	55	906.95
EMW-08	1/23/1990	A	961.92	55.11	906.84
EMW-08	1/24/1990	A	961.92	55.09	906.86
EMW-08	1/25/1990	A	961.92	55.2	906.75
EMW-08	1/26/1990	A	961.92	55	906.95
EMW-08	1/29/1990	A	961.92	54.9	907.05
EMW-08	1/30/1990	A	961.92	54.8	907.15
EMW-08	1/31/1990	A	961.92	54.85	907.1
EMW-08	2/1/1990	A	961.92	54.95	907
EMW-08	2/2/1990	A	961.92	55.15	906.8
EMW-08	2/8/1990	A	961.92	55.2	906.75
EMW-08	2/16/1990	A	961.92	55.2	906.75
EMW-08	2/23/1990	A	961.92	55.2	906.75
EMW-08	3/1/1990	A	961.92	55	906.95
EMW-08	3/9/1990	A	961.92	55	906.95
EMW-08	3/16/1990	A	961.92	55.1	906.85
EMW-08	3/21/1990	A	961.92	55	906.95
EMW-08	4/4/1990	A	961.92	55.2	906.75
EMW-08	4/18/1990	A	961.92	55.45	906.5
EMW-08	5/22/1990	A	961.92	55.55	906.4
EMW-08	6/19/1990	A	961.92	56	905.95
EMW-08	7/18/1990	A	961.92	56.8	905.15
EMW-08	8/17/1990	A	961.92	57.4	904.55
EMW-08	9/23/1990	A	961.92	57.2	904.75
EMW-08	10/18/1990	A	961.92	56.75	905.2
EMW-08	12/17/1990	A	961.92	56	905.95
EMW-08	1/23/1991	A	961.92	56.1	905.85
EMW-08	2/16/1991	A	961.92	55.7	906.25
EMW-08	3/16/1991	A	961.92	56.1	905.85
EMW-08	4/22/1991	A	961.92	56	905.95
EMW-08	5/19/1991	A	961.92	56	905.95
EMW-08	6/19/1991	A	961.92	56.4	905.55
EMW-08	7/21/1991	A	961.92	57.25	904.7
EMW-08	8/18/1991	A	961.92	58	903.95
EMW-08	9/23/1991	A	961.92	58.2	903.75
EMW-08	10/31/1991	A	961.92	58.2	903.75
EMW-08	11/17/1991	A	961.92	58.15	903.8
EMW-08	1/19/1992	A	961.92	57.45	904.5
EMW-08	2/21/1992	A	961.92	56.88	905.07
EMW-08	3/25/1992	A	961.92	56.1	905.82
EMW-08	4/22/1992	A	961.92	55.7	906.22
EMW-08	5/14/1992	A	961.92	55.35	906.57
EMW-08	6/30/1992	A	961.92	55.2	906.72
EMW-08	7/29/1992	A	961.92	55.4	906.52
EMW-08	8/24/1992	A	961.92	55.4	906.52
EMW-08	10/7/1992	A	961.92	54.8	907.12
EMW-08	10/28/1992	A	961.92	54.3	907.62
EMW-08	11/23/1992	A	961.92	54.1	907.82
EMW-08	12/1/1992	A	961.92	54.3	907.62
EMW-08	12/9/1992	A	961.92	54.4	907.52
EMW-08	12/18/1992	A	961.92	54.1	907.82
EMW-08	12/31/1992	A	961.92	54.3	907.62
EMW-08	1/12/1993	A	961.92	54.2	907.72

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-08	1/29/1993	A	961.92	53.9	908.02
EMW-08	2/4/1993	A	961.92	53.7	908.22
EMW-08	3/12/1993	A	961.92	52.3	909.62
EMW-08	4/2/1993	A	961.92	51.3	910.62
EMW-08	4/9/1993	A	961.92	51.1	910.82
EMW-08	4/14/1993	A	961.92	51	910.92
EMW-08	4/23/1993	A	961.92	50.5	911.42
EMW-08	4/28/1993	A	961.92	50.4	911.52
EMW-08	5/7/1993	A	961.92	49.6	912.32
EMW-08	5/14/1993	A	961.92	49.5	912.42
EMW-08	5/18/1993	A	961.92	49.4	912.52
EMW-08	5/27/1993	A	961.92	49.3	912.62
EMW-08	6/4/1993	A	961.92	49.2	912.72
EMW-08	6/10/1993	A	961.92	49.1	912.82
EMW-08	6/15/1993	A	961.92	48.9	913.02
EMW-08	7/14/1993	A	961.92	48.8	913.12
EMW-08	8/11/1993	A	961.92	49.1	912.82
EMW-08	8/18/1993	A	961.92	49.3	912.62
EMW-08	8/25/1993	A	961.92	49.5	912.42
EMW-08	9/3/1993	A	961.92	49.6	912.32
EMW-08	9/9/1993	A	961.92	49.6	912.32
EMW-08	9/20/1993	A	961.92	49.6	912.32
EMW-08	9/24/1993	A	961.92	49.7	912.22
EMW-08	10/10/1993	A	961.92	49.8	912.12
EMW-08	10/15/1993	A	961.92	49.7	912.22
EMW-08	10/28/1993	A	961.92	49.8	912.12
EMW-08	11/4/1993	A	961.92	50	911.92
EMW-08	11/11/1993	A	961.92	49.9	912.02
EMW-08	11/19/1993	A	961.92	50	911.92
EMW-08	11/20/1993	A	961.92	54.1	907.82
EMW-08	11/23/1993	A	961.92	50	911.92
EMW-08	12/3/1993	A	961.92	50	911.92
EMW-08	12/10/1993	A	961.92	49.7	912.22
EMW-08	12/14/1993	A	961.92	49.7	912.22
EMW-08	12/17/1993	A	961.92	49.8	912.12
EMW-08	12/28/1993	A	961.92	50.2	911.72
EMW-08	12/28/1993	A	961.92	50.2	911.72
EMW-08	1/5/1994	A	961.92	50	911.92
EMW-08	1/6/1994	A	961.92	50	911.92
EMW-08	1/21/1994	A	961.92	50.2	911.72
EMW-08	1/27/1994	A	961.92	50.1	911.82
EMW-08	2/4/1994	A	961.92	50.1	911.82
EMW-08	2/19/1994	A	961.92	50.3	911.62
EMW-08	2/25/1994	A	961.92	50.2	911.72
EMW-08	3/18/1994	A	961.92	50.2	911.72
EMW-08	3/21/1994	A	961.92	50.1	911.82
EMW-08	4/14/1994	A	961.92	50.6	911.32
EMW-08	4/27/1994	A	961.92	51.2	910.72
EMW-08	5/25/1994	A	961.92	51.1	910.82
EMW-08	6/1/1994	A	961.92	51.1	910.82
EMW-08	7/22/1994	A	961.92	54	907.92
EMW-08	8/25/1994	A	961.92	55.2	906.72
EMW-08	9/22/1994	A	961.92	54.2	907.72

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-08	10/12/1994	A	961.92	54.3	907.62
EMW-08	11/18/1994	A	961.92	54.4	907.52
EMW-08	12/30/1994	A	961.92	54.9	907.02
EMW-08	1/30/1995	A	961.92	54.5	907.42
EMW-08	2/23/1995	A	961.92	54.1	907.82
EMW-08	3/30/1995	A	961.92	53	908.92
EMW-08	4/21/1995	A	961.92	53	908.92
EMW-08	5/26/1995	A	961.92	52.6	909.32
EMW-08	6/23/1995	A	961.92	52.8	909.12
EMW-08	7/27/1995	A	961.92	53.84	908.08
EMW-08	8/30/1995	A	961.92	54.56	907.36
EMW-08	9/29/1995	A	961.92	54.46	907.46
EMW-08	10/27/1995	A	961.92	54.35	907.57
EMW-08	11/28/1995	A	961.92	54.3	907.62
EMW-08	12/30/1995	A	961.92	54.1	907.82
EMW-08	1/31/1996	A	961.92	53.93	907.99
EMW-08	2/20/1996	A	961.92	53.95	907.97
EMW-08	3/29/1996	A	961.92	54.1	907.82
EMW-08	4/29/1996	A	961.92	54.52	907.4
EMW-08	5/31/1996	A	961.92	54.77	907.15
EMW-08	6/28/1996	A	961.92	55.5	906.42
EMW-08	7/31/1996	A	961.92	56.28	905.64
EMW-08	8/30/1996	A	961.92	56.9	905.02
EMW-08	9/28/1996	A	961.92	57	904.92
EMW-08	10/30/1996	A	961.92	57	904.92
EMW-08	1/15/1997	A	961.92	55.73	906.19
EMW-08	4/29/1997	A	961.92	56.45	905.47
EMW-08	7/29/1997	A	961.92	59.3	902.62
EMW-08	1/30/1998	A	961.92	58.93	902.99
EMW-08	5/8/1998	A	961.92	57	906.87
EMW-08	7/29/1998	A	961.92	56.65	905.27
EMW-08	10/29/1998	A	961.92	56.45	905.47
EMW-08	1/28/1999	A	961.92	56.2	905.72
EMW-08	4/28/1999	A	961.92	56.95	904.97
EMW-08	8/4/1999	A	961.92	58.4	903.52
EMW-08	10/13/1999	A	961.92	60	901.92
EMW-08	2/9/2000	A	961.92	58.05	903.87
EMW-08	5/2/2000	A	961.92	58	903.92
EMW-08	8/3/2000	A	961.92	59.57	902.35
EMW-08	10/25/2000	A	961.92	60.1	901.82
EMW-08	1/31/2001	A	961.92	58.35	903.57
EMW-08	5/24/2001	A	961.92	57.5	904.42
EMW-08	7/31/2001	A	961.92	58.5	903.42
EMW-08	10/30/2001	A	961.92	59.3	902.62
EMW-08	1/31/2002	A	961.92	59.25	902.67
EMW-08	5/14/2002	A	961.92	59.6	902.32
EMW-08	7/31/2002	A	961.92	61.37	900.55
EMW-08	10/31/2002	A	961.92	62.2	899.72
EMW-08	1/31/2003	A	961.92	61.6	900.32
EMW-08	4/29/2003	A	961.92	61.4	900.52
EMW-08	8/8/2003	A	961.92	63.1	898.82
EMW-08	10/29/2003	A	961.92	63.15	898.77
EMW-08	1/29/2004	A	961.92	63.6	898.32

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-08	4/29/2004	A	961.92	63.1	898.82
EMW-08	7/30/2004	A	961.92	62.65	899.27
EMW-08	11/2/2004	A	961.92	65	896.92
EMW-08	5/6/2005	A	961.92	63.5	898.42
EMW-08	7/26/2005	A	961.92	62.8	899.12
EMW-08	10/27/2005	A	961.92	62	899.92
EMW-08	1/27/2006	A	961.92	61.85	900.07
EMW-08	5/3/2006	A	961.92	62	899.92
EMW-08	7/26/2006	A	961.92	62	899.92
EMW-08	10/31/2006	A	961.92	62.8	899.12
EMW-08	1/30/2007	A	961.92	63.9	898.02
EMW-08	5/2/2007	A	961.92	63.5	898.42
EMW-08	8/1/2007	A	961.92	64.85	897.07
EMW-08	11/17/2008	A	961.92	66.79	895.13
EMW-08	2/17/2009	A	961.92	66.43	895.49
EMW-08	5/19/2009	A	961.92	67.01	894.91
EMW-08	8/24/2009	A	963.98	68.49	895.49
EMW-08	11/18/2009	A	963.98	68.65	895.33
EMW-08	2/2/2010	A	963.98	68.59	895.39
EMW-08	5/4/2010	A	963.98	67	896.98
EMW-08	8/24/2010	A	963.98	66.64	897.34
EMW-08	11/29/2010	A	963.98	67	896.98
EMW-08	2/3/2011	A	963.98	67.01	896.97
EMW-08	5/2/2011	A	963.98	66.51	897.47
EMW-08	8/1/2011	A	963.98	68.1	895.88
EMW-08	11/2/2011	A	963.98	67.66	
EMW-08	12/2/2011	A	964.49	68.86	
EMW-08R	3/2/2012	A	962.286	68.12	894.166
EMW-08R	3/13/2012	A	962.286	67.88	894.406
EMW-08R	4/2/2012	A	962.286	67.81	894.476
EMW-08R	5/1/2012	A	964.49	67.2	897.29
EMW-08R	6/1/2012	A	962.286	68.09	894.196
EMW-08R	7/2/2012	A	962.286	68.62	893.666
EMW-08R	8/2/2012	A	962.286	68.58	893.706
EMW-08R	9/4/2012	A	962.286	69.18	893.106
EMW-08R	10/1/2012	A	962.286	69.56	892.726
EMW-08R	11/1/2012	A	962.286	69.55	892.736
EMW-08R	12/3/2012	A	962.286	69.63	892.656
EMW-08R	2/4/2013	A	962.286	69.66	892.626
EMW-08R	5/1/2013	A	962.286	70.61	891.676
EMW-08R	8/6/2013	A	962.286	71.44	890.846
EMW-08R	11/4/2013	A	962.286	73.27	889.016
EMW-09	1/16/1987	A	960.9	50.2	910.7
EMW-09	2/20/1987	A	960.9	50.2	910.7
EMW-09	3/17/1987	A	960.9	50.3	910.6
EMW-09	4/17/1987	A	960.9	50.1	910.8
EMW-09	5/20/1987	A	960.9	50.7	910.2
EMW-09	6/19/1987	A	960.9	50.87	910.03
EMW-09	7/1/1987	A	960.9	50.95	909.95
EMW-09	7/16/1987	A	960.9	51.15	909.75
EMW-09	8/25/1987	A	960.9	51.58	909.32
EMW-09	10/7/1987	A	960.9	51.38	909.52
EMW-09	10/22/1987	A	960.9	51.26	909.64

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-09	11/24/1987	A	960.9	51.12	909.78
EMW-09	1/7/1988	A	960.9	50.88	910.02
EMW-09	2/15/1988	A	960.9	50.41	910.49
EMW-09	3/9/1988	A	960.9	50.44	910.46
EMW-09	4/14/1988	A	960.9	50.43	910.47
EMW-09	5/19/1988	A	960.9	50.25	910.65
EMW-09	6/28/1988	A	960.9	50.84	910.06
EMW-09	7/13/1988	A	960.9	51.75	909.15
EMW-09	8/8/1988	A	960.9	52.14	908.76
EMW-09	9/16/1988	A	960.9	52.5	908.4
EMW-09	11/23/1988	A	960.9	53.85	907.05
EMW-09	1/19/1989	A	960.9	50.8	910.1
EMW-09	2/14/1989	A	960.9	50.85	910.05
EMW-09	3/14/1989	A	960.9	50.82	910.08
EMW-09	2/4/2013	A	962.96	49.6	913.36
EMW-09	5/1/2013	A	962.96	51	911.96
EMW-09	11/4/2013	A	962.96		
EMW-10	4/14/1988	A	957.85	47.91	909.94
EMW-10	5/19/1988	A	957.85	45.8	912.05
EMW-10	6/28/1988	A	957.85	-0.05	957.9
EMW-10	7/13/1988	A	957.85	49.22	908.63
EMW-10	7/1/1989	A	957.85	49.22	908.63
EMW-10	1/22/1990	A	957.85	50.85	907
EMW-10	1/23/1990	A	957.85	51.02	906.83
EMW-10	1/24/1990	A	957.85	51	906.85
EMW-10	1/25/1990	A	957.85	51.1	906.75
EMW-10	1/26/1990	A	957.85	51	906.85
EMW-10	1/29/1990	A	957.85	50.95	906.9
EMW-10	1/30/1990	A	957.85	50.85	907.05
EMW-10	1/31/1990	A	957.85	50.9	907
EMW-10	2/1/1990	A	957.85	50.95	906.95
EMW-10	2/2/1990	A	957.85	51.15	906.75
EMW-10	2/8/1990	A	957.85	51.1	906.8
EMW-10	2/16/1990	A	957.85	51.15	906.75
EMW-10	2/23/1990	A	957.85	51.1	906.8
EMW-10	3/1/1990	A	957.85	51	906.9
EMW-10	3/9/1990	A	957.85	51	906.9
EMW-10	3/16/1990	A	957.85	51	906.9
EMW-10	3/21/1990	A	957.85	51.1	906.8
EMW-10	4/4/1990	A	957.85	51.15	906.75
EMW-10	4/18/1990	A	957.85	51.4	906.5
EMW-10	5/22/1990	A	957.85	51.7	906.2
EMW-10	6/19/1990	A	957.85	52.1	905.8
EMW-10	7/18/1990	A	957.85	52.9	905
EMW-10	8/17/1990	A	957.85	53.5	904.4
EMW-10	9/23/1990	A	957.85	53.3	904.6
EMW-10	10/18/1990	A	957.85	52.8	905.1
EMW-10	11/25/1990	A	957.85	52	905.9
EMW-10	12/17/1990	A	957.85	51.85	906.05
EMW-10	1/23/1991	A	957.85	50.8	906.8
EMW-10	2/16/1991	A	957.85	51.65	906.25
EMW-10	3/16/1991	A	957.85	52	905.9
EMW-10	4/22/1991	A	957.85	51.9	906

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-10	5/19/1991	A	957.85	52.05	905.85
EMW-10	6/19/1991	A	957.85	52.35	905.55
EMW-10	7/21/1991	A	957.85	53.15	904.7
EMW-10	8/18/1991	A	957.85	53.95	903.9
EMW-10	9/23/1991	A	957.85	54.5	903.35
EMW-10	10/31/1991	A	957.85	54.15	903.7
EMW-10	11/17/1991	A	957.85	54.05	903.8
EMW-10	1/21/1992	A	957.85	53.25	904.6
EMW-10	2/21/1992	A	957.85	52.87	904.98
EMW-10	3/25/1992	A	957.85	52.05	905.8
EMW-10	5/14/1992	A	957.85	51.35	906.5
EMW-10	6/30/1992	A	957.85	51.1	906.75
EMW-10	7/29/1992	A	957.85	51.3	906.55
EMW-10	8/24/1992	A	957.85	51.35	906.5
EMW-10	10/6/1992	A	957.85	50.7	907.15
EMW-10	10/28/1992	A	957.85	50.3	907.55
EMW-10	11/23/1992	A	957.85	50.6	907.25
EMW-10	12/1/1992	A	957.85	50.7	907.15
EMW-10	12/9/1992	A	957.85	50.8	907.05
EMW-10	12/18/1992	A	957.85	50.8	907.05
EMW-10	12/31/1992	A	957.85	50.9	906.95
EMW-10	1/12/1993	A	957.85	50.8	907.05
EMW-10	1/29/1993	A	957.85	50.5	907.35
EMW-10	2/4/1993	A	957.85	50.4	907.45
EMW-10	3/12/1993	A	957.85	48.9	908.95
EMW-10	4/2/1993	A	957.85	48	909.85
EMW-10	4/9/1993	A	957.85	47.7	910.15
EMW-10	4/14/1993	A	957.85	47.6	910.25
EMW-10	4/23/1993	A	957.85	46.9	910.95
EMW-10	4/28/1993	A	957.85	46.7	911.15
EMW-10	5/7/1993	A	957.85	45.9	911.95
EMW-10	5/14/1993	A	957.85	44.5	913.35
EMW-10	5/18/1993	A	957.85	46.1	911.75
EMW-10	5/27/1993	A	957.85	46.2	911.65
EMW-10	6/4/1993	A	957.85	46	911.85
EMW-10	6/10/1993	A	957.85	45.8	912.05
EMW-10	6/15/1993	A	957.85	45.3	912.55
EMW-10	7/14/1993	A	957.85	45.7	912.15
EMW-10	7/30/1993	A	957.85	46.1	911.75
EMW-10	8/11/1993	A	957.85	46.1	911.75
EMW-10	8/18/1993	A	957.85	46.5	911.35
EMW-10	8/25/1993	A	957.85	45.6	912.25
EMW-10	9/3/1993	A	957.85	46.8	911.05
EMW-10	9/9/1993	A	957.85	46.7	911.15
EMW-10	9/20/1993	A	957.85	46.8	911.05
EMW-10	9/24/1993	A	957.85	46.9	910.95
EMW-10	10/10/1993	A	957.85	46.8	911.05
EMW-10	10/15/1993	A	957.85	46.8	911.05
EMW-10	10/28/1993	A	957.85	47	910.85
EMW-10	11/4/1993	A	957.85	47.2	910.65
EMW-10	11/11/1993	A	957.85	47	910.85
EMW-10	11/19/1993	A	957.85	47.1	910.75
EMW-10	11/20/1993	A	957.85	50.6	907.25

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-10	11/24/1993	A	957.85	47.1	910.75
EMW-10	12/3/1993	A	957.85	46.8	911.05
EMW-10	12/10/1993	A	957.85	46.7	908.15
EMW-10	12/14/1993	A	957.85	46.7	911.15
EMW-10	12/17/1993	A	957.85	46.9	910.95
EMW-10	12/28/1993	A	957.85	47.1	910.75
EMW-10	1/5/1994	A	957.85	47.2	910.65
EMW-10	1/21/1994	A	957.85	47.3	910.55
EMW-10	1/28/1994	A	957.85	47.3	910.55
EMW-10	2/4/1994	A	957.85	47.3	910.55
EMW-10	2/11/1994	A	957.85	47.3	910.55
EMW-10	2/19/1994	A	957.85	47.3	910.55
EMW-10	2/25/1994	A	957.85	47.2	910.65
EMW-10	3/3/1994	A	957.85	47.2	910.65
EMW-10	3/18/1994	A	957.85	47.2	910.65
EMW-10	3/23/1994	A	957.85	47.1	910.75
EMW-10	4/14/1994	A	957.85	47.6	910.25
EMW-10	4/27/1994	A	957.85	48.3	909.55
EMW-10	5/27/1994	A	957.85	47.6	910.25
EMW-10	6/1/1994	A	957.85	48	909.85
EMW-10	7/22/1994	A	957.85	51.2	906.65
EMW-10	8/25/1994	A	957.85	52.5	905.35
EMW-10	9/22/1994	A	957.85	51	906.85
EMW-10	10/12/1994	A	957.85	51.4	906.45
EMW-10	11/18/1994	A	957.85	52.1	905.75
EMW-10	12/30/1994	A	957.85	52.4	905.45
EMW-10	1/30/1995	A	957.85	52.1	905.75
EMW-10	2/23/1995	A	957.85	51.7	906.15
EMW-10	2/23/1995	A	957.85	51.7	906.15
EMW-10	3/30/1995	A	957.85	50.3	907.55
EMW-10	4/21/1995	A	957.85	50.4	907.45
EMW-10	5/26/1995	A	957.85	50	907.85
EMW-10	6/23/1995	A	957.85	49.95	907.9
EMW-10	7/27/1995	A	957.85	50.84	907.01
EMW-10	8/30/1995	A	957.85	51.79	906.06
EMW-10	9/29/1995	A	957.85	51.35	906.5
EMW-10	10/27/1995	A	957.85	51.6	906.25
EMW-10	11/28/1995	A	957.85	51.49	906.36
EMW-10	12/30/1995	A	957.85	51.35	906.5
EMW-10	1/31/1996	A	957.85	51.16	906.69
EMW-10	2/20/1996	A	957.85	51.15	906.7
EMW-10	3/29/1996	A	957.85	50.91	906.94
EMW-10	4/29/1996	A	957.85	51.56	906.29
EMW-10	5/31/1996	A	957.85	51.85	906
EMW-10	6/28/1996	A	957.85	52.25	905.6
EMW-10	7/31/1996	A	957.85	53.2	904.65
EMW-10	8/29/1996	A	957.85	54.09	903.76
EMW-10	9/28/1996	A	957.85	54.27	903.58
EMW-10	10/29/1996	A	957.85	54.25	903.6
EMW-10	1/15/1997	A	957.85	52.94	904.91
EMW-10	4/29/1997	A	957.85	53.35	904.5
EMW-10	7/29/1997	A	957.85	56.23	901.62
EMW-10	1/29/1998	A	957.85	55.9	901.95

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-10	5/8/1998	A	957.85	54.2	900.85
EMW-10	7/29/1998	A	957.85	53.75	904.1
EMW-10	10/29/1998	A	957.85	53.6	904.25
EMW-10	1/28/1999	A	957.85	53.25	904.6
EMW-10	4/28/1999	A	957.85	54.05	903.8
EMW-10	8/4/1999	A	957.85	55.55	902.3
EMW-10	10/13/1999	A	957.85	55.55	902.3
EMW-10	2/9/2000	A	957.85	55.05	902.8
EMW-10	5/2/2000	A	957.85	55.1	902.75
EMW-10	8/2/2000	A	957.85	56.45	901.4
EMW-10	10/25/2000	A	957.85	57.25	900.6
EMW-10	1/31/2001	A	957.85	55.32	902.53
EMW-10	5/25/2001	A	957.85	53.95	903.9
EMW-10	7/31/2001	A	957.85	55.3	902.55
EMW-10	10/30/2001	A	957.85	56.05	901.8
EMW-10	1/30/2002	A	957.85	55.45	902.4
EMW-10	5/14/2002	A	957.85	56.4	901.45
EMW-10	7/31/2002	A	957.85	57.2	900.65
EMW-10	10/31/2002	A	957.85	58.9	898.95
EMW-10	1/30/2003	A	957.85	58.2	899.65
EMW-10	4/29/2003	A	957.85	57.6	900.25
EMW-10	8/7/2003	A	957.85	59.05	898.8
EMW-10	10/29/2003	A	957.85	59.3	898.55
EMW-10	1/28/2004	A	957.85	59.5	898.35
EMW-10	4/28/2004	A	957.85	59	898.85
EMW-10	7/30/2004	A	957.85	59.1	898.75
EMW-10	11/2/2004	A	957.85	60.7	897.15
EMW-10	1/28/2005	A	957.85	60.85	897
EMW-10	5/5/2005	A	957.85	59.3	898.55
EMW-10	7/27/2005	A	957.85	58.8	899.05
EMW-10	10/27/2005	A	957.85	58.45	899.4
EMW-10	1/27/2006	A	957.85	58.05	899.8
EMW-10	5/2/2006	A	957.85	58.1	899.75
EMW-10	7/26/2006	A	957.85	57.75	900.1
EMW-10	10/31/2006	A	957.85	59.32	898.53
EMW-10	1/29/2007	A	957.85	59.6	898.25
EMW-10	5/2/2007	A	957.85	60	897.85
EMW-10	7/31/2007	A	957.85	61.7	896.15
EMW-10	10/10/2007	A	957.85	62.89	894.96
EMW-10	1/7/2008	A	957.85	62.51	895.34
EMW-10	4/15/2008	A	957.85	61.81	896.04
EMW-10	8/1/2008	A	957.85	62.04	895.81
EMW-10	11/17/2008	A	957.85	62.99	894.86
EMW-10	2/17/2009	A	957.85	62.38	895.47
EMW-10	5/19/2009	A	957.85	62.84	895.01
EMW-10	8/26/2009	A	959.91	63.84	896.07
EMW-10	11/17/2009	A	962.96	64.01	898.95
EMW-10	2/2/2010	A	959.91	64.15	895.76
EMW-10	5/3/2010	A	959.91	63	896.91
EMW-10	8/24/2010	A	959.91	62.28	897.63
EMW-10	11/29/2010	A	959.91	62.65	897.26
EMW-10	2/3/2011	A	959.91	62.22	897.69
EMW-10	5/3/2011	A	959.91	62.02	897.89

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-10	8/1/2011	A	959.91	63.51	896.4
EMW-10	11/2/2011	A	959.91	63.91	
EMW-10	12/2/2011	A	959.16	63.95	
EMW-10R	3/2/2012	A	961.063	66.26	894.803
EMW-10R	3/13/2012	A	961.063	66.1	894.963
EMW-10R	4/2/2012	A	961.063	65.96	895.103
EMW-10R	5/1/2012	A	959.16	65.98	893.18
EMW-10R	6/1/2012	A	961.063	66.12	894.943
EMW-10R	7/2/2012	A	961.063	66.54	894.523
EMW-10R	8/2/2012	A	961.063	66.72	894.343
EMW-10R	9/4/2012	A	961.063	67.23	893.833
EMW-10R	10/1/2012	A	961.063	67.61	893.453
EMW-10R	11/1/2012	A	961.063	67.74	893.323
EMW-10R	12/3/2012	A	961.063	67.87	893.193
EMW-10R	2/4/2013	A	961.063	67.87	893.193
EMW-10R	5/1/2013	A	961.063	68.11	892.953
EMW-10R	8/6/2013	A	961.063	68.96	892.103
EMW-10R	11/4/2013	A	961.063	70.8	890.263
EMW-11	2/15/1988	A	958.49	48.85	909.6
EMW-11	3/9/1988	A	958.49	48.58	909.87
EMW-11	4/14/1988	A	958.49	48.8	909.65
EMW-11	5/19/1988	A	958.49	48.49	909.96
EMW-11	6/28/1988	A	958.49	49.54	908.91
EMW-11	7/13/1988	A	958.49	49.97	908.48
EMW-11	8/8/1988	A	958.49	50.55	907.9
EMW-11	9/16/1988	A	958.49	51.43	907.02
EMW-11	11/23/1988	A	958.49	50.92	907.53
EMW-11	1/19/1989	A	958.49	48.92	909.53
EMW-11	2/14/1989	A	958.49	49.1	909.35
EMW-11	3/14/1989	A	958.49	49.1	909.35
EMW-11	7/1/1989	A	958.49	49.97	908.48
EMW-11	9/19/1989	A	958.49	49.79	908.66
EMW-11	11/20/1989	A	958.49	51.95	906.5
EMW-11	1/22/1990	A	958.49	51.8	906.65
EMW-11	1/23/1990	A	958.49	51.9	906.55
EMW-11	1/24/1990	A	958.49	51.91	906.54
EMW-11	1/25/1990	A	958.49	51.95	906.5
EMW-11	1/26/1990	A	958.49	51.9	906.55
EMW-11	1/29/1990	A	958.49	51.8	906.65
EMW-11	1/30/1990	A	958.49	51.8	906.65
EMW-11	1/31/1990	A	958.49	51.75	906.7
EMW-11	2/1/1990	A	958.49	51.8	906.65
EMW-11	2/2/1990	A	958.49	51.9	906.55
EMW-11	2/8/1990	A	958.49	51.9	906.55
EMW-11	2/16/1990	A	958.49	51.95	906.5
EMW-11	2/23/1990	A	958.49	51.9	906.55
EMW-11	3/1/1990	A	958.49	51.8	906.65
EMW-11	3/9/1990	A	958.49	51.75	906.7
EMW-11	3/16/1990	A	958.49	51.8	906.65
EMW-11	3/21/1990	A	958.49	51.75	906.7
EMW-11	4/4/1990	A	958.49	52	906.45
EMW-11	4/18/1990	A	958.49	52.25	906.2
EMW-11	5/22/1990	A	958.49	52.6	905.85

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-11	6/19/1990	A	958.49	53.1	905.35
EMW-11	7/18/1990	A	958.49	54	904.45
EMW-11	8/17/1990	A	958.49	54.55	903.9
EMW-11	9/23/1990	A	958.49	54.25	904.2
EMW-11	10/18/1990	A	958.49	53.6	904.85
EMW-11	11/25/1990	A	958.49	52.95	905.5
EMW-11	2/16/1991	A	958.49	52.65	905.8
EMW-11	3/16/1991	A	958.49	52.9	905.55
EMW-11	4/22/1991	A	958.49	52.85	905.6
EMW-11	5/19/1991	A	958.49	53.05	905.4
EMW-11	6/19/1991	A	958.49	53.3	905.15
EMW-11	7/21/1991	A	958.49	54.15	904.3
EMW-11	8/18/1991	A	958.49	55.05	903.4
EMW-11	9/22/1991	A	958.49	55.5	902.95
EMW-11	10/31/1991	A	958.49	55.2	903.25
EMW-11	11/17/1991	A	958.49	55	903.45
EMW-11	1/21/1992	A	958.49	54.2	904.25
EMW-11	2/21/1992	A	958.49	53.75	904.7
EMW-11	3/28/1992	A	958.49	52.95	905.54
EMW-11	4/22/1992	A	958.49	52.5	905.99
EMW-11	5/14/1992	A	958.49	52.3	906.19
EMW-11	6/30/1992	A	958.49	52.1	906.39
EMW-11	7/29/1992	A	958.49	52.4	906.09
EMW-11	8/24/1992	A	958.49	52.45	906.04
EMW-11	10/6/1992	A	958.49	51.8	906.69
EMW-11	10/28/1992	A	958.49	51.4	907.09
EMW-11	11/23/1992	A	958.49	52.2	906.29
EMW-11	12/1/1992	A	958.49	52.3	906.19
EMW-11	12/9/1992	A	958.49	52.4	906.09
EMW-11	12/23/1992	A	958.49	52.7	905.79
EMW-11	12/31/1992	A	958.49	52.6	905.89
EMW-11	1/12/1993	A	958.49	52.5	905.99
EMW-11	1/29/1993	A	958.49	52.2	906.29
EMW-11	2/4/1993	A	958.49	52	906.49
EMW-11	3/12/1993	A	958.49	50.4	908.09
EMW-11	4/2/1993	A	958.49	49.6	908.89
EMW-11	4/9/1993	A	958.49	49.3	909.19
EMW-11	4/14/1993	A	958.49	49.2	909.29
EMW-11	4/23/1993	A	958.49	48.2	910.29
EMW-11	4/28/1993	A	958.49	47.9	910.59
EMW-11	5/7/1993	A	958.49	47.1	911.39
EMW-11	5/14/1993	A	958.49	47.7	910.79
EMW-11	5/18/1993	A	958.49	47.8	910.69
EMW-11	5/27/1993	A	958.49	48	910.49
EMW-11	6/4/1993	A	958.49	47.9	910.56
EMW-11	6/10/1993	A	958.49	47.3	911.19
EMW-11	6/17/1993	A	958.49	46.5	911.99
EMW-11	7/14/1993	A	958.49	47.7	910.79
EMW-11	7/30/1993	A	958.49	48.1	910.39
EMW-11	8/11/1993	A	958.49	47.9	910.59
EMW-11	8/18/1993	A	958.49	48.5	909.99
EMW-11	8/25/1993	A	958.49	48.7	909.79
EMW-11	9/3/1993	A	958.49	48.8	909.69

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-11	9/9/1993	A	958.49	48.7	909.79
EMW-11	9/20/1993	A	958.49	48.7	909.79
EMW-11	9/24/1993	A	958.49	48.8	909.69
EMW-11	10/10/1993	A	958.49	48.3	910.19
EMW-11	10/15/1993	A	958.49	48.7	909.79
EMW-11	10/28/1993	A	958.49	48.9	909.59
EMW-11	11/4/1993	A	958.49	49.1	909.39
EMW-11	11/11/1993	A	958.49	49	909.49
EMW-11	11/19/1993	A	958.49	48.9	909.59
EMW-11	11/20/1993	A	958.49	52.2	906.29
EMW-11	11/24/1993	A	958.49	49	909.49
EMW-11	12/3/1993	A	958.49	48.2	910.29
EMW-11	12/10/1993	A	958.49	48.6	909.89
EMW-11	12/14/1993	A	958.49	48.6	909.89
EMW-11	12/17/1993	A	958.49	48.8	909.69
EMW-11	12/28/1993	A	958.49	49	909.49
EMW-11	1/21/1994	A	958.49	49.2	909.29
EMW-11	1/28/1994	A	958.49	49.2	909.29
EMW-11	2/4/1994	A	958.49	49.2	909.29
EMW-11	2/11/1994	A	958.49	49.3	909.19
EMW-11	2/19/1994	A	958.49	49.2	909.29
EMW-11	2/25/1994	A	958.49	49.1	909.39
EMW-11	3/3/1994	A	958.49	49.1	909.39
EMW-11	3/18/1994	A	958.49	49.1	909.39
EMW-11	3/23/1994	A	958.49	49.1	909.39
EMW-11	4/14/1994	A	958.49	49.6	908.89
EMW-11	4/27/1994	A	958.49	50.5	907.99
EMW-11	5/27/1994	A	958.49	49.4	909.09
EMW-11	6/1/1994	A	958.49	50.1	908.39
EMW-11	7/22/1994	A	958.49	53.5	904.99
EMW-11	4/21/1995	A	958.49	52.4	906.09
EMW-11	5/26/1995	A	958.49	52	906.49
EMW-11	6/23/1995	A	958.49	52.07	906.42
EMW-11	7/27/1995	A	958.49	52.95	905.54
EMW-11	8/30/1995	A	958.49	53.8	904.69
EMW-11	9/29/1995	A	958.49	52.85	905.64
EMW-11	10/27/1995	A	958.49	53.57	904.92
EMW-11	11/28/1995	A	958.49	53.36	905.13
EMW-11	12/30/1995	A	958.49	53.21	905.28
EMW-11	1/31/1996	A	958.49	53.07	905.42
EMW-11	2/20/1996	A	958.49	52.96	905.53
EMW-11	3/29/1996	A	958.49	52.6	905.89
EMW-11	4/29/1996	A	958.49	53.33	905.16
EMW-11	5/31/1996	A	958.49	53.56	904.93
EMW-11	6/28/1996	A	958.49	53.9	904.59
EMW-11	7/31/1996	A	958.49	54.85	903.64
EMW-11	8/29/1996	A	958.49	55.79	902.7
EMW-11	9/28/1996	A	958.49	55.97	902.52
EMW-11	10/29/1996	A	958.49	55.97	902.52
EMW-11	1/15/1997	A	958.49	55.88	902.61
EMW-11	4/29/1997	A	958.49	54.84	903.65
EMW-11	7/29/1997	A	958.49	57.78	900.71
EMW-11	1/29/1998	A	958.49	57.41	901.08

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-11	5/8/1998	A	958.49	55.7	904.29
EMW-11	7/28/1998	A	958.49	55.05	903.44
EMW-11	10/29/1998	A	958.49	55.17	903.32
EMW-11	1/28/1999	A	958.49	54.8	903.69
EMW-11	4/28/1999	A	958.49	55.55	902.94
EMW-11	8/4/1999	A	958.49	56.6	901.89
EMW-11	10/13/1999	A	958.49	56.7	901.79
EMW-11	2/9/2000	A	958.49	56.2	902.29
EMW-11	5/2/2000	A	958.49	56.2	902.29
EMW-11	8/2/2000	A	958.49	57.85	900.64
EMW-11	10/25/2000	A	958.49	58.4	900.09
EMW-11	1/31/2001	A	958.49	56.45	902.04
EMW-11	5/24/2001	A	958.49	55	903.49
EMW-11	7/31/2001	A	958.49	56.45	902.04
EMW-11	10/30/2001	A	958.49	57.15	901.34
EMW-11	1/30/2002	A	958.49	56.4	902.09
EMW-11	5/14/2002	A	958.49	57.4	901.09
EMW-11	7/31/2002	A	958.49	59	899.49
EMW-11	10/31/2002	A	958.49	60.1	898.39
EMW-11	1/30/2003	A	958.49	59.4	899.09
EMW-11	4/29/2003	A	958.49	58.8	899.69
EMW-11	8/8/2003	A	958.49	60.7	897.79
EMW-11	10/29/2003	A	958.49	60.35	898.14
EMW-11	1/28/2004	A	958.49	60.7	897.79
EMW-11	4/28/2004	A	958.49	60	898.49
EMW-11	7/30/2004	A	958.49	59.95	898.54
EMW-11	11/2/2004	A	958.49	61.8	896.69
EMW-11	1/28/2005	A	958.49	61.9	896.59
EMW-11	5/5/2005	A	958.49	60.5	897.99
EMW-11	7/26/2005	A	958.49	59.95	898.54
EMW-11	10/27/2005	A	958.49	59.6	898.89
EMW-11	1/27/2006	A	958.49	59.4	899.09
EMW-11	5/3/2006	A	958.49	59.15	899.34
EMW-11	7/26/2006	A	958.49	58.6	899.89
EMW-11	10/31/2006	A	958.49	60.7	897.79
EMW-11	1/29/2007	A	958.49	60.75	897.74
EMW-11	5/2/2007	A	958.49	61.15	897.34
EMW-11	7/31/2007	A	958.49	63.1	895.39
EMW-11	10/10/2007	A	958.49	60.4	898.09
EMW-11	8/1/2008	A	958.49	63.2	895.29
EMW-11	11/17/2008	A	958.49	64.07	894.42
EMW-11	5/19/2009	A	958.49	63.75	894.74
EMW-11	8/24/2009	A	960.55	64.81	895.74
EMW-11	11/17/2009	A	960.55	65.48	895.07
EMW-11	2/5/2010	A	960.55	65.55	895
EMW-11	5/3/2010	A	960.55	63.8	896.75
EMW-11	8/23/2010	A	960.55	62.95	897.6
EMW-11	11/29/2010	A	960.55	63.37	897.18
EMW-11	2/3/2011	A	960.55	63.02	897.53
EMW-11	5/2/2011	A	960.55	62.81	897.74
EMW-11	8/1/2011	A	960.55	64.46	896.09
EMW-11	11/2/2011	A	960.55	65.37	
EMW-11R	3/13/2012	A	958.492	64.91	893.582

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-11R	5/1/2012	A	960.55	64.75	895.8
EMW-11R	8/2/2012	A	958.492	65.42	893.072
EMW-11R	11/2/2012	A	958.492	66.68	891.812
EMW-11R	2/4/2013	A	958.492	66.7	891.792
EMW-11R	5/1/2013	A	958.492	66.64	891.852
EMW-11R	8/6/2013	A	958.492	67.68	890.812
EMW-11R	11/4/2013	A	958.492	69.15	889.342
EMW-12	1/16/1987	A	957.8	50.85	908.6
EMW-12	2/20/1987	A	957.8	50.75	908.7
EMW-12	3/17/1987	A	957.8	50.95	908.5
EMW-12	4/17/1987	A	957.8	50.95	908.5
EMW-12	5/20/1987	A	957.8	51.95	907.5
EMW-12	6/19/1987	A	957.8	52.12	907.33
EMW-12	7/16/1987	A	957.8	52.82	906.63
EMW-12	8/25/1987	A	957.8	53.55	905.9
EMW-12	10/1/1987	A	957.8	53.25	906.2
EMW-12	10/22/1987	A	957.8	52.89	906.56
EMW-12	11/24/1987	A	957.8	52.36	907.09
EMW-12	1/7/1988	A	957.8	51.94	907.51
EMW-12	2/15/1988	A	957.8	51.4	908.05
EMW-12	3/9/1988	A	957.8	51.3	908.15
EMW-12	4/14/1988	A	957.8	51.56	907.89
EMW-12	5/19/1988	A	957.8	51.61	907.84
EMW-12	6/28/1988	A	957.8	52.7	906.75
EMW-12	7/15/1988	A	957.8	53.25	906.2
EMW-12	8/8/1988	A	957.8	54.32	905.13
EMW-12	9/14/1988	A	957.8	54.9	904.55
EMW-12	11/23/1988	A	957.8	54.35	905.1
EMW-12	1/19/1989	A	957.8	51.88	907.57
EMW-12	2/14/1989	A	957.8	51.68	907.77
EMW-12	3/14/1989	A	957.8	51.75	907.7
EMW-12	7/1/1989	A	957.8	52.75	906.2
EMW-12	9/19/1989	A	957.8	54.43	905.02
EMW-12	11/20/1989	A	957.8	54.68	904.77
EMW-12	11/20/1989	A	957.8	54.18	904.77
EMW-12	1/22/1990	A	957.8	54.6	904.35
EMW-12	1/23/1990	A	957.8	54.6	904.35
EMW-12	1/24/1990	A	957.8	54.65	904.3
EMW-12	1/25/1990	A	957.8	54.6	904.35
EMW-12	1/26/1990	A	957.8	54.6	904.35
EMW-12	1/29/1990	A	957.8	54.55	904.4
EMW-12	1/30/1990	A	957.8	54.55	904.4
EMW-12	1/31/1990	A	957.8	54.5	904.45
EMW-12	2/1/1990	A	957.8	54.55	904.4
EMW-12	2/2/1990	A	957.8	54.65	904.3
EMW-12	2/8/1990	A	957.8	54.6	904.35
EMW-12	2/16/1990	A	957.8	54.65	904.3
EMW-12	2/23/1990	A	957.8	54.55	904.4
EMW-12	3/1/1990	A	957.8	54.45	904.5
EMW-12	3/9/1990	A	957.8	54.2	904.75
EMW-12	3/16/1990	A	957.8	54.45	904.5
EMW-12	3/21/1990	A	957.8	54.3	904.65
EMW-12	4/3/1990	A	957.8	54.65	904.3

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-12	4/17/1990	A	957.8	55.2	903.75
EMW-12	5/22/1990	A	957.8	55.6	903.35
EMW-12	6/19/1990	A	957.8	55.9	903.05
EMW-12	7/18/1990	A	957.8	57.2	901.75
EMW-12	8/17/1990	A	957.8	57.85	901.1
EMW-12	9/22/1990	A	957.8	57.3	901.65
EMW-12	10/17/1990	A	957.8	56.3	902.65
EMW-12	11/24/1990	A	957.8	54.4	904.55
EMW-12	12/17/1990	A	957.8	55.1	903.85
EMW-12	2/17/1991	A	957.8	53.75	905.2
EMW-12	3/17/1991	A	957.8	53.8	905.15
EMW-12	4/22/1991	A	957.8	53.75	905.2
EMW-12	5/19/1991	A	957.8	54.1	904.85
EMW-12	7/11/1991	A	957.8	54.85	904.1
EMW-12	7/21/1991	A	957.8	55.7	903.25
EMW-12	8/18/1991	A	957.8	56.95	902
EMW-12	9/24/1991	A	957.8	57.35	901.6
EMW-12	10/31/1991	A	957.8	56.3	902.65
EMW-12	11/17/1991	A	957.8	55.95	903
EMW-12	1/21/1992	A	957.8	54.8	904.15
EMW-12	3/28/1992	A	957.8	51.3	906.5
EMW-12	4/22/1992	A	957.8	53.1	904.7
EMW-12	5/15/1992	A	957.8	53.35	904.45
EMW-12	6/30/1992	A	957.8	53.5	904.3
EMW-12	7/31/1992	A	957.8	54.1	903.7
EMW-12	8/26/1992	A	957.8	54.2	903.6
EMW-12	10/9/1992	A	957.8	53.2	904.6
EMW-12	10/28/1992	A	957.8	52.9	904.9
EMW-12	11/23/1992	A	957.8	52.6	905.2
EMW-12	1/4/1993	A	957.8	53.4	904.4
EMW-12	2/4/1993	A	957.8	51.4	906.4
EMW-12	3/23/1993	A	957.8	49.5	908.3
EMW-12	4/15/1993	A	957.8	49.1	908.7
EMW-12	5/18/1993	A	957.8	47	910.8
EMW-12	6/11/1993	A	957.8	48.3	909.5
EMW-12	6/15/1993	A	957.8	48.2	909.6
EMW-12	7/14/1993	A	957.8	48.3	909.5
EMW-12	8/11/1993	A	957.8	49.3	908.5
EMW-12	9/24/1993	A	957.8	49.7	908.1
EMW-12	10/28/1993	A	957.8	49.5	908.3
EMW-12	11/23/1993	A	957.8	49.3	908.5
EMW-12	12/14/1993	A	957.8	49	908.8
EMW-12	12/22/1993	A	957.8	49.2	908.6
EMW-12	1/28/1994	A	957.8	49.7	908.1
EMW-12	2/25/1994	A	957.8	49.8	908
EMW-12	3/21/1994	A	957.8	49.7	908.1
EMW-12	4/27/1994	A	957.8	50.7	907.1
EMW-12	5/25/1994	A	957.8	51.1	906.7
EMW-12	6/1/1994	A	957.8	51.1	906.7
EMW-12	7/22/1994	A	957.8	54.2	903.6
EMW-12	8/25/1994	A	957.8	55.9	901.9
EMW-12	9/23/1994	A	957.8	54.9	902.9
EMW-12	10/12/1994	A	957.8	54.6	903.2

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-12	11/18/1994	A	957.8	54.6	903.2
EMW-12	12/30/1994	A	957.8	54.6	903.2
EMW-12	1/30/1995	A	957.8	54.1	903.7
EMW-12	2/23/1995	A	957.8	53.5	904.3
EMW-12	3/31/1995	A	957.8	54.2	903.6
EMW-12	4/21/1995	A	957.8	52.4	905.4
EMW-12	5/26/1995	A	957.8	52.2	905.6
EMW-12	6/23/1995	A	957.8	52.43	905.37
EMW-12	7/27/1995	A	957.8	53.9	903.9
EMW-12	8/30/1995	A	957.8	54.84	902.96
EMW-12	9/29/1995	A	957.8	54.5	903.3
EMW-12	10/27/1995	A	957.8	53.88	903.92
EMW-12	11/29/1995	A	957.8	53.53	904.27
EMW-12	12/30/1995	A	957.8	53.28	904.52
EMW-12	1/31/1996	A	957.8	52.97	904.83
EMW-12	2/20/1996	A	957.8	52.97	904.83
EMW-12	3/30/1996	A	957.8	52.87	904.93
EMW-12	4/30/1996	A	957.8	53.92	903.88
EMW-12	5/31/1996	A	957.8	54.14	903.66
EMW-12	6/28/1996	A	957.8	55.85	901.95
EMW-12	7/31/1996	A	957.8	56.42	901.38
EMW-12	8/30/1996	A	957.8	57.41	900.39
EMW-12	9/28/1996	A	957.8	57.18	900.62
EMW-12	10/30/1996	A	957.8	56.72	901.08
EMW-12	1/16/1997	A	957.8	55.03	902.77
EMW-12	4/29/1997	A	957.8	55.58	902.22
EMW-12	7/29/1997	A	957.8	57.6	900.2
EMW-12	1/30/1998	A	957.8	57.65	900.15
EMW-12	5/8/1998	A	957.8	56	902.1
EMW-12	7/30/1998	A	957.8	56.15	901.65
EMW-12	10/29/1998	A	957.8	55.5	902.3
EMW-12	1/28/1999	A	957.8	54.85	902.95
EMW-12	4/29/1999	A	957.8	57.45	900.35
EMW-12	8/5/1999	A	957.8	58.15	899.65
EMW-12	10/13/1999	A	957.8	58.35	899.45
EMW-12	2/9/2000	A	957.8	56.75	901.05
EMW-12	5/4/2000	A	957.8	57.1	900.7
EMW-12	8/3/2000	A	957.8	59.25	898.55
EMW-12	10/25/2000	A	957.8	60.1	897.7
EMW-12	2/1/2001	A	957.8	57.72	900.08
EMW-12	5/25/2001	A	957.8	56.4	901.4
EMW-12	8/1/2001	A	957.8	58.3	899.5
EMW-12	10/31/2001	A	957.8	59.1	898.7
EMW-12	1/31/2002	A	957.8	58	899.8
EMW-12	5/14/2002	A	957.8	58.75	899.05
EMW-12	8/1/2002	A	957.8	60.85	896.95
EMW-12	11/1/2002	A	957.8	61.92	895.88
EMW-12	1/31/2003	A	957.8	60.45	897.35
EMW-12	5/1/2003	A	957.8	59.75	898.05
EMW-12	8/8/2003	A	957.8	62.4	895.4
EMW-12	10/29/2003	A	957.8	62.25	895.55
EMW-12	1/28/2004	A	957.8	61.4	896.4
EMW-12	4/29/2004	A	957.8	61.15	896.65

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-12	7/30/2004	A	957.8	61.9	895.9
EMW-12	11/2/2004	A	957.8	64.3	893.5
EMW-12	1/28/2005	A	957.8	62.3	895.5
EMW-12	5/6/2005	A	957.8	60.85	896.95
EMW-12	7/27/2005	A	957.8	61.35	896.45
EMW-12	10/28/2005	A	957.8	60.8	897
EMW-12	1/27/2006	A	957.8	59.92	897.88
EMW-12	5/3/2006	A	957.8	59.5	898.3
EMW-12	7/27/2006	A	957.8	60	897.8
EMW-12	10/30/2006	A	957.8	61.8	896
EMW-12	1/30/2007	A	957.8	61.5	896.3
EMW-12	5/2/2007	A	957.8	62.2	895.6
EMW-12	8/1/2007	A	957.8	65.25	892.55
EMW-12	10/10/2007	A	957.8	52.49	905.31
EMW-12	1/7/2008	A	957.8	64.07	893.73
EMW-12	4/14/2008	A	957.8	63.36	894.44
EMW-12	11/17/2008	A	957.8	65.19	892.61
EMW-12	2/20/2009	A	957.8	63.81	893.99
EMW-12	5/19/2009	A	957.8	63.9	893.9
EMW-12	8/26/2009	A	959.86	65.56	894.3
EMW-12	11/18/2009	A	959.86	66.55	893.31
EMW-12	2/2/2010	A	959.86	66.34	893.52
EMW-12	5/6/2010	A	959.86	62.97	896.89
EMW-12	8/24/2010	A	959.86	63.72	896.14
EMW-12	11/29/2010	A	959.86	63.61	896.25
EMW-12	2/3/2011	A	959.86	63.03	896.83
EMW-12	5/3/2011	A	959.86	62.85	897.01
EMW-12	11/2/2011	A	959.86	67.03	
EMW-12R	3/13/2012	A	959.095	65.36	893.735
EMW-12R	5/1/2012	A	959.86	65.12	894.74
EMW-12R	8/2/2012	A	959.095	66.92	892.175
EMW-12R	11/1/2012	A	959.095	67.79	891.305
EMW-12R	2/4/2013	A	959.095	66.45	892.645
EMW-12R	5/1/2013	A	959.095	78.9	880.195
EMW-12R	8/6/2013	A	959.095	68.84	890.255
EMW-12R	11/4/2013	A	959.095	69.71	889.385
EMW-13	1/16/1987	A	950.71	45.71	905
EMW-13	2/20/1987	A	950.71	45.61	905.1
EMW-13	3/17/1987	A	950.71	45.81	904.9
EMW-13	4/17/1987	A	950.71	46.21	904.5
EMW-13	5/20/1987	A	950.71	48.21	902.5
EMW-13	6/19/1987	A	950.71	49.01	901.7
EMW-13	7/16/1987	A	950.71	50.56	900.14
EMW-13	8/25/1987	A	950.71	51.62	899.08
EMW-13	10/1/1987	A	950.71	50.13	900.57
EMW-13	11/24/1987	A	950.71	47.15	903.55
EMW-13	1/7/1988	A	950.71	46.71	903.99
EMW-13	2/15/1988	A	950.71	45.55	905.15
EMW-13	3/9/1988	A	950.71	45.77	904.93
EMW-13	4/14/1988	A	950.71	47.84	902.86
EMW-13	5/19/1988	A	950.71	48.04	902.66
EMW-13	6/28/1988	A	950.71	50.12	900.58
EMW-13	7/15/1988	A	950.71	52.57	898.13

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-13	8/8/1988	A	950.71	53.1	897.6
EMW-13	11/23/1988	A	950.71	55.6	895.1
EMW-13	1/19/1989	A	950.71	46.19	904.51
EMW-13	2/14/1989	A	950.71	46.4	904.3
EMW-13	3/14/1989	A	950.71	46.62	904.08
EMW-13	7/1/1989	A	950.71	52.57	898.13
EMW-13	11/20/1989	A	950.71	49.65	901.05
EMW-13	1/22/1990	A	950.71	48.41	902.3
EMW-13	1/23/1990	A	950.71	48.54	902.17
EMW-13	1/24/1990	A	950.71	48.53	902.18
EMW-13	1/25/1990	A	950.71	48.51	902.2
EMW-13	1/26/1990	A	950.71	48.51	902.2
EMW-13	1/29/1990	A	950.71	48.3	902.4
EMW-13	1/30/1990	A	950.71	48.2	902.5
EMW-13	1/31/1990	A	950.71	48.3	902.4
EMW-13	2/1/1990	A	950.71	48.4	902.3
EMW-13	2/2/1990	A	950.71	48.6	902.1
EMW-13	2/8/1990	A	950.71	48.55	902.15
EMW-13	2/16/1990	A	950.71	48.45	902.25
EMW-13	2/23/1990	A	950.71	48.25	902.45
EMW-13	3/1/1990	A	950.71	48.4	902.3
EMW-13	3/9/1990	A	950.71	48.15	902.55
EMW-13	3/16/1990	A	950.71	48.6	902.1
EMW-13	3/21/1990	A	950.71	48.55	902.15
EMW-13	4/4/1990	A	950.71	49.55	901.15
EMW-13	4/19/1990	A	950.71	49.7	901
EMW-13	5/22/1990	A	950.71	50.84	899.86
EMW-13	6/19/1990	A	950.71	51.65	899.05
EMW-13	7/18/1990	A	950.71	53.4	897.3
EMW-13	8/17/1990	A	950.71	53.6	897.1
EMW-13	9/22/1990	A	950.71	50.95	899.75
EMW-13	10/18/1990	A	950.71	49.65	901.05
EMW-13	11/24/1990	A	950.71	48.65	902.05
EMW-13	12/17/1990	A	950.71	48.75	901.95
EMW-13	1/21/1991	A	950.71	49.2	901.5
EMW-13	2/16/1991	A	950.71	48.9	901.8
EMW-13	3/17/1991	A	950.71	48.9	901.8
EMW-13	4/22/1991	A	950.71	49.25	901.45
EMW-13	5/19/1991	A	950.71	49.5	901.2
EMW-13	6/19/1991	A	950.71	53.3	897.4
EMW-13	7/21/1991	A	950.71	53.45	897.25
EMW-13	8/18/1991	A	950.71	55.16	895.55
EMW-13	9/24/1991	A	950.71	54.41	896.3
EMW-13	10/31/1991	A	950.71	52.81	897.9
EMW-13	11/17/1991	A	950.71	52.11	898.6
EMW-13	1/20/1992	A	950.71	49.21	901.5
EMW-13	2/21/1992	A	950.71	48.43	902.28
EMW-13	3/25/1992	A	950.71	47.4	903.31
EMW-13	4/22/1992	A	950.71	51.5	906.35
EMW-13	4/23/1992	A	950.71	47.7	903.01
EMW-13	5/15/1992	A	950.71	48	902.71
EMW-13	6/27/1992	A	950.71	49.9	900.81
EMW-13	7/29/1992	A	950.71	51.1	899.61

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-13	8/24/1992	A	950.71	50.75	899.96
EMW-13	10/5/1992	A	950.71	48.5	902.21
EMW-13	10/28/1992	A	950.71	48	902.71
EMW-13	11/23/1992	A	950.71	47.4	903.31
EMW-13	1/5/1993	A	950.71	46.6	904.11
EMW-13	2/4/1993	A	950.71	44	906.71
EMW-13	3/19/1993	A	950.71	43	907.71
EMW-13	4/15/1993	A	950.71	43.9	906.81
EMW-13	5/18/1993	A	950.71	44.2	906.51
EMW-13	6/11/1993	A	950.71	44.7	906.01
EMW-13	6/17/1993	A	950.71	44.8	905.91
EMW-13	7/13/1993	A	950.71	46.2	904.51
EMW-13	8/9/1993	A	950.71	47.7	903.01
EMW-13	9/24/1993	A	950.71	47.1	903.61
EMW-13	10/28/1993	A	950.71	45.8	904.91
EMW-13	11/24/1993	A	950.71	45.4	905.31
EMW-13	12/14/1993	A	950.71	44.9	905.81
EMW-13	12/22/1993	A	950.71	45.4	905.31
EMW-13	1/28/1994	A	950.71	45.4	905.31
EMW-13	2/25/1994	A	950.71	45.5	905.21
EMW-13	3/21/1994	A	950.71	46.2	904.51
EMW-13	4/27/1994	A	950.71	48	902.71
EMW-13	5/26/1994	A	950.71	48.3	902.41
EMW-13	6/3/1994	A	950.71	48.3	902.41
EMW-13	7/21/1994	A	950.71	52	898.71
EMW-13	8/25/1994	A	950.71	54.7	896.01
EMW-13	9/23/1994	A	950.71	53	897.71
EMW-13	10/12/1994	A	950.71	52	898.71
EMW-13	11/18/1994	A	950.71	50.5	900.21
EMW-13	12/30/1994	A	950.71	49.5	901.21
EMW-13	1/30/1995	A	950.71	48	902.71
EMW-13	2/23/1995	A	950.71	47.14	903.57
EMW-13	2/23/1995	A	950.71	47.4	903.31
EMW-13	3/30/1995	A	950.71	46.7	904.01
EMW-13	4/21/1995	A	950.71	48.1	902.61
EMW-13	5/26/1995	A	950.71	47.4	903.31
EMW-13	6/23/1995	A	950.71	48.91	901.8
EMW-13	7/27/1995	A	950.71	52.03	898.68
EMW-13	8/30/1995	A	950.71	52.1	898.61
EMW-13	9/29/1995	A	950.71	50.73	899.98
EMW-13	10/27/1995	A	950.71	49.63	901.08
EMW-13	11/29/1995	A	950.71	48.5	902.21
EMW-13	12/30/1995	A	950.71	48.4	902.31
EMW-13	1/31/1996	A	950.71	48	902.71
EMW-13	2/20/1996	A	950.71	47.94	902.77
EMW-13	3/30/1996	A	950.71	48.65	902.06
EMW-13	4/30/1996	A	950.71	50.18	900.53
EMW-13	5/31/1996	A	950.71	50.18	900.53
EMW-13	6/28/1996	A	950.71	52.15	898.56
EMW-13	7/31/1996	A	950.71	54.35	896.36
EMW-13	8/30/1996	A	950.71	55.46	895.25
EMW-13	9/28/1996	A	950.71	53.6	897.11
EMW-13	10/30/1996	A	950.71	52.45	898.26

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-13	1/16/1997	A	950.71	49.95	900.76
EMW-13	4/29/1997	A	950.71	52	898.71
EMW-13	7/29/1997	A	950.71	56.43	894.28
EMW-13	1/30/1998	A	950.71	52	898.71
EMW-13	5/8/1998	A	950.71	50.7	894.71
EMW-13	7/30/1998	A	950.71	52.45	898.26
EMW-13	10/29/1998	A	950.71	50.5	900.21
EMW-13	1/29/1999	A	950.71	49.85	900.86
EMW-13	4/29/1999	A	950.71	51.5	899.21
EMW-13	8/5/1999	A	950.71	55.27	895.44
EMW-13	10/14/1999	A	950.71	55	895.71
EMW-13	2/9/2000	A	950.71	51.27	899.44
EMW-13	5/4/2000	A	950.71	51.65	899.06
EMW-13	8/3/2000	A	950.71	56.95	893.76
EMW-13	10/25/2000	A	950.71	57.2	893.51
EMW-13	2/1/2001	A	950.71	51.75	898.96
EMW-13	5/25/2001	A	950.71	51.8	898.91
EMW-13	8/1/2001	A	950.71	56.25	894.46
EMW-13	10/31/2001	A	950.71	56.2	894.51
EMW-13	2/1/2002	A	950.71	53.25	897.46
EMW-13	5/14/2002	A	950.71	54.4	896.31
EMW-13	8/1/2002	A	950.71	59.75	890.96
EMW-13	11/1/2002	A	950.71	58.8	891.91
EMW-13	1/31/2003	A	950.71	55.2	895.51
EMW-13	5/1/2003	A	950.71	55.1	895.61
EMW-13	8/8/2003	A	950.71	60.2	890.51
EMW-13	10/30/2003	A	950.71	59.4	891.31
EMW-13	1/29/2004	A	950.71	55.77	894.94
EMW-13	4/30/2004	A	950.71	55.95	894.76
EMW-13	7/30/2004	A	950.71	60.4	890.31
EMW-13	11/2/2004	A	950.71	61.28	889.43
EMW-13	1/28/2005	A	950.71	55.65	895.06
EMW-13	5/6/2005	A	950.71	54.3	896.41
EMW-13	7/27/2005	A	950.71	57.4	893.31
EMW-13	10/28/2005	A	950.71	56.35	894.36
EMW-13	1/27/2006	A	950.71	54.7	896.01
EMW-13	5/4/2006	A	950.71	54.7	896.01
EMW-13	7/27/2006	A	950.71	57.5	893.21
EMW-13	10/31/2006	A	950.71	57.9	892.81
EMW-13	1/30/2007	A	950.71	55.9	894.81
EMW-13	5/1/2007	A	950.71	57.25	893.46
EMW-13	8/1/2007	A	950.71	62.1	888.61
EMW-13	10/10/2007	A	950.71	63.2	887.51
EMW-13	1/7/2008	A	950.71	57.9	892.81
EMW-13	4/15/2008	A	950.71	56	894.71
EMW-13	8/4/2008	A	950.71	60.11	890.6
EMW-13	11/17/2008	A	950.71	60.29	890.42
EMW-13	2/16/2009	A	950.71	56.72	893.99
EMW-13	5/18/2009	A	950.71	56.73	893.98
EMW-13	8/25/2009	A	952.77	61.06	891.71
EMW-13	11/18/2009	A	952.77	61.81	890.96
EMW-13	2/4/2010	A	952.77	57.46	895.31
EMW-13	5/3/2010	A	952.77	54.8	897.97

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-13	8/23/2010	A	952.77	58.8	893.97
EMW-13	11/29/2010	A	952.77	57.71	895.06
EMW-13	2/3/2011	A	952.77	55.8	896.97
EMW-13	5/3/2011	A	952.77	56.55	896.22
EMW-13	8/1/2011	A	952.77	60.82	891.95
EMW-13	11/2/2011	A	952.77	62.11	890.66
EMW-13	2/1/2012	A	952.014	58.91	893.104
EMW-13	5/1/2012	A	952.014	58.76	893.254
EMW-13	8/3/2012	A	952.014	62.08	889.934
EMW-13	11/1/2012	A	952.014	62.81	889.204
EMW-13	2/4/2013	A	952.014	59.49	892.524
EMW-13	5/1/2013	A	952.014	59.28	892.734
EMW-13	8/6/2013	A	952.77	64.15	888.62
EMW-13	11/4/2013	A	952.77	64.54	888.23
EMW-14	1/16/1987	A	956.61	49.45	908.4
EMW-14	2/20/1987	A	956.61	49.35	908.5
EMW-14	3/17/1987	A	956.61	49.55	908.3
EMW-14	4/17/1987	A	956.61	49.55	908.3
EMW-14	5/20/1987	A	956.61	50.55	907.3
EMW-14	6/19/1987	A	956.61	50.88	906.97
EMW-14	7/16/1987	A	956.61	51.4	906.45
EMW-14	8/25/1987	A	956.61	52	905.85
EMW-14	10/1/1987	A	956.61	51.73	906.12
EMW-14	10/22/1987	A	956.61	51.52	906.33
EMW-14	11/24/1987	A	956.61	51.2	906.65
EMW-14	1/7/1988	A	956.61	50.85	907
EMW-14	2/15/1988	A	956.61	50.38	907.47
EMW-14	3/9/1988	A	956.61	50.31	907.54
EMW-14	4/14/1988	A	956.61	50.48	907.37
EMW-14	5/19/1988	A	956.61	50.4	907.45
EMW-14	6/28/1988	A	956.61	51.55	906.3
EMW-14	7/15/1988	A	956.61	52.06	905.79
EMW-14	8/8/1988	A	956.61	52.89	904.96
EMW-14	11/23/1988	A	956.61	53.54	904.31
EMW-14	1/19/1989	A	956.61	50.75	907.1
EMW-14	2/14/1989	A	956.61	50.6	907.25
EMW-14	3/14/1989	A	956.61	50.68	907.17
EMW-14	7/1/1989	A	956.61	50.82	905.79
EMW-14	9/19/1989	A	956.61	52.52	905.33
EMW-14	11/20/1989	A	956.61	53.43	904.42
EMW-14	1/22/1990	A	956.61	53.7	902.91
EMW-14	1/23/1990	A	956.61	53.65	902.96
EMW-14	1/24/1990	A	956.61	53.7	902.91
EMW-14	1/25/1990	A	956.61	53.75	902.86
EMW-14	1/26/1990	A	956.61	53.75	902.86
EMW-14	1/29/1990	A	956.61	53.6	903.01
EMW-14	1/30/1990	A	956.61	53.6	903.01
EMW-14	1/31/1990	A	956.61	53.55	903.06
EMW-14	2/1/1990	A	956.61	53.55	903.06
EMW-14	2/2/1990	A	956.61	53.65	902.96
EMW-14	2/8/1990	A	956.61	53.6	903.01
EMW-14	2/16/1990	A	956.61	53.7	902.91
EMW-14	2/23/1990	A	956.61	53.5	903.11

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-14	3/1/1990	A	956.61	53.45	903.16
EMW-14	3/9/1990	A	956.61	53.1	903.51
EMW-14	3/16/1990	A	956.61	53.4	903.21
EMW-14	3/21/1990	A	956.61	53.1	903.51
EMW-14	4/4/1990	A	956.61	53.6	903.01
EMW-14	4/17/1990	A	956.61	54.1	902.51
EMW-14	5/22/1990	A	956.61	54.45	902.16
EMW-14	6/19/1990	A	956.61	54.7	901.91
EMW-14	7/18/1990	A	956.61	55.9	900.71
EMW-14	8/17/1990	A	956.61	54.45	902.16
EMW-14	9/23/1990	A	956.61	56.1	900.51
EMW-14	10/18/1990	A	956.61	55.15	901.46
EMW-14	11/25/1990	A	956.61	54.35	902.26
EMW-14	2/17/1991	A	956.61	53.4	903.21
EMW-14	3/17/1991	A	956.61	55.54	902.31
EMW-14	4/22/1991	A	956.61	53.3	903.31
EMW-14	5/19/1991	A	956.61	53.85	902.76
EMW-14	6/22/1991	A	956.61	53.9	902.71
EMW-14	7/21/1991	A	956.61	55.05	901.56
EMW-14	8/18/1991	A	956.61	56.2	900.41
EMW-14	9/24/1991	A	956.61	56.7	899.91
EMW-14	6/11/1993	A	956.61	48.4	908.21
EMW-14	7/14/1993	A	956.61	48.4	908.21
EMW-14	8/11/1993	A	956.61	49.1	907.51
EMW-14	9/24/1993	A	956.61	49.6	907.01
EMW-14	10/28/1993	A	956.61	49.3	907.31
EMW-14	11/23/1993	A	956.61	49.1	907.51
EMW-14	12/14/1993	A	956.61	48.8	907.81
EMW-14	1/28/1994	A	956.61	49.7	906.91
EMW-14	2/25/1994	A	956.61	49.7	906.91
EMW-14	3/21/1994	A	956.61	49.6	907.01
EMW-14	4/27/1994	A	956.61	50.4	906.21
EMW-14	5/25/1994	A	956.61	50.7	905.91
EMW-14	6/1/1994	A	956.61	50.7	905.91
EMW-14	7/22/1994	A	956.61	53.6	903.01
EMW-14	4/21/1995	A	956.61	52.1	904.51
EMW-14	4/14/2008	A	956.61	62.96	893.65
EMW-14	11/17/2008	A	956.61	64.33	892.28
EMW-14	2/2/2010	A	958.67	65	893.67
EMW-14	8/23/2010	A	958.67	63.15	895.52
EMW-14	11/29/2010	A	958.67	63.35	895.32
EMW-14	2/3/2011	A	958.67	62.75	895.92
EMW-14	5/3/2011	A	958.67	62.42	895.74
EMW-14	8/1/2011	A	958.16	64.27	893.89
EMW-14	11/2/2011	A	958.16	65.07	
EMW-14R	3/13/2012	A	958.177	65.05	893.127
EMW-14R	5/1/2012	A	958.177	64.41	893.767
EMW-14R	8/2/2012	A	958.177	66.02	892.157
EMW-14R	11/1/2012	A	958.177	67.07	891.107
EMW-14R	2/4/2013	A	958.177	66.06	892.117
EMW-14R	5/1/2013	A	958.177	65.78	892.397
EMW-14R	8/6/2013	A	958.177	67.84	890.337
EMW-14R	11/4/2013	A	958.177	68.91	889.267

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-15	1/16/1987	A	958.14	49.95	908.2
EMW-15	2/20/1987	A	958.14	50.25	907.9
EMW-15	3/17/1987	A	958.14	50.45	907.7
EMW-15	4/17/1987	A	958.14	50.55	907.6
EMW-15	5/20/1987	A	958.14	51.35	906.8
EMW-15	6/19/1987	A	958.14	51.6	906.55
EMW-15	7/16/1987	A	958.14	51.85	906.3
EMW-15	8/25/1987	A	958.14	52.1	906.05
EMW-15	10/1/1987	A	958.14	51.86	906.29
EMW-15	10/23/1987	A	958.14	51.91	906.24
EMW-15	11/25/1987	A	958.14	51.9	906.25
EMW-15	1/7/1988	A	958.14	51.91	906.24
EMW-15	2/15/1988	A	958.14	51.63	906.52
EMW-15	3/9/1988	A	958.14	51.67	906.48
EMW-15	4/14/1988	A	958.14	51.67	906.48
EMW-15	5/19/1988	A	958.14	51.83	906.32
EMW-15	6/28/1988	A	958.14	52.53	905.62
EMW-15	7/15/1988	A	958.14	53.4	904.75
EMW-15	8/8/1988	A	958.14	53.63	904.52
EMW-15	9/14/1988	A	958.14	54	904.15
EMW-15	11/23/1988	A	958.14	58.21	899.94
EMW-15	1/19/1989	A	958.14	52.23	905.92
EMW-15	2/14/1989	A	958.14	51.6	906.55
EMW-15	3/14/1989	A	958.14	52.2	905.95
EMW-15	7/1/1989	A	958.14	53.4	904.75
EMW-15	9/19/1989	A	958.14	53.18	904.97
EMW-15	11/20/1989	A	958.14	54.2	903.95
EMW-15	1/22/1990	A	958.14	54.2	903.95
EMW-15	1/23/1990	A	958.14	54.45	903.7
EMW-15	1/24/1990	A	958.14	54.45	903.7
EMW-15	1/25/1990	A	958.14	54.4	903.75
EMW-15	1/26/1990	A	958.14	54.4	903.75
EMW-15	1/29/1990	A	958.14	54.25	903.9
EMW-15	1/30/1990	A	958.14	54.1	904.05
EMW-15	1/31/1990	A	958.14	54.15	904
EMW-15	2/1/1990	A	958.14	54.1	904.05
EMW-15	2/2/1990	A	958.14	54.2	903.95
EMW-15	2/8/1990	A	958.14	54.25	903.9
EMW-15	2/16/1990	A	958.14	54.3	903.85
EMW-15	2/23/1990	A	958.14	54.3	903.85
EMW-15	3/1/1990	A	958.14	54.1	904.05
EMW-15	3/9/1990	A	958.14	53.9	904.25
EMW-15	3/16/1990	A	958.14	53.95	904.2
EMW-15	3/21/1990	A	958.14	53.85	904.3
EMW-15	4/4/1990	A	958.14	53.9	904.25
EMW-15	4/18/1990	A	958.14	54.25	903.9
EMW-15	5/22/1990	A	958.14	54.45	903.7
EMW-15	6/19/1990	A	958.14	55.6	902.55
EMW-15	7/17/1990	A	958.14	56.2	901.95
EMW-15	8/16/1990	A	958.14	56	902.15
EMW-15	9/22/1990	A	958.14	55.8	902.35
EMW-15	10/17/1990	A	958.14	55.4	902.75
EMW-15	11/24/1990	A	958.14	54.95	903.2

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-15	1/18/1991	A	958.14	56	902.15
EMW-15	2/16/1991	A	958.14	55.1	903.05
EMW-15	3/16/1991	A	958.14	55.3	902.85
EMW-15	4/22/1991	A	958.14	55.45	902.7
EMW-15	5/19/1991	A	958.14	55.8	902.35
EMW-15	6/19/1991	A	958.14	55.95	902.2
EMW-15	7/21/1991	A	958.14	56.6	901.55
EMW-15	8/18/1991	A	958.14	57.3	900.85
EMW-15	9/23/1991	A	958.14	57.8	900.35
EMW-15	10/31/1991	A	958.14	57.35	900.8
EMW-15	11/17/1991	A	958.14	57.2	900.95
EMW-15	1/19/1992	A	958.14	56.7	901.45
EMW-15	2/21/1992	A	958.14	56.42	901.73
EMW-15	3/26/1992	A	958.14	55.5	902.64
EMW-15	4/22/1992	A	958.14	55.3	902.84
EMW-15	5/14/1992	A	958.14	55.45	902.69
EMW-15	6/29/1992	A	958.14	55.4	902.74
EMW-15	7/30/1992	A	958.14	56.2	901.94
EMW-15	8/24/1992	A	958.14	56.45	901.69
EMW-15	10/7/1992	A	958.14	56.1	902.04
EMW-15	10/28/1992	A	958.14	55.8	902.34
EMW-15	11/23/1992	A	958.14	55.5	902.64
EMW-15	12/15/1992	A	958.14	53.5	904.64
EMW-15	2/4/1993	A	958.14	54.5	903.64
EMW-15	3/23/1993	A	958.14	52.9	905.24
EMW-15	4/15/1993	A	958.14	52.5	905.64
EMW-15	5/18/1993	A	958.14	51.7	906.44
EMW-15	6/10/1993	A	958.14	51.5	906.64
EMW-15	6/18/1993	A	958.14	51.6	906.54
EMW-15	7/14/1993	A	958.14	51.5	906.64
EMW-15	8/11/1993	A	958.14	51.7	906.44
EMW-15	9/24/1993	A	958.14	52	906.14
EMW-15	10/28/1993	A	958.14	51.7	906.44
EMW-15	11/23/1993	A	958.14	51.6	906.54
EMW-15	12/14/1993	A	958.14	51.3	906.84
EMW-15	12/22/1993	A	958.14	51.4	906.74
EMW-15	1/27/1994	A	958.14	51.5	906.64
EMW-15	2/25/1994	A	958.14	51.6	906.54
EMW-15	3/21/1994	A	958.14	51.4	906.74
EMW-15	4/27/1994	A	958.14	52	906.14
EMW-15	5/25/1994	A	958.14	52.1	906.04
EMW-15	6/1/1994	A	958.14	52	906.14
EMW-15	7/21/1994	A	958.14	54.2	903.94
EMW-15	8/25/1994	A	958.14	55.3	902.84
EMW-15	9/22/1994	A	958.14	54.8	903.34
EMW-15	10/12/1994	A	958.14	54.3	903.84
EMW-15	11/18/1994	A	958.14	54.3	903.84
EMW-15	12/30/1994	A	958.14	54.2	903.94
EMW-15	1/30/1995	A	958.14	53.9	904.24
EMW-15	1/30/1995	A	958.14	53.9	904.24
EMW-15	2/23/1995	A	958.14	53.5	904.64
EMW-15	3/30/1995	A	958.14	53	905.14
EMW-15	4/21/1995	A	958.14	52.9	905.24

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-15	5/26/1995	A	958.14	53.3	904.84
EMW-15	6/23/1995	A	958.14	53.36	904.78
EMW-15	7/27/1995	A	958.14	54.4	903.74
EMW-15	8/30/1995	A	958.14	55.13	903.01
EMW-15	9/29/1995	A	958.14	54.97	903.17
EMW-15	10/27/1995	A	958.14	54.52	903.62
EMW-15	11/28/1995	A	958.14	54.38	903.76
EMW-15	12/30/1995	A	958.14	54.1	904.04
EMW-15	1/31/1996	A	958.14	53.69	904.45
EMW-15	2/20/1996	A	958.14	53.77	904.37
EMW-15	3/30/1996	A	958.14	53.2	904.94
EMW-15	4/29/1996	A	958.14	54.05	904.09
EMW-15	5/31/1996	A	958.14	54.3	903.84
EMW-15	6/28/1996	A	958.14	54.95	903.19
EMW-15	7/31/1996	A	958.14	55.95	902.19
EMW-15	8/30/1996	A	958.14	56.41	901.73
EMW-15	9/28/1996	A	958.14	56.48	901.66
EMW-15	10/30/1996	A	958.14	56.4	901.74
EMW-15	1/15/1997	A	958.14	54.33	903.81
EMW-15	4/29/1997	A	958.14	54.8	903.34
EMW-15	7/29/1997	A	958.14	57.75	900.39
EMW-15	1/30/1998	A	958.14	57	901.14
EMW-15	5/8/1998	A	958.14	55.58	907.44
EMW-15	7/29/1998	A	958.14	55.65	902.49
EMW-15	10/29/1998	A	958.14	55.37	902.77
EMW-15	1/28/1999	A	958.14	54.87	903.27
EMW-15	4/29/1999	A	958.14	55.57	902.57
EMW-15	8/5/1999	A	958.14	56.6	901.54
EMW-15	10/13/1999	A	958.14	57.6	900.54
EMW-15	2/9/2000	A	958.14	56	902.14
EMW-15	5/4/2000	A	958.14	55.7	902.44
EMW-15	8/3/2000	A	958.14	57	901.14
EMW-15	10/25/2000	A	958.14	58	900.14
EMW-15	1/31/2001	A	958.14	57	901.14
EMW-15	5/24/2001	A	958.14	55.88	902.26
EMW-15	8/1/2001	A	958.14	56.85	901.29
EMW-15	10/30/2001	A	958.14	57.15	900.99
EMW-15	1/31/2002	A	958.14	56.95	901.19
EMW-15	5/14/2002	A	958.14	57	901.14
EMW-15	7/31/2002	A	958.14	58.65	899.49
EMW-15	10/31/2002	A	958.14	59.25	898.89
EMW-15	1/31/2003	A	958.14	58.6	899.54
EMW-15	4/30/2003	A	958.14	58	900.14
EMW-15	8/8/2003	A	958.14	59.3	898.84
EMW-15	10/29/2003	A	958.14	59.9	898.24
EMW-15	1/29/2004	A	958.14	59.85	898.29
EMW-15	4/29/2004	A	958.14	59.13	899.01
EMW-15	7/30/2004	A	958.14	59.55	898.59
EMW-15	11/2/2004	A	958.14	60.85	897.29
EMW-15	1/28/2005	A	958.14	60.47	897.67
EMW-15	5/6/2005	A	958.14	59.6	898.54
EMW-15	7/26/2005	A	958.14	59.85	898.29
EMW-15	10/27/2005	A	958.14	59.55	898.59

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-15	1/27/2006	A	958.14	58.7	899.44
EMW-15	5/4/2006	A	958.14	58.7	899.44
EMW-15	7/26/2006	A	958.14	58.6	899.54
EMW-15	10/31/2006	A	958.14	59.5	898.64
EMW-15	1/30/2007	A	958.14	60.1	898.04
EMW-15	5/2/2007	A	958.14	60.6	897.54
EMW-15	7/31/2007	A	958.14	62.2	895.94
EMW-15	10/9/2007	A	958.14	52.61	905.53
EMW-15	1/8/2008	A	958.14	62.59	895.55
EMW-15	4/14/2008	A	958.14	62.55	895.59
EMW-15	8/1/2008	A	958.14	62.59	895.55
EMW-15	11/17/2008	A	958.14	63.07	895.07
EMW-15	2/16/2009	A	958.14	63.1	895.04
EMW-15	5/18/2009	A	958.14	63.31	894.83
EMW-15	8/24/2009	A	960.2	64.7	895.5
EMW-15	11/18/2009	A	960.2	65.29	894.91
EMW-15	2/4/2010	A	960.2	65	895.2
EMW-15	5/3/2010	A	960.2	63.05	897.15
EMW-15	8/24/2010	A	960.2	63.5	896.7
EMW-15	11/29/2010	A	960.2	64.24	895.96
EMW-15	2/3/2011	A	960.2	64.05	896.15
EMW-15	5/3/2011	A	960.2	62.85	897.35
EMW-15	8/1/2011	A	960.2	63.53	896.67
EMW-15	11/2/2011	A	960.2	64.72	895.48
EMW-15	2/1/2012	A	959.48	64.9	894.58
EMW-15	5/1/2012	A	959.48	63.98	895.5
EMW-15	8/1/2012	A	959.48	64.21	895.27
EMW-15	11/1/2012	A	959.48	65.57	893.91
EMW-15	2/4/2013	A	959.48	65.99	893.49
EMW-15	5/1/2013	A	959.48	65.04	894.44
EMW-15	8/5/2013	A	960.2	65.03	895.17
EMW-15	11/4/2013	A	960.2	66.54	893.66
EMW-16	1/16/1987	A	962.4	52.8	909.4
EMW-16	2/20/1987	A	962.4	53.3	908.9
EMW-16	3/17/1987	A	962.4	53.4	908.8
EMW-16	4/17/1987	A	962.4	53.3	908.9
EMW-16	5/20/1987	A	962.4	54.1	908.1
EMW-16	6/19/1987	A	962.4	54.23	907.97
EMW-16	7/16/1987	A	962.4	54.14	908.06
EMW-16	8/25/1987	A	962.4	53.75	908.45
EMW-16	10/1/1987	A	962.4	53.87	908.33
EMW-16	10/23/1987	A	962.4	54.13	908.07
EMW-16	11/25/1987	A	962.4	54.32	907.88
EMW-16	1/7/1988	A	962.4	54.5	907.7
EMW-16	2/15/1988	A	962.4	54.48	907.72
EMW-16	3/9/1988	A	962.4	54.48	907.72
EMW-16	4/14/1988	A	962.4	54.4	907.8
EMW-16	5/19/1988	A	962.4	54.2	908
EMW-16	6/28/1988	A	962.4	55.04	907.16
EMW-16	7/13/1988	A	962.4	55.79	906.41
EMW-16	8/8/1988	A	962.4	55.9	906.3
EMW-16	9/14/1988	A	962.4	56.35	905.85
EMW-16	11/23/1988	A	962.4	59.4	902.8

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-16	1/19/1989	A	962.4	54.9	907.3
EMW-16	2/14/1989	A	962.4	55.05	907.15
EMW-16	3/14/1989	A	962.4	54.7	907.5
EMW-16	7/1/1989	A	962.4	55.79	906.41
EMW-16	9/19/1989	A	962.4	55.62	906.58
EMW-16	11/20/1989	A	962.4	56.89	905.31
EMW-16	1/22/1990	A	962.4	57	905.2
EMW-16	1/23/1990	A	962.4	57.15	905.05
EMW-16	1/24/1990	A	962.4	57.15	905.05
EMW-16	1/25/1990	A	962.4	57.15	905.05
EMW-16	1/26/1990	A	962.4	57.05	905.15
EMW-16	1/29/1990	A	962.4	56.55	905.65
EMW-16	1/30/1990	A	962.4	56.2	906
EMW-16	1/31/1990	A	962.4	56.35	905.85
EMW-16	2/1/1990	A	962.4	56.3	905.9
EMW-16	2/2/1990	A	962.4	56.4	905.8
EMW-16	2/8/1990	A	962.4	56.9	905.3
EMW-16	2/16/1990	A	962.4	57.1	905.1
EMW-16	2/23/1990	A	962.4	57.1	905.1
EMW-16	3/1/1990	A	962.4	56.95	905.25
EMW-16	3/9/1990	A	962.4	56.8	905.4
EMW-16	3/16/1990	A	962.4	56.75	905.45
EMW-16	3/21/1990	A	962.4	56.6	905.6
EMW-16	4/4/1990	A	962.4	56.7	905.5
EMW-16	4/18/1990	A	962.4	56.75	905.45
EMW-16	5/22/1990	A	962.4	56.85	905.35
EMW-16	6/19/1990	A	962.4	56.95	905.25
EMW-16	7/17/1990	A	962.4	57.7	904.5
EMW-16	8/16/1990	A	962.4	58.2	904
EMW-16	9/22/1990	A	962.4	58.4	903.8
EMW-16	10/17/1990	A	962.4	58.1	904.1
EMW-16	11/24/1990	A	962.4	57.8	904.4
EMW-16	3/16/1991	A	962.4	58.15	904.05
EMW-16	4/22/1991	A	962.4	58.4	903.8
EMW-16	5/19/1991	A	962.4	58.45	903.75
EMW-16	6/19/1991	A	962.4	58.65	903.55
EMW-16	7/21/1991	A	962.4	59	903.2
EMW-16	8/18/1991	A	962.4	59.5	902.7
EMW-16	9/23/1991	A	962.4	59.95	902.25
EMW-16	10/31/1991	A	962.4	60.15	902.05
EMW-16	11/17/1991	A	962.4	60	902.2
EMW-16	1/18/1992	A	962.4	59.6	902.6
EMW-16	2/21/1992	A	962.4	59.33	902.87
EMW-16	3/26/1992	A	962.4	58.4	904
EMW-16	4/22/1992	A	962.4	58	904.4
EMW-16	5/14/1992	A	962.4	58.4	904
EMW-16	6/29/1992	A	962.4	57.8	904.6
EMW-16	7/30/1992	A	962.4	58.4	904
EMW-16	8/24/1992	A	962.4	58.7	903.7
EMW-16	10/7/1992	A	962.4	58.5	903.9
EMW-16	10/28/1992	A	962.4	58.3	904.1
EMW-16	11/23/1992	A	962.4	57.9	904.5
EMW-16	12/17/1992	A	962.4	58.1	904.3

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-16	2/4/1993	A	962.4	57.5	904.9
EMW-16	3/10/1993	A	962.4	56.2	906.2
EMW-16	4/15/1993	A	962.4	55.5	906.9
EMW-16	5/18/1993	A	962.4	54.4	908
EMW-16	6/10/1993	A	962.4	53.8	908.6
EMW-16	6/18/1993	A	962.4	53.8	908.6
EMW-16	7/14/1993	A	962.4	53.6	908.8
EMW-16	8/11/1993	A	962.4	53.5	908.9
EMW-16	9/24/1993	A	962.4	53.8	908.6
EMW-16	10/28/1993	A	962.4	53.7	908.7
EMW-16	11/23/1993	A	962.4	53.8	908.6
EMW-16	12/14/1993	A	962.4	53.6	908.8
EMW-16	12/22/1993	A	962.4	53.9	908.5
EMW-16	1/27/1994	A	962.4	53.8	908.6
EMW-16	2/25/1994	A	962.4	54	908.4
EMW-16	3/21/1994	A	962.4	53.5	908.9
EMW-16	4/27/1994	A	962.4	54	908.4
EMW-16	5/25/1994	A	962.4	54.2	908.2
EMW-16	6/1/1994	A	962.4	53.9	908.5
EMW-16	7/21/1994	A	962.4	56.2	906.2
EMW-16	8/25/1994	A	962.4	57.3	905.1
EMW-16	9/22/1994	A	962.4	56.6	905.8
EMW-16	10/12/1994	A	962.4	56.4	906
EMW-16	11/18/1994	A	962.4	56.5	905.9
EMW-16	12/30/1994	A	962.4	56.6	905.8
EMW-16	1/30/1995	A	962.4	56.5	905.9
EMW-16	2/23/1995	A	962.4	56.1	906.3
EMW-16	3/30/1995	A	962.4	55.4	907
EMW-16	4/21/1995	A	962.4	55.3	907.1
EMW-16	5/26/1995	A	962.4	56.1	906.3
EMW-16	6/23/1995	A	962.4	55.82	906.58
EMW-16	7/27/1995	A	962.4	56.87	905.53
EMW-16	8/30/1995	A	962.4	57.34	905.06
EMW-16	9/29/1995	A	962.4	57.5	904.9
EMW-16	10/27/1995	A	962.4	57.26	905.14
EMW-16	11/28/1995	A	962.4	57.28	905.12
EMW-16	12/30/1995	A	962.4	57.04	905.36
EMW-16	1/31/1996	A	962.4	56.35	906.05
EMW-16	2/20/1996	A	962.4	56.57	905.83
EMW-16	3/30/1996	A	962.4	55.6	906.8
EMW-16	4/29/1996	A	962.4	56.6	905.8
EMW-16	5/31/1996	A	962.4	56.88	905.52
EMW-16	6/28/1996	A	962.4	55.87	906.53
EMW-16	7/31/1996	A	962.4	58.08	904.32
EMW-16	8/30/1996	A	962.4	58.35	904.05
EMW-16	9/28/1996	A	962.4	58.95	903.45
EMW-16	10/30/1996	A	962.4	59.1	903.3
EMW-16	1/15/1997	A	962.4	55.83	906.57
EMW-16	4/29/1997	A	962.4	57.5	904.9
EMW-16	7/29/1997	A	962.4	60.58	901.82
EMW-16	1/30/1998	A	962.4	60.22	902.18
EMW-16	5/8/1998	A	962.4	58.7	906.82
EMW-16	7/29/1998	A	962.4	58.57	903.83

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-16	10/29/1998	A	962.4	58.35	904.05
EMW-16	1/28/1999	A	962.4	58.25	904.15
EMW-16	4/28/1999	A	962.4	58.82	962.4
EMW-16	8/5/1999	A	962.4	59.05	903.35
EMW-16	10/13/1999	A	962.4	60.15	902.25
EMW-16	2/9/2000	A	962.4	59.2	903.2
EMW-16	5/2/2000	A	962.4	58.65	903.75
EMW-16	8/3/2000	A	962.4	59.35	903.05
EMW-16	10/25/2000	A	962.4	60.4	902
EMW-16	1/31/2001	A	962.4	60	902.4
EMW-16	5/24/2001	A	962.4	58.67	903.73
EMW-16	8/1/2001	A	962.4	59.3	903.1
EMW-16	10/30/2001	A	962.4	59.4	903
EMW-16	1/31/2002	A	962.4	59.7	902.7
EMW-16	5/14/2002	A	962.4	59.7	902.7
EMW-16	7/31/2002	A	962.4	61.17	901.23
EMW-16	10/31/2002	A	962.4	61.7	900.7
EMW-16	1/31/2003	A	962.4	61.62	900.78
EMW-16	4/30/2003	A	962.4	61	901.4
EMW-16	8/8/2003	A	962.4	61.9	900.5
EMW-16	10/29/2003	A	962.4	62.6	899.8
EMW-16	1/29/2004	A	962.4	63.02	899.38
EMW-16	4/29/2004	A	962.4	62.2	900.2
EMW-16	7/30/2004	A	962.4	62.1	900.3
EMW-16	11/2/2004	A	962.4	63.5	898.9
EMW-16	1/28/2005	A	962.4	63.9	898.5
EMW-16	5/6/2005	A	962.4	63	899.4
EMW-16	7/26/2005	A	962.4	52.75	909.65
EMW-16	10/27/2005	A	962.4	62.45	899.95
EMW-16	1/27/2006	A	962.4	61.95	900.45
EMW-16	5/4/2006	A	962.4	62.5	899.9
EMW-16	7/26/2006	A	962.4	61.45	900.95
EMW-16	10/31/2006	A	962.4	62.65	899.75
EMW-16	1/30/2007	A	962.4	63.6	898.8
EMW-16	5/2/2007	A	962.4	64.05	898.35
EMW-16	7/31/2007	A	962.4	65.3	897.1
EMW-16	10/9/2007	A	962.4	66.05	896.35
EMW-16	1/7/2008	A	962.4	65.92	896.48
EMW-16	4/14/2008	A	962.4	66.23	896.17
EMW-16	8/1/2008	A	962.4	65.91	896.49
EMW-16	11/17/2008	A	962.4	66.61	895.79
EMW-16	2/17/2009	A	962.4	66.55	895.85
EMW-16	5/18/2009	A	962.4	67.01	895.39
EMW-16	8/24/2009	A	964.46	68.54	895.92
EMW-16	11/18/2009	A	964.46	68.39	896.07
EMW-16	2/3/2010	A	964.46	68.3	896.16
EMW-16	5/3/2010	A	964.46	66	898.46
EMW-16	8/24/2010	A	964.46	66.72	897.74
EMW-16	11/29/2010	A	964.46	67.6	896.86
EMW-16	2/3/2011	A	964.46	67.71	896.75
EMW-16	5/2/2011	A	964.46	66.66	897.8
EMW-16	8/1/2011	A	964.46	65	899.46
EMW-16	11/1/2011	A	964.46	66.21	898.25

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-16	2/1/2012	A	961.67	66.61	895.06
EMW-16	5/1/2012	A	961.67	65.95	895.72
EMW-16	8/1/2012	A	961.67	65.52	896.15
EMW-16	11/1/2012	A	961.67	67.39	894.28
EMW-16	2/4/2013	A	961.67	68.35	893.32
EMW-16	5/1/2013	A	961.67	67.42	894.25
EMW-16	8/5/2013	A	964.46	66.4	898.06
EMW-16	11/4/2013	A	964.46	68.6	895.86
EMW-17	1/16/1987	A	970.1	59.9	910.2
EMW-17	2/20/1987	A	970.1	60.2	909.9
EMW-17	3/17/1987	A	970.1	60.4	909.7
EMW-17	4/17/1987	A	970.1	60	910.1
EMW-17	5/20/1987	A	970.1	61	909.1
EMW-17	6/19/1987	A	970.1	61.25	908.85
EMW-17	7/16/1987	A	970.1	61.18	908.92
EMW-17	8/25/1987	A	970.1	60.75	909.35
EMW-17	10/1/1987	A	970.1	60.49	909.61
EMW-17	10/23/1987	A	970.1	60.73	909.37
EMW-17	11/25/1987	A	970.1	60.96	909.14
EMW-17	1/7/1988	A	970.1	61.26	908.84
EMW-17	2/15/1988	A	970.1	61.12	908.98
EMW-17	3/9/1988	A	970.1	61.18	908.92
EMW-17	4/14/1988	A	970.1	61.22	908.88
EMW-17	5/19/1988	A	970.1	60.98	909.12
EMW-17	6/28/1988	A	970.1	61.98	908.12
EMW-17	7/13/1988	A	970.1	61.86	908.24
EMW-17	8/8/1988	A	970.1	62.95	907.15
EMW-17	9/14/1988	A	970.1	63.1	907
EMW-17	11/23/1988	A	970.1	63.14	906.96
EMW-17	1/19/1989	A	970.1	61.73	908.37
EMW-17	2/14/1989	A	970.1	61.7	908.4
EMW-17	3/14/1989	A	970.1	61.55	908.55
EMW-17	7/1/1989	A	970.1	61.86	908.24
EMW-17	9/19/1989	A	970.1	61.71	908.39
EMW-17	11/20/1989	A	970.1	63.92	906.18
EMW-17	1/22/1990	A	970.1	64.1	906
EMW-17	1/23/1990	A	970.1	64.1	906
EMW-17	1/24/1990	A	970.1	64.1	906
EMW-17	1/25/1990	A	970.1	64.15	905.95
EMW-17	1/26/1990	A	970.1	64.1	906
EMW-17	1/29/1990	A	970.1	63.95	906.15
EMW-17	1/30/1990	A	970.1	63.1	907
EMW-17	1/31/1990	A	970.1	63.9	906.2
EMW-17	2/1/1990	A	970.1	63.95	906.15
EMW-17	2/2/1990	A	970.1	64.1	906
EMW-17	2/8/1990	A	970.1	64.2	905.9
EMW-17	2/16/1990	A	970.1	64.15	905.95
EMW-17	2/23/1990	A	970.1	64.2	905.9
EMW-17	3/1/1990	A	970.1	64.1	906
EMW-17	3/9/1990	A	970.1	64.1	906
EMW-17	3/16/1990	A	970.1	64.05	906.05
EMW-17	3/21/1990	A	970.1	63.95	906.15
EMW-17	4/3/1990	A	970.1	64	906.1

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-17	4/18/1990	A	970.1	64.05	906.05
EMW-17	5/22/1990	A	970.1	64	906.1
EMW-17	6/17/1990	A	970.1	64.4	905.7
EMW-17	7/17/1990	A	970.1	65.15	904.95
EMW-17	8/16/1990	A	970.1	65.6	904.5
EMW-17	9/22/1990	A	970.1	65.55	904.55
EMW-17	10/17/1990	A	970.1	65.25	904.85
EMW-17	11/24/1990	A	970.1	64.95	905.15
EMW-17	2/16/1991	A	970.1	64.85	905.25
EMW-17	3/16/1991	A	970.1	65.1	905
EMW-17	4/22/1991	A	970.1	65.1	905
EMW-17	5/19/1991	A	970.1	65	905.1
EMW-17	6/19/1991	A	970.1	65.35	904.75
EMW-17	7/21/1991	A	970.1	66.05	904.05
EMW-17	8/18/1991	A	970.1	66.55	903.55
EMW-17	9/23/1991	A	970.1	66.8	903.3
EMW-17	10/31/1991	A	970.1	67	903.1
EMW-17	11/17/1991	A	970.1	66.95	903.15
EMW-17	1/18/1992	A	970.1	66.35	903.75
EMW-17	2/21/1992	A	970.1	65.92	904.18
EMW-17	3/26/1992	A	970.1	65.2	904.9
EMW-17	4/22/1992	A	970.1	64.85	905.25
EMW-17	5/14/1992	A	970.1	64.7	905.4
EMW-17	6/29/1992	A	970.1	64.5	905.6
EMW-17	7/30/1992	A	970.1	64.8	905.3
EMW-17	8/24/1992	A	970.1	64.9	905.2
EMW-17	10/7/1992	A	970.1	64.5	905.6
EMW-17	10/28/1992	A	970.1	64.2	905.9
EMW-17	11/23/1992	A	970.1	64	906.1
EMW-17	12/15/1992	A	970.1	64	906.1
EMW-17	2/4/1993	A	970.1	63.5	906.6
EMW-17	3/11/1993	A	970.1	63.5	906.6
EMW-17	4/15/1993	A	970.1	61.5	908.6
EMW-17	5/18/1993	A	970.1	60.6	909.5
EMW-17	6/10/1993	A	970.1	59.7	910.4
EMW-17	6/28/1993	A	970.1	59.3	910.8
EMW-17	7/14/1993	A	970.1	59.3	910.8
EMW-17	8/11/1993	A	970.1	59.2	910.9
EMW-17	9/24/1993	A	970.1	59.5	910.6
EMW-17	10/28/1993	A	970.1	59.7	910.4
EMW-17	11/23/1993	A	970.1	59.8	910.3
EMW-17	12/14/1993	A	970.1	59.7	910.4
EMW-17	1/27/1994	A	970.1	59.9	910.2
EMW-17	2/25/1994	A	970.1	60.1	910
EMW-17	3/21/1994	A	970.1	59.6	910.5
EMW-17	4/27/1994	A	970.1	59.8	910.3
EMW-17	5/25/1994	A	970.1	60	910.1
EMW-17	6/1/1994	A	970.1	59.7	910.4
EMW-17	7/21/1994	A	970.1	61.4	908.7
EMW-17	8/25/1994	A	970.1	63.5	906.6
EMW-17	9/22/1994	A	970.1	63	907.1
EMW-17	10/12/1994	A	970.1	62.9	907.2
EMW-17	11/18/1994	A	970.1	63.1	907

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-17	12/30/1994	A	970.1	63.3	906.8
EMW-17	1/30/1995	A	970.1	62.9	907.2
EMW-17	2/23/1995	A	970.1	62.7	907.4
EMW-17	3/30/1995	A	970.1	61.9	908.2
EMW-17	4/21/1995	A	970.1	61.6	908.5
EMW-17	5/26/1995	A	970.1	61.6	908.5
EMW-17	6/23/1995	A	970.1	61.6	908.5
EMW-17	7/27/1995	A	970.1	62.67	907.43
EMW-17	8/30/1995	A	970.1	63.16	906.94
EMW-17	9/29/1995	A	970.1	63.19	906.91
EMW-17	10/27/1995	A	970.1	63.05	907.05
EMW-17	11/28/1995	A	970.1	63.12	906.98
EMW-17	12/30/1995	A	970.1	63	907.1
EMW-17	1/31/1996	A	970.1	62.65	907.45
EMW-17	2/20/1996	A	970.1	62.85	907.25
EMW-17	3/30/1996	A	970.1	62.05	908.05
EMW-17	4/29/1996	A	970.1	62.6	907.5
EMW-17	5/31/1996	A	970.1	62.75	907.35
EMW-17	6/28/1996	A	970.1	63.5	906.6
EMW-17	7/31/1996	A	970.1	64.4	905.7
EMW-17	8/30/1996	A	970.1	64.78	905.32
EMW-17	9/28/1996	A	970.1	65.15	904.95
EMW-17	10/30/1996	A	970.1	65.38	904.72
EMW-17	1/15/1997	A	970.1	61.78	908.32
EMW-17	4/29/1997	A	970.1	63.83	906.27
EMW-17	7/29/1997	A	970.1	67.22	902.88
EMW-17	1/30/1998	A	970.1	66.93	903.17
EMW-17	5/8/1998	A	970.1	64.6	911.4
EMW-17	7/29/1998	A	970.1	64.75	905.35
EMW-17	10/29/1998	A	970.1	64.65	905.45
EMW-17	1/28/1999	A	970.1	64.65	905.45
EMW-17	4/28/1999	A	970.1	65.25	904.85
EMW-17	8/5/1999	A	970.1	65.75	904.35
EMW-17	10/13/1999	A	970.1	67	903.1
EMW-17	2/9/2000	A	970.1	66	904.1
EMW-17	5/2/2000	A	970.1	65.65	904.45
EMW-17	8/3/2000	A	970.1	66.85	903.25
EMW-17	10/25/2000	A	970.1	67.55	902.55
EMW-17	1/31/2001	A	970.1	66.67	903.43
EMW-17	5/24/2001	A	970.1	65.6	904.5
EMW-17	8/1/2001	A	970.1	66.4	903.7
EMW-17	10/30/2001	A	970.1	66.25	903.85
EMW-17	1/31/2002	A	970.1	66.95	903.15
EMW-17	5/14/2002	A	970.1	67.17	902.93
EMW-17	7/31/2002	A	970.1	68.9	901.2
EMW-17	10/31/2002	A	970.1	69.1	901
EMW-17	1/31/2003	A	970.1	69.25	900.85
EMW-17	4/30/2003	A	970.1	68.7	901.4
EMW-17	8/8/2003	A	970.1	70	900.1
EMW-17	10/29/2003	A	970.1	70.17	899.93
EMW-17	1/29/2004	A	970.1	60.85	909.25
EMW-17	4/29/2004	A	970.1	70.15	899.95
EMW-17	7/30/2004	A	970.1	70.2	899.9

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-17	11/2/2004	A	970.1	71.8	898.3
EMW-17	1/28/2005	A	970.1	72.1	898
EMW-17	5/6/2005	A	970.1	71.1	899
EMW-17	7/26/2005	A	970.1	70.3	899.8
EMW-17	10/27/2005	A	970.1	69.7	900.4
EMW-17	1/27/2006	A	970.1	69.4	900.7
EMW-17	5/4/2006	A	970.1	69.6	900.5
EMW-17	7/26/2006	A	970.1	69.3	900.8
EMW-17	10/31/2006	A	970.1	69.65	900.45
EMW-17	1/30/2007	A	970.1	70.9	899.2
EMW-17	5/2/2007	A	970.1	70.67	899.43
EMW-17	7/31/2007	A	970.1	72.5	897.6
EMW-17	10/9/2007	A	970.1	72.94	897.16
EMW-17	1/7/2008	A	970.1	73.09	897.01
EMW-17	4/14/2008	A	970.1	72.95	897.15
EMW-17	8/1/2008	A	970.1	73.03	897.07
EMW-17	11/17/2008	A	970.1	73.41	896.69
EMW-17	2/16/2009	A	970.1	73.36	896.74
EMW-17	5/18/2009	A	970.1	74.05	896.05
EMW-17	8/24/2009	A	971.81	75.64	896.17
EMW-17	11/17/2009	A	971.81	75.12	896.69
EMW-17	2/4/2010	A	971.81	75.15	896.66
EMW-17	5/4/2010	A	971.81	73.36	898.45
EMW-17	8/24/2010	A	971.81	73.25	898.56
EMW-17	11/29/2010	A	971.81	74.1	897.71
EMW-17	2/3/2011	A	971.81	74.27	897.54
EMW-17	5/2/2011	A	971.81	73.81	898
EMW-17	8/1/2011	A	971.81	74.6	897.21
EMW-17	11/1/2011	A	971.81	75.16	
EMW-17	11/2/2012	A	971.81	79.22	892.59
EMW-18B	8/3/1987	B	959.32	63.16	896.16
EMW-18B	9/2/1987	B	959.32	62.86	896.46
EMW-18B	10/5/1987	B	959.32	57.8	901.52
EMW-18B	10/22/1987	B	959.32	56.55	902.77
EMW-18B	12/10/1987	B	959.32	54.12	905.2
EMW-18B	1/7/1988	B	959.32	55.63	903.69
EMW-18B	2/15/1988	B	959.32	53.32	906
EMW-18B	3/9/1988	B	959.32	53.29	906.03
EMW-18B	4/14/1988	B	959.32	59.2	900.12
EMW-18B	5/18/1988	B	959.32	60.25	899.07
EMW-18B	6/29/1988	B	959.32	65.6	893.72
EMW-18B	8/9/1988	B	959.32	68.4	890.92
EMW-18B	9/14/1988	B	959.32	60.51	898.81
EMW-18B	11/21/1988	B	959.32	54.85	904.47
EMW-18B	1/19/1989	B	959.32	53.6	905.72
EMW-18B	2/14/1989	B	959.32	54.05	905.27
EMW-18B	3/14/1989	B	959.32	55.13	904.19
EMW-18B	9/19/1989	B	959.32	60.48	898.84
EMW-18B	11/20/1989	B	959.32	57.82	901.5
EMW-18B	3/12/1990	B	959.32	57.3	902.02
EMW-18B	12/31/1990	B	959.32	55.5	903.82
EMW-18B	7/11/1991	B	959.32	65.5	893.82
EMW-18B	1/27/1992	B	959.32	54	905.32

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-18B	7/7/1992	B	959.32	61.4	897.92
EMW-18B	8/25/1992	B	959.32	56.1	903.22
EMW-18B	12/21/1992	B	959.32	51.3	908.02
EMW-18B	6/29/1993	B	959.32	52.3	907.02
EMW-18B	2/28/1994	B	959.32	50.5	908.82
EMW-18B	7/6/1994	B	959.32	61.7	897.62
EMW-18B	1/19/1995	B	959.32	51.1	906.22
EMW-18B	10/31/1995	B	959.32	53.85	905.47
EMW-18B	11/29/1995	B	959.32	52.45	906.87
EMW-18B	12/30/1995	B	959.32	52.62	906.7
EMW-18B	1/31/1996	B	959.32	52.15	907.17
EMW-18B	2/20/1996	B	959.32	52.24	907.08
EMW-18B	3/30/1996	B	959.32	55.82	903.5
EMW-18B	4/29/1996	B	959.32	57	902.32
EMW-18B	5/31/1996	B	959.32	57.1	902.22
EMW-18B	6/28/1996	B	959.32	71.87	887.45
EMW-18B	7/31/1996	B	959.32	66.45	892.87
EMW-18B	8/30/1996	B	959.32	67.5	891.82
EMW-18B	9/28/1996	B	959.32	57.75	901.57
EMW-18B	10/30/1996	B	959.32	56.25	903.07
EMW-18B	1/16/1997	B	959.32	54.33	904.99
EMW-18B	4/30/1997	B	959.32	59.2	900.12
EMW-18B	7/29/1997	B	959.32	69.72	889.6
EMW-18B	10/23/1997	B	959.32	59	900.32
EMW-18B	1/30/1998	B	959.32	57.37	901.95
EMW-18UC	4/30/1987	C	959.4	56.85	902.55
EMW-18UC	5/29/1987	C	959.4	56.7	902.7
EMW-18UC	8/3/1987	C	959.4	63.44	895.96
EMW-18UC	9/2/1987	C	959.4	62.93	896.47
EMW-18UC	10/5/1987	C	959.4	58	901.4
EMW-18UC	10/22/1987	C	959.4	56.75	902.65
EMW-18UC	12/10/1987	C	959.4	54.18	905.22
EMW-18UC	1/7/1988	C	959.4	55.8	903.6
EMW-18UC	2/15/1988	C	959.4	53.47	905.93
EMW-18UC	3/9/1988	C	959.4	53.42	905.98
EMW-18UC	4/14/1988	C	959.4	59.2	900.2
EMW-18UC	5/18/1988	C	959.4	60.37	899.03
EMW-18UC	6/29/1988	C	959.4	65.66	893.74
EMW-18UC	8/9/1988	C	959.4	67.53	891.87
EMW-18UC	9/14/1988	C	959.4	60.62	898.78
EMW-18UC	11/21/1988	C	959.4	54.9	904.5
EMW-18UC	1/19/1989	C	959.4	53.75	905.65
EMW-18UC	2/14/1989	C	959.4	54.5	904.9
EMW-18UC	3/14/1989	C	959.4	55.12	904.28
EMW-18UC	9/19/1989	C	959.4	60.66	898.74
EMW-18UC	11/20/1989	C	959.4	58.03	901.37
EMW-18UC	3/12/1990	C	959.4	57.43	901.97
EMW-18UC	12/31/1990	C	959.4	55.6	903.8
EMW-18UC	7/11/1991	C	959.4	64.9	894.5
EMW-18UC	1/27/1992	C	959.4	53.5	905.9
EMW-18UC	7/7/1992	C	959.4	60.8	898.6
EMW-18UC	8/25/1992	C	959.4	55	904.4
EMW-18UC	12/21/1992	C	959.4	51.9	907.5

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-18UC	6/29/1993	C	959.4	52	907.4
EMW-18UC	2/28/1994	C	959.4	50.1	909.3
EMW-18UC	7/7/1994	C	959.4	60.6	898.8
EMW-18UC	1/27/1995	C	959.4	51	908.4
EMW-18UC	10/31/1995	C	959.4	53.5	905.9
EMW-18UC	11/29/1995	C	959.4	52.11	907.29
EMW-18UC	12/30/1995	C	959.4	52.05	907.35
EMW-18UC	1/31/1996	C	959.4	51.93	907.47
EMW-18UC	2/20/1996	C	959.4	51.9	907.5
EMW-18UC	3/30/1996	C	959.4	55.42	903.98
EMW-18UC	4/29/1996	C	959.4	56.62	902.78
EMW-18UC	5/31/1996	C	959.4	56.77	902.63
EMW-18UC	6/28/1996	C	959.4	71.4	888
EMW-18UC	7/31/1996	C	959.4	66.28	893.12
EMW-18UC	8/30/1996	C	959.4	67.15	892.25
EMW-18UC	9/28/1996	C	959.4	57.48	901.92
EMW-18UC	10/30/1996	C	959.4	56	903.4
EMW-18UC	1/16/1997	C	959.4	54.17	905.23
EMW-18UC	4/30/1997	C	959.4	58.93	900.47
EMW-18UC	7/29/1997	C	959.4	69.49	889.91
EMW-18UC	10/23/1997	C	959.4	58.85	900.55
EMW-18UC	1/30/1998	C	959.4	57.05	902.35
EMW-19B	8/3/1987	B	953.17	57.39	895.78
EMW-19B	9/2/1987	B	953.17	56.89	896.28
EMW-19B	10/5/1987	B	953.17	52.2	900.97
EMW-19B	10/22/1987	B	953.17	50.95	902.22
EMW-19B	12/10/1987	B	953.17	48.86	904.31
EMW-19B	1/7/1988	B	953.17	49.95	903.22
EMW-19B	2/15/1988	B	953.17	47.83	905.34
EMW-19B	3/9/1988	B	953.17	47.72	905.45
EMW-19B	4/14/1988	B	953.17	53.76	899.41
EMW-19B	5/18/1988	B	953.17	54.49	898.68
EMW-19B	6/29/1988	B	953.17	60.42	892.75
EMW-19B	8/9/1988	B	953.17	62.5	890.67
EMW-19B	9/16/1988	B	953.17	55.25	897.92
EMW-19B	11/21/1988	B	953.17	49.6	903.57
EMW-19B	1/19/1989	B	953.17	48.15	905.02
EMW-19B	2/14/1989	B	953.17	48.3	904.87
EMW-19B	3/14/1989	B	953.17	49.45	903.72
EMW-19B	9/19/1989	B	953.17	53.05	900.12
EMW-19B	11/20/1989	B	953.17	52.23	900.94
EMW-19B	3/12/1990	B	953.17	51.82	901.35
EMW-19B	12/31/1990	B	953.17	50.1	903.07
EMW-19B	7/12/1991	B	953.17	62.4	890.77
EMW-19B	1/28/1992	B	953.17	50.5	902.67
EMW-19B	7/2/1992	B	953.17	57.4	895.77
EMW-19B	8/25/1992	B	953.17	53.25	899.92
EMW-19B	12/22/1992	B	953.17	48.4	904.77
EMW-19B	6/24/1993	B	953.17	49.5	903.67
EMW-19B	2/19/1994	B	953.17	46.3	906.87
EMW-19B	7/6/1994	B	953.17	58.8	894.37
EMW-19B	1/27/1995	B	953.17	48.2	904.97
EMW-19B	10/31/1995	B	953.17	50.2	902.97

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-19B	11/29/1995	B	953.17	49.16	904.01
EMW-19B	12/30/1995	B	953.17	49.21	903.96
EMW-19B	1/31/1996	B	953.17	48.63	904.54
EMW-19B	2/20/1996	B	953.17	48.77	904.4
EMW-19B	3/30/1996	B	953.17	51.88	901.29
EMW-19B	4/29/1996	B	953.17	53	900.17
EMW-19B	5/31/1996	B	953.17	53	900.17
EMW-19B	6/28/1996	B	953.17	67.6	885.57
EMW-19B	7/31/1996	B	953.17	62.35	890.82
EMW-19B	8/30/1996	B	953.17	61.98	891.19
EMW-19B	9/28/1996	B	953.17	53.93	899.24
EMW-19B	10/30/1996	B	953.17	52.62	900.55
EMW-19B	1/16/1997	B	953.17	50.65	902.52
EMW-19B	4/30/1997	B	953.17	55.8	897.37
EMW-19B	7/29/1997	B	953.17	65.28	887.89
EMW-19B	10/24/1997	B	953.17	55.23	897.94
EMW-19B	1/30/1998	B	953.17	53.82	899.35
EMW-19LC	5/29/1987	C	953.69	52.37	901.32
EMW-19LC	8/3/1987	C	953.69	60.02	893.67
EMW-19LC	9/2/1987	C	953.69	59.13	894.56
EMW-19LC	10/5/1987	C	953.69	53.4	900.29
EMW-19LC	10/22/1987	C	953.69	52	901.69
EMW-19LC	12/10/1987	C	953.69	49.77	903.92
EMW-19LC	1/7/1988	C	953.69	50.8	902.89
EMW-19LC	2/15/1988	C	953.69	48.61	905.08
EMW-19LC	3/9/1988	C	953.69	48.46	905.23
EMW-19LC	4/14/1988	C	953.69	54.88	898.81
EMW-19LC	5/18/1988	C	953.69	55.79	897.9
EMW-19LC	6/29/1988	C	953.69	62.13	891.56
EMW-19LC	8/9/1988	C	953.69	64.58	889.11
EMW-19LC	9/16/1988	C	953.69	56.75	896.94
EMW-19LC	11/21/1988	C	953.69	50.7	902.99
EMW-19LC	1/19/1989	C	953.69	49.03	904.66
EMW-19LC	2/14/1989	C	953.69	49.33	904.36
EMW-19LC	3/14/1989	C	953.69	50.72	902.97
EMW-19LC	9/19/1989	C	953.69	54.89	898.8
EMW-19LC	11/20/1989	C	953.69	53.65	900.04
EMW-19LC	3/12/1990	C	953.69	53.21	900.48
EMW-19LC	12/31/1990	C	953.69	50.9	902.79
EMW-19LC	7/12/1991	C	953.69	64.1	889.59
EMW-19LC	1/28/1992	C	953.69	51	902.69
EMW-19LC	7/2/1992	C	953.69	59.1	894.59
EMW-19LC	8/25/1992	C	953.69	54.42	899.27
EMW-19LC	12/21/1992	C	953.69	48.9	904.79
EMW-19LC	6/24/1993	C	953.69	50.9	902.79
EMW-19LC	2/19/1994	C	953.69	47	906.69
EMW-19LC	7/6/1994	C	953.69	61.5	892.19
EMW-19LC	1/19/1995	C	953.69	48.5	905.19
EMW-19LC	10/31/1995	C	953.69	51.07	902.62
EMW-19LC	11/29/1995	C	953.69	49.83	903.86
EMW-19LC	12/30/1995	C	953.69	49.85	903.84
EMW-19LC	1/31/1996	C	953.69	49.31	904.38
EMW-19LC	2/20/1996	C	953.69	49.35	904.34

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-19LC	3/30/1996	C	953.69	53.01	900.68
EMW-19LC	4/29/1996	C	953.69	54.22	899.47
EMW-19LC	5/31/1996	C	953.69	54.21	899.48
EMW-19LC	6/28/1996	C	953.69	62.68	891.01
EMW-19LC	7/31/1996	C	953.69	64.75	888.94
EMW-19LC	8/30/1996	C	953.69	64.12	889.57
EMW-19LC	9/28/1996	C	953.69	54.91	898.78
EMW-19LC	10/30/1996	C	953.69	53.46	900.23
EMW-19LC	1/16/1997	C	953.69	51.48	902.21
EMW-19LC	4/30/1997	C	953.69	57.57	896.12
EMW-19LC	7/29/1997	C	953.69	68	885.69
EMW-19LC	10/24/1997	C	953.69	56.35	897.34
EMW-19LC	1/30/1998	C	953.69	54.8	898.89
EMW-19LC	5/8/1998	C	953.69	55.05	898.64
EMW-19LC	7/30/1998	C	953.69	58.2	895.49
EMW-19LC	10/29/1998	C	953.69	52.6	901.09
EMW-19LC	1/29/1999	C	953.69	52.2	901.49
EMW-19LC	4/29/1999	C	953.69	56.4	897.29
EMW-19LC	8/5/1999	C	953.69	65.5	888.19
EMW-19LC	10/12/1999	C	953.69	57.2	896.49
EMW-19LC	2/10/2000	C	953.69	53.6	900.09
EMW-19LC	5/4/2000	C	953.69	56.45	897.24
EMW-19LC	8/3/2000	C	953.69	65	888.69
EMW-19LC	10/25/2000	C	953.69	57.75	895.94
EMW-19LC	2/1/2001	C	953.69	52.9	900.79
EMW-19LC	5/25/2001	C	953.69	55.8	897.89
EMW-19LC	8/1/2001	C	953.69	64.15	889.54
EMW-19LC	10/31/2001	C	953.69	57.95	895.74
EMW-19LC	2/1/2002	C	953.69	54.35	899.34
EMW-19LC	5/14/2002	C	953.69	58.8	894.89
EMW-19LC	8/1/2002	C	953.69	69.75	883.94
EMW-19LC	11/1/2002	C	953.69	61.35	892.34
EMW-19LC	1/31/2003	C	953.69	57.75	895.94
EMW-19LC	5/1/2003	C	953.69	59.1	894.59
EMW-19LC	8/8/2003	C	953.69	66.4	887.29
EMW-19LC	10/30/2003	C	953.69	61.97	891.72
EMW-19LC	1/29/2004	C	953.69	58	895.69
EMW-19LC	4/30/2004	C	953.69	59.65	894.04
EMW-19LC	7/30/2004	C	953.69	77.35	876.34
EMW-19LC	11/2/2004	C	953.69	64.05	889.64
EMW-19LC	1/28/2005	C	953.69	58	895.69
EMW-19LC	5/6/2005	C	953.69	58.1	895.59
EMW-19LC	7/27/2005	C	953.69	66.15	887.54
EMW-19LC	10/28/2005	C	953.69	60.2	893.49
EMW-19LC	1/27/2006	C	953.69	57.6	896.09
EMW-19LC	5/4/2006	C	953.69	61	892.69
EMW-19LC	7/27/2006	C	953.69	67.75	885.94
EMW-19LC	10/31/2006	C	953.69	62.1	891.59
EMW-19LC	1/31/2007	C	953.69	59.15	894.54
EMW-19LC	5/1/2007	C	953.69	61.9	891.79
EMW-19LC	8/1/2007	C	953.69	70	883.69
EMW-19LC	10/10/2007	C	953.69	68.99	884.7
EMW-19LC	1/9/2008	C	953.69	60.71	892.98

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-19LC	4/15/2008	C	953.69	63.45	890.24
EMW-19LC	8/4/2008	C	953.69	69.5	884.19
EMW-19LC	11/17/2008	C	953.69	65.03	888.66
EMW-19LC	2/16/2009	C	953.69	60.82	892.87
EMW-19LC	5/19/2009	C	953.69	62.75	890.94
EMW-19LC	8/24/2009	C	955.75	69.4	886.35
EMW-19LC	9/21/2009	C	955.75	71.23	884.52
EMW-19LC	10/19/2009	C	955.75	68.4	887.35
EMW-19LC	11/18/2009	C	955.75	66.04	889.71
EMW-19LC	2/1/2010	C	955.75	60.45	895.3
EMW-19LC	5/6/2010	C	955.75	61.63	894.12
EMW-19LC	8/23/2010	C	955.75	68.53	887.22
EMW-19LC	11/29/2010	C	955.75	62	893.75
EMW-19LC	2/3/2011	C	955.75	59.9	895.85
EMW-19LC	5/3/2011	C	955.75	63.37	892.38
EMW-19LC	8/1/2011	C	955.75	80.83	874.92
EMW-19LC	11/1/2011	C	955.75	67.58	888.17
EMW-19LC	2/1/2012	C	955.135	65.01	890.125
EMW-19LC	5/1/2012	C	955.135	65.33	889.805
EMW-19LC	8/2/2012	C	955.135	71.98	883.155
EMW-19LC	2/4/2013	C	955.135	62.75	892.385
EMW-19LC	5/1/2013	C	955.135	66.43	888.705
EMW-19LC	8/6/2013	C	955.75	75.47	880.28
EMW-19LC	11/4/2013	C	955.75	70.13	885.62
EMW-19UC	4/30/1987	C	953.72	55.65	898.07
EMW-19UC	5/29/1987	C	953.72	51.99	901.73
EMW-19UC	8/3/1987	C	953.72	59.32	894.4
EMW-19UC	9/2/1987	C	953.72	59.14	894.58
EMW-19UC	10/5/1987	C	953.72	53.7	900.02
EMW-19UC	10/22/1987	C	953.72	52.1	901.62
EMW-19UC	12/10/1987	C	953.72	49.71	904.01
EMW-19UC	1/7/1988	C	953.72	50.94	902.78
EMW-19UC	2/15/1988	C	953.72	48.54	905.18
EMW-19UC	3/9/1988	C	953.72	48.46	905.26
EMW-19UC	4/14/1988	C	953.72	54.85	898.87
EMW-19UC	5/18/1988	C	953.72	55.79	897.93
EMW-19UC	6/29/1988	C	953.72	62.12	891.6
EMW-19UC	8/9/1988	C	953.72	64.5	889.22
EMW-19UC	9/16/1988	C	953.72	57.05	896.67
EMW-19UC	11/21/1988	C	953.72	50.67	903.05
EMW-19UC	1/19/1989	C	953.72	49.21	904.51
EMW-19UC	2/14/1989	C	953.72	49.35	904.37
EMW-19UC	3/14/1989	C	953.72	50.78	902.94
EMW-19UC	9/19/1989	C	953.72	54.76	898.96
EMW-19UC	11/20/1989	C	953.72	53.54	900.18
EMW-19UC	3/12/1990	C	953.72	53.37	900.35
EMW-19UC	12/31/1990	C	953.72	51	902.72
EMW-19UC	7/12/1991	C	953.72	64.25	889.47
EMW-19UC	1/28/1992	C	953.72	51.1	902.62
EMW-19UC	7/2/1992	C	953.72	58.6	895.12
EMW-19UC	8/25/1992	C	953.72	54.35	899.37
EMW-19UC	12/21/1992	C	953.72	48.8	904.92
EMW-19UC	6/28/1993	C	953.72	50.5	903.22

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-19UC	2/19/1994	C	953.72	47	906.72
EMW-19UC	7/6/1994	C	953.72	61.1	892.62
EMW-19UC	1/19/1995	C	953.72	48.6	905.12
EMW-19UC	10/31/1995	C	953.72	51.12	902.6
EMW-19UC	11/29/1995	C	953.72	49.88	903.84
EMW-19UC	12/30/1995	C	953.72	49.75	903.97
EMW-19UC	1/31/1996	C	953.72	49.26	904.46
EMW-19UC	2/20/1996	C	953.72	49.38	904.34
EMW-19UC	3/30/1996	C	953.72	53.16	900.56
EMW-19UC	4/29/1996	C	953.72	54.2	899.52
EMW-19UC	5/31/1996	C	953.72	54.3	899.42
EMW-19UC	6/28/1996	C	953.72	62.5	891.22
EMW-19UC	7/31/1996	C	953.72	64.63	889.09
EMW-19UC	8/30/1996	C	953.72	63.96	889.76
EMW-19UC	9/28/1996	C	953.72	54.85	898.87
EMW-19UC	10/30/1996	C	953.72	53.46	900.26
EMW-19UC	1/16/1997	C	953.72	51.53	902.19
EMW-19UC	4/30/1997	C	953.72	57.53	896.19
EMW-19UC	7/29/1997	C	953.72	67.96	885.76
EMW-19UC	10/24/1997	C	953.72	56.3	897.42
EMW-19UC	1/30/1998	C	953.72	54.8	891.04
EMW-19UC	5/8/1998	C	953.72	55.05	898.67
EMW-19UC	7/30/1998	C	953.72	58.05	895.67
EMW-19UC	10/29/1998	C	953.72	52.55	901.17
EMW-19UC	1/29/1999	C	953.72	52.15	901.57
EMW-19UC	4/29/1999	C	953.72	56.3	897.42
EMW-19UC	8/5/1999	C	953.72	65.35	888.37
EMW-19UC	10/12/1999	C	953.72	57.05	896.67
EMW-19UC	2/10/2000	C	953.72	53.8	899.92
EMW-19UC	5/4/2000	C	953.72	56.4	897.32
EMW-19UC	8/3/2000	C	953.72	65	888.72
EMW-19UC	10/25/2000	C	953.72	57.6	896.12
EMW-19UC	2/1/2001	C	953.72	52.95	900.77
EMW-19UC	5/25/2001	C	953.72	55.7	898.02
EMW-19UC	8/1/2001	C	953.72	64.05	889.67
EMW-19UC	10/31/2001	C	953.72	57.9	895.82
EMW-19UC	2/1/2002	C	953.72	54.6	899.12
EMW-19UC	5/14/2002	C	953.72	58.7	895.02
EMW-19UC	8/1/2002	C	953.72	70	883.72
EMW-19UC	11/1/2002	C	953.72	61.3	892.42
EMW-19UC	1/31/2003	C	953.72	57.7	896.02
EMW-19UC	5/1/2003	C	953.72	59	894.72
EMW-19UC	8/8/2003	C	953.72	66.15	887.57
EMW-19UC	10/30/2003	C	953.72	61.95	891.77
EMW-19UC	1/29/2004	C	953.72	58.1	895.62
EMW-19UC	4/30/2004	C	953.72	59.35	894.37
EMW-19UC	7/30/2004	C	953.72	72.1	881.62
EMW-19UC	11/2/2004	C	953.72	63.8	889.92
EMW-19UC	1/28/2005	C	953.72	58.2	895.52
EMW-19UC	5/6/2005	C	953.72	58	895.72
EMW-19UC	7/27/2005	C	953.72	66.1	887.62
EMW-19UC	10/28/2005	C	953.72	60.1	893.62
EMW-19UC	1/27/2006	C	953.72	57.15	896.57

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-19UC	5/4/2006	C	953.72	60.85	892.87
EMW-19UC	7/27/2006	C	953.72	67.65	886.07
EMW-19UC	10/31/2006	C	953.72	61.9	891.82
EMW-19UC	1/31/2007	C	953.72	58.9	894.82
EMW-19UC	5/1/2007	C	953.72	62.1	891.62
EMW-19UC	8/1/2007	C	953.72	70.15	883.57
EMW-19UC	10/10/2007	C	953.72	68.9	884.82
EMW-20B1	12/31/1990	B	961.11	58.15	902.96
EMW-20B1	7/12/1991	B	961.11	74.6	886.51
EMW-20B1	1/28/1992	B	961.11	58.75	902.36
EMW-20B1	8/25/1992	B	961.11	62.1	899.01
EMW-20B1	12/22/1992	B	961.11	56.5	904.61
EMW-20B1	7/1/1993	B	961.11	60.1	901.01
EMW-20B1	3/11/1994	B	961.11	56.4	904.71
EMW-20B1	7/14/1994	B	961.11	72.6	888.51
EMW-20B1	1/27/1995	B	961.11	55.8	905.31
EMW-20B1	10/31/1995	B	961.11	58.41	902.7
EMW-20B1	11/29/1995	B	961.11	57.3	903.81
EMW-20B1	12/30/1995	B	961.11	57.17	903.94
EMW-20B1	1/31/1996	B	961.11	56.64	904.47
EMW-20B1	2/20/1996	B	961.11	56.75	904.36
EMW-20B1	3/30/1996	B	961.11	61.06	900.05
EMW-20B1	4/29/1996	B	961.11	62.49	898.62
EMW-20B1	5/31/1996	B	961.11	62.25	898.86
EMW-20B1	6/28/1996	B	961.11	71.28	889.83
EMW-20B1	7/31/1996	B	961.11	74.25	886.86
EMW-20B1	8/30/1996	B	961.11	72.58	888.53
EMW-20B1	9/28/1996	B	961.11	62.4	898.71
EMW-20B1	10/30/1996	B	961.11	60.87	900.24
EMW-20B1	1/15/1997	B	961.11	58.85	902.26
EMW-20B1	4/29/1997	B	961.11	67.52	893.59
EMW-20B1	7/29/1997	B	961.11	77.51	883.6
EMW-20B1	10/23/1997	B	961.11	64.87	896.24
EMW-20B1	1/30/1998	B	961.11	62.68	900.01
EMW-20B2	8/3/1987	B	961.7	56.41	905.29
EMW-20B2	9/2/1987	B	961.7	57.98	903.72
EMW-20B2	10/6/1987	B	961.7	56.24	905.46
EMW-20B2	10/23/1987	B	961.7	55.91	905.79
EMW-20B2	1/9/1988	B	961.7	55.62	906.08
EMW-20B2	2/15/1988	B	961.7	54.91	906.79
EMW-20B2	3/9/1988	B	961.7	54.74	906.96
EMW-20B2	4/14/1988	B	961.7	59.92	901.78
EMW-20B2	5/19/1988	B	961.7	57.56	904.14
EMW-20B2	6/28/1988	B	961.7	61.52	900.18
EMW-20B2	8/8/1988	B	961.7	61.52	900.18
EMW-20B2	9/14/1988	B	961.7	58.69	903.01
EMW-20B2	11/21/1988	B	961.7	56.24	905.46
EMW-20B2	1/19/1989	B	961.7	55.19	906.51
EMW-20B2	2/14/1989	B	961.7	55.29	906.41
EMW-20B2	3/14/1989	B	961.7	55.69	906.01
EMW-20B2	9/19/1989	B	961.7	57.81	903.89
EMW-20B2	11/20/1989	B	961.7	48.42	913.28
EMW-20B2	3/12/1990	B	961.7	58.36	903.34

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-20B2	1/2/1991	B	961.7	58.2	903.5
EMW-20B2	7/13/1991	B	961.7	64.1	897.6
EMW-20B2	1/27/1992	B	961.7	59.4	902.3
EMW-20B2	7/1/1992	B	961.7	61.6	900.1
EMW-20B2	8/25/1992	B	961.7	60.15	901.55
EMW-20B2	12/22/1992	B	961.7	57.6	904.1
EMW-20B2	6/29/1993	B	961.7	56	905.7
EMW-20B2	2/18/1994	B	961.7	54.1	907.6
EMW-20B2	6/30/1994	B	961.7	60.4	901.3
EMW-20B2	1/20/1995	B	961.7	56.4	905.3
EMW-20B2	10/31/1995	B	961.7	57.66	904.04
EMW-20B2	11/29/1995	B	961.7	57.12	904.58
EMW-20B2	12/30/1995	B	961.7	57.08	904.62
EMW-20B2	1/31/1996	B	961.7	56.55	905.15
EMW-20B2	2/20/1996	B	961.7	56.75	904.95
EMW-20B2	3/30/1996	B	961.7	58	903.7
EMW-20B2	4/29/1996	B	961.7	59.05	902.65
EMW-20B2	5/31/1996	B	961.7	59.07	902.63
EMW-20B2	6/28/1996	B	961.7	62.75	898.95
EMW-20B2	7/31/1996	B	961.7	64.45	897.25
EMW-20B2	8/30/1996	B	961.7	64.1	897.6
EMW-20B2	9/28/1996	B	961.7	60.2	901.5
EMW-20B2	10/30/1996	B	961.7	59.72	901.98
EMW-20B2	1/15/1997	B	961.7	57.6	904.1
EMW-20B2	4/29/1997	B	961.7	61.55	900.15
EMW-20B2	7/29/1997	B	961.7	67.98	893.72
EMW-20B2	10/23/1997	B	961.7	62.15	899.55
EMW-20B2	1/30/1998	B	961.7	61.1	897.85
EMW-20LC	5/29/1987	C	961.75	57	904.75
EMW-20LC	8/3/1987	C	961.75	70.35	891.4
EMW-20LC	9/2/1987	C	961.75	68.55	893.2
EMW-20LC	10/6/1987	C	961.75	63	898.75
EMW-20LC	10/23/1987	C	961.75	60.58	901.17
EMW-20LC	12/10/1987	C	961.75	58.38	903.37
EMW-20LC	1/7/1988	C	961.75	59	902.75
EMW-20LC	2/15/1988	C	961.75	57.08	904.67
EMW-20LC	3/9/1988	C	961.75	56.59	905.16
EMW-20LC	4/14/1988	C	961.75	63.19	898.56
EMW-20LC	5/19/1988	C	961.75	65.32	896.43
EMW-20LC	11/21/1988	C	961.75	59.4	902.35
EMW-20LC	1/19/1989	C	961.75	57.5	904.25
EMW-20LC	2/14/1989	C	961.75	57.6	904.15
EMW-20LC	3/14/1989	C	961.75	59.05	902.7
EMW-20LC	9/19/1989	C	961.75	65.29	896.46
EMW-20LC	11/21/1989	C	961.75	62.66	899.09
EMW-20LC	3/12/1990	C	961.75	62.85	898.9
EMW-20LC	7/12/1991	C	961.75	75.4	886.35
EMW-20LC	1/27/1992	C	961.75	59.85	901.9
EMW-20LC	7/1/1992	C	961.75	69.9	891.85
EMW-20LC	8/25/1992	C	961.75	63	898.75
EMW-20LC	12/20/1992	C	961.75	53.7	908.05
EMW-20LC	6/29/1993	C	961.75	53.7	908.05
EMW-20LC	2/18/1994	C	961.75	54.7	907.05

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-20LC	7/1/1994	C	961.75	69.5	892.25
EMW-20LC	10/25/1994	C	961.75	60.68	901.07
EMW-20LC	10/27/1994	C	961.75	60.35	901.4
EMW-20LC	11/1/1994	C	961.75	60.09	901.66
EMW-20LC	11/4/1994	C	961.75	60.03	901.72
EMW-20LC	11/8/1994	C	961.75	59.8	901.95
EMW-20LC	11/11/1994	C	961.75	59.91	901.84
EMW-20LC	11/15/1994	C	961.75	59.73	902.02
EMW-20LC	11/18/1994	C	961.75	59.64	902.11
EMW-20LC	11/21/1994	C	961.75	59.73	902.02
EMW-20LC	11/23/1994	C	961.75	59.52	902.23
EMW-20LC	11/29/1994	C	961.75	59.48	902.27
EMW-20LC	12/2/1994	C	961.75	53.95	907.8
EMW-20LC	12/9/1994	C	961.75	53.8	907.95
EMW-20LC	12/13/1994	C	961.75	53.88	907.87
EMW-20LC	12/20/1994	C	961.75	53.71	908.04
EMW-20LC	12/27/1994	C	961.75	53.68	908.07
EMW-20LC	1/17/1995	C	961.75	53.9	907.85
EMW-20LC	1/17/1995	C	961.75	56.9	904.85
EMW-20LC	2/8/1995	C	961.75	57.11	904.64
EMW-20LC	2/22/1995	C	961.75	79.15	882.6
EMW-20LC	2/22/1995	C	961.75	57.43	904.32
EMW-20LC	3/2/1995	C	961.75	56.32	905.43
EMW-20LC	3/10/1995	C	961.75	56.25	905.5
EMW-20LC	3/15/1995	C	961.75	55.89	905.86
EMW-20LC	10/31/1995	C	961.75	59.43	902.32
EMW-20LC	11/29/1995	C	961.75	58.31	903.44
EMW-20LC	12/30/1995	C	961.75	58.21	903.54
EMW-20LC	1/31/1996	C	961.75	57.65	904.1
EMW-20LC	2/20/1996	C	961.75	57.8	903.95
EMW-20LC	3/30/1996	C	961.75	62.4	899.35
EMW-20LC	4/29/1996	C	961.75	63.75	898
EMW-20LC	5/31/1996	C	961.75	63.55	898.2
EMW-20LC	6/28/1996	C	961.75	72.85	888.9
EMW-20LC	7/31/1996	C	961.75	75.91	885.84
EMW-20LC	8/30/1996	C	961.75	74.14	887.61
EMW-20LC	9/30/1996	C	961.75	63.28	898.47
EMW-20LC	10/30/1996	C	961.75	62	899.75
EMW-20LC	1/15/1997	C	961.75	59.9	901.85
EMW-20LC	4/29/1997	C	961.75	68.93	892.82
EMW-20LC	7/29/1997	C	961.75	79.18	882.57
EMW-20LC	10/23/1997	C	961.75	66.1	895.65
EMW-20LC	1/30/1998	C	961.75	63.85	897.88
EMW-20LC	5/8/1998	C	961.75	64.85	896.9
EMW-20LC	7/29/1998	C	961.75	67.4	894.35
EMW-20LC	10/29/1998	C	961.75	61.05	900.7
EMW-20LC	1/28/1999	C	961.75	60.53	901.22
EMW-20LC	4/28/1999	C	961.75	66.6	895.15
EMW-20LC	8/5/1999	C	961.75	76.2	885.55
EMW-20LC	10/12/1999	C	961.75	66.25	895.5
EMW-20LC	2/9/2000	C	961.75	62.95	898.8
EMW-20LC	5/2/2000	C	961.75	64.8	896.95
EMW-20LC	8/3/2000	C	961.75	76.2	885.55

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-20LC	10/25/2000	C	961.75	66	895.75
EMW-20LC	1/31/2001	C	961.75	61.65	900.1
EMW-20LC	5/24/2001	C	961.75	63.8	897.95
EMW-20LC	8/1/2001	C	961.75	74.6	887.15
EMW-20LC	10/30/2001	C	961.75	66.8	894.95
EMW-20LC	1/31/2002	C	961.75	63.7	898.05
EMW-20LC	5/14/2002	C	961.75	67.9	893.85
EMW-20LC	7/31/2002	C	961.75	82.27	879.48
EMW-20LC	10/31/2002	C	961.75	69.95	891.8
EMW-20LC	1/31/2003	C	961.75	66.6	895.15
EMW-20LC	4/30/2003	C	961.75	69	892.75
EMW-20LC	8/8/2003	C	961.75	76.5	885.25
EMW-20LC	10/29/2003	C	961.75	71.95	889.8
EMW-20LC	1/29/2004	C	961.75	66.77	894.98
EMW-20LC	1/28/2005	C	961.75	68	893.75
EMW-20LC	7/26/2005	C	961.75	77.75	884
EMW-20LC	10/27/2005	C	961.75	70	891.75
EMW-20LC	1/27/2006	C	961.75	67.4	894.35
EMW-20LC	5/4/2006	C	961.75	71	890.75
EMW-20LC	7/26/2006	C	961.75	77	884.75
EMW-20LC	10/31/2006	C	961.75	72	889.75
EMW-20LC	1/30/2007	C	961.75	70.3	891.45
EMW-20LC	5/2/2007	C	961.75	71.5	890.25
EMW-20LC	8/1/2007	C	961.75	80.75	881
EMW-20LC	10/9/2007	C	961.75	62.19	899.56
EMW-20LC	8/23/2010	C	963.81	49.9	913.91
EMW-20LC	11/29/2010	C	963.81	49.9	913.91
EMW-20LC	2/3/2011	C	963.81	69.1	894.71
EMW-20LC	8/1/2011	C	963.81	79.02	884.79
EMW-20LC	11/1/2011	C	963.81	75.62	888.19
EMW-20LC	2/1/2012	C	961.28	72.84	888.44
EMW-20LC	5/1/2012	C	961.28	73.21	888.07
EMW-20LC	8/1/2012	C	961.28	80.42	880.86
EMW-20LC	11/1/2012	C	961.28	75.52	885.76
EMW-20LC	2/4/2013	C	961.28	70.23	891.05
EMW-20LC	5/1/2013	C	961.28	74.43	886.85
EMW-20LC	8/5/2013	C	963.81	83.81	880
EMW-20LC	11/4/2013	C	963.81	77.77	886.04
EMW-20UC	4/30/1987	C	961.7	62.28	899.42
EMW-20UC	5/29/1987	C	961.7	61.2	900.5
EMW-20UC	8/3/1987	C	961.7	69.98	891.72
EMW-20UC	9/2/1987	C	961.7	68.53	893.17
EMW-20UC	10/6/1987	C	961.7	63	898.7
EMW-20UC	10/23/1987	C	961.7	67.2	894.5
EMW-20UC	12/10/1987	C	961.7	58.28	903.42
EMW-20UC	1/7/1988	C	961.7	58.85	902.85
EMW-20UC	2/15/1988	C	961.7	57	904.7
EMW-20UC	3/9/1988	C	961.7	56.51	905.19
EMW-20UC	4/14/1988	C	961.7	63.34	898.36
EMW-20UC	5/19/1988	C	961.7	65.79	895.91
EMW-20UC	6/28/1988	C	961.7	72.32	889.38
EMW-20UC	8/8/1988	C	961.7	74.98	886.72
EMW-20UC	9/14/1988	C	961.7	64.95	896.75

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-20UC	11/21/1988	C	961.7	59.37	902.33
EMW-20UC	1/19/1989	C	961.7	57.52	904.18
EMW-20UC	2/14/1989	C	961.7	57.6	904.1
EMW-20UC	3/14/1989	C	961.7	59	902.7
EMW-20UC	9/19/1989	C	961.7	65.13	896.57
EMW-20UC	11/20/1989	C	961.7	62.78	898.92
EMW-20UC	3/12/1990	C	961.7	62.6	899.1
EMW-20UC	1/2/1991	C	961.7	59.2	902.5
EMW-20UC	7/12/1991	C	961.7	75.2	886.5
EMW-20UC	1/28/1992	C	961.7	59.7	902
EMW-20UC	7/1/1992	C	961.7	69.9	891.8
EMW-20UC	8/25/1992	C	961.7	63.8	897.9
EMW-20UC	12/20/1992	C	961.7	57.1	904.6
EMW-20UC	6/18/1993	C	961.7	59.2	902.5
EMW-20UC	2/18/1994	C	961.7	54.7	907
EMW-20UC	6/30/1994	C	961.7	70.5	891.2
EMW-20UC	10/25/1994	C	961.7	60.86	900.84
EMW-20UC	10/27/1994	C	961.7	61.66	900.04
EMW-20UC	11/1/1994	C	961.7	60	901.7
EMW-20UC	11/4/1994	C	961.7	60	901.7
EMW-20UC	11/8/1994	C	961.7	59.9	901.8
EMW-20UC	11/11/1994	C	961.7	59.85	901.85
EMW-20UC	11/15/1994	C	961.7	59.93	901.77
EMW-20UC	11/18/1994	C	961.7	59.44	902.26
EMW-20UC	11/21/1994	C	961.7	59.6	902.1
EMW-20UC	11/23/1994	C	961.7	59.43	902.27
EMW-20UC	11/29/1994	C	961.7	59.4	902.3
EMW-20UC	12/2/1994	C	961.7	61.2	900.5
EMW-20UC	12/9/1994	C	961.7	59.08	902.62
EMW-20UC	12/13/1994	C	961.7	59.98	901.72
EMW-20UC	12/20/1994	C	961.7	58.52	903.18
EMW-20UC	12/27/1994	C	961.7	58.14	903.56
EMW-20UC	1/3/1995	C	961.7	58.02	903.68
EMW-20UC	1/10/1995	C	961.7	57.37	904.33
EMW-20UC	1/17/1995	C	961.7	56.9	904.8
EMW-20UC	1/24/1995	C	961.7	56.9	904.8
EMW-20UC	1/27/1995	C	961.7	56.9	904.8
EMW-20UC	1/31/1995	C	961.7	56.27	905.43
EMW-20UC	2/13/1995	C	961.7	56.92	904.78
EMW-20UC	2/22/1995	C	961.7	57.44	904.26
EMW-20UC	3/2/1995	C	961.7	56.35	905.35
EMW-20UC	3/10/1995	C	961.7	56.25	905.45
EMW-20UC	3/15/1995	C	961.7	55.9	905.8
EMW-20UC	4/5/1995	C	961.7	60.92	900.78
EMW-20UC	4/14/1995	C	961.7	62.95	898.75
EMW-20UC	4/18/1995	C	961.7	59.21	902.49
EMW-20UC	4/25/1995	C	961.7	59.11	902.59
EMW-20UC	5/3/1995	C	961.7	59.15	902.55
EMW-20UC	5/16/1995	C	961.7	57.81	903.89
EMW-20UC	5/25/1995	C	961.7	58.69	903.01
EMW-20UC	6/2/1995	C	961.7	62.13	899.57
EMW-20UC	6/6/1995	C	961.7	62	899.7
EMW-20UC	6/15/1995	C	961.7	66.77	894.93

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-20UC	6/22/1995	C	961.7	65.75	895.95
EMW-20UC	6/28/1995	C	961.7	69.37	892.33
EMW-20UC	7/7/1995	C	961.7	69.48	892.22
EMW-20UC	7/21/1995	C	961.7	73	888.7
EMW-20UC	7/28/1995	C	961.7	75.8	885.9
EMW-20UC	8/2/1995	C	961.7	73.85	887.85
EMW-20UC	8/10/1995	C	961.7	75.21	886.49
EMW-20UC	8/15/1995	C	961.7	72.61	889.09
EMW-20UC	8/23/1995	C	961.7	66.33	895.37
EMW-20UC	8/31/1995	C	961.7	68.67	893.03
EMW-20UC	9/6/1995	C	961.7	64.56	897.14
EMW-20UC	9/13/1995	C	961.7	62.24	899.46
EMW-20UC	9/22/1995	C	961.7	62.72	898.98
EMW-20UC	9/28/1995	C	961.7	60.71	900.99
EMW-20UC	10/6/1995	C	961.7	60.13	901.57
EMW-20UC	10/31/1995	C	961.7	59.47	902.23
EMW-20UC	11/29/1995	C	961.7	58.32	903.38
EMW-20UC	12/30/1995	C	961.7	58.17	903.53
EMW-20UC	1/31/1996	C	961.7	57.61	904.09
EMW-20UC	2/20/1996	C	961.7	57.75	903.95
EMW-20UC	3/30/1996	C	961.7	62.27	899.43
EMW-20UC	4/29/1996	C	961.7	63.7	898
EMW-20UC	5/31/1996	C	961.7	63.5	898.2
EMW-20UC	6/28/1996	C	961.7	72.89	888.81
EMW-20UC	7/31/1996	C	961.7	75.82	885.88
EMW-20UC	8/30/1996	C	961.7	74.15	887.55
EMW-20UC	9/28/1996	C	961.7	63.62	898.08
EMW-20UC	10/30/1996	C	961.7	61.97	899.73
EMW-20UC	1/15/1997	C	961.7	59.95	901.75
EMW-20UC	4/29/1997	C	961.7	68.96	892.74
EMW-20UC	7/29/1997	C	961.7	79.2	882.5
EMW-20UC	10/23/1997	C	961.7	66.17	895.53
EMW-20UC	1/30/1998	C	961.7	63.87	891.67
EMW-21UC	4/30/1987	C	968.95	69.18	899.77
EMW-21UC	5/29/1987	C	968.95	67.96	900.99
EMW-21UC	8/3/1987	C	968.95	77.07	891.88
EMW-21UC	9/2/1987	C	968.95	75.12	893.83
EMW-21UC	10/7/1987	C	968.95	68	900.95
EMW-21UC	10/23/1987	C	968.95	60.63	908.32
EMW-21UC	12/10/1987	C	968.95	59.56	909.39
EMW-21UC	1/7/1988	C	968.95	65.33	903.62
EMW-21UC	2/15/1988	C	968.95	63.76	905.19
EMW-21UC	3/9/1988	C	968.95	62.72	906.23
EMW-21UC	4/14/1988	C	968.95	69.71	899.24
EMW-21UC	5/19/1988	C	968.95	72.36	896.59
EMW-21UC	6/28/1988	C	968.95	79.6	889.35
EMW-21UC	8/8/1988	C	968.95	81.82	887.13
EMW-21UC	9/14/1988	C	968.95	72.27	896.68
EMW-21UC	11/21/1988	C	968.95	65.69	903.26
EMW-21UC	1/19/1989	C	968.95	63.9	905.05
EMW-21UC	2/14/1989	C	968.95	63.95	905
EMW-21UC	3/14/1989	C	968.95	65.67	903.28
EMW-21UC	9/19/1989	C	968.95	72.5	896.45

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-21UC	11/20/1989	C	968.95	69.66	899.29
EMW-21UC	3/12/1990	C	968.95	69.48	899.47
EMW-21UC	1/3/1991	C	968.95	66	902.95
EMW-21UC	7/12/1991	C	968.95	81.4	887.55
EMW-21UC	1/28/1992	C	968.95	66.2	902.75
EMW-21UC	7/1/1992	C	968.95	76.5	892.45
EMW-21UC	8/25/1992	C	968.95	70.15	898.8
EMW-21UC	12/22/1992	C	968.95	63.2	905.75
EMW-21UC	6/16/1993	C	968.95	64.6	904.35
EMW-21UC	2/17/1994	C	968.95	60.3	908.65
EMW-21UC	7/1/1994	C	968.95	76.1	892.85
EMW-21UC	1/25/1995	C	968.95	62.7	906.25
EMW-21UC	10/31/1995	C	968.95	65.47	903.48
EMW-21UC	11/29/1995	C	968.95	64.2	904.75
EMW-21UC	12/30/1995	C	968.95	64.2	904.75
EMW-21UC	1/31/1996	C	968.95	63.68	905.27
EMW-21UC	2/20/1996	C	968.95	63.87	905.08
EMW-21UC	3/30/1996	C	968.95	68.88	900.07
EMW-21UC	4/29/1996	C	968.95	70.45	898.5
EMW-21UC	5/31/1996	C	968.95	70.45	898.5
EMW-21UC	6/28/1996	C	968.95	79.17	889.78
EMW-21UC	7/31/1996	C	968.95	82.45	886.5
EMW-21UC	8/30/1996	C	968.95	81.21	887.74
EMW-21UC	9/28/1996	C	968.95	69.85	899.1
EMW-21UC	10/30/1996	C	968.95	68.1	900.85
EMW-21UC	1/15/1997	C	968.95	66.2	902.75
EMW-21UC	4/29/1997	C	968.95	76.08	892.87
EMW-21UC	7/29/1997	C	968.95	85.77	883.18
EMW-21UC	10/23/1997	C	968.95	72.45	896.5
EMW-21UC	1/30/1998	C	968.95	70.03	913.95
EMW-21UC	5/8/1998	C	968.95	71.35	897.6
EMW-21UC	7/29/1998	C	968.95	74.25	894.7
EMW-21UC	10/29/1998	C	968.95	67.3	901.65
EMW-21UC	1/28/1999	C	968.95	66.6	902.35
EMW-21UC	4/28/1999	C	968.95	73.6	895.35
EMW-21UC	8/5/1999	C	968.95	82.85	886.1
EMW-21UC	10/12/1999	C	968.95	72.57	896.38
EMW-21UC	2/9/2000	C	968.95	69.47	899.48
EMW-21UC	5/2/2000	C	968.95	71.8	897.15
EMW-21UC	8/3/2000	C	968.95	82.95	886
EMW-21UC	10/25/2000	C	968.95	72	896.95
EMW-21UC	1/31/2001	C	968.95	67.9	901.05
EMW-21UC	5/24/2001	C	968.95	70.97	897.98
EMW-21UC	8/1/2001	C	968.95	81.1	887.85
EMW-21UC	10/30/2001	C	968.95	72.9	896.05
EMW-21UC	1/31/2002	C	968.95	69.75	899.2
EMW-21UC	5/14/2002	C	968.95	74.7	894.25
EMW-21UC	7/31/2002	C	968.95	88.55	880.4
EMW-21UC	10/31/2002	C	968.95	76.47	892.48
EMW-21UC	1/31/2003	C	968.95	73.35	895.6
EMW-21UC	4/30/2003	C	968.95	75.65	893.3
EMW-21UC	8/8/2003	C	968.95	83	885.95
EMW-21UC	10/29/2003	C	968.95	78.3	890.65

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-21UC	1/29/2004	C	968.95	73.15	895.8
EMW-21UC	4/29/2004	C	968.95	77	891.95
EMW-21UC	7/30/2004	C	968.95	90.3	878.65
EMW-21UC	11/2/2004	C	968.95	80.7	888.25
EMW-21UC	1/28/2005	C	968.95	75.2	893.75
EMW-21UC	5/6/2005	C	968.95	76.05	892.9
EMW-21UC	7/26/2005	C	968.95	85.3	883.65
EMW-21UC	10/27/2005	C	968.95	77	891.95
EMW-21UC	1/27/2006	C	968.95	75.1	893.85
EMW-21UC	5/4/2006	C	968.95	79	889.95
EMW-21UC	7/26/2006	C	968.95	85	883.95
EMW-21UC	10/31/2006	C	968.95	79.6	889.35
EMW-21UC	1/30/2007	C	968.95	77.8	891.15
EMW-21UC	5/2/2007	C	968.95	79.9	889.05
EMW-21UC	8/1/2007	C	968.95	88.9	880.05
EMW-21UC	10/9/2007	C	968.95	86	882.95
EMW-21UC	4/14/2008	C	968.95	81.18	887.77
EMW-21UC	8/1/2008	C	968.95	89.09	879.86
EMW-21UC	2/16/2009	C	968.95	78.5	890.45
EMW-21UC	5/4/2010	C	971.01	80.32	890.69
EMW-21UC	8/23/2010	C	971.01	87.08	883.93
EMW-21UC	11/29/2010	C	971.01	64	907.01
EMW-21UC	2/3/2011	C	971.01	77.29	893.72
EMW-21UC	5/2/2011	C	971.01	82	889.01
EMW-21UC	8/1/2011	C	971.01	86.57	884.44
EMW-21UC	11/1/2011	C	971.01	83.33	887.68
EMW-21UC	12/2/2011	C	968.59	79.84	888.75
EMW-21UC	2/1/2012	C	968.59	80.92	887.67
EMW-21UC	3/2/2012	C	968.59	77.76	890.83
EMW-21UC	4/2/2012	C	968.59	80.65	887.94
EMW-21UC	5/1/2012	C	968.59	81.11	887.48
EMW-21UC	6/1/2012	C	968.59	81.94	886.65
EMW-21UC	7/2/2012	C	968.59	87.51	881.08
EMW-21UC	8/1/2012	C	968.59	88.38	880.21
EMW-21UC	9/4/2012	C	968.59	88.91	879.68
EMW-21UC	10/1/2012	C	968.59	85.94	882.65
EMW-21UC	11/1/2012	C	968.59	82.87	885.72
EMW-21UC	12/3/2012	C	968.59	81.06	887.53
EMW-21UC	2/4/2013	C	968.59	77.68	890.91
EMW-21UC	5/1/2013	C	968.59	82.43	886.16
EMW-21UC	8/5/2013	C	971.01	91.62	879.39
EMW-21UC	11/4/2013	C	971.01	85.31	885.7
EMW-22LC	1/29/1993	C	963.25	49.5	913.75
EMW-22LC	7/27/2005	C	964.37	77.7	886.67
EMW-22LC	1/26/2006	C	964.37	69.1	895.27
EMW-22LC	5/4/2006	C	964.37	73.6	890.77
EMW-22LC	7/25/2006	C	964.37	79.4	884.97
EMW-22LC	10/31/2006	C	964.37	72.9	891.47
EMW-22LC	1/30/2007	C	964.37	71.1	893.27
EMW-22LC	4/30/2007	C	964.37	74.2	890.17
EMW-22LC	7/31/2007	C	964.37	83.2	881.17
EMW-22LC	10/11/2007	C	964.37	77.21	887.16
EMW-22LC	1/10/2008	C	964.37	69.21	895.16

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-22LC	4/14/2008	C	964.37	69.9	894.47
EMW-22LC	8/1/2008	C	964.37	81.31	883.06
EMW-22LC	11/17/2008	C	964.37	73.49	890.88
EMW-22LC	2/17/2009	C	964.37	69.56	894.81
EMW-22LC	5/19/2009	C	964.37	74.05	890.32
EMW-22LC	8/25/2009	C	966.12	81.25	884.87
EMW-22LC	9/21/2009	C	966.12	81.94	884.18
EMW-22LC	10/19/2009	C	966.12	79.79	886.33
EMW-22LC	11/18/2009	C	966.43	74.64	891.79
EMW-22LC	2/1/2010	C	966.12	71.88	894.24
EMW-22LC	5/7/2010	C	966.12	73.48	892.64
EMW-22LC	8/23/2010	C	966.12	86.7	879.42
EMW-22LC	11/29/2010	C	966.12	72.5	893.62
EMW-22LC	2/3/2011	C	966.12	68.23	897.89
EMW-22LC	5/3/2011	C	966.12	77.5	888.62
EMW-22LC	8/1/2011	C	966.12	89.88	876.24
EMW-22LC	11/1/2011	C	966.12	78.02	888.1
EMW-22LC	2/1/2012	C	971.509	76.28	895.229
EMW-22LC	3/2/2012	C	971.509	70.86	900.649
EMW-22LC	4/2/2012	C	971.509	74.49	897.019
EMW-22LC	5/1/2012	C	965.805	72.97	892.835
EMW-22LC	6/1/2012	C	971.509	76.95	894.559
EMW-22LC	7/2/2012	C	965.805	82.95	882.855
EMW-22LC	8/2/2012	C	965.805	83.72	882.085
EMW-22LC	9/4/2012	C	965.805	83.61	882.195
EMW-22LC	10/1/2012	C	965.805	80.85	884.955
EMW-22LC	11/2/2012	C	965.805	75.69	890.115
EMW-22LC	12/3/2012	C	965.805	73.88	891.925
EMW-22LC	2/4/2013	C	965.805	71.94	893.865
EMW-22LC	5/1/2013	C	965.805	76.92	888.885
EMW-22LC	8/6/2013	C	966.12	87.24	878.88
EMW-22LC	11/4/2013	C	966.12	79.62	886.5
EMW-23A	5/29/1987	A	934.83	38.27	896.56
EMW-23A	8/3/1987	A	934.83	42.61	892.22
EMW-23A	8/14/1987	A	934.83	42.84	891.99
EMW-23A	9/2/1987	A	934.83	43.32	891.57
EMW-23A	10/7/1987	A	934.83	42	892.89
EMW-23A	10/23/1987	A	934.83	41.39	893.5
EMW-23A	12/11/1987	A	934.83	38.09	896.8
EMW-23A	1/7/1988	A	934.83	37.5	897.39
EMW-23A	2/15/1988	A	934.83	36.46	898.43
EMW-23A	3/9/1988	A	934.83	36.48	898.41
EMW-23A	4/14/1988	A	934.83	37.45	897.44
EMW-23A	5/20/1988	A	934.83	39.31	895.58
EMW-23A	6/29/1988	A	934.83	41.62	893.27
EMW-23A	7/11/1988	A	934.83	42.94	891.95
EMW-23A	8/8/1988	A	934.83	46.35	888.54
EMW-23A	9/14/1988	A	934.83	45	889.89
EMW-23A	11/21/1988	A	934.83	39.7	895.19
EMW-23A	1/19/1989	A	934.83	37.61	897.28
EMW-23A	2/14/1989	A	934.83	37.55	897.34
EMW-23A	3/14/1989	A	934.83	37.55	897.34
EMW-23A	9/19/1989	A	934.83	43.66	891.23

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-23A	11/20/1989	A	934.83	40.38	894.45
EMW-23A	1/22/1990	A	934.83	36.54	898.29
EMW-23A	1/23/1990	A	934.83	36.62	898.21
EMW-23A	1/24/1990	A	934.83	36.54	898.29
EMW-23A	1/25/1990	A	934.83	36.39	898.44
EMW-23A	1/26/1990	A	934.83	36.44	898.39
EMW-23A	1/29/1990	A	934.83	36.44	898.39
EMW-23A	1/30/1990	A	934.83	36.34	898.49
EMW-23A	1/31/1990	A	934.83	36.34	898.49
EMW-23A	2/1/1990	A	934.83	36.24	898.59
EMW-23A	2/2/1990	A	934.83	36.24	898.59
EMW-23A	2/8/1990	A	934.83	36.1	898.79
EMW-23A	2/16/1990	A	934.83	35.85	899.04
EMW-23A	2/23/1990	A	934.83	36.3	898.59
EMW-23A	3/1/1990	A	934.83	36.5	898.39
EMW-23A	3/9/1990	A	934.83	37.1	897.79
EMW-23A	3/16/1990	A	934.83	36.8	898.09
EMW-23A	3/21/1990	A	934.83	37.2	897.69
EMW-23A	4/4/1990	A	934.83	37.35	897.54
EMW-23A	4/17/1990	A	934.83	36.65	898.24
EMW-23A	5/22/1990	A	934.83	37.75	897.14
EMW-23A	6/19/1990	A	934.83	38.4	896.49
EMW-23A	7/17/1990	A	934.83	40.2	894.69
EMW-23A	8/16/1990	A	934.83	40.4	894.49
EMW-23A	9/22/1990	A	934.83	38	896.89
EMW-23A	10/17/1990	A	934.83	36.9	897.99
EMW-23A	11/24/1990	A	934.83	37.15	897.74
EMW-23A	1/18/1991	A	934.83	35.2	899.69
EMW-23A	2/16/1991	A	934.83	35.2	899.69
EMW-23A	3/16/1991	A	934.83	35.9	898.99
EMW-23A	4/22/1991	A	934.83	36.25	898.64
EMW-23A	5/19/1991	A	934.83	36.5	898.39
EMW-23A	6/19/1991	A	934.83	38.6	896.29
EMW-23A	7/21/1991	A	934.83	41.55	893.34
EMW-23A	8/18/1991	A	934.83	42.85	892.04
EMW-23A	9/23/1991	A	934.83	42.15	892.74
EMW-23A	10/31/1991	A	934.83	43.65	891.24
EMW-23A	11/17/1991	A	934.83	42.95	891.94
EMW-23A	1/18/1992	A	934.83	36.95	897.94
EMW-23A	2/21/1992	A	934.83	35.44	899.39
EMW-23A	3/26/1992	A	934.83	34.5	900.33
EMW-23A	4/23/1992	A	934.83	33.24	901.59
EMW-23A	5/14/1992	A	934.83	33.64	901.19
EMW-23A	6/27/1992	A	934.83	35.9	898.93
EMW-23A	7/31/1992	A	934.83	36.7	898.13
EMW-23A	8/24/1992	A	934.83	37	897.83
EMW-23A	10/7/1992	A	934.83	35.6	899.23
EMW-23A	10/28/1992	A	934.83	35.2	899.63
EMW-23A	11/23/1992	A	934.83	33.7	901.13
EMW-23A	12/17/1992	A	934.83	32.9	901.93
EMW-23A	2/4/1993	A	934.83	31.3	903.53
EMW-23A	3/12/1993	A	934.83	29.9	904.93
EMW-23A	4/15/1993	A	934.83	31	903.83

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-23A	5/18/1993	A	934.83	33.5	901.33
EMW-23A	6/11/1993	A	934.83	32.5	902.33
EMW-23A	6/17/1993	A	934.83	33.2	901.63
EMW-23A	7/13/1993	A	934.83	33.4	901.43
EMW-23A	8/9/1993	A	934.83	33.9	900.93
EMW-23A	9/24/1993	A	934.83	33.4	901.43
EMW-23A	10/28/1993	A	934.83	33.3	901.53
EMW-23A	11/24/1993	A	934.83	32.8	902.03
EMW-23A	12/14/1993	A	934.83	32.6	902.23
EMW-23A	1/10/1994	A	934.83	32.2	902.63
EMW-23A	1/26/1994	A	934.83	31.9	902.93
EMW-23A	2/25/1994	A	934.83	32.3	902.53
EMW-23A	3/21/1994	A	934.83	32.7	902.13
EMW-23A	4/27/1994	A	934.83	33.4	901.43
EMW-23A	5/25/1994	A	934.83	34.3	900.53
EMW-23A	6/2/1994	A	934.83	33.8	901.03
EMW-23A	7/21/1994	A	934.83	37.4	897.43
EMW-23A	8/25/1994	A	934.83	39.1	895.73
EMW-23A	9/22/1994	A	934.83	39	895.83
EMW-23A	10/12/1994	A	934.83	38.1	896.73
EMW-23A	11/18/1994	A	934.83	36.1	898.73
EMW-23A	12/30/1994	A	934.83	33.9	900.93
EMW-23A	1/30/1995	A	934.83	32.9	901.93
EMW-23A	2/23/1995	A	934.83	32.6	902.23
EMW-23A	3/30/1995	A	934.83	33.1	901.73
EMW-23A	4/21/1995	A	934.83	33.7	901.13
EMW-23A	5/26/1995	A	934.83	33.3	901.53
EMW-23A	6/23/1995	A	934.83	33.87	900.96
EMW-23A	7/27/1995	A	934.83	36.48	898.35
EMW-23A	8/30/1995	A	934.83	37.3	897.53
EMW-23A	9/29/1995	A	934.83	36.95	897.88
EMW-23A	10/27/1995	A	934.83	35.72	899.11
EMW-23A	11/29/1995	A	934.83	34.2	900.63
EMW-23A	12/30/1995	A	934.83	33.82	901.01
EMW-24A	5/29/1987	A	942.82	41.65	901.24
EMW-24A	8/3/1987	A	942.82	43.43	899.46
EMW-24A	8/14/1987	A	942.82	43	899.89
EMW-24A	9/2/1987	A	942.82	43.51	899.38
EMW-24A	10/7/1987	A	942.82	44	898.89
EMW-24A	10/23/1987	A	942.82	43.68	899.21
EMW-24A	12/11/1987	A	942.82	42.18	900.71
EMW-24A	1/7/1988	A	942.82	41.99	900.9
EMW-24A	2/15/1988	A	942.82	41.41	901.48
EMW-24A	3/9/1988	A	942.82	41.37	901.52
EMW-24A	4/14/1988	A	942.82	41.88	901.01
EMW-24A	5/19/1988	A	942.82	42.92	899.97
EMW-24A	6/29/1988	A	942.82	44.72	898.17
EMW-24A	7/11/1988	A	942.82	45.58	897.31
EMW-24A	8/8/1988	A	942.82	47.37	895.52
EMW-24A	9/14/1988	A	942.82	47.27	895.62
EMW-24A	11/21/1988	A	942.82	44.23	898.66
EMW-24A	1/19/1989	A	942.82	42.77	900.12
EMW-24A	2/14/1989	A	942.82	42.65	900.24

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-24A	3/14/1989	A	942.82	42.75	900.14
EMW-24A	4/19/1989	A	942.82	43.73	899.16
EMW-24A	5/11/1989	A	942.82	44.3	898.59
EMW-24A	6/1/1989	A	942.82	44.53	898.36
EMW-24A	7/25/1989	A	942.82	45.52	897.37
EMW-24A	8/24/1989	A	942.82	46.23	896.66
EMW-24A	8/24/1989	A	942.82	46.23	896.66
EMW-24A	9/19/1989	A	942.82	46.47	896.42
EMW-24A	10/19/1989	A	942.82	46.01	896.88
EMW-24A	11/20/1989	A	942.82	45.32	897.57
EMW-24A	12/11/1989	A	942.82	44.73	898.16
EMW-24A	1/22/1990	A	942.82	42.6	900.29
EMW-24A	1/23/1990	A	942.82	42.58	900.31
EMW-24A	1/24/1990	A	942.82	42.55	900.34
EMW-24A	1/25/1990	A	942.82	42.5	900.39
EMW-24A	1/26/1990	A	942.82	42.55	900.34
EMW-24A	1/29/1990	A	942.82	42.5	900.39
EMW-24A	1/30/1990	A	942.82	42.4	900.49
EMW-24A	1/31/1990	A	942.82	42.5	900.39
EMW-24A	2/1/1990	A	942.82	42.8	900.09
EMW-24A	2/2/1990	A	942.82	42.9	899.99
EMW-24A	2/8/1990	A	942.82	43	899.89
EMW-24A	2/16/1990	A	942.82	42.8	900.09
EMW-24A	2/23/1990	A	942.82	42.7	900.19
EMW-24A	3/1/1990	A	942.82	42.95	899.94
EMW-24A	3/9/1990	A	942.82	43.25	899.64
EMW-24A	3/16/1990	A	942.82	43.1	899.79
EMW-24A	3/21/1990	A	942.82	43.5	899.39
EMW-24A	4/4/1990	A	942.82	43.3	899.59
EMW-24A	4/17/1990	A	942.82	43.1	899.79
EMW-24A	5/22/1990	A	942.82	43.8	899.09
EMW-24A	6/19/1990	A	942.82	44.15	898.74
EMW-24A	7/17/1990	A	942.82	45	897.89
EMW-24A	8/16/1990	A	942.82	44.85	898.04
EMW-24A	9/22/1990	A	942.82	43.4	899.49
EMW-24A	10/17/1990	A	942.82	42.7	900.19
EMW-24A	11/24/1990	A	942.82	43	899.89
EMW-24A	1/18/1991	A	942.82	42.35	900.54
EMW-24A	2/16/1991	A	942.82	41.75	901.14
EMW-24A	3/16/1991	A	942.82	42.1	900.79
EMW-24A	4/22/1991	A	942.82	43	899.89
EMW-24A	5/19/1991	A	942.82	43.05	899.84
EMW-24A	6/19/1991	A	942.82	44.85	898.04
EMW-24A	7/21/1991	A	942.82	47.5	895.39
EMW-24A	8/18/1991	A	942.82	48.6	894.29
EMW-24A	9/23/1991	A	942.82	47.85	895.04
EMW-24A	10/31/1991	A	942.82	48.8	894.09
EMW-24A	11/17/1991	A	942.82	48.45	894.44
EMW-24A	1/18/1992	A	942.82	45	897.89
EMW-24A	2/21/1992	A	942.82	43.67	899.22
EMW-24A	3/26/1992	A	942.82	43.6	899.22
EMW-24A	4/23/1992	A	942.82	43.7	899.12
EMW-24A	5/14/1992	A	942.82	43.8	899.02

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-24A	6/29/1992	A	942.82	45.1	897.72
EMW-24A	7/31/1992	A	942.82	46.1	896.72
EMW-24A	8/24/1992	A	942.82	46.3	896.52
EMW-24A	10/7/1992	A	942.82	44.8	898.02
EMW-24A	10/28/1992	A	942.82	44.3	898.52
EMW-24A	11/23/1992	A	942.82	43.5	899.32
EMW-24A	12/17/1992	A	942.82	42.7	900.12
EMW-24A	2/4/1993	A	942.82	40.7	902.12
EMW-24A	3/12/1993	A	942.82	39.4	903.42
EMW-24A	4/15/1993	A	942.82	39.1	903.72
EMW-24A	5/18/1993	A	942.82	40.4	902.42
EMW-24A	6/11/1993	A	942.82	40.2	902.62
EMW-24A	6/14/1993	A	942.82	40.3	902.52
EMW-24A	7/13/1993	A	942.82	41.1	901.72
EMW-24A	8/9/1993	A	942.82	41.9	900.92
EMW-24A	9/24/1993	A	942.82	41.8	901.02
EMW-24A	10/28/1993	A	942.82	40.8	902.02
EMW-24A	12/14/1993	A	942.82	39.6	903.22
EMW-24A	1/10/1994	A	942.82	39.4	903.42
EMW-24A	1/27/1994	A	942.82	39.1	903.72
EMW-24A	2/25/1994	A	942.82	39.5	903.32
EMW-24A	3/21/1994	A	942.82	39.8	903.02
EMW-24A	4/27/1994	A	942.82	40.7	902.12
EMW-24A	5/25/1994	A	942.82	41	901.82
EMW-24A	6/2/1994	A	942.82	41	901.82
EMW-24A	7/21/1994	A	942.82	44	898.82
EMW-24A	8/25/1994	A	942.82	45.5	897.32
EMW-24A	9/22/1994	A	942.82	44.8	898.02
EMW-24A	10/12/1994	A	942.82	44.1	898.72
EMW-24A	11/18/1994	A	942.82	42.6	900.22
EMW-24A	12/30/1994	A	942.82	41.5	901.32
EMW-24A	1/30/1995	A	942.82	41	901.82
EMW-24A	2/23/1995	A	942.82	40.7	902.12
EMW-24A	3/30/1995	A	942.82	40.6	902.22
EMW-24A	4/21/1995	A	942.82	41.1	901.72
EMW-24A	5/26/1995	A	942.82	40.8	902.02
EMW-24A	6/23/1995	A	942.82	41.35	901.47
EMW-24A	7/27/1995	A	942.82	42.9	899.92
EMW-24A	8/30/1995	A	942.82	43.65	899.17
EMW-24A	9/29/1995	A	942.82	42.85	899.97
EMW-24A	10/27/1995	A	942.82	42.18	900.64
EMW-24A	11/28/1995	A	942.82	41.17	901.65
EMW-24A	12/30/1995	A	942.82	40.67	902.15
EMW-25A	8/14/1987	A	935.25	46.5	888.73
EMW-25A	9/2/1987	A	935.25	43.42	891.81
EMW-25A	10/7/1987	A	935.25	40.2	895.03
EMW-25A	10/8/1987	A	935.25	40.2	895.03
EMW-25A	10/23/1987	A	935.25	40.1	895.13
EMW-25A	12/11/1987	A	935.25	36.6	898.63
EMW-25A	1/7/1988	A	935.25	35.87	899.36
EMW-25A	2/15/1988	A	935.25	34.97	900.26
EMW-25A	3/9/1988	A	935.25	45.37	899.86
EMW-25A	4/14/1988	A	935.25	40.47	894.76

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-25A	5/20/1988	A	935.25	33.35	901.88
EMW-25A	6/29/1988	A	935.25	43.6	891.63
EMW-25A	7/25/1988	A	935.25	47.21	888.02
EMW-25A	8/8/1988	A	935.25	44.4	890.83
EMW-25A	9/7/1988	A	935.25	44.55	890.68
EMW-25A	11/26/1988	A	935.25	44.38	890.85
EMW-25A	1/17/1989	A	935.25	35.72	899.51
EMW-25A	2/15/1989	A	935.25	37	898.23
EMW-25A	3/22/1989	A	935.25	29.51	905.72
EMW-25A	9/19/1989	A	935.25	42.62	892.61
EMW-25A	11/20/1989	A	935.25	38.87	896.36
EMW-25A	11/21/1989	A	935.25	38.87	896.36
EMW-25A	1/22/1990	A	935.25	36.82	898.43
EMW-25A	1/23/1990	A	935.25	36.72	898.53
EMW-25A	1/24/1990	A	935.25	36.87	898.38
EMW-25A	1/25/1990	A	935.25	36.92	898.33
EMW-25A	1/26/1990	A	935.25	36.77	898.48
EMW-25A	1/29/1990	A	935.25	39.22	896.03
EMW-25A	1/30/1990	A	935.25	40.22	895.03
EMW-25A	1/31/1990	A	935.25	38.12	897.13
EMW-25A	2/1/1990	A	935.25	40.3	894.93
EMW-25A	2/2/1990	A	935.25	41.2	894.03
EMW-25A	2/8/1990	A	935.25	37	898.23
EMW-25A	4/19/1990	A	935.25	38.8	896.43
EMW-25A	7/19/1990	A	935.25	42.7	892.53
EMW-25A	10/21/1990	A	935.25	38.15	897.08
EMW-25A	1/23/1991	A	935.25	37.6	897.63
EMW-25A	2/16/1991	A	935.25	37	898.23
EMW-25A	3/17/1991	A	935.25	37.45	897.78
EMW-25A	4/22/1991	A	935.25	38	897.23
EMW-25A	5/19/1991	A	935.25	38.3	896.93
EMW-25A	6/22/1991	A	935.25	45.7	889.53
EMW-25A	7/21/1991	A	935.25	46.1	889.13
EMW-25A	8/18/1991	A	935.25	50.25	884.98
EMW-25A	9/22/1991	A	935.25	45.8	889.43
EMW-25A	10/31/1991	A	935.25	42.35	892.9
EMW-25A	11/17/1991	A	935.25	41	894.25
EMW-25A	1/24/1992	A	935.25	37.1	898.15
EMW-25A	2/21/1992	A	935.25	35.88	899.37
EMW-25A	3/29/1992	A	935.25	35.1	900.15
EMW-25A	4/23/1992	A	935.25	35.62	899.63
EMW-25A	5/15/1992	A	935.25	37.02	898.23
EMW-25A	6/30/1992	A	935.25	43.95	891.3
EMW-25A	7/31/1992	A	935.25	44.7	890.55
EMW-25A	8/26/1992	A	935.25	39.55	895.7
EMW-25A	10/13/1992	A	935.25	41.3	893.95
EMW-25A	10/28/1992	A	935.25	36.8	898.45
EMW-25A	11/23/1992	A	935.25	35.8	899.45
EMW-25A	1/5/1993	A	935.25	34.8	900.45
EMW-25A	2/4/1993	A	935.25	31.2	904.05
EMW-25A	3/16/1993	A	935.25	30.2	905.05
EMW-25A	4/15/1993	A	935.25	36.6	898.65
EMW-25A	5/18/1993	A	935.25	39.2	896.05

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-25A	6/11/1993	A	935.25	39.7	895.55
EMW-25A	6/14/1993	A	935.25	39.7	895.55
EMW-25A	7/14/1993	A	935.25	37.7	897.55
EMW-25A	8/11/1993	A	935.25	39.5	895.75
EMW-25A	9/24/1993	A	935.25	37.5	897.75
EMW-25A	10/28/1993	A	935.25	35.5	899.75
EMW-25A	11/23/1993	A	935.25	34.8	900.45
EMW-25A	12/14/1993	A	935.25	38.6	896.65
EMW-25A	1/26/1994	A	935.25	34.7	900.55
EMW-25A	2/25/1994	A	935.25	39.3	895.95
EMW-25A	3/23/1994	A	935.25	35.8	899.45
EMW-25A	4/27/1994	A	935.25	38.4	896.85
EMW-25A	5/26/1994	A	935.25	37.8	897.45
EMW-25A	6/1/1994	A	935.25	37.7	897.55
EMW-25A	7/22/1994	A	935.25	46.8	888.45
EMW-25A	8/24/1994	A	935.25	46.6	888.65
EMW-25A	9/22/1994	A	935.25	46.7	888.55
EMW-25A	10/13/1994	A	935.25	42	893.25
EMW-25A	12/30/1994	A	935.25	37.1	898.15
EMW-25A	1/30/1995	A	935.25	35.5	899.75
EMW-25A	2/23/1995	A	935.25	36.1	899.15
EMW-25A	3/30/1995	A	935.25	36.6	898.65
EMW-25A	4/21/1995	A	935.25	36.9	898.35
EMW-25A	5/26/1995	A	935.25	40.5	894.75
EMW-25A	6/23/1995	A	935.25	39.29	895.96
EMW-25A	7/27/1995	A	935.25	47.42	887.83
EMW-25A	8/30/1995	A	935.25	42.95	892.3
EMW-25A	9/29/1995	A	935.25	51.19	884.06
EMW-25A	10/27/1995	A	935.25	39.57	895.68
EMW-25A	11/28/1995	A	935.25	37.14	898.11
EMW-25A	12/30/1995	A	935.25	37.6	897.65
EMW-26A	8/14/1987	A	950.88	53.93	896.95
EMW-26A	9/2/1987	A	950.88	54.91	895.97
EMW-26A	10/7/1987	A	950.88	50.96	899.92
EMW-26A	10/23/1987	A	950.88	49.81	901.07
EMW-26A	12/11/1987	A	950.88	49.33	901.55
EMW-26A	1/7/1988	A	950.88	49.57	901.31
EMW-26A	2/15/1988	A	950.88	48.31	902.57
EMW-26A	3/9/1988	A	950.88	48.89	901.99
EMW-26A	4/14/1988	A	950.88	50.56	900.32
EMW-26A	5/23/1988	A	950.88	52.37	898.51
EMW-26A	6/29/1988	A	950.88	54.15	896.73
EMW-26A	7/11/1988	A	950.88	55.3	895.58
EMW-26A	8/8/1988	A	950.88	55.92	894.96
EMW-26A	9/14/1988	A	950.88	56.7	894.18
EMW-26A	11/26/1988	A	950.88	50.95	899.93
EMW-26A	1/17/1989	A	950.88	48.9	901.98
EMW-26A	2/15/1989	A	950.88	49.6	901.28
EMW-26A	3/22/1989	A	950.88	50.2	900.68
EMW-26A	4/19/1989	A	950.88	52.48	898.4
EMW-26A	5/11/1989	A	950.88	52.1	898.78
EMW-26A	6/1/1989	A	950.88	52.91	897.97
EMW-26A	7/24/1989	A	950.88	55.95	894.93

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-26A	8/24/1989	A	950.88	55.85	895.03
EMW-26A	8/24/1989	A	950.88	56.85	894.03
EMW-26A	9/19/1989	A	950.88	54.05	896.83
EMW-26A	10/19/1989	A	950.88	53.86	897.02
EMW-26A	11/20/1989	A	950.88	52.13	898.75
EMW-26A	11/21/1989	A	950.88	52.13	898.75
EMW-26A	1/22/1990	A	950.88	50.6	900.28
EMW-26A	1/23/1990	A	950.88	50.5	900.38
EMW-26A	1/24/1990	A	950.88	50.7	900.18
EMW-26A	1/25/1990	A	950.88	50.7	900.18
EMW-26A	1/26/1990	A	950.88	50.5	900.38
EMW-26A	1/29/1990	A	950.88	50.45	900.43
EMW-26A	1/30/1990	A	950.88	50.4	900.48
EMW-26A	1/31/1990	A	950.88	50.5	900.38
EMW-26A	2/1/1990	A	950.88	50.65	900.23
EMW-26A	2/2/1990	A	950.88	50.8	900.08
EMW-26A	2/8/1990	A	950.88	50.6	900.28
EMW-26A	4/19/1990	A	950.88	51.9	898.98
EMW-26A	7/19/1990	A	950.88	56.1	894.78
EMW-26A	10/18/1990	A	950.88	51.15	899.73
EMW-26A	1/23/1991	A	950.88	51	899.88
EMW-26A	2/16/1991	A	950.88	50.85	900.03
EMW-26A	3/17/1991	A	950.88	50.6	900.28
EMW-26A	4/22/1991	A	950.88	50.95	899.93
EMW-26A	5/19/1991	A	950.88	51.15	899.73
EMW-26A	8/18/1991	A	950.88	57.6	893.28
EMW-26A	11/17/1991	A	950.88	53.55	897.33
EMW-26A	1/24/1992	A	950.88	50.05	900.83
EMW-26A	2/23/1992	A	950.88	49	901.88
EMW-26A	3/30/1992	A	950.88	48.3	902.58
EMW-26A	4/23/1992	A	950.88	48.4	902.48
EMW-26A	5/15/1992	A	950.88	49.45	901.43
EMW-26A	7/7/1992	A	950.88	53.05	897.83
EMW-26A	7/31/1992	A	950.88	52.7	898.18
EMW-26A	8/26/1992	A	950.88	51.7	899.18
EMW-26A	10/13/1992	A	950.88	49.2	901.68
EMW-26A	10/28/1992	A	950.88	49.2	901.68
EMW-26A	11/23/1992	A	950.88	48.6	902.28
EMW-26A	12/18/1992	A	950.88	48.1	902.78
EMW-26A	2/4/1993	A	950.88	44.3	906.58
EMW-26A	3/17/1993	A	950.88	42.5	908.38
EMW-26A	4/15/1993	A	950.88	43.9	906.98
EMW-26A	5/18/1993	A	950.88	46	904.88
EMW-26A	6/11/1993	A	950.88	46.7	904.18
EMW-26A	7/2/1993	A	950.88	47.9	902.98
EMW-26A	7/14/1993	A	950.88	48.7	902.18
EMW-26A	8/11/1993	A	950.88	50.2	900.68
EMW-26A	9/24/1993	A	950.88	48.9	901.98
EMW-26A	10/28/1993	A	950.88	47.9	902.98
EMW-26A	11/23/1993	A	950.88	47.2	903.68
EMW-26A	12/14/1993	A	950.88	46.7	904.18
EMW-26A	1/26/1994	A	950.88	47.4	903.48
EMW-26A	2/25/1994	A	950.88	47.5	903.38

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-26A	3/23/1994	A	950.88	48.2	902.68
EMW-26A	4/27/1994	A	950.88	50.3	900.58
EMW-26A	5/26/1994	A	950.88	50.4	900.48
EMW-26A	6/1/1994	A	950.88	50.1	900.78
EMW-26A	7/22/1994	A	950.88	54.1	896.78
EMW-26A	8/24/1994	A	950.88	56.8	894.08
EMW-26A	9/22/1994	A	950.88	54.4	896.48
EMW-26A	10/13/1994	A	950.88	53.6	897.28
EMW-26A	12/30/1994	A	950.88	50.3	900.58
EMW-26A	1/30/1995	A	950.88	48.6	902.28
EMW-26A	2/23/1995	A	950.88	48.2	902.68
EMW-26A	3/30/1995	A	950.88	47.8	903.08
EMW-26A	4/21/1995	A	950.88	49.3	901.58
EMW-26A	5/26/1995	A	950.88	48.2	902.68
EMW-26A	6/23/1995	A	950.88	50.28	900.6
EMW-26A	7/27/1995	A	950.88	53.65	897.23
EMW-26A	8/30/1995	A	950.88	51.37	899.51
EMW-26A	9/29/1995	A	950.88	51.9	898.98
EMW-26A	10/27/1995	A	950.88	51.25	899.63
EMW-26A	11/28/1995	A	950.88	49.8	901.08
EMW-26A	12/30/1995	A	950.88	50.1	900.78
EMW-27MF	1/12/1993	MFU	962.45	54.8	907.65
EMW-28B	8/3/1987	B	955.37	56.7	898.67
EMW-28B	9/2/1987	B	955.37	51.51	903.86
EMW-28B	10/6/1987	B	955.37	50	905.37
EMW-28B	10/22/1987	B	955.37	49.7	905.67
EMW-28B	12/10/1987	B	955.37	48.56	906.81
EMW-28B	1/7/1988	B	955.37	49.15	906.22
EMW-28B	1/22/1988	B	955.37	47.92	907.45
EMW-28B	1/23/1988	B	955.37	48.04	907.33
EMW-28B	1/24/1988	B	955.37	48.06	907.31
EMW-28B	1/25/1988	B	955.37	48.46	906.91
EMW-28B	1/26/1988	B	955.37	49.2	906.17
EMW-28B	1/27/1988	B	955.37	49.45	905.92
EMW-28B	1/28/1988	B	955.37	49.24	906.13
EMW-28B	1/29/1988	B	955.37	48.18	907.19
EMW-28B	1/30/1988	B	955.37	48.16	907.21
EMW-28B	1/31/1988	B	955.37	48.13	907.24
EMW-28B	2/15/1988	B	955.37	48	907.37
EMW-28B	3/9/1988	B	955.37	48.05	907.32
EMW-28B	4/14/1988	B	955.37	50.03	905.34
EMW-28B	5/19/1988	B	955.37	50.59	904.78
EMW-28B	6/29/1988	B	955.37	53.07	902.3
EMW-28B	8/8/1988	B	955.37	54.29	901.08
EMW-28B	9/14/1988	B	955.37	52.15	903.22
EMW-28B	11/21/1988	B	955.37	49.7	905.67
EMW-28B	1/19/1989	B	955.37	48.78	906.59
EMW-28B	2/14/1989	B	955.37	48.7	906.67
EMW-28B	3/14/1989	B	955.37	49.08	906.29
EMW-28B	4/19/1989	B	955.37	51.05	904.32
EMW-28B	5/11/1989	B	955.37	50.85	904.52
EMW-28B	6/1/1989	B	955.37	51.62	903.75
EMW-28B	7/25/1989	B	955.37	54.38	900.99

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-28B	8/24/1989	B	955.37	54.72	900.65
EMW-28B	9/19/1989	B	955.37	51.97	903.4
EMW-28B	10/19/1989	B	955.37	51.9	903.47
EMW-28B	11/20/1989	B	955.37	51.74	903.63
EMW-28B	12/13/1989	B	955.37	51.31	904.06
EMW-28B	1/17/1990	B	955.37	51	904.37
EMW-28B	2/13/1990	B	955.37	50.83	904.54
EMW-28B	3/12/1990	B	955.37	51.29	904.08
EMW-28B	4/24/1990	B	955.37	51.98	903.39
EMW-28B	5/16/1990	B	955.37	53.4	901.97
EMW-28B	6/27/1990	B	955.37	55.54	899.83
EMW-28B	1/2/1991	B	955.37	51.65	903.72
EMW-28B	7/13/1991	B	955.37	57	898.37
EMW-28B	1/29/1992	B	955.37	52.75	902.62
EMW-28B	7/7/1992	B	955.37	52.4	902.97
EMW-28B	8/25/1992	B	955.37	53.1	902.27
EMW-28B	12/21/1992	B	955.37	50.8	904.57
EMW-28B	6/22/1993	B	955.37	47.9	907.47
EMW-28B	2/21/1994	B	955.37	47.7	907.67
EMW-28B	7/1/1994	B	955.37	53.1	902.27
EMW-28B	1/20/1995	B	955.37	50.6	904.77
EMW-28B	10/31/1995	B	955.37	51.54	903.83
EMW-28B	11/29/1995	B	955.37	51	904.37
EMW-28B	12/30/1995	B	955.37	50.85	904.52
EMW-28B	1/31/1996	B	955.37	50.4	904.97
EMW-28B	2/20/1996	B	955.37	50.57	904.8
EMW-28B	3/30/1996	B	955.37	51.5	903.87
EMW-28B	4/29/1996	B	955.37	52.55	902.82
EMW-28B	5/31/1996	B	955.37	52.6	902.77
EMW-28B	6/28/1996	B	955.37	55.92	899.45
EMW-28B	7/31/1996	B	955.37	57.4	897.97
EMW-28B	8/30/1996	B	955.37	57.56	897.81
EMW-28B	9/28/1996	B	955.37	54.3	901.07
EMW-28B	10/30/1996	B	955.37	53.7	901.67
EMW-28B	1/16/1997	B	955.37	51.75	903.62
EMW-28B	4/30/1997	B	955.37	54.45	900.92
EMW-28B	7/29/1997	B	955.37	59.98	895.39
EMW-28B	10/24/1997	B	955.37	55.9	899.47
EMW-28B	1/30/1998	B	955.37	55	899.27
EMW-28LC	8/3/1987	C	955.19	63.17	892.02
EMW-28LC	9/2/1987	C	955.19	60.74	894.45
EMW-28LC	10/6/1987	C	955.19	54.4	900.79
EMW-28LC	10/22/1987	C	955.19	53.05	902.14
EMW-28LC	12/10/1987	C	955.19	50.85	904.34
EMW-28LC	1/7/1988	C	955.19	51.87	903.32
EMW-28LC	1/22/1988	C	955.19	49.55	905.64
EMW-28LC	1/23/1988	C	955.19	49.2	905.99
EMW-28LC	1/24/1988	C	955.19	49.23	905.96
EMW-28LC	1/25/1988	C	955.19	50.05	905.14
EMW-28LC	1/26/1988	C	955.19	53.5	901.69
EMW-28LC	1/27/1988	C	955.19	54.33	900.86
EMW-28LC	1/28/1988	C	955.19	53.23	901.96
EMW-28LC	1/29/1988	C	955.19	50.35	904.84

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-28LC	1/30/1988	C	955.19	49.65	905.54
EMW-28LC	1/31/1988	C	955.19	49.61	905.58
EMW-28LC	2/15/1988	C	955.19	49.75	905.44
EMW-28LC	3/9/1988	C	955.19	49.49	905.7
EMW-28LC	4/14/1988	C	955.19	55.72	899.47
EMW-28LC	5/19/1988	C	955.19	58.22	896.97
EMW-28LC	6/29/1988	C	955.19	64.35	890.84
EMW-28LC	8/8/1988	C	955.19	66.4	888.79
EMW-28LC	9/14/1988	C	955.19	57.02	898.17
EMW-28LC	11/21/1988	C	955.19	51.65	903.54
EMW-28LC	1/19/1989	C	955.19	50.05	905.14
EMW-28LC	2/14/1989	C	955.19	50.35	904.84
EMW-28LC	3/14/1989	C	955.19	51.63	903.56
EMW-28LC	4/19/1989	C	955.19	57.65	897.54
EMW-28LC	5/11/1989	C	955.19	56.53	898.66
EMW-28LC	6/1/1989	C	955.19	57.85	897.34
EMW-28LC	7/25/1989	C	955.19	65.32	889.87
EMW-28LC	8/24/1989	C	955.19	62.73	892.46
EMW-28LC	9/19/1989	C	955.19	56.81	898.38
EMW-28LC	10/19/1989	C	955.19	54.92	900.27
EMW-28LC	11/20/1989	C	955.19	55.16	900.03
EMW-28LC	12/13/1989	C	955.19	53.21	901.98
EMW-28LC	1/17/1990	C	955.19	52.19	903
EMW-28LC	2/13/1990	C	955.19	51.69	903.5
EMW-28LC	3/12/1990	C	955.19	55.35	899.84
EMW-28LC	4/24/1990	C	955.19	55.42	899.77
EMW-28LC	5/16/1990	C	955.19	58.82	896.37
EMW-28LC	6/27/1990	C	955.19	65.83	889.36
EMW-28LC	1/2/1991	C	955.19	52.1	903.09
EMW-28LC	7/13/1991	C	955.19	67.8	887.39
EMW-28LC	1/29/1992	C	955.19	52.4	902.79
EMW-28LC	7/2/1992	C	955.19	60	895.19
EMW-28LC	8/25/1992	C	955.19	55.55	899.64
EMW-28LC	12/21/1992	C	955.19	49.8	905.39
EMW-28LC	6/23/1993	C	955.19	50.9	904.29
EMW-28LC	2/21/1994	C	955.19	47.7	907.49
EMW-28LC	7/1/1994	C	955.19	62.3	892.89
EMW-28LC	10/25/1994	C	955.19	53.26	901.93
EMW-28LC	10/27/1994	C	955.19	53.6	901.59
EMW-28LC	11/1/1994	C	955.19	52.66	902.53
EMW-28LC	11/4/1994	C	955.19	52.7	902.49
EMW-28LC	11/8/1994	C	955.19	52.53	902.66
EMW-28LC	11/11/1994	C	955.19	52.4	902.79
EMW-28LC	11/15/1994	C	955.19	52.18	903.01
EMW-28LC	11/18/1994	C	955.19	52.03	903.16
EMW-28LC	11/21/1994	C	955.19	52.06	903.13
EMW-28LC	11/23/1994	C	955.19	52.07	903.12
EMW-28LC	11/29/1994	C	955.19	52.02	903.17
EMW-28LC	12/2/1994	C	955.19	53.74	901.45
EMW-28LC	12/9/1994	C	955.19	51.88	903.31
EMW-28LC	12/13/1994	C	955.19	52.1	903.09
EMW-28LC	12/20/1994	C	955.19	51.42	903.77
EMW-28LC	12/27/1994	C	955.19	50.68	904.51

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-28LC	1/3/1995	C	955.19	50.65	904.54
EMW-28LC	1/10/1995	C	955.19	49.86	905.33
EMW-28LC	1/17/1995	C	955.19	49.39	905.8
EMW-28LC	1/20/1995	C	955.19	49.3	905.89
EMW-28LC	1/24/1995	C	955.19	49.24	905.95
EMW-28LC	1/31/1995	C	955.19	48.94	906.25
EMW-28LC	2/8/1995	C	955.19	49.45	905.74
EMW-28LC	2/13/1995	C	955.19	49.33	905.86
EMW-28LC	2/22/1995	C	955.19	49.51	905.68
EMW-28LC	3/2/1995	C	955.19	48.71	906.48
EMW-28LC	3/10/1995	C	955.19	48.5	906.69
EMW-28LC	3/15/1995	C	955.19	48.08	907.11
EMW-28LC	10/31/1995	C	955.19	51.85	903.34
EMW-28LC	11/29/1995	C	955.19	50.58	904.61
EMW-28LC	12/30/1995	C	955.19	50.6	904.59
EMW-28LC	1/31/1996	C	955.19	50.1	905.09
EMW-28LC	2/20/1996	C	955.19	50.25	904.94
EMW-28LC	3/30/1996	C	955.19	54.57	900.62
EMW-28LC	4/29/1996	C	955.19	55.45	899.74
EMW-28LC	5/31/1996	C	955.19	55.5	899.69
EMW-28LC	6/28/1996	C	955.19	64.3	890.89
EMW-28LC	7/31/1996	C	955.19	66.71	888.48
EMW-28LC	8/30/1996	C	955.19	65.7	889.49
EMW-28LC	9/28/1996	C	955.19	56.02	899.17
EMW-28LC	10/30/1996	C	955.19	54.28	900.91
EMW-28LC	1/16/1997	C	955.19	52.63	902.56
EMW-28LC	4/30/1997	C	955.19	59.5	895.69
EMW-28LC	7/29/1997	C	955.19	70.19	885
EMW-28LC	10/24/1997	C	955.19	57.55	897.64
EMW-28LC	1/30/1998	C	955.19	56.1	898.54
EMW-28LC	5/8/1998	C	955.19	56.6	898.59
EMW-28LC	7/30/1998	C	955.19	59.65	895.54
EMW-28LC	10/29/1998	C	955.19	53.35	901.84
EMW-28LC	1/29/1999	C	955.19	53.25	901.94
EMW-28LC	4/29/1999	C	955.19	57.85	897.34
EMW-28LC	8/5/1999	C	955.19	67.35	887.84
EMW-28LC	10/12/1999	C	955.19	58.3	896.89
EMW-28LC	2/9/2000	C	955.19	64.9	890.29
EMW-28LC	5/4/2000	C	955.19	58	897.19
EMW-28LC	8/3/2000	C	955.19	66.75	888.44
EMW-28LC	10/25/2000	C	955.19	58.35	896.84
EMW-28LC	2/1/2001	C	955.19	54.2	900.99
EMW-28LC	5/25/2001	C	955.19	57.3	897.89
EMW-28LC	8/1/2001	C	955.19	65.45	889.74
EMW-28LC	10/31/2001	C	955.19	58.7	896.49
EMW-28LC	2/1/2002	C	955.19	55.55	899.64
EMW-28LC	5/14/2002	C	955.19	60.05	895.14
EMW-28LC	8/1/2002	C	955.19	72.25	882.94
EMW-28LC	11/1/2002	C	955.19	62.5	892.69
EMW-28LC	1/31/2003	C	955.19	59	896.19
EMW-28LC	5/1/2003	C	955.19	60.8	894.39
EMW-28LC	8/8/2003	C	955.19	68.1	887.09
EMW-28LC	10/30/2003	C	955.19	63.2	891.99

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-28LC	1/29/2004	C	955.19	59.45	895.74
EMW-28LC	4/29/2004	C	955.19	61.6	893.59
EMW-28LC	7/30/2004	C	955.19	74.7	880.49
EMW-28LC	11/2/2004	C	955.19	65.7	889.49
EMW-28LC	1/28/2005	C	955.19	59.7	895.49
EMW-28LC	5/6/2005	C	955.19	59.55	895.64
EMW-28LC	7/27/2005	C	955.19	68	887.19
EMW-28LC	10/28/2005	C	955.19	61.4	893.79
EMW-28LC	1/26/2006	C	955.19	59.7	895.49
EMW-28LC	5/4/2006	C	955.19	62.7	892.49
EMW-28LC	7/27/2006	C	955.19	69.7	885.49
EMW-28LC	10/31/2006	C	955.19	63.3	891.89
EMW-28LC	1/31/2007	C	955.19	60.6	894.59
EMW-28LC	5/1/2007	C	955.19	63.55	891.64
EMW-28LC	8/1/2007	C	955.19	72.55	882.64
EMW-28LC	10/10/2007	C	955.19	71.03	884.16
EMW-28LC	1/9/2008	C	955.19	62.08	893.11
EMW-28LC	4/14/2008	C	955.19	65.1	890.09
EMW-28LC	8/4/2008	C	955.19	72.45	882.74
EMW-28LC	11/17/2008	C	955.19	66.54	888.65
EMW-28LC	2/17/2009	C	955.19	62.21	892.98
EMW-28LC	5/19/2009	C	955.19	64.5	890.69
EMW-28LC	8/25/2009	C	957.25	71.6	885.65
EMW-28LC	9/21/2009	C	957.25	72.79	884.46
EMW-28LC	10/19/2009	C	957.25	69.99	887.26
EMW-28LC	11/18/2009	C	957.25	67.3	889.95
EMW-28LC	2/2/2010	C	957.25	61.95	895.3
EMW-28LC	5/6/2010	C	957.25	63.69	893.56
EMW-28LC	8/24/2010	C	957.25	69.9	887.35
EMW-28LC	11/29/2010	C	957.25	63.05	894.2
EMW-28LC	2/3/2011	C	957.25	61.2	896.05
EMW-28LC	5/3/2011	C	957.25	65.5	891.75
EMW-28LC	8/1/2011	C	957.25	72.72	884.53
EMW-28LC	11/1/2011	C	957.25	69.02	888.23
EMW-28LC	2/1/2012	C	956.771	66.93	889.841
EMW-28LC	5/1/2012	C	956.771	67.06	889.711
EMW-28LC	8/2/2012	C	956.771	73.42	883.351
EMW-28LC	11/1/2012	C	956.771	68.48	888.291
EMW-28LC	2/4/2013	C	956.771	63.83	892.941
EMW-28LC	5/1/2013	C	956.771	68.25	888.521
EMW-28LC	8/6/2013	C	957.25	77.11	880.14
EMW-28LC	11/4/2013	C	957.25	71.22	886.03
EMW-28UC	8/3/1987	C	955.61	63.83	891.78
EMW-28UC	9/2/1987	C	955.61	61.32	894.29
EMW-28UC	10/6/1987	C	955.61	56.1	899.51
EMW-28UC	10/22/1987	C	955.61	53.5	902.11
EMW-28UC	12/10/1987	C	955.61	51.36	904.25
EMW-28UC	1/7/1988	C	955.61	52.33	903.28
EMW-28UC	1/22/1988	C	955.61	50.11	905.5
EMW-28UC	1/23/1988	C	955.61	49.77	905.84
EMW-28UC	1/24/1988	C	955.61	49.82	905.79
EMW-28UC	1/25/1988	C	955.61	50.65	904.96
EMW-28UC	1/26/1988	C	955.61	53.8	901.81

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-28UC	1/27/1988	C	955.61	54.8	900.81
EMW-28UC	1/28/1988	C	955.61	53.7	901.91
EMW-28UC	1/29/1988	C	955.61	50.93	904.68
EMW-28UC	1/30/1988	C	955.61	50.24	905.37
EMW-28UC	1/31/1988	C	955.61	50.18	905.43
EMW-28UC	2/15/1988	C	955.61	50.31	905.3
EMW-28UC	3/9/1988	C	955.61	50.12	905.49
EMW-28UC	4/14/1988	C	955.61	56.29	899.32
EMW-28UC	5/19/1988	C	955.61	58.75	896.86
EMW-28UC	6/29/1988	C	955.61	64.83	890.78
EMW-28UC	8/8/1988	C	955.61	66.97	888.64
EMW-28UC	9/14/1988	C	955.61	57.42	898.19
EMW-28UC	11/21/1988	C	955.61	52.32	903.29
EMW-28UC	1/19/1989	C	955.61	50.78	904.83
EMW-28UC	2/14/1989	C	955.61	50.95	904.66
EMW-28UC	3/14/1989	C	955.61	52.23	903.38
EMW-28UC	4/19/1989	C	955.61	58.23	897.38
EMW-28UC	5/11/1989	C	955.61	57.06	898.55
EMW-28UC	6/1/1989	C	955.61	58.23	897.38
EMW-28UC	7/25/1989	C	955.61	65.85	889.76
EMW-28UC	8/24/1989	C	955.61	63.16	892.45
EMW-28UC	9/19/1989	C	955.61	57.49	898.12
EMW-28UC	10/19/1989	C	955.61	55.3	900.31
EMW-28UC	11/20/1989	C	955.61	55.68	899.93
EMW-28UC	12/13/1989	C	955.61	53.34	902.27
EMW-28UC	1/17/1990	C	955.61	52.35	903.26
EMW-28UC	2/13/1990	C	955.61	52.22	903.39
EMW-28UC	3/12/1990	C	955.61	54.59	901.02
EMW-28UC	4/24/1990	C	955.61	56.01	899.6
EMW-28UC	5/16/1990	C	955.61	59.41	896.2
EMW-28UC	6/27/1990	C	955.61	66.59	889.02
EMW-28UC	1/2/1991	C	955.61	52.7	902.91
EMW-28UC	7/13/1991	C	955.61	68.4	887.21
EMW-28UC	1/29/1992	C	955.61	52.95	902.66
EMW-28UC	7/7/1992	C	955.61	60.9	894.71
EMW-28UC	8/25/1992	C	955.61	56.25	899.36
EMW-28UC	12/21/1992	C	955.61	49.8	905.81
EMW-28UC	6/17/1993	C	955.61	51.1	904.51
EMW-28UC	2/21/1994	C	955.61	48.1	907.51
EMW-28UC	7/1/1994	C	955.61	61.6	894.01
EMW-28UC	10/25/1994	C	955.61	53.72	901.89
EMW-28UC	10/27/1994	C	955.61	53.65	901.96
EMW-28UC	11/1/1994	C	955.61	53.46	902.15
EMW-28UC	11/4/1994	C	955.61	53.21	902.4
EMW-28UC	11/8/1994	C	955.61	53.06	902.55
EMW-28UC	11/11/1994	C	955.61	52.98	902.63
EMW-28UC	11/15/1994	C	955.61	52.72	902.89
EMW-28UC	11/18/1994	C	955.61	52.45	903.16
EMW-28UC	11/21/1994	C	955.61	53.2	902.41
EMW-28UC	11/23/1994	C	955.61	52.58	903.03
EMW-28UC	11/29/1994	C	955.61	52.45	903.16
EMW-28UC	12/2/1994	C	955.61	53.51	902.1
EMW-28UC	12/9/1994	C	955.61	52.43	903.18

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-28UC	12/13/1994	C	955.61	52.7	902.91
EMW-28UC	12/20/1994	C	955.61	51.79	903.82
EMW-28UC	12/27/1994	C	955.61	51.09	904.52
EMW-28UC	1/3/1995	C	955.61	51.1	904.51
EMW-28UC	1/10/1995	C	955.61	50.47	905.14
EMW-28UC	1/17/1995	C	955.61	49.98	905.63
EMW-28UC	1/20/1995	C	955.61	49.8	905.81
EMW-28UC	1/24/1995	C	955.61	49.91	905.7
EMW-28UC	1/31/1995	C	955.61	49.41	906.2
EMW-28UC	2/8/1995	C	955.61	50.09	905.52
EMW-28UC	2/13/1995	C	955.61	49.85	905.76
EMW-28UC	2/22/1995	C	955.61	50.1	905.51
EMW-28UC	3/2/1995	C	955.61	49.3	906.31
EMW-28UC	3/10/1995	C	955.61	49.09	906.52
EMW-28UC	3/15/1995	C	955.61	48.7	906.91
EMW-28UC	10/31/1995	C	955.61	52.45	903.16
EMW-28UC	11/29/1995	C	955.61	51.17	904.44
EMW-28UC	12/30/1995	C	955.61	51.2	904.41
EMW-28UC	1/31/1996	C	955.61	50.67	904.94
EMW-28UC	2/20/1996	C	955.61	50.79	904.82
EMW-28UC	3/30/1996	C	955.61	55.1	900.51
EMW-28UC	4/29/1996	C	955.61	56.07	899.54
EMW-28UC	5/31/1996	C	955.61	56.1	899.51
EMW-28UC	6/28/1996	C	955.61	64.92	890.69
EMW-28UC	7/31/1996	C	955.61	67.27	888.34
EMW-28UC	8/30/1996	C	955.61	66.35	889.26
EMW-28UC	9/28/1996	C	955.61	56.55	899.06
EMW-28UC	10/30/1996	C	955.61	54.85	900.76
EMW-28UC	1/16/1997	C	955.61	53.16	902.45
EMW-28UC	4/30/1997	C	955.61	60	895.61
EMW-28UC	7/29/1997	C	955.61	70.41	885.2
EMW-28UC	10/10/1997	C	955.61	71.44	884.17
EMW-28UC	10/24/1997	C	955.61	58.1	897.51
EMW-28UC	1/30/1998	C	955.61	56.65	898.96
EMW-28UC	8/8/2012	C	956.847	74.15	882.697
EMW-28UC	2/4/2013	C	956.847	64.3	892.547
EMW-28UC	5/1/2013	C	956.847	68.7	888.147
EMW-28UC	8/6/2013	C	957.67	77.55	880.12
EMW-28UC	11/4/2013	C	957.67	71.71	885.96
EMW-29A	4/17/1988	A	971.8	62.14	909.66
EMW-29A	5/24/1988	A	971.8	62.24	909.56
EMW-29A	7/22/1988	A	971.8	64	907.8
EMW-29A	8/12/1988	A	971.8	64.88	906.92
EMW-29A	9/7/1988	A	971.8	64.17	907.63
EMW-29A	11/28/1988	A	971.8	62.82	908.98
EMW-29A	1/17/1989	A	971.8	62.43	909.37
EMW-29A	2/13/1989	A	971.8	62.33	909.47
EMW-29A	3/22/1989	A	971.8	62.64	909.16
EMW-29A	4/19/1989	A	971.8	63	908.8
EMW-29A	5/11/1989	A	971.8	63.1	908.7
EMW-29A	6/1/1989	A	971.8	63.62	908.18
EMW-29A	7/24/1989	A	971.8	64.84	906.96
EMW-29A	8/24/1989	A	971.8	65.3	906.5

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-29A	8/24/1989	A	971.8	65.3	906.5
EMW-29A	9/19/1989	A	971.8	65.51	906.29
EMW-29A	10/19/1989	A	971.8	65.59	906.21
EMW-29A	11/20/1989	A	971.8	65.46	906.34
EMW-29A	12/12/1989	A	971.8	65.59	906.21
EMW-29A	1/22/1990	A	971.8	65.61	906.19
EMW-29A	2/13/1990	A	971.8	65.42	906.38
EMW-29A	3/12/1990	A	971.8	65.65	906.15
EMW-29A	4/24/1990	A	971.8	65.67	906.13
EMW-29A	5/16/1990	A	971.8	65.73	906.07
EMW-29A	6/27/1990	A	971.8	66.33	905.47
EMW-29A	2/16/1991	A	971.8	66.2	905.6
EMW-29A	3/17/1991	A	971.8	66.15	905.65
EMW-29A	4/22/1991	A	971.8	66.25	905.55
EMW-29A	5/19/1991	A	971.8	65.8	906
EMW-29A	6/22/1991	A	971.8	66.9	904.9
EMW-29A	7/21/1991	A	971.8	68.05	903.75
EMW-29A	8/18/1991	A	971.8	68.7	903.1
EMW-29A	9/22/1991	A	971.8	68.7	903.1
EMW-29A	10/31/1991	A	971.8	68.55	903.25
EMW-29A	11/17/1991	A	971.8	68.5	903.3
EMW-29A	1/21/1992	A	971.8	67.5	904.3
EMW-29A	2/21/1992	A	971.8	67.25	904.55
EMW-29A	3/30/1992	A	971.8	66.55	905.25
EMW-29A	4/23/1992	A	971.8	66.4	905.4
EMW-29A	5/15/1992	A	971.8	66	905.8
EMW-29A	7/23/1992	A	971.8	66	905.8
EMW-29A	7/30/1992	A	971.8	66	905.8
EMW-29A	8/24/1992	A	971.8	66	905.8
EMW-29A	10/8/1992	A	971.8	65.2	906.6
EMW-29A	10/28/1992	A	971.8	64.8	907
EMW-29A	11/23/1992	A	971.8	64.4	907.4
EMW-29A	12/19/1992	A	971.8	64.4	907.4
EMW-29A	1/29/1993	A	971.8	62.95	908.85
EMW-29A	2/4/1993	A	971.8	63.4	908.4
EMW-29A	3/16/1993	A	971.8	62	909.8
EMW-29A	4/15/1993	A	971.8	60.7	911.1
EMW-29A	5/18/1993	A	971.8	59.5	912.3
EMW-29A	6/10/1993	A	971.8	59.1	912.7
EMW-29A	6/28/1993	A	971.8	58.8	913
EMW-29A	7/14/1993	A	971.8	59.2	912.6
EMW-29A	8/11/1993	A	971.8	59.1	912.7
EMW-29A	9/24/1993	A	971.8	59.2	912.6
EMW-29A	10/28/1993	A	971.8	59.1	912.7
EMW-29A	11/23/1993	A	971.8	59.2	912.6
EMW-29A	12/14/1993	A	971.8	59	912.8
EMW-29A	1/26/1994	A	971.8	59.3	912.5
EMW-29A	2/25/1994	A	971.8	59.3	912.5
EMW-29A	3/23/1994	A	971.8	59.4	912.4
EMW-29A	4/27/1994	A	971.8	59.9	911.9
EMW-29A	5/26/1994	A	971.8	60.1	911.7
EMW-29A	6/1/1994	A	971.8	60.1	911.7
EMW-29A	7/22/1994	A	971.8	63.4	908.4

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-29A	8/24/1994	A	971.8	65	906.8
EMW-29A	9/22/1994	A	971.8	64.3	907.5
EMW-29A	10/13/1994	A	971.8	64	907.8
EMW-29A	11/18/1994	A	971.8	63.8	908
EMW-29A	12/30/1994	A	971.8	63.8	908
EMW-29A	1/30/1995	A	971.8	63.4	908.4
EMW-29A	2/23/1995	A	971.8	63	908.8
EMW-29A	3/30/1995	A	971.8	62.1	909.7
EMW-29A	4/21/1995	A	971.8	62.2	909.6
EMW-29A	5/26/1995	A	971.8	61.9	909.9
EMW-29A	6/23/1995	A	971.8	62.25	909.55
EMW-29A	7/27/1995	A	971.8	63.6	908.2
EMW-29A	8/30/1995	A	971.8	64	907.8
EMW-29A	9/29/1995	A	971.8	63.56	908.24
EMW-29A	10/27/1995	A	971.8	63.47	908.33
EMW-29A	11/28/1995	A	971.8	63.15	908.65
EMW-29A	12/30/1995	A	971.8	63.15	908.65
EMW-29A	1/31/1996	A	971.8	63	908.8
EMW-29A	2/20/1996	A	971.8	63.17	908.63
EMW-29A	3/30/1996	A	971.8	63.15	908.65
EMW-29A	4/29/1996	A	971.8	63.69	908.11
EMW-29A	5/30/1996	A	971.8	63.9	907.9
EMW-29A	6/28/1996	A	971.8	65.3	906.5
EMW-29A	7/31/1996	A	971.8	66.4	905.4
EMW-29A	8/30/1996	A	971.8	67.2	904.6
EMW-29A	9/28/1996	A	971.8	66.53	905.27
EMW-29A	10/29/1996	A	971.8	66.52	905.28
EMW-29A	1/15/1997	A	971.8	65.18	906.62
EMW-29A	4/28/1997	A	971.8	66.55	905.25
EMW-29A	7/29/1997	A	971.8	69.16	902.64
EMW-29A	1/29/1998	A	971.8	68	903.8
EMW-29A	5/8/1998	A	971.8	65.27	907.2
EMW-29A	7/28/1998	A	971.8	65.87	905.93
EMW-29A	10/29/1998	A	971.8	65.44	906.36
EMW-29A	1/28/1999	A	971.8	65.25	906.55
EMW-29A	4/28/1999	A	971.8	66	905.8
EMW-29A	8/4/1999	A	971.8	67	904.8
EMW-29A	10/13/1999	A	971.8	67	904.8
EMW-29A	2/9/2000	A	971.8	68.7	903.1
EMW-29A	5/2/2000	A	971.8	67.75	904.05
EMW-29A	8/2/2000	A	971.8	69.1	902.7
EMW-29A	10/25/2000	A	971.8	69	902.8
EMW-29A	1/30/2001	A	971.8	67.5	904.3
EMW-29A	5/24/2001	A	971.8	66.7	905.1
EMW-29A	7/30/2001	A	971.8	67.45	904.35
EMW-29A	10/29/2001	A	971.8	67.05	904.75
EMW-29A	1/30/2002	A	971.8	67.5	904.3
EMW-29A	1/31/2002	A	904.12	67.68	971.8
EMW-29A	5/13/2002	A	903.35	68.45	971.8
EMW-29A	5/13/2002	A	971.8	68.5	903.3
EMW-29A	7/30/2002	A	971.8	70.4	901.4
EMW-29A	7/30/2002	A	971.8	70.45	901.35
EMW-29A	10/30/2002	A	971.8	70.25	901.55

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EMW-29A	1/30/2003	A	971.8	70.35	901.45
EMW-29A	4/30/2003	A	971.8	70.6	901.2
EMW-29A	8/8/2003	A	971.8	72	899.8
EMW-29A	10/28/2003	A	971.8	72.1	899.7
EMW-29A	1/28/2004	A	971.8	72.42	899.38
EMW-29A	4/29/2004	A	971.8	72.35	899.45
EMW-29A	7/30/2004	A	971.8	73.8	898
EMW-29A	11/3/2004	A	971.8	73.8	898
EMW-29A	1/27/2005	A	971.8	74.1	897.7
EMW-29A	5/5/2005	A	971.8	72.8	899
EMW-29A	7/27/2005	A	971.24	71.6	899.64
EMW-29A	10/26/2005	A	971.24	71.2	900.04
EMW-29A	1/27/2006	A	971.24	70.45	900.79
EMW-29A	5/3/2006	A	971.24	70.8	900.44
EMW-29A	7/26/2006	A	971.24	71.25	899.99
EMW-29A	10/30/2006	A	971.24	70.75	900.49
EMW-29A	1/30/2007	A	971.24	71.85	899.39
EMW-29A	4/30/2007	A	971.24	71.7	899.54
EMW-29A	7/31/2007	A	971.24	73.6	897.64
EMW-29A	5/1/2008	A	971.24	73.93	897.31
EMW-29A	8/12/2008	A	971.24	74.85	896.39
EMW-29A	2/20/2009	A	971.8	83.62	888.18
EMW-29A	5/21/2009	A	971.8	80.14	891.66
EMW-29A	8/28/2009	A	973.38	76.69	896.69
EMW-29A	2/3/2010	A	973.52	75.59	897.93
EMW-29A	5/7/2010	A	973.52	74.15	899.37
EMW-29A	8/24/2010	A	973.52	73.85	899.67
EMW-29A	11/29/2010	A	973.52	74	899.52
EMW-29A	2/3/2011	A	973.52	73.95	899.57
EMW-29A	5/2/2011	A	973.52	74.42	899.1
EMW-29A	8/1/2011	A	973.52	75.04	898.48
EMW-29A	11/16/2011	A	973.52	76.3	897.22
EMW-29A	2/1/2012	A	973.016	75.82	897.196
EMW-29A	5/1/2012	A	973.016	77.7	895.316
EMW-29A	8/2/2012	A	973.016	76.04	896.976
EMW-29A	11/2/2012	A	973.016	76.48	896.536
EMW-29A	2/4/2013	A	973.016	76.94	896.076
EMW-29A	5/2/2013	A	973.016	76.41	896.606
EMW-29A	8/6/2013	A	973.52	78.42	895.1
EMW-29A	11/5/2013	A	973.52	79.63	893.89
EO-01	2/1/1990	A	944.35	46.6	897.75
EO-01	2/5/1990	A	944.35	46.47	897.88
EO-01	2/6/1990	A	944.35	46.35	898
EO-01	2/7/1990	A	944.35	45.95	898.4
EO-01	2/8/1990	A	944.35	46.1	898.25
EO-01	2/9/1990	A	944.35	46.35	898
EO-01	2/15/1990	A	944.45	45.15	899.3
EO-01	2/23/1990	A	944.45	44.75	899.7
EO-01	3/1/1990	A	944.45	44.85	899.6
EO-01	3/9/1990	A	944.45	44.8	899.65
EO-01	3/16/1990	A	944.45	45.75	898.7
EO-01	3/21/1990	A	944.45	45.25	899.2
EO-01	4/3/1990	A	944.45	47.95	896.5

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EO-01	4/17/1990	A	944.45	47.8	896.65
EO-01	5/22/1990	A	944.45	48.75	895.7
EO-01	6/19/1990	A	944.45	50.6	893.85
EO-01	7/18/1990	A	944.45	51.3	893.15
EO-01	8/17/1990	A	944.45	52.5	891.95
EO-01	9/22/1990	A	944.45	48.8	895.65
EO-01	10/18/1990	A	944.45	47.7	896.75
EO-01	11/25/1990	A	944.45	47	897.45
EO-01	12/18/1990	A	944.45	46.3	898.15
EO-01	1/23/1991	A	944.45	46.1	898.35
EO-01	2/17/1991	A	944.45	46.45	898
EO-01	3/17/1991	A	944.45	46.2	898.25
EO-01	4/22/1991	A	944.45	47.1	897.35
EO-01	6/19/1991	A	944.45	50.15	894.3
EO-01	7/21/1991	A	944.45	53.7	890.75
EO-01	8/18/1991	A	944.45	56.6	887.85
EO-01	9/22/1991	A	944.45	54.5	889.95
EO-01	10/31/1991	A	944.45	50.15	894.3
EO-01	11/17/1991	A	944.45	49.25	895.2
EO-01	2/5/1992	A	944.45	47.2	897.25
EO-01	2/23/1992	A	944.45	45.92	898.53
EO-01	3/30/1992	A	944.35	46.2	898.15
EO-01	5/15/1992	A	944.35	47	897.35
EO-01	7/13/1992	A	944.35	50.6	893.75
EO-01	7/31/1992	A	944.35	51.6	892.75
EO-01	8/26/1992	A	944.35	49.9	894.45
EO-01	10/2/1992	A	944.35	48	896.35
EO-01	10/27/1992	A	944.35	47.1	897.25
EO-01	11/23/1992	A	944.35	46.3	898.05
EO-01	1/5/1993	A	944.35	44.8	899.55
EO-01	2/4/1993	A	944.35	42.6	901.75
EO-01	3/15/1993	A	944.35	41	903.35
EO-01	4/15/1993	A	944.35	41.8	902.55
EO-01	5/17/1993	A	944.35	42.8	901.55
EO-01	6/11/1993	A	944.35	43.1	901.25
EO-01	7/13/1993	A	944.35	44.6	899.75
EO-01	8/11/1993	A	944.35	46.8	897.55
EO-01	9/24/1993	A	944.35	45.6	898.75
EO-01	10/28/1993	A	944.35	44	900.35
EO-01	11/24/1993	A	944.35	43.2	901.15
EO-01	12/14/1993	A	944.35	43	901.35
EO-01	1/28/1994	A	944.35	42.6	901.75
EO-01	2/25/1994	A	944.35	42.7	901.65
EO-01	3/21/1994	A	944.35	43.4	900.95
EO-01	3/27/1994	A	944.35	43.3	901.05
EO-01	3/31/1994	A	944.35	43	901.35
EO-01	4/14/1994	A	944.35	43.9	900.45
EO-01	4/27/1994	A	944.35	44.4	899.95
EO-01	5/25/1994	A	944.35	44.4	899.95
EO-01	6/3/1994	A	944.35	44.4	899.95
EO-01	7/21/1994	A	944.35	50.5	893.85
EO-01	8/25/1994	A	944.35	54.3	890.05
EO-01	9/23/1994	A	944.35	51.3	893.05

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EO-01	10/11/1994	A	944.35	50	894.35
EO-01	11/18/1994	A	944.35	46.8	897.55
EO-01	12/29/1994	A	944.35	45.3	899.05
EO-01	1/31/1995	A	944.35	43.8	900.55
EO-01	2/24/1995	A	944.35	43.7	900.65
EO-01	3/31/1995	A	944.35	43.6	900.75
EO-01	4/21/1995	A	944.35	44.3	900.05
EO-01	5/26/1995	A	944.35	43.9	900.45
EO-01	6/23/1995	A	944.35	45.35	899
EO-01	7/27/1995	A	944.35	50.61	893.74
EO-01	8/30/1995	A	944.35	50.33	894.02
EO-01	9/29/1995	A	944.35	48.32	896.03
EO-01	1/31/1996	A	944.35	43.67	900.68
EO-01	2/20/1996	A	944.35	43.48	900.87
EO-01	3/30/1996	A	944.35	43.31	901.04
EO-01	4/30/1996	A	944.35	44.65	899.7
EO-01	5/31/1996	A	944.35	44.83	899.52
EO-01	6/28/1996	A	944.35	47.9	896.45
EO-01	7/31/1996	A	944.35	51.45	892.9
EO-01	8/30/1996	A	944.35	54.2	890.15
EO-01	9/28/1996	A	944.35	50.86	893.49
EO-01	10/30/1996	A	944.35	49.14	895.21
EO-01	1/16/1997	A	944.35	45.65	898.7
EO-01	4/30/1997	A	944.35	47.62	896.73
EO-01	7/29/1997	A	944.35	56.75	887.6
EO-01	1/30/1998	A	944.35	48.27	896.08
EO-01	5/8/1998	A	944.35	47	879.08
EO-01	7/30/1998	A	944.35	49.5	894.85
EO-01	10/29/1998	A	944.35	47.27	897.08
EO-01	1/29/1999	A	944.35	45.3	899.05
EO-01	4/29/1999	A	944.35	46.6	897.75
EO-01	8/5/1999	A	944.35	53.1	891.25
EO-01	10/13/1999	A	944.35	53.3	891.05
EO-01	1/31/2000	A	944.35	52.15	892.2
EO-01	2/9/2000	A	944.35	47.55	896.8
EO-01	5/3/2000	A	944.35	47.87	896.48
EO-01	8/3/2000	A	944.35	56.55	887.8
EO-01	10/25/2000	A	944.35	52.9	891.45
EO-01	2/1/2001	A	944.35	48.03	896.32
EO-01	5/25/2001	A	944.35	48.7	895.65
EO-01	8/1/2001	A	944.35	56.13	888.22
EO-01	10/31/2001	A	944.35	52.1	892.25
EO-01	2/1/2002	A	944.35	48.1	896.25
EO-01	5/14/2002	A	944.35	49.65	894.7
EO-01	8/1/2002	A	944.35	59.3	885.05
EO-01	11/1/2002	A	944.35	56.25	888.1
EO-01	5/1/2003	A	944.35	51.8	892.55
EO-01	8/8/2003	A	944.35	58.5	885.85
EO-01	10/30/2003	A	944.35	57	887.35
EO-01	1/29/2004	A	944.35	52.35	892
EO-01	4/30/2004	A	944.35	50.45	893.9
EO-01	7/30/2004	A	944.35	59.45	884.9
EO-01	11/2/2004	A	944.35	57.75	886.6

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EO-01	1/28/2005	A	944.35	51.85	892.5
EO-01	5/6/2005	A	944.35	51.2	893.15
EO-01	7/27/2005	A	944.35	56.7	887.65
EO-01	10/28/2005	A	944.35	54	890.35
EO-01	1/27/2006	A	944.35	49.5	894.85
EO-01	5/3/2006	A	944.35	49.4	894.95
EO-01	7/27/2006	A	944.35	57	887.35
EO-01	10/31/2006	A	944.35	54.2	890.15
EO-01	1/31/2007	A	944.35	51	893.35
EO-01	5/1/2007	A	944.35	53.2	891.15
EO-01	8/1/2007	A	944.35	60	884.35
EO-01	10/9/2007	A	944.35	61.11	883.24
EO-01	1/8/2008	A	944.35	53.83	890.52
EO-01	4/14/2008	A	944.35	52.61	891.74
EO-01	8/4/2008	A	944.35	58.65	885.7
EO-01	11/17/2008	A	944.35	57.48	886.87
EO-01	2/16/2009	A	944.35	53	891.35
EO-01	5/18/2009	A	944.35	53.5	890.85
EO-01	8/24/2009	A	946.41	60.6	885.81
EO-01	11/17/2009	A	946.41	59.1	887.31
EO-01	2/1/2010	A	946.41	53.79	892.62
EO-01	5/3/2010	A	946.41	52	894.41
EO-01	8/23/2010	A	946.41	57.06	889.35
EO-01	11/29/2010	A	946.41	55.02	891.39
EO-01	2/3/2011	A	946.41	52.28	894.13
EO-01	5/3/2011	A	946.41	52.46	893.95
EO-01	8/1/2011	A	946.41	79.9	866.51
EO-01	11/2/2011	A	946.41	59.73	886.68
EO-01	2/1/2012	A	945.901	55.55	890.351
EO-01	5/1/2012	A	945.901	55.95	889.951
EO-01	8/2/2012	A	945.901	62.21	883.691
EO-01	11/1/2012	A	945.901	61.21	884.691
EO-01	2/4/2013	A	945.901	55.72	890.181
EO-01	5/1/2013	A	945.901	56.49	889.411
EO-01	8/6/2013	A	946.41	64.35	882.06
EO-01	11/4/2013	A	946.41	62.91	883.5
EO-02	8/19/1981	A	945.44	60.6	884.84
EO-02	2/1/1990	A	945.34	46.1	899.24
EO-02	2/5/1990	A	945.34	45.97	899.37
EO-02	2/6/1990	A	945.34	45.9	899.44
EO-02	2/7/1990	A	945.34	45.95	899.39
EO-02	2/8/1990	A	945.34	46.1	899.24
EO-02	2/9/1990	A	945.34	46.25	899.09
EO-02	2/15/1990	A	945.34	45.05	900.29
EO-02	2/23/1990	A	945.34	45.2	900.14
EO-02	3/1/1990	A	945.44	45.25	900.19
EO-02	3/9/1990	A	945.44	45.1	900.34
EO-02	3/16/1990	A	945.44	45.95	899.49
EO-02	3/21/1990	A	945.44	45.4	900.04
EO-02	4/3/1990	A	945.44	47.2	898.24
EO-02	4/17/1990	A	945.44	47.8	897.64
EO-02	5/22/1990	A	945.44	48.5	896.94
EO-02	6/19/1990	A	945.44	50.1	895.34

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EO-02	7/18/1990	A	945.44	51.1	894.34
EO-02	8/17/1990	A	945.44	52.65	892.79
EO-02	9/23/1990	A	945.44	48.85	896.59
EO-02	10/18/1990	A	945.44	48.15	897.29
EO-02	11/25/1990	A	945.44	47.3	898.14
EO-02	12/18/1990	A	945.44	46.5	898.94
EO-02	1/23/1991	A	945.44	47	898.44
EO-02	2/17/1991	A	945.44	47	898.44
EO-02	3/17/1991	A	945.44	46.8	898.64
EO-02	4/22/1991	A	945.44	47.75	897.69
EO-02	5/19/1991	A	945.44	47.85	897.59
EO-02	6/19/1991	A	945.44	49.1	896.34
EO-02	7/21/1991	A	945.44	53.4	892.04
EO-02	8/18/1991	A	944.45	56.6	887.85
EO-02	9/22/1991	A	943.44	55.1	888.34
EO-02	10/31/1991	A	945.44	50.15	895.29
EO-02	11/17/1991	A	945.44	49.25	896.19
EO-02	2/5/1992	A	945.44	47.2	898.24
EO-02	2/23/1992	A	945.44	46.33	899.11
EO-02	3/30/1992	A	945.34	47.15	898.19
EO-02	5/15/1992	A	945.34	47.65	897.69
EO-02	7/13/1992	A	945.34	49.4	895.94
EO-02	7/31/1992	A	945.34	51.1	894.24
EO-02	8/26/1992	A	945.34	50.7	894.64
EO-02	10/2/1992	A	945.34	48.5	896.84
EO-02	10/27/1992	A	945.34	47.7	897.64
EO-02	11/23/1992	A	945.34	46.9	898.44
EO-02	1/5/1993	A	945.34	45.7	899.64
EO-02	2/4/1993	A	945.34	43.4	901.94
EO-02	3/15/1993	A	945.34	41.7	903.64
EO-02	4/15/1993	A	945.34	42	903.34
EO-02	5/17/1993	A	945.34	42.89	902.45
EO-02	6/11/1993	A	945.34	43.5	901.84
EO-02	7/13/1993	A	945.34	45	900.34
EO-02	8/11/1993	A	945.34	46.5	898.84
EO-02	9/24/1993	A	945.34	45.6	899.74
EO-02	10/28/1993	A	945.34	44.1	901.24
EO-02	11/24/1993	A	945.34	43.7	901.64
EO-02	12/14/1993	A	945.34	43.2	902.14
EO-02	1/28/1994	A	945.34	43.1	902.24
EO-02	2/25/1994	A	945.34	43	902.34
EO-02	3/21/1994	A	945.34	43.6	901.74
EO-02	3/27/1994	A	945.34	43.5	901.84
EO-02	3/31/1994	A	945.34	43.4	901.94
EO-02	4/14/1994	A	945.34	44.1	901.24
EO-02	4/27/1994	A	945.34	44.7	900.64
EO-02	5/25/1994	A	945.34	44.7	900.64
EO-02	6/3/1994	A	945.34	44.7	900.64
EO-02	7/21/1994	A	945.34	48.7	896.64
EO-02	8/25/1994	A	945.34	52.4	892.94
EO-02	9/23/1994	A	945.34	50.3	895.04
EO-02	10/11/1994	A	945.34	49.2	896.14
EO-02	11/18/1994	A	945.34	46.8	898.54

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EO-02	12/29/1994	A	945.34	45.6	899.74
EO-02	1/31/1995	A	945.34	44.5	900.84
EO-02	2/24/1995	A	945.34	44.2	901.14
EO-02	3/31/1995	A	945.34	44	901.34
EO-02	4/21/1995	A	945.34	44.6	900.74
EO-02	5/26/1995	A	945.34	44.2	901.14
EO-02	6/23/1995	A	945.34	45.35	899.99
EO-02	7/27/1995	A	945.34	48.92	896.42
EO-02	8/30/1995	A	945.34	49.5	895.84
EO-02	9/29/1995	A	945.34	47.87	897.47
EO-02	1/31/1996	A	945.34	44.18	901.16
EO-02	2/20/1996	A	945.34	43.97	901.37
EO-02	3/30/1996	A	945.34	44.48	900.86
EO-02	4/30/1996	A	945.34	45.69	899.65
EO-02	5/31/1996	A	945.34	45.95	899.39
EO-02	6/28/1996	A	945.34	48.15	897.19
EO-02	7/31/1996	A	945.34	51.45	893.89
EO-02	8/30/1996	A	945.34	54.1	891.24
EO-02	9/28/1996	A	945.34	51.32	894.02
EO-02	10/30/1996	A	945.34	49.55	895.79
EO-02	1/16/1997	A	945.34	46.18	899.16
EO-02	4/30/1997	A	945.34	47.5	897.84
EO-02	7/29/1997	A	945.34	56.86	888.48
EO-02	1/30/1998	A	945.34	48.02	897.32
EO-02	5/8/1998	A	945.34	46.58	898.34
EO-02	7/30/1998	A	945.34	48.23	897.11
EO-02	10/29/1998	A	945.34	46.67	898.67
EO-02	1/29/1999	A	945.34	45	900.34
EO-02	4/29/1999	A	945.34	46.13	899.21
EO-02	8/5/1999	A	945.34	51.5	893.84
EO-02	10/13/1999	A	945.34	51.9	893.44
EO-02	2/9/2000	A	945.34	46.9	898.44
EO-02	5/3/2000	A	945.34	46.95	898.39
EO-02	8/3/2000	A	945.34	54.47	890.87
EO-02	10/25/2000	A	945.34	53.52	891.82
EO-02	2/1/2001	A	945.34	47.73	897.61
EO-02	5/25/2001	A	945.34	47.7	897.64
EO-02	8/1/2001	A	945.34	54.7	890.64
EO-02	10/31/2001	A	945.34	53.15	892.19
EO-02	2/1/2002	A	945.34	49	896.34
EO-02	5/14/2002	A	945.34	50.35	894.99
EO-02	8/1/2002	A	945.34	59.1	886.24
EO-02	11/1/2002	A	945.34	55.5	889.84
EO-02	1/31/2003	A	945.34	51.7	893.64
EO-02	5/1/2003	A	945.34	51.3	894.04
EO-02	8/8/2003	A	945.34	58	887.34
EO-02	10/30/2003	A	945.34	56.37	888.97
EO-02	1/29/2004	A	945.34	52.23	893.11
EO-02	4/30/2004	A	945.34	51.1	894.24
EO-02	7/30/2004	A	945.34	59	886.34
EO-02	11/2/2004	A	945.34	57.6	887.74
EO-02	1/28/2005	A	945.34	51.7	893.64
EO-02	5/6/2005	A	945.34	51	894.34

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EO-02	7/27/2005	A	945.34	56.3	889.04
EO-02	10/28/2005	A	945.34	54.1	891.24
EO-02	1/27/2006	A	945.34	50.77	894.57
EO-02	5/3/2006	A	945.34	50.1	895.24
EO-02	7/27/2006	A	945.34	56.35	888.99
EO-02	10/31/2006	A	945.34	55.2	890.14
EO-02	1/31/2007	A	945.34	52.4	892.94
EO-02	5/1/2007	A	945.34	54.2	891.14
EO-02	8/1/2007	A	945.34	60.2	885.14
EO-02	10/9/2007	A	945.34	61.39	883.95
EO-02	1/8/2008	A	945.34	54.28	891.06
EO-02	4/14/2008	A	945.34	53.92	891.42
EO-02	8/4/2008	A	945.34	59.14	886.2
EO-02	11/17/2008	A	945.34	58.31	887.03
EO-02	2/16/2009	A	945.34	54.15	891.19
EO-02	5/18/2009	A	945.34	55.1	890.24
EO-02	8/24/2009	A	947.4	61.2	886.2
EO-02	11/17/2009	A	947.4	60.13	887.27
EO-02	2/1/2010	A	947.4	55.56	891.84
EO-02	5/3/2010	A	947.4	53.82	893.58
EO-02	8/23/2010	A	947.4	58.32	889.08
EO-02	11/29/2010	A	947.4	56.08	891.32
EO-02	2/3/2011	A	947.4	53.6	893.8
EO-02	5/3/2011	A	947.4	53.85	893.55
EO-02	8/1/2011	A	947.4	60.16	887.24
EO-02	11/2/2011	A	947.4	60.2	887.2
EO-02	2/1/2012	A	946.915	56.4	890.515
EO-02	5/1/2012	A	946.915	56.95	889.965
EO-02	8/2/2012	A	946.915	62.41	884.505
EO-02	11/1/2012	A	946.915	61.82	885.095
EO-02	2/4/2013	A	946.915	57.1	889.815
EO-02	5/1/2013	A	946.915	57.53	889.385
EO-02	8/6/2013	A	947.4	64.35	883.05
EO-02	11/4/2013	A	947.4	63.3	884.1
EO-03	2/1/1990	A	944.89	47.4	897.49
EO-03	2/5/1990	A	944.89	47	897.89
EO-03	2/6/1990	A	944.89	46.85	898.04
EO-03	2/7/1990	A	944.89	45.85	899.04
EO-03	2/8/1990	A	944.99	47	897.99
EO-03	2/9/1990	A	944.99	47.2	897.79
EO-03	2/15/1990	A	944.99	47.1	897.89
EO-03	2/23/1990	A	944.99	44.5	900.49
EO-03	3/1/1990	A	944.99	44.25	900.74
EO-03	3/9/1990	A	944.99	44.1	900.89
EO-03	3/16/1990	A	944.99	45.75	899.24
EO-03	3/21/1990	A	944.99	44.4	900.59
EO-03	4/3/1990	A	944.99	48.35	896.64
EO-03	4/17/1990	A	944.99	48.7	896.29
EO-03	5/22/1990	A	944.99	48.75	896.24
EO-03	6/19/1990	A	944.99	50.45	894.54
EO-03	7/18/1990	A	944.99	50.6	894.39
EO-03	8/17/1990	A	944.99	52.55	892.44
EO-03	9/23/1990	A	944.99	43.5	901.49

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EO-03	10/18/1990	A	944.99	48.9	896.09
EO-03	11/25/1990	A	944.99	47.73	897.26
EO-03	12/18/1990	A	944.99	47.3	897.69
EO-03	1/23/1991	A	944.99	48	896.99
EO-03	2/17/1991	A	944.99	47.3	897.69
EO-03	3/17/1991	A	944.99	47.25	897.74
EO-03	4/22/1991	A	944.99	48.55	896.44
EO-03	5/19/1991	A	944.99	48.2	896.79
EO-03	6/19/1991	A	944.99	50	894.99
EO-03	7/21/1991	A	944.99	53.35	891.64
EO-03	8/18/1991	A	944.99	55.3	889.69
EO-03	9/22/1991	A	944.99	54.4	890.59
EO-03	10/31/1991	A	944.99	48.7	896.29
EO-03	11/17/1991	A	944.99	47.95	897.04
EO-03	2/5/1992	A	944.99	51.8	893.19
EO-03	2/23/1992	A	944.99	47.08	897.91
EO-03	3/30/1992	A	944.89	47.7	897.19
EO-03	5/15/1992	A	944.89	48.35	896.54
EO-03	7/13/1992	A	944.89	50.2	894.69
EO-03	7/31/1992	A	944.89	51.4	893.49
EO-03	8/26/1992	A	944.89	51.15	893.74
EO-03	10/2/1992	A	944.89	49.2	895.69
EO-03	10/27/1992	A	944.89	48.6	896.29
EO-03	11/23/1992	A	944.89	47.9	896.99
EO-03	1/5/1993	A	944.89	47	897.89
EO-03	2/4/1993	A	944.89	42.4	902.49
EO-03	3/15/1993	A	944.89	40.9	903.99
EO-03	4/15/1993	A	944.89	41.2	903.69
EO-03	5/17/1993	A	944.89	43.2	901.69
EO-03	6/11/1993	A	944.89	44.3	900.59
EO-03	7/13/1993	A	944.89	45	899.89
EO-03	8/11/1993	A	944.89	47.5	897.39
EO-03	9/24/1993	A	944.89	46.6	898.29
EO-03	10/28/1993	A	944.89	44.7	900.19
EO-03	11/24/1993	A	944.89	44.4	900.49
EO-03	12/14/1993	A	944.89	43.6	901.29
EO-03	1/28/1994	A	944.89	43.6	901.29
EO-03	2/25/1994	A	944.89	43	901.89
EO-03	3/21/1994	A	944.89	43.8	901.09
EO-03	3/27/1994	A	944.89	42.5	902.39
EO-03	3/31/1994	A	944.89	43.5	901.39
EO-03	4/14/1994	A	944.89	44.8	900.09
EO-03	4/27/1994	A	944.89	45.5	899.39
EO-03	5/25/1994	A	944.89	45.4	899.49
EO-03	6/3/1994	A	944.89	45.5	899.39
EO-03	7/21/1994	A	944.89	49.7	895.19
EO-03	8/25/1994	A	944.89	52.7	892.19
EO-03	9/23/1994	A	944.89	50.5	894.39
EO-03	10/11/1994	A	944.89	49.5	895.39
EO-03	11/18/1994	A	944.89	47.5	897.39
EO-03	12/29/1994	A	944.89	46.6	898.29
EO-03	1/31/1995	A	944.89	45.5	899.39
EO-03	2/24/1995	A	944.89	45.2	899.69

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EO-03	3/31/1995	A	944.89	44.9	899.99
EO-03	4/21/1995	A	944.89	45.5	899.39
EO-03	5/26/1995	A	944.89	45.2	899.69
EO-03	6/23/1995	A	944.89	46.55	898.34
EO-03	7/27/1995	A	944.89	50.2	894.69
EO-03	8/30/1995	A	944.89	50.25	894.64
EO-03	9/29/1995	A	944.89	48.71	896.18
EO-03	1/31/1996	A	944.89	45.26	899.63
EO-03	2/20/1996	A	944.89	45.2	899.69
EO-03	3/30/1996	A	944.89	45.8	899.09
EO-03	4/30/1996	A	944.89	47.05	897.84
EO-03	5/31/1996	A	944.89	47.27	897.62
EO-03	6/28/1996	A	944.89	49.8	895.09
EO-03	7/31/1996	A	944.89	52.35	892.54
EO-03	8/30/1996	A	944.89	53.61	891.28
EO-03	9/28/1996	A	944.89	51.45	893.44
EO-03	10/30/1996	A	944.89	50.09	894.8
EO-03	1/16/1997	A	944.89	47.3	897.59
EO-03	4/30/1997	A	944.89	48.95	895.94
EO-03	7/29/1997	A	944.89	55.45	889.44
EO-03	1/30/1998	A	944.89	49.11	895.78
EO-03	5/8/1998	A	944.89	47.95	898.31
EO-03	7/30/1998	A	944.89	49.47	895.42
EO-03	10/29/1998	A	944.89	47.8	897.09
EO-03	1/29/1999	A	944.89	46.65	898.24
EO-03	4/29/1999	A	944.89	47.96	896.93
EO-03	8/5/1999	A	944.89	52.05	892.84
EO-03	10/13/1999	A	944.89	52.5	892.39
EO-03	2/9/2000	A	944.89	47.9	896.99
EO-03	5/3/2000	A	944.89	48.15	896.74
EO-03	8/3/2000	A	944.89	52.45	892.44
EO-03	10/25/2000	A	944.89	53.25	891.64
EO-03	2/1/2001	A	944.89	48.55	896.34
EO-03	5/25/2001	A	944.89	48.45	896.44
EO-03	8/1/2001	A	944.89	53.5	891.39
EO-03	10/31/2001	A	944.89	52.27	892.62
EO-03	2/1/2002	A	944.89	49	895.89
EO-03	5/14/2002	A	944.89	51.45	893.44
EO-03	8/1/2002	A	944.89	57.78	887.11
EO-03	11/1/2002	A	944.89	54.6	890.29
EO-03	1/31/2003	A	944.89	51.65	893.24
EO-03	5/1/2003	A	944.89	51.45	893.44
EO-03	8/8/2003	A	944.89	56.5	888.39
EO-03	10/30/2003	A	944.89	55	889.89
EO-03	1/29/2004	A	944.89	52.93	891.96
EO-03	4/30/2004	A	944.89	52.2	892.69
EO-03	7/30/2004	A	944.89	58.15	886.74
EO-03	11/2/2004	A	944.89	57.6	887.29
EO-03	1/28/2005	A	944.89	52.5	892.39
EO-03	5/6/2005	A	944.89	51.5	893.39
EO-03	7/27/2005	A	944.89	55.55	889.34
EO-03	10/28/2005	A	944.89	53.75	891.14
EO-03	1/27/2006	A	944.89	51.25	893.64

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EO-03	5/3/2006	A	944.89	51.15	893.74
EO-03	7/27/2006	A	944.89	53.8	891.09
EO-03	10/31/2006	A	944.89	55.05	889.84
EO-03	1/31/2007	A	944.89	52.55	892.34
EO-03	5/1/2007	A	944.89	53	891.89
EO-03	8/1/2007	A	944.89	58.3	886.59
EO-03	10/9/2007	A	944.89	67.07	877.82
EO-03	1/8/2008	A	944.89	53.49	891.4
EO-03	4/14/2008	A	944.89	52.81	892.08
EO-03	8/4/2008	A	944.89	57.17	887.72
EO-03	11/17/2008	A	944.89	56.83	888.06
EO-03	2/16/2009	A	944.89	53.2	891.69
EO-03	5/18/2009	A	944.89	55.15	889.74
EO-03	8/24/2009	A	946.95	60.9	886.05
EO-03	11/17/2009	A	946.95	60.68	886.27
EO-03	2/1/2010	A	946.95	54.41	892.54
EO-03	5/3/2010	A	946.95	55.35	891.6
EO-03	8/23/2010	A	946.95	58.38	888.57
EO-03	11/29/2010	A	946.95	56.95	890
EO-03	2/3/2011	A	946.95	55.5	891.45
EO-03	5/3/2011	A	946.95	54.98	891.97
EO-03	8/1/2011	A	946.95	59.59	887.36
EO-03	11/2/2011	A	946.95	60.05	886.9
EO-03	2/1/2012	A	946.464	57.02	889.444
EO-03	5/1/2012	A	946.464	55.56	890.904
EO-03	8/2/2012	A	946.464	61.34	885.124
EO-03	11/1/2012	A	946.464	61.19	885.274
EO-03	2/4/2013	A	946.464	57.58	888.884
EO-03	5/1/2013	A	946.464	57.41	889.054
EO-03	8/6/2013	A	946.95	62.54	884.41
EO-03	11/4/2013	A	946.95	62.23	884.72
EO-04	2/1/1990	A	946.73	44.71	902.02
EO-04	2/5/1990	A	946.73	44.56	902.17
EO-04	2/6/1990	A	946.73	44.86	901.87
EO-04	2/7/1990	A	946.73	41.96	904.77
EO-04	2/8/1990	A	946.82	44.51	902.31
EO-04	2/9/1990	A	946.82	44.6	902.22
EO-04	2/15/1990	A	946.82	44.65	902.17
EO-04	2/23/1990	A	946.82	44.35	902.47
EO-04	3/1/1990	A	946.82	44.1	902.72
EO-04	3/9/1990	A	946.82	43.7	903.12
EO-04	3/16/1990	A	946.82	45	901.82
EO-04	3/21/1990	A	946.82	43.8	903.02
EO-04	4/3/1990	A	946.82	46	900.82
EO-04	4/17/1990	A	946.82	46.8	900.02
EO-04	5/22/1990	A	946.82	46.85	899.97
EO-04	6/19/1990	A	946.82	46.55	900.27
EO-04	7/18/1990	A	946.82	47.8	899.02
EO-04	8/17/1990	A	946.82	47.9	898.92
EO-04	9/23/1990	A	946.82	43.5	903.32
EO-04	10/18/1990	A	946.82	48.1	898.72
EO-04	11/25/1990	A	946.82	47.4	899.42
EO-04	12/18/1990	A	946.82	46.7	900.12

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EO-04	1/23/1991	A	946.82	47.1	899.72
EO-04	2/17/1991	A	946.82	47.6	899.22
EO-04	3/17/1991	A	946.82	46.4	900.42
EO-04	4/22/1991	A	946.82	47.85	898.97
EO-04	5/19/1991	A	946.82	48.3	898.52
EO-04	6/19/1991	A	946.82	47.05	899.77
EO-04	7/21/1991	A	946.02	50.5	895.52
EO-04	8/18/1991	A	946.02	51.15	894.87
EO-04	9/22/1991	A	946.02	51.9	894.12
EO-04	10/31/1991	A	946.82	47.85	898.97
EO-04	11/17/1991	A	946.82	47.25	899.57
EO-04	2/5/1992	A	946.82	47.3	899.52
EO-04	2/23/1992	A	946.82	48.17	898.65
EO-04	3/30/1992	A	946.73	47.25	899.48
EO-04	5/15/1992	A	946.73	48.15	898.58
EO-04	7/13/1992	A	946.73	48.4	898.33
EO-04	7/31/1992	A	946.73	48.8	897.93
EO-04	8/26/1992	A	946.73	49.32	897.41
EO-04	10/2/1992	A	946.73	48.1	898.63
EO-04	10/27/1992	A	946.73	48.2	898.53
EO-04	11/23/1992	A	946.73	47.6	899.13
EO-04	1/5/1993	A	946.73	46.8	899.93
EO-04	2/4/1993	A	946.73	45	901.73
EO-04	3/15/1993	A	946.73	43.5	903.23
EO-04	4/15/1993	A	946.73	43	903.73
EO-04	5/17/1993	A	946.73	42.5	904.23
EO-04	6/11/1993	A	946.73	42.9	903.83
EO-04	7/13/1993	A	946.73	43.7	903.03
EO-04	8/11/1993	A	946.73	44.8	901.93
EO-04	9/24/1993	A	946.73	45.1	901.63
EO-04	10/28/1993	A	946.73	44	902.73
EO-04	11/24/1993	A	946.73	43.6	903.13
EO-04	12/14/1993	A	946.73	43	903.73
EO-04	1/28/1994	A	946.73	43.8	902.93
EO-04	2/25/1994	A	946.73	43.5	903.23
EO-04	3/21/1994	A	946.73	43.6	903.13
EO-04	3/27/1994	A	946.73	43.6	903.13
EO-04	3/31/1994	A	946.73	43.7	903.03
EO-04	4/14/1994	A	946.73	44	902.73
EO-04	4/27/1994	A	946.73	44.6	902.13
EO-04	5/25/1994	A	946.73	45.2	901.53
EO-04	6/3/1994	A	946.73	45.4	901.33
EO-04	7/21/1994	A	946.73	48.5	898.23
EO-04	8/25/1994	A	946.73	49.4	897.33
EO-04	9/23/1994	A	946.73	49.3	897.43
EO-04	10/11/1994	A	946.73	46.6	900.13
EO-04	11/18/1994	A	946.73	48	898.73
EO-04	12/29/1994	A	946.73	47.8	898.93
EO-04	1/31/1995	A	946.73	47	899.73
EO-04	2/24/1995	A	946.73	44.4	902.33
EO-04	3/31/1995	A	946.73	45.6	901.13
EO-04	4/21/1995	A	946.73	45.8	900.93
EO-04	5/26/1995	A	946.73	45.6	901.13

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EO-04	6/23/1995	A	946.73	46.12	900.61
EO-04	7/27/1995	A	946.73	48.18	898.55
EO-04	8/30/1995	A	946.73	49.11	897.62
EO-04	9/29/1995	A	946.73	48.48	898.25
EO-04	1/31/1996	A	946.73	45.63	901.1
EO-04	2/20/1996	A	946.73	45.57	901.16
EO-04	3/30/1996	A	946.73	45.31	901.42
EO-04	4/30/1996	A	946.73	46.51	900.22
EO-04	5/31/1996	A	946.73	46.91	899.82
EO-04	6/28/1996	A	946.73	48.23	898.5
EO-04	7/31/1996	A	946.73	50.02	896.71
EO-04	8/30/1996	A	946.73	50.68	896.05
EO-04	9/28/1996	A	946.73	50.6	896.13
EO-04	10/30/1996	A	946.73	49.95	896.78
EO-04	1/16/1997	A	946.73	47.76	898.97
EO-04	4/30/1997	A	946.73	48.24	898.49
EO-04	7/29/1997	A	946.73	52.59	894.14
EO-04	1/30/1998	A	946.73	50.11	896.62
EO-04	5/8/1998	A	946.73	48.65	898.78
EO-04	7/30/1998	A	946.73	49.3	897.43
EO-04	10/29/1998	A	946.73	48.7	898.03
EO-04	1/29/1999	A	946.73	47.9	898.83
EO-04	4/29/1999	A	946.73	48.65	898.08
EO-04	8/5/1999	A	946.73	50.4	896.33
EO-04	10/13/1999	A	946.73	52.15	894.58
EO-04	2/9/2000	A	946.73	48.17	898.56
EO-04	5/3/2000	A	946.73	49	897.73
EO-04	8/3/2000	A	946.73	51.73	895
EO-04	10/25/2000	A	946.73	52.2	894.53
EO-04	2/1/2001	A	946.73	49.45	897.28
EO-04	5/25/2001	A	946.73	48.35	898.38
EO-04	8/1/2001	A	946.73	50.68	896.05
EO-04	10/31/2001	A	946.73	51.65	895.08
EO-04	2/1/2002	A	946.73	49.7	897.03
EO-04	5/14/2002	A	946.73	50.6	896.13
EO-04	8/1/2002	A	946.73	53.35	893.38
EO-04	11/1/2002	A	946.73	53.25	893.48
EO-04	1/31/2003	A	946.73	52	894.73
EO-04	5/1/2003	A	946.73	51.85	894.88
EO-04	8/8/2003	A	946.73	55.9	890.83
EO-04	10/30/2003	A	946.73	55.97	890.76
EO-04	1/29/2004	A	946.73	53.53	893.2
EO-04	4/30/2004	A	946.73	53	893.73
EO-04	7/30/2004	A	946.73	54.9	891.83
EO-04	11/2/2004	A	946.73	56.6	890.13
EO-04	1/28/2005	A	946.73	53.2	893.53
EO-04	5/6/2005	A	946.73	51.7	895.03
EO-04	7/27/2005	A	946.73	54.1	892.63
EO-04	10/28/2005	A	946.73	51.7	895.03
EO-04	1/27/2006	A	946.73	51.58	895.15
EO-04	5/3/2006	A	946.73	49.1	897.63
EO-04	7/27/2006	A	946.73	50.35	896.38
EO-04	10/31/2006	A	946.73	54.5	892.23

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EO-04	1/31/2007	A	946.73	53.5	893.23
EO-04	5/1/2007	A	946.73	52.2	894.53
EO-04	8/1/2007	A	946.73	56.25	890.48
EO-04	10/9/2007	A	946.73	58.43	888.3
EO-04	1/8/2008	A	946.73	54.25	892.48
EO-04	4/14/2008	A	946.73	55.31	891.42
EO-04	8/4/2008	A	946.73	57.7	889.03
EO-04	11/17/2008	A	946.73	58.33	888.4
EO-04	2/16/2009	A	946.73	56.39	890.34
EO-04	5/18/2009	A	946.73	56.55	890.18
EO-04	8/24/2009	A	948.79	59.35	889.44
EO-04	11/17/2009	A	948.79	59.5	889.29
EO-04	2/1/2010	A	948.79	58.02	890.77
EO-04	5/3/2010	A	948.79	55.48	893.31
EO-04	8/23/2010	A	948.79	56.92	891.87
EO-04	11/29/2010	A	948.79	56.71	892.08
EO-04	2/3/2011	A	948.79	55.47	893.32
EO-04	5/3/2011	A	948.79	54.28	894.51
EO-04	8/1/2011	A	948.79	57.85	890.94
EO-04	11/2/2011	A	948.79	59.24	889.55
EO-04	2/1/2012	A	948.297	57.27	891.027
EO-04	5/1/2012	A	948.297	55.39	892.907
EO-04	8/2/2012	A	948.297	58.96	889.337
EO-04	11/1/2012	A	948.297	59.76	888.537
EO-04	2/4/2013	A	948.297	57.95	890.347
EO-04	5/1/2013	A	948.297	57.47	890.827
EO-04	8/6/2013	A	948.79	60.3	888.49
EO-04	11/4/2013	A	948.79	61	887.79
EO-05	2/1/1990	A	950.09	47.19	902.9
EO-05	2/5/1990	A	950.09	47.15	902.94
EO-05	2/6/1990	A	950.09	47.14	902.95
EO-05	2/7/1990	A	950.09	47.04	903.05
EO-05	2/8/1990	A	950.09	47.09	903
EO-05	2/9/1990	A	950.1	47.15	902.95
EO-05	2/15/1990	A	950.1	47.2	902.9
EO-05	2/23/1990	A	950.1	46.75	903.35
EO-05	3/1/1990	A	950.1	46.75	903.35
EO-05	3/9/1990	A	950.1	46.1	904
EO-05	3/16/1990	A	950.1	46.7	903.4
EO-05	3/21/1990	A	950.1	46.1	904
EO-05	4/3/1990	A	950.1	47.05	903.05
EO-05	4/17/1990	A	950.1	47.7	902.4
EO-05	5/22/1990	A	950.1	48	902.1
EO-05	6/19/1990	A	950.1	47.7	902.4
EO-05	7/18/1990	A	950.1	49.15	900.95
EO-05	8/17/1990	A	950.1	49.85	900.25
EO-05	9/23/1990	A	950.1	49.7	900.4
EO-05	10/18/1990	A	950.1	48.4	901.7
EO-05	11/25/1990	A	950.1	48.1	902
EO-05	12/18/1990	A	950.1	47.8	902.3
EO-05	1/23/1991	A	950.1	48.6	901.5
EO-05	2/17/1991	A	950.1	48.5	901.6
EO-05	3/17/1991	A	950.1	48.3	901.8

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EO-05	4/22/1991	A	950.1	48.4	901.7
EO-05	5/19/1991	A	950.1	48.95	901.15
EO-05	6/19/1991	A	950.1	48.5	901.6
EO-05	7/21/1991	A	950.1	49.95	900.15
EO-05	8/18/1991	A	950.1	51.15	898.95
EO-05	9/22/1991	A	950.1	51.8	898.3
EO-05	10/31/1991	A	950.1	50	900.1
EO-05	11/17/1991	A	950.1	49.5	900.6
EO-05	2/5/1992	A	950.1	49.3	900.8
EO-05	2/23/1992	A	950.1	49.25	900.85
EO-05	3/30/1992	A	950.09	47.4	902.69
EO-05	4/22/1992	A	950.09	47.35	902.74
EO-05	5/15/1992	A	950.09	48.55	901.54
EO-05	7/13/1992	A	950.09	49.9	900.19
EO-05	7/31/1992	A	950.09	49.3	900.79
EO-05	8/26/1992	A	950.09	49.6	900.49
EO-05	10/2/1992	A	950.09	49	901.09
EO-05	10/27/1992	A	950.09	48.7	901.39
EO-05	11/23/1992	A	950.09	48.4	901.69
EO-05	1/5/1993	A	950.09	47.7	902.39
EO-05	2/4/1993	A	950.09	47	903.09
EO-05	3/15/1993	A	950.09	45.7	904.39
EO-05	4/15/1993	A	950.09	45	905.09
EO-05	5/17/1993	A	950.09	44.2	905.89
EO-05	6/11/1993	A	950.09	44.5	905.59
EO-05	7/13/1993	A	950.09	44.3	905.79
EO-05	8/11/1993	A	950.09	45.1	904.99
EO-05	9/24/1993	A	950.09	45.7	904.39
EO-05	10/28/1993	A	950.09	45.1	904.99
EO-05	11/24/1993	A	950.09	44.8	905.29
EO-05	12/14/1993	A	950.09	43.8	906.29
EO-05	1/28/1994	A	950.09	45.2	904.89
EO-05	2/25/1994	A	950.09	45.1	904.99
EO-05	3/21/1994	A	950.09	45	905.09
EO-05	3/27/1994	A	950.09	45.1	904.99
EO-05	3/31/1994	A	950.09	45.1	904.99
EO-05	4/14/1994	A	950.09	45.4	904.69
EO-05	4/27/1994	A	950.09	45.8	904.29
EO-05	5/25/1994	A	950.09	46.1	903.99
EO-05	6/3/1994	A	950.09	46.2	903.89
EO-05	7/21/1994	A	950.09	48	902.09
EO-05	8/25/1994	A	950.09	49.4	900.69
EO-05	9/23/1994	A	950.09	49.5	900.59
EO-05	10/11/1994	A	950.09	49	901.09
EO-05	11/18/1994	A	950.09	49.1	900.99
EO-05	12/29/1994	A	950.09	48.8	901.29
EO-05	1/31/1995	A	950.09	48.4	901.69
EO-05	2/24/1995	A	950.09	47.8	902.29
EO-05	3/31/1995	A	950.09	47.2	902.89
EO-05	4/21/1995	A	950.09	47.3	902.79
EO-05	5/26/1995	A	950.09	47.2	902.89
EO-05	6/23/1995	A	950.09	47.48	902.61
EO-05	7/27/1995	A	950.09	48.74	901.35

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EO-05	8/30/1995	A	950.09	49.66	900.43
EO-05	9/29/1995	A	950.09	49.41	900.68
EO-05	1/31/1996	A	950.09	47.74	902.35
EO-05	2/20/1996	A	950.09	47.75	902.34
EO-05	3/30/1996	A	950.09	47.35	902.74
EO-05	4/30/1996	A	950.09	48.32	901.77
EO-05	5/31/1996	A	950.09	48.6	901.49
EO-05	6/28/1996	A	950.09	49.31	900.78
EO-05	7/31/1996	A	950.09	50.42	899.67
EO-05	8/30/1996	A	950.09	51.15	898.94
EO-05	9/28/1996	A	950.09	51.23	898.86
EO-05	10/30/1996	A	950.09	50.95	899.14
EO-05	1/16/1997	A	950.09	49.16	900.93
EO-05	4/30/1997	A	950.09	49.45	900.64
EO-05	7/29/1997	A	950.09	52.32	897.77
EO-05	1/30/1998	A	950.09	51.43	898.66
EO-05	5/8/1998	A	950.09	50.03	901.44
EO-05	7/30/1998	A	950.09	50.25	899.84
EO-05	10/29/1998	A	950.09	49.9	900.19
EO-05	1/29/1999	A	950.09	49.27	900.82
EO-05	4/29/1999	A	950.09	49.92	900.17
EO-05	8/5/1999	A	950.09	51.35	898.74
EO-05	10/13/1999	A	950.09	53	897.09
EO-05	2/9/2000	A	950.09	50.57	899.52
EO-05	5/3/2000	A	950.09	50.6	899.49
EO-05	8/3/2000	A	950.09	52.05	898.04
EO-05	10/25/2000	A	950.09	52.95	897.14
EO-05	2/1/2001	A	950.09	51.45	898.64
EO-05	5/25/2001	A	950.09	50.15	899.94
EO-05	8/1/2001	A	950.09	51.5	898.59
EO-05	10/31/2001	A	950.09	52.35	897.74
EO-05	2/1/2002	A	950.09	51.4	898.69
EO-05	5/14/2002	A	950.09	51.77	898.32
EO-05	8/1/2002	A	950.09	53.15	896.94
EO-05	11/1/2002	A	950.09	53.7	896.39
EO-05	1/31/2003	A	950.09	53.2	896.89
EO-05	5/1/2003	A	950.09	52	898.09
EO-05	8/8/2003	A	950.09	54.1	895.99
EO-05	10/30/2003	A	950.09	54.15	895.94
EO-05	1/29/2004	A	950.09	54.35	895.74
EO-05	4/30/2004	A	950.09	53.75	896.34
EO-05	7/30/2004	A	950.09	53.9	896.19
EO-05	11/2/2004	A	950.09	56.35	893.74
EO-05	1/28/2005	A	950.09	55.1	894.99
EO-05	5/6/2005	A	950.09	53.9	896.19
EO-05	7/27/2005	A	950.09	54.1	895.99
EO-05	10/28/2005	A	950.09	54	896.09
EO-05	1/27/2006	A	950.09	53.3	896.79
EO-05	5/3/2006	A	950.09	52.7	897.39
EO-05	7/27/2006	A	950.09	51.95	898.14
EO-05	10/31/2006	A	950.09	54.25	895.84
EO-05	1/31/2007	A	950.09	54.35	895.74
EO-05	5/1/2007	A	950.09	54.75	895.34

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EO-05	8/1/2007	A	950.09	57.8	892.29
EO-05	10/9/2007	A	950.09	61.45	888.64
EO-05	1/8/2008	A	950.09	57.34	892.75
EO-05	8/4/2008	A	950.09	59.86	890.23
EO-05	11/17/2008	A	950.09	61.87	888.22
EO-05	2/16/2009	A	950.09	59	891.09
EO-05	5/18/2009	A	950.09	59.9	890.19
EO-05	8/24/2009	A	952.15	61.75	890.4
EO-05	11/17/2009	A	952.15	62.13	890.02
EO-05	2/1/2010	A	952.15	61.23	890.92
EO-05	5/3/2010	A	952.15	58.74	893.41
EO-05	8/23/2010	A	952.15	58.89	893.26
EO-05	11/29/2010	A	952.15	59.21	892.94
EO-05	2/3/2011	A	952.15	58.53	893.62
EO-05	5/3/2011	A	952.15	57.9	894.25
EO-05	8/1/2011	A	952.15	60.2	891.95
EO-05	11/2/2011	A	952.15	63.02	889.13
EO-05	2/1/2012	A	943.506	60.52	882.986
EO-05	5/1/2012	A	951.651	57.91	893.741
EO-05	8/2/2012	A	951.651	60.17	891.481
EO-05	11/1/2012	A	951.651	61.22	890.431
EO-05	2/4/2013	A	951.651	60.1	891.551
EO-05	5/1/2013	A	951.651	59.65	892.001
EO-05	8/6/2013	A	952.15	61.79	890.36
EO-05	11/4/2013	A	952.15	62.82	889.33
EO-07	4/22/1992	A	957.87	52.6	905.27
EO-07	5/14/1992	A	957.87	52.7	905.17
EO-07	8/24/1992	A	957.87	53.05	904.82
EO-07	10/2/1992	A	957.87	51.7	906.17
EO-07	10/27/1992	A	957.87	51.7	906.17
EO-07	11/23/1992	A	957.87	52.1	905.77
EO-07	1/5/1993	A	957.87	52.4	905.47
EO-07	1/8/1993	A	957.87	51.7	906.17
EO-07	2/4/1993	A	957.87	51.7	906.17
EO-07	3/15/1993	A	957.87	50.1	907.77
EO-07	4/15/1993	A	957.87	49	908.87
EO-07	5/18/1993	A	957.87	47.8	910.07
EO-07	6/10/1993	A	957.87	47.7	910.17
EO-07	7/14/1993	A	957.87	47.6	910.27
EO-07	8/11/1993	A	957.87	47.9	909.97
EO-07	9/24/1993	A	957.87	48.6	909.27
EO-07	10/28/1993	A	957.87	48.6	909.27
EO-07	11/24/1993	A	957.87	48.7	909.17
EO-07	12/14/1993	A	957.87	48.4	909.47
EO-07	1/28/1994	A	957.87	49.1	908.77
EO-07	2/25/1994	A	957.87	49.1	908.77
EO-07	3/23/1994	A	957.87	49	908.87
EO-07	3/27/1994	A	957.87	49.1	908.77
EO-07	3/31/1994	A	957.87	49.1	908.77
EO-07	4/14/1994	A	957.87	49.4	908.47
EO-07	4/27/1994	A	957.87	50	907.87
EO-07	5/27/1994	A	957.87	49.6	908.27
EO-07	6/3/1994	A	957.87	49.9	907.97

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EO-07	7/22/1994	A	957.87	53.3	904.57
EO-07	8/25/1994	A	957.87	54.6	903.27
EO-07	9/22/1994	A	957.87	52.9	904.97
EO-07	10/11/1994	A	957.87	53.7	904.17
EO-07	11/18/1994	A	957.87	54.4	903.47
EO-07	12/29/1994	A	957.87	54.3	903.57
EO-07	1/31/1995	A	957.87	54	903.87
EO-07	2/24/1995	A	957.87	53.6	904.27
EO-07	3/31/1995	A	957.87	52.5	905.37
EO-07	4/21/1995	A	957.87	52.4	905.47
EO-07	5/26/1995	A	957.87	52.1	905.77
EO-07	6/23/1995	A	957.87	52.28	905.59
EO-07	7/27/1995	A	957.87	53.3	904.57
EO-07	8/30/1995	A	957.87	54.2	903.67
EO-07	9/29/1995	A	957.87	53.83	904.04
EO-07	10/27/1995	A	957.87	53.9	903.97
EO-07	11/28/1995	A	957.87	53.75	904.12
EO-07	12/30/1995	A	957.87	53.62	904.25
EO-07	1/31/1996	A	957.87	53.4	904.47
EO-07	2/20/1996	A	957.87	53.4	904.47
EO-07	3/30/1996	A	957.87	53.04	904.83
EO-07	4/29/1996	A	957.87	53.96	903.91
EO-07	5/31/1996	A	957.87	54.21	903.66
EO-07	6/28/1996	A	957.87	54.6	903.27
EO-07	7/31/1996	A	957.87	55.54	902.33
EO-07	8/30/1996	A	957.87	56.27	901.6
EO-07	9/28/1996	A	957.87	56.55	901.32
EO-07	10/30/1996	A	957.87	55.62	902.25
EO-07	1/15/1997	A	957.87	54.71	903.16
EO-07	4/29/1997	A	957.87	55.34	902.53
EO-07	7/31/1997	A	957.87	58	899.87
EO-07	1/29/1998	A	957.87	57.55	900.32
EO-07	5/8/1998	A	957.87	55.8	907.84
EO-07	7/29/1998	A	957.87	55.45	902.42
EO-07	10/29/1998	A	957.87	55	902.87
EO-07	1/28/1999	A	957.87	54.78	903.09
EO-07	4/28/1999	A	957.87	55.55	902.32
EO-07	8/4/1999	A	957.87	56.95	900.92
EO-07	10/13/1999	A	957.87	57.25	900.62
EO-07	2/9/2000	A	957.87	56.5	901.37
EO-07	5/2/2000	A	957.87	56.5	901.37
EO-07	8/2/2000	A	957.87	58.45	899.42
EO-07	10/25/2000	A	957.87	59.3	898.57
EO-07	1/31/2001	A	957.87	57.97	899.9
EO-07	5/24/2001	A	957.87	55.7	902.17
EO-07	7/31/2001	A	957.87	57	900.87
EO-07	10/30/2001	A	957.87	57.6	900.27
EO-07	1/31/2002	A	957.87	57.1	900.77
EO-07	5/14/2002	A	957.87	58.1	899.77
EO-07	7/31/2002	A	957.87	59.35	898.52
EO-07	10/31/2002	A	957.87	60.2	897.67
EO-07	1/30/2003	A	957.87	60	897.87
EO-07	4/29/2003	A	957.87	59.45	898.42

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EO-07	8/8/2003	A	957.87	61.7	896.17
EO-07	10/29/2003	A	957.87	60.6	897.27
EO-07	1/28/2004	A	957.87	61.45	896.42
EO-07	4/30/2004	A	957.87	60.13	897.74
EO-07	7/30/2004	A	957.87	60.27	897.6
EO-07	11/2/2004	A	957.87	63.05	894.82
EO-07	1/28/2005	A	957.87	63.05	894.82
EO-07	5/5/2005	A	957.87	61.5	896.37
EO-07	7/26/2005	A	957.87	60.23	897.64
EO-07	10/27/2005	A	957.87	60.4	897.47
EO-07	1/27/2006	A	957.87	59.9	897.97
EO-07	5/3/2006	A	957.87	59.1	898.77
EO-07	7/26/2006	A	957.87	58.7	899.17
EO-07	10/31/2006	A	957.87	62.15	895.72
EO-07	1/29/2007	A	957.87	62.35	895.52
EO-07	5/2/2007	A	957.87	62.9	894.97
EO-07	7/31/2007	A	957.87	65	892.87
EO-07	10/11/2007	A	957.87	68.1	889.77
EO-07	1/8/2008	A	957.87	63.55	894.32
EO-07	8/1/2008	A	957.87	65.19	892.68
EO-07	11/18/2008	A	957.87	65.94	891.93
EO-07	2/16/2009	A	957.87	65.03	892.84
EO-07	5/19/2009	A	957.87	65.39	892.48
EO-07	8/25/2009	A	959.93	66.75	893.18
EO-07	11/18/2009	A	959.93	67.35	892.58
EO-07	2/1/2010	A	959.93	66.88	893.05
EO-07	5/3/2010	A	959.93	64.79	895.14
EO-07	8/2/2012	A	959.378	68.46	890.918
EO-07	11/2/2012	A	959.378	69.64	889.738
EO-07	2/4/2013	A	959.378	69.15	890.228
EO-07	5/1/2013	A	959.378	69.41	889.968
EO-07	8/6/2013	A	959.93	70.57	889.36
EO-07	11/4/2013	A	959.93	71.66	888.27
EO-08	3/30/1992	A	959.12	53	906.12
EO-08	4/22/1992	A	959.12	52.7	906.42
EO-08	5/14/1992	A	959.12	53.33	905.79
EO-08	7/23/1992	A	959.12	52.5	906.62
EO-08	7/29/1992	A	959.12	52.5	906.62
EO-08	8/24/1992	A	959.12	52.1	907.02
EO-08	10/2/1992	A	959.12	51.3	907.82
EO-08	10/27/1992	A	959.12	51.3	907.82
EO-08	11/23/1992	A	959.12	51.1	908.02
EO-08	1/8/1993	A	959.12	50.6	908.52
EO-08	2/4/1993	A	959.12	51.4	907.72
EO-08	3/15/1993	A	959.12	49	910.12
EO-08	4/15/1993	A	959.12	47.8	911.32
EO-08	5/18/1993	A	959.12	46.8	912.32
EO-08	6/10/1993	A	959.12	46.7	912.42
EO-08	7/14/1993	A	959.12	46.9	912.22
EO-08	8/11/1993	A	959.12	47.4	911.72
EO-08	9/24/1993	A	959.12	47.9	911.22
EO-08	10/28/1993	A	959.12	48.2	910.92
EO-08	11/24/1993	A	959.12	48.2	910.92

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EO-08	12/14/1993	A	959.12	47.9	911.22
EO-08	1/28/1994	A	959.12	48.5	910.62
EO-08	2/25/1994	A	959.12	48.5	910.62
EO-08	3/23/1994	A	959.12	48.5	910.62
EO-08	3/27/1994	A	959.12	48.6	910.52
EO-08	3/31/1994	A	959.12	48.7	910.42
EO-08	4/14/1994	A	959.12	49.1	910.02
EO-08	4/27/1994	A	959.12	49.6	909.52
EO-08	5/27/1994	A	959.12	49.5	909.62
EO-08	6/3/1994	A	959.12	49.8	909.32
EO-08	7/22/1994	A	959.12	52.8	906.32
EO-08	8/25/1994	A	959.12	54.3	904.82
EO-08	9/22/1994	A	959.12	52.9	906.22
EO-08	10/11/1994	A	959.12	53.8	905.32
EO-08	11/18/1994	A	959.12	53.8	905.32
EO-08	12/29/1994	A	959.12	54	905.12
EO-08	1/31/1995	A	959.12	53.7	905.42
EO-08	2/24/1995	A	959.12	53.3	905.82
EO-08	3/30/1995	A	959.12	51.3	907.82
EO-08	4/21/1995	A	959.12	51.2	907.92
EO-08	5/26/1995	A	959.12	50.8	908.32
EO-08	6/23/1995	A	959.12	50.87	908.25
EO-08	7/27/1995	A	959.12	51.81	907.31
EO-08	8/30/1995	A	959.12	52.76	906.36
EO-08	9/29/1995	A	959.12	52.65	906.47
EO-08	10/27/1995	A	959.12	52.46	906.66
EO-08	11/28/1995	A	959.12	52.32	906.8
EO-08	12/30/1995	A	959.12	52.13	906.99
EO-08	1/31/1996	A	959.12	52.03	907.09
EO-08	2/20/1996	A	959.12	52	907.12
EO-08	3/30/1996	A	959.12	52.02	907.1
EO-08	4/29/1996	A	959.12	52.7	906.42
EO-08	5/31/1996	A	959.12	52.95	906.17
EO-08	6/28/1996	A	959.12	53.52	905.6
EO-08	7/31/1996	A	959.12	54.45	904.67
EO-08	8/30/1996	A	959.12	55.5	903.62
EO-08	9/28/1996	A	959.12	55.61	903.51
EO-08	10/29/1996	A	959.12	55.46	903.66
EO-08	1/15/1997	A	959.12	54.21	904.91
EO-08	4/29/1997	A	959.12	54.6	904.52
EO-08	7/29/1997	A	959.12	57.81	901.31
EO-08	1/29/1998	A	959.12	57.13	901.99
EO-08	5/8/1998	A	959.12	55.4	903.72
EO-08	7/28/1998	A	959.12	54.85	904.27
EO-08	10/29/1998	A	959.12	54.6	904.52
EO-08	1/28/1999	A	959.12	54.22	904.9
EO-08	4/28/1999	A	959.12	55.15	903.97
EO-08	8/4/1999	A	959.12	57.2	901.92
EO-08	10/13/1999	A	959.12	57.35	901.77
EO-08	2/9/2000	A	959.12	56.54	902.58
EO-08	5/2/2000	A	959.12	57.25	901.87
EO-08	8/2/2000	A	959.12	58.97	900.15
EO-08	10/25/2000	A	959.12	59.9	899.22

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EO-08	1/31/2001	A	959.12	57.8	901.32
EO-08	5/24/2001	A	959.12	56.7	902.42
EO-08	7/31/2001	A	959.12	57.4	901.72
EO-08	10/31/2001	A	959.12	58.05	901.07
EO-08	1/31/2002	A	959.12	57.55	901.57
EO-08	5/14/2002	A	959.12	58.97	900.15
EO-08	7/31/2002	A	959.12	60.37	898.75
EO-08	10/31/2002	A	959.12	61.47	897.65
EO-08	1/30/2003	A	959.12	60.25	898.87
EO-08	4/29/2003	A	959.12	60.1	899.02
EO-08	8/7/2003	A	959.12	61.9	897.22
EO-08	10/29/2003	A	959.12	62.15	896.97
EO-08	1/28/2004	A	959.12	62	897.12
EO-08	4/28/2004	A	959.12	61.7	897.42
EO-08	7/30/2004	A	959.12	61.55	897.57
EO-08	1/27/2005	A	959.12	62.4	896.72
EO-08	5/5/2005	A	959.12	60.8	898.32
EO-08	7/26/2005	A	959.12	60.5	898.62
EO-08	10/27/2005	A	959.12	60.15	898.97
EO-08	1/26/2006	A	959.12	59.7	899.42
EO-08	5/2/2006	A	959.12	59.6	899.52
EO-08	7/25/2006	A	959.12	60	899.12
EO-08	10/30/2006	A	959.12	61.3	897.82
EO-08	1/29/2007	A	959.12	61.25	897.87
EO-08	5/1/2007	A	959.12	61.9	897.22
EO-10	7/23/1992	A	961.22	54.3	906.92
EO-10	7/29/1992	A	961.22	54.3	906.92
EO-10	10/2/1992	A	961.22	53.1	908.12
EO-10	10/27/1992	A	961.22	53.1	908.12
EO-10	11/23/1992	A	961.22	53.1	908.12
EO-10	1/8/1993	A	961.22	53.7	907.52
EO-10	2/4/1993	A	961.22	53.9	907.32
EO-10	3/15/1993	A	961.22	52.3	908.92
EO-10	4/15/1993	A	961.22	50.7	910.52
EO-10	5/18/1993	A	961.22	48.7	912.52
EO-10	6/10/1993	A	961.22	48.9	912.32
EO-10	7/14/1993	A	961.22	49.9	911.32
EO-10	8/11/1993	A	961.22	50.3	910.92
EO-10	9/24/1993	A	961.22	50.6	910.62
EO-10	10/28/1993	A	961.22	50.8	910.42
EO-10	11/24/1993	A	961.22	50.9	910.32
EO-10	12/14/1993	A	961.22	49.86	911.36
EO-10	1/28/1994	A	961.22	51	910.22
EO-10	2/25/1994	A	961.22	50.7	910.52
EO-10	3/23/1994	A	961.22	50.4	910.82
EO-10	3/27/1994	A	961.22	50.6	910.62
EO-10	3/31/1994	A	961.22	51.2	910.02
EO-10	4/14/1994	A	961.22	51.6	909.62
EO-10	4/27/1994	A	961.22	52	909.22
EO-10	5/27/1994	A	961.22	50.3	910.92
EO-10	6/3/1994	A	961.22	52.4	908.82
EO-10	7/22/1994	A	961.22	54.8	906.42
EO-10	8/25/1994	A	961.22	56.2	905.02

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EO-10	9/22/1994	A	961.22	55.3	905.92
EO-10	10/11/1994	A	961.22	54.7	906.52
EO-10	11/18/1994	A	961.22	55	906.22
EO-10	12/29/1994	A	961.22	56.2	905.02
EO-10	1/31/1995	A	961.22	56	905.22
EO-10	2/24/1995	A	961.22	55.6	905.62
EO-10	3/31/1995	A	961.22	54.3	906.92
EO-10	4/21/1995	A	961.22	54.2	907.02
EO-10	5/26/1995	A	961.22	53.7	907.52
EO-10	6/23/1995	A	961.22	53.75	907.47
EO-10	7/27/1995	A	961.22	54.5	906.72
EO-10	8/30/1995	A	961.22	55.4	905.82
EO-10	9/29/1995	A	961.22	55.26	905.96
EO-10	10/27/1995	A	961.22	55.5	905.72
EO-10	11/28/1995	A	961.22	55.18	906.04
EO-10	12/30/1995	A	961.22	55.08	906.14
EO-10	1/31/1996	A	961.22	55.05	906.17
EO-10	2/20/1996	A	961.22	54.8	906.42
EO-10	3/30/1996	A	961.22	54.6	906.62
EO-10	4/29/1996	A	961.22	55.25	905.97
EO-10	5/31/1996	A	961.22	55.15	906.07
EO-10	6/28/1996	A	961.22	54.92	906.3
EO-10	7/31/1996	A	961.22	55.83	905.39
EO-10	8/30/1996	A	961.22	57.32	903.9
EO-10	9/28/1996	A	961.22	57.69	903.53
EO-10	10/29/1996	A	961.22	57.62	903.6
EO-10	1/15/1997	A	961.22	56.26	904.96
EO-10	4/29/1997	A	961.22	56.64	904.58
EO-10	7/29/1997	A	961.22	59.75	901.47
EO-10	1/29/1998	A	961.22	59.5	901.72
EO-10	5/8/1998	A	961.22	57.65	903.57
EO-10	7/29/1998	A	961.22	57	904.22
EO-10	10/29/1998	A	961.22	56.85	904.37
EO-10	1/28/1999	A	961.22	56.46	904.76
EO-10	4/28/1999	A	961.22	57.45	903.77
EO-10	8/4/1999	A	961.22	60.8	900.42
EO-10	10/13/1999	A	961.22	59.6	901.62
EO-10	2/9/2000	A	961.22	58.67	902.55
EO-10	5/2/2000	A	961.22	58.6	902.62
EO-10	8/2/2000	A	961.22	59.75	901.47
EO-10	10/25/2000	A	961.22	60.6	900.62
EO-10	1/31/2001	A	961.22	59.1	902.12
EO-10	5/24/2001	A	961.22	57.25	903.97
EO-10	7/31/2001	A	961.22	58.3	902.92
EO-10	10/30/2001	A	961.22	59.9	901.32
EO-10	1/30/2002	A	961.22	59.1	902.12
EO-10	5/14/2002	A	961.22	60.05	901.17
EO-10	7/31/2002	A	961.22	61.92	899.3
EO-10	10/31/2002	A	961.22	62.8	898.42
EO-10	1/30/2003	A	961.22	62.2	899.02
EO-10	4/29/2003	A	961.22	61.5	899.72
EO-10	8/7/2003	A	961.22	63.18	898.04
EO-10	10/29/2003	A	961.22	63.2	898.02

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EO-10	1/28/2004	A	961.22	63	898.22
EO-10	4/28/2004	A	961.22	62.72	898.5
EO-10	7/30/2004	A	961.22	63.1	898.12
EO-10	11/2/2004	A	961.22	64.75	896.47
EO-10	1/28/2005	A	961.22	64.4	896.82
EO-10	5/5/2005	A	961.22	62.4	898.82
EO-10	7/26/2005	A	961.22	62	899.22
EO-10	10/27/2005	A	961.22	61.8	899.42
EO-10	1/27/2006	A	961.22	61.25	899.97
EO-10	5/2/2006	A	961.22	61.32	899.9
EO-10	7/26/2006	A	961.22	61.7	899.52
EO-10	10/30/2006	A	961.22	62.8	898.42
EO-10	1/29/2007	A	961.22	62.9	898.32
EO-10	5/2/2007	A	961.22	63.55	897.67
EO-10	7/31/2007	A	961.22	65.5	895.72
EO-10	1/8/2008	A	961.22	66.14	895.08
EO-10	4/14/2008	A	961.22	64.67	896.55
EO-10	8/4/2008	A	961.22	65.81	895.41
EO-10	11/17/2008	A	961.22	66.24	894.98
EO-12	4/22/1992	A	956.72	50.8	905.92
EO-12	5/14/1992	A	956.72	50.6	906.12
EO-12	7/23/1992	A	956.72	50.7	906.02
EO-12	7/29/1992	A	956.72	50.7	906.02
EO-12	8/24/1992	A	956.72	51.2	905.52
EO-12	10/2/1992	A	956.72	49.5	907.22
EO-12	10/27/1992	A	956.72	49.5	907.22
EO-12	11/23/1992	A	956.72	51.1	905.62
EO-12	12/1/1992	A	956.72	49.8	906.92
EO-12	12/9/1992	A	956.72	50.8	905.92
EO-12	12/18/1992	A	956.72	51.7	905.02
EO-12	12/31/1992	A	956.72	51.9	904.82
EO-12	1/12/1993	A	956.72	51.8	904.92
EO-12	1/29/1993	A	956.72	51.4	905.32
EO-12	2/4/1993	A	956.72	51.3	905.42
EO-12	3/12/1993	A	956.72	49.5	907.22
EO-12	4/2/1993	A	956.72	48.9	907.82
EO-12	4/9/1993	A	956.72	48.7	908.02
EO-12	4/14/1993	A	956.72	48.5	908.22
EO-12	4/23/1993	A	956.72	46.5	910.22
EO-12	4/28/1993	A	956.72	46.2	910.52
EO-12	5/7/1993	A	956.72	45.4	911.32
EO-12	5/14/1993	A	956.72	47	909.72
EO-12	5/18/1993	A	956.72	47.2	909.52
EO-12	5/27/1993	A	956.72	47.3	909.42
EO-12	6/4/1993	A	956.72	47.1	909.62
EO-12	6/10/1993	A	956.72	45.5	911.22
EO-12	7/14/1993	A	956.72	46.7	910.02
EO-12	7/30/1993	A	956.72	47.2	909.52
EO-12	8/11/1993	A	956.72	46.8	909.92
EO-12	8/18/1993	A	956.72	47	909.72
EO-12	8/25/1993	A	956.72	48.2	908.52
EO-12	9/3/1993	A	956.72	48.1	908.62
EO-12	9/9/1993	A	956.72	48.2	908.52

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EO-12	9/20/1993	A	956.72	48.3	908.42
EO-12	9/24/1993	A	956.72	48.3	908.42
EO-12	10/10/1993	A	956.72	46.7	910.02
EO-12	10/15/1993	A	956.72	48.1	908.62
EO-12	10/28/1993	A	956.72	48.3	908.42
EO-12	11/4/1993	A	956.72	48.5	908.22
EO-12	11/11/1993	A	956.72	48.5	908.22
EO-12	11/20/1993	A	956.72	50.9	905.82
EO-12	11/24/1993	A	956.72	48.5	908.22
EO-12	12/3/1993	A	956.72	46.5	910.22
EO-12	12/10/1993	A	956.72	48	908.72
EO-12	12/14/1993	A	956.72	48.1	908.62
EO-12	12/17/1993	A	956.72	48.2	908.52
EO-12	12/28/1993	A	956.72	48.5	908.22
EO-12	1/5/1994	A	956.72	48.6	908.12
EO-12	1/21/1994	A	956.72	48.4	908.32
EO-12	1/28/1994	A	956.72	48.4	908.32
EO-12	2/4/1994	A	956.72	48.4	908.32
EO-12	2/11/1994	A	956.72	48.5	908.22
EO-12	2/19/1994	A	956.72	48.4	908.32
EO-12	2/25/1994	A	956.72	48.3	908.42
EO-12	3/3/1994	A	956.72	48.3	908.42
EO-12	3/18/1994	A	956.72	48.3	908.42
EO-12	3/23/1994	A	956.72	48.3	908.42
EO-12	3/27/1994	A	956.72	48.4	908.32
EO-12	3/31/1994	A	956.72	48.5	908.22
EO-12	4/14/1994	A	956.72	48.5	908.02
EO-12	4/27/1994	A	956.72	50.4	906.32
EO-12	5/27/1994	A	956.72	48.5	908.22
EO-12	6/3/1994	A	956.72	49.4	907.32
EO-12	7/22/1994	A	956.72	53.2	903.52
EO-12	8/25/1994	A	956.72	54.1	902.62
EO-12	9/22/1994	A	956.72	50.3	906.42
EO-12	10/11/1994	A	956.72	51.9	904.82
EO-12	11/18/1994	A	956.72	53.6	903.12
EO-12	12/29/1994	A	956.72	53.7	903.02
EO-12	1/31/1995	A	956.72	53.5	903.22
EO-12	1/31/1995	A	956.72	53.56	903.16
EO-12	2/7/1995	A	956.72	53.53	903.19
EO-12	2/13/1995	A	956.72	51.55	905.17
EO-12	2/22/1995	A	956.72	53.26	903.46
EO-12	2/24/1995	A	956.72	53.2	903.52
EO-12	3/2/1995	A	956.72	53.26	903.46
EO-12	3/10/1995	A	956.72	53	903.72
EO-12	3/15/1995	A	956.72	52.7	904.02
EO-12	3/31/1995	A	956.75	52	904.75
EO-12	4/21/1995	A	956.72	51.9	904.82
EO-12	5/26/1995	A	956.72	51.4	905.32
EO-12	6/23/1995	A	956.72	51.45	905.27
EO-12	7/27/1995	A	956.72	52.22	904.5
EO-12	8/30/1995	A	956.72	52.95	903.77
EO-12	9/29/1995	A	956.72	51.06	905.66
EO-12	10/27/1995	A	956.72	52.77	903.95

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EO-12	10/31/1995	A	956.72	57.85	898.87
EO-12	11/28/1995	A	956.72	52.45	904.27
EO-12	11/30/1995	A	956.72	57.45	899.27
EO-12	12/30/1995	A	956.72	52.46	904.26
EO-12	12/30/1995	A	956.72	57.53	899.19
EO-12	1/31/1996	A	956.72	52.21	904.51
EO-12	2/20/1996	A	956.72	52.05	904.67
EO-12	3/30/1996	A	956.72	51.7	905.02
EO-12	4/29/1996	A	956.72	52.23	904.49
EO-12	5/31/1996	A	956.72	52.45	904.27
EO-12	6/28/1996	A	956.72	52.8	903.92
EO-12	7/31/1996	A	956.72	53.68	903.04
EO-12	8/30/1996	A	956.72	54.5	902.22
EO-12	9/28/1996	A	956.72	54.79	901.93
EO-12	10/29/1996	A	956.72	54.08	902.64
EO-12	1/15/1997	A	956.72	49.85	906.87
EO-12	4/29/1997	A	956.72	53.38	903.34
EO-12	7/29/1997	A	956.72	56.53	900.19
EO-12	1/29/1998	A	956.72	58.21	898.51
EO-12	5/8/1998	A	956.72	54.65	902.07
EO-12	7/28/1998	A	956.72	53.87	902.85
EO-12	10/29/1998	A	956.72	54.05	902.67
EO-12	1/28/1999	A	956.72	53.55	903.17
EO-12	4/28/1999	A	956.72	54.35	902.37
EO-12	8/4/1999	A	956.72	55.3	901.42
EO-12	10/13/1999	A	956.72	55.7	901.02
EO-12	2/9/2000	A	956.72	55.1	901.62
EO-12	5/2/2000	A	956.72	55.15	901.57
EO-12	8/2/2000	A	956.72	56.4	900.32
EO-12	10/25/2000	A	956.72	57.3	899.42
EO-12	1/31/2001	A	956.72	55.15	901.57
EO-12	5/24/2001	A	956.72	53.5	903.22
EO-12	7/31/2001	A	956.72	55.4	901.32
EO-12	10/30/2001	A	956.72	55.8	900.92
EO-12	1/30/2002	A	956.72	55.1	901.62
EO-12	5/14/2002	A	956.72	56.15	900.57
EO-12	7/31/2002	A	956.72	57.65	899.07
EO-12	10/31/2002	A	956.72	98.65	858.07
EO-12	1/31/2003	A	956.72	58.1	898.62
EO-12	4/29/2003	A	956.72	57.5	899.22
EO-12	8/7/2003	A	956.72	59	897.72
EO-12	10/29/2003	A	956.72	58.9	897.82
EO-12	1/28/2004	A	956.72	59.25	897.47
EO-12	4/28/2004	A	956.72	58.8	897.92
EO-12	7/30/2004	A	956.72	58.6	898.12
EO-12	11/2/2004	A	956.72	60.4	896.32
EO-12	1/28/2005	A	956.72	60.7	896.02
EO-12	5/5/2005	A	956.72	59.35	897.37
EO-12	7/26/2005	A	956.72	58.6	898.12
EO-12	10/27/2005	A	956.72	58.4	898.32
EO-12	1/27/2006	A	956.72	58	898.72
EO-12	5/3/2006	A	956.72	57.95	898.77
EO-12	7/26/2006	A	956.72	57.18	899.54

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EO-12	10/31/2006	A	956.72	59.2	897.52
EO-12	1/29/2007	A	956.72	59.45	897.27
EO-12	5/2/2007	A	956.72	59.8	896.92
EO-12	7/31/2007	A	956.72	61.58	895.14
EO-12	10/11/2007	A	956.72	62.68	894.04
EO-12	1/8/2008	A	956.72	62.08	894.64
EO-12	4/14/2008	A	956.72	61.58	895.14
EO-12	11/17/2008	A	956.72	62.76	893.96
EO-12	2/16/2009	A	956.72	62.03	894.69
EO-12	11/18/2009	A	958.78	64.61	894.17
EO-12	2/1/2010	A	958.78	64.4	894.38
EO-12	5/4/2010	A	958.78	62.63	896.15
EO-12	8/24/2010	A	958.78	69.18	889.6
EO-12	2/3/2011	A	958.78	61.8	896.98
EO-12	5/2/2011	A	958.78	61.54	897.24
EO-12	8/1/2011	A	958.78	63.22	895.56
EO-12	11/2/2011	A	958.78	64.91	893.87
EO-12	5/1/2012	A	958.219	64.07	894.149
EO-12	8/2/2012	A	958.219	64.83	893.389
EO-12	11/2/2012	A	958.219	66.7	891.519
EO-12	2/4/2013	A	958.219	67.12	891.099
EO-12	5/1/2013	A	958.219	66.9	891.319
EO-12	11/4/2013	A	958.78		
EO-17	1/6/1994	A	962.08	55	907.08
EO-17	3/27/1994	A	962.08	51.6	910.48
EO-17	3/31/1994	A	962.08	51.5	910.58
EO-17	4/14/1994	A	962.08	51.8	910.28
EO-17	4/27/1994	A	962.08	52.2	909.88
EO-17	5/25/1994	A	962.08	53.7	908.38
EO-17	6/3/1994	A	962.08	52.5	909.58
EO-17	7/21/1994	A	962.08	54.6	907.48
EO-17	1/31/1996	A	962.08	55.11	906.97
EO-17	2/20/1996	A	962.08	55.35	906.73
EO-17	3/30/1996	A	962.08	55.87	906.21
EO-17	4/29/1996	A	962.08	55.82	906.26
EO-17	5/31/1996	A	962.08	56.12	905.96
EO-17	6/28/1996	A	962.08	56.94	905.14
EO-17	7/31/1996	A	962.08	57.82	904.26
EO-17	8/30/1996	A	962.08	58.53	903.55
EO-17	9/28/1996	A	962.08	58.41	903.67
EO-17	10/30/1996	A	962.08	58.35	903.73
EO-17	1/15/1997	A	962.08	57.09	904.99
EO-17	4/29/1997	A	962.08	58	904.08
EO-17	7/29/1997	A	962.08	60.69	901.39
EO-17	1/30/1998	A	962.08	60.22	901.86
EO-17	5/8/1998	A	962.08	58.1	903.98
EO-17	7/29/1998	A	962.08	57.85	904.23
EO-17	10/29/1998	A	962.08	57.67	904.41
EO-17	1/28/1999	A	962.08	57.51	904.57
EO-17	4/28/1999	A	962.08	58.27	903.81
EO-17	8/4/1999	A	962.08	59.6	902.48
EO-17	10/13/1999	A	962.08	61.75	900.33
EO-17	2/9/2000	A	962.08	59.4	902.68

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EO-17	5/2/2000	A	962.08	59.35	902.73
EO-17	8/3/2000	A	962.08	60.95	901.13
EO-17	10/25/2000	A	962.08	61.37	900.71
EO-17	1/31/2001	A	962.08	59.7	902.38
EO-17	5/24/2001	A	962.08	58.85	903.23
EO-17	8/1/2001	A	962.08	60	902.08
EO-17	10/30/2001	A	962.08	60.1	901.98
EO-17	1/31/2002	A	962.08	60.5	901.58
EO-17	5/14/2002	A	962.08	46.8	915.28
EO-17	7/31/2002	A	962.08	62.55	899.53
EO-17	10/31/2002	A	962.08	63.25	898.83
EO-17	1/31/2003	A	962.08	62.95	899.13
EO-17	4/30/2003	A	962.08	63	899.08
EO-17	8/8/2003	A	962.08	64.4	897.68
EO-17	10/29/2003	A	962.08	64.6	897.48
EO-17	1/29/2004	A	962.08	64.9	897.18
EO-17	4/29/2004	A	962.08	64.42	897.66
EO-17	7/30/2004	A	962.08	64.65	897.43
EO-17	11/2/2004	A	962.08	66.15	895.93
EO-17	1/28/2005	A	962.08	66.9	895.18
EO-17	5/6/2005	A	962.08	65.57	896.51
EO-17	7/26/2005	A	962.08	54.4	907.68
EO-17	10/28/2005	A	962.08	63.5	898.58
EO-17	1/27/2006	A	962.08	63	899.08
EO-17	5/3/2006	A	962.08	62.82	899.26
EO-17	7/26/2006	A	962.08	63.45	898.63
EO-17	10/31/2006	A	962.08	62.45	899.63
EO-17	1/30/2007	A	962.08	65.5	896.58
EO-17	5/2/2007	A	962.08	63.5	898.58
EO-17	8/1/2007	A	962.08	67.3	894.78
EO-17	4/14/2008	A	962.08	67.07	895.01
EO-17	8/4/2008	A	962.08	66.79	895.29
EO-17	11/18/2008	A	962.08	68.89	893.19
EO-17	2/16/2009	A	962.08	68.73	893.35
EO-17	5/19/2009	A	962.08	69.23	892.85
EO-17	8/24/2009	A	964.14	71.01	893.13
EO-17	11/17/2009	A	964.14	70.88	893.26
EO-17	2/1/2010	A	964.14	71.11	893.03
EO-17	5/4/2010	A	964.14	69.22	894.92
EO-17	11/29/2010	A	964.14	71.4	892.74
EO-17	2/3/2011	A	964.14	69.55	894.59
EO-17	5/2/2011	A	964.14	69.09	895.05
EO-17	8/1/2011	A	964.14	70.68	893.46
EO-17	11/2/2011	A	964.14	71.15	892.99
EO-17	2/1/2012	A	965.031	70.98	894.051
EO-17	5/1/2012	A	965.031	70.36	894.671
EO-17	8/2/2012	A	965.031	71.91	893.121
EO-17	11/1/2012	A	965.031	72.83	892.201
EO-17	2/4/2013	A	965.031	72.97	892.061
EO-17	5/1/2013	A	965.031	74.34	890.691
EO-17	8/6/2013	A	964.14	75.14	889
EO-17	11/4/2013	A	964.14	76.95	887.19
EP-01	2/18/1985	A	963.05	52.58	910.47

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EP-01	3/11/1985	A	963.05	52.42	910.63
EP-01	4/17/1985	A	963.05	51.85	911.2
EP-01	5/22/1985	A	963.05	51.98	911.07
EP-01	6/20/1985	A	963.05	52.94	910.11
EP-01	7/25/1985	A	963.05	52.57	910.48
EP-01	9/17/1985	A	963.05	52.7	910.35
EP-01	10/17/1985	A	963.05	51.21	911.84
EP-01	11/18/1985	A	963.05	51.73	911.32
EP-01	12/17/1985	A	963.05	51.33	911.72
EP-01	1/16/1986	A	963.05	50.46	912.59
EP-01	2/19/1986	A	963.05	50.49	912.56
EP-01	3/18/1986	A	963.05	50.32	912.73
EP-01	5/21/1986	A	963.05	50.23	912.82
EP-01	6/17/1986	A	963.05	50.61	912.44
EP-01	7/14/1986	A	963.05	50.59	912.46
EP-01	8/15/1986	A	963.05	51.47	911.58
EP-01	9/23/1986	A	963.05	51.53	911.52
EP-01	10/16/1986	A	963.05	51.34	911.71
EP-01	11/14/1986	A	963.05	51.04	912.01
EP-01	12/15/1986	A	963.05	49.63	913.42
EP-01	1/16/1987	A	963.05	53.35	909.7
EP-01	2/20/1987	A	963.05	52.65	910.4
EP-01	3/17/1987	A	963.05	52.65	910.4
EP-01	4/17/1987	A	963.05	52.45	910.6
EP-01	5/20/1987	A	963.05	51.35	911.7
EP-01	6/17/1987	A	963.05	53.7	909.35
EP-01	7/18/1987	A	963.05	53.75	909.3
EP-01	8/25/1987	A	963.05	54.2	908.85
EP-01	10/2/1987	A	963.05	54	909.05
EP-01	10/22/1987	A	963.05	53.86	909.19
EP-01	11/25/1987	A	963.05	53.6	909.45
EP-01	1/7/1988	A	963.05	53.28	909.77
EP-01	2/15/1988	A	963.05	52.83	910.22
EP-01	3/9/1988	A	963.05	52.71	910.34
EP-01	4/14/1988	A	963.05	52.75	910.3
EP-01	5/19/1988	A	963.05	47.57	915.48
EP-01	6/28/1988	A	963.05	53.45	909.6
EP-01	8/8/1988	A	963.05	54.61	908.44
EP-01	9/16/1988	A	963.05	55.82	907.23
EP-01	11/23/1988	A	963.05	55.42	907.63
EP-01	1/19/1989	A	963.05	53.36	909.69
EP-01	2/14/1989	A	963.05	53.22	909.83
EP-01	3/14/1989	A	963.05	52.65	910.4
EP-01	5/18/1993	A	963.05	50.3	912.75
EP-01	6/10/1993	A	963.05	50.7	912.35
EP-01	7/14/1993	A	963.05	51.1	911.95
EP-01	8/11/1993	A	963.05	51.6	911.45
EP-01	9/24/1993	A	963.05	52.1	910.95
EP-01	10/28/1993	A	963.05	52.3	910.75
EP-01	11/24/1993	A	963.05	52.4	910.65
EP-01	12/14/1993	A	963.05	51.6	911.45
EP-01	1/28/1994	A	963.05	52.6	910.45
EP-01	2/25/1994	A	963.05	52.3	910.75

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EP-01	3/23/1994	A	963.05	52.2	910.85
EP-01	4/27/1994	A	963.05	53.5	909.55
EP-01	5/27/1994	A	963.05	52.3	910.75
EP-01	6/1/1994	A	963.05	53.7	909.35
EP-01	7/22/1994	A	963.05	56	907.05
EP-01	4/21/1995	A	963.05	55.7	907.35
EP-02	1/21/1985	A	955.42	46.32	909.1
EP-02	2/18/1985	A	955.42	46.9	908.52
EP-02	3/11/1985	A	955.42	47.07	908.35
EP-02	4/16/1985	A	955.42	46.89	908.53
EP-02	5/22/1985	A	955.42	47.49	907.93
EP-02	6/20/1985	A	955.42	47.4	907.85
EP-02	7/25/1985	A	955.42	48	907.25
EP-02	8/30/1985	A	955.42	48.26	906.99
EP-02	9/17/1985	A	955.42	47.98	907.27
EP-02	10/17/1985	A	955.42	46.88	908.37
EP-02	11/18/1985	A	955.42	46.57	908.68
EP-02	12/17/1985	A	955.42	46.27	908.98
EP-02	1/16/1986	A	955.42	46.04	909.21
EP-02	2/19/1986	A	955.42	45.54	909.71
EP-02	3/18/1986	A	955.42	45.39	909.86
EP-02	5/21/1986	A	955.42	45.34	909.91
EP-02	6/17/1986	A	955.42	45.67	909.58
EP-02	7/14/1986	A	955.42	45.72	909.53
EP-02	8/15/1986	A	955.42	46.32	908.93
EP-02	9/23/1986	A	955.42	45.89	909.36
EP-02	10/16/1986	A	955.42	46.13	909.12
EP-02	11/14/1986	A	955.42	45.87	909.38
EP-02	12/15/1986	A	955.42	45.22	910.03
EP-02	1/16/1987	A	955.42	46.45	908.8
EP-02	2/20/1987	A	955.42	46.65	908.6
EP-02	3/17/1987	A	955.42	46.75	908.5
EP-02	4/17/1987	A	955.42	46.65	908.6
EP-02	5/20/1987	A	955.42	47.55	907.7
EP-02	6/17/1987	A	955.42	47.98	907.27
EP-02	7/18/1987	A	955.42	48.29	906.96
EP-02	8/25/1987	A	955.42	48.65	906.6
EP-02	10/6/1987	A	955.42	48.3	906.95
EP-02	10/22/1987	A	955.42	48.26	906.99
EP-02	11/25/1987	A	955.42	48.06	907.19
EP-02	1/7/1988	A	955.42	47.88	907.37
EP-02	1/22/1988	A	955.42	47.53	907.72
EP-02	1/23/1988	A	955.42	47.66	907.59
EP-02	1/24/1988	A	955.42	47.68	907.57
EP-02	1/25/1988	A	955.42	48.14	907.11
EP-02	1/26/1988	A	955.42	47.67	907.58
EP-02	1/27/1988	A	955.42	47.61	907.64
EP-02	1/28/1988	A	955.42	47.91	907.34
EP-02	1/29/1988	A	955.42	47.57	907.68
EP-02	1/30/1988	A	955.42	47.52	907.73
EP-02	1/31/1988	A	955.42	47.58	907.67
EP-02	2/15/1988	A	955.42	47.55	907.7
EP-02	3/9/1988	A	955.42	47.46	907.79

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EP-02	4/14/1988	A	955.42	47.62	907.63
EP-02	5/19/1988	A	955.42	47.33	907.92
EP-02	6/29/1988	A	955.42	48.52	906.73
EP-02	8/8/1988	A	955.42	49.72	905.53
EP-02	9/14/1988	A	955.42	50.33	904.92
EP-02	11/21/1988	A	955.42	49.2	906.05
EP-02	11/30/1988	A	955.42	49.2	906.05
EP-02	1/19/1989	A	955.42	48.16	907.09
EP-02	2/14/1989	A	955.42	48.05	907.2
EP-02	3/14/1989	A	955.42	47.92	907.33
EP-02	11/20/1989	A	955.42	50.57	904.68
EP-02	11/20/1989	A	955.42	50.57	904.68
EP-02	1/22/1990	A	955.42	51.07	904.35
EP-02	1/23/1990	A	955.42	51.12	904.3
EP-02	1/24/1990	A	955.42	51.17	904.25
EP-02	1/25/1990	A	955.42	51.17	904.25
EP-02	1/26/1990	A	955.42	51.17	904.25
EP-02	1/29/1990	A	955.42	51.07	904.35
EP-02	1/30/1990	A	955.42	50.92	904.5
EP-02	1/31/1990	A	955.42	50.92	904.5
EP-02	2/1/1990	A	955.42	50.97	904.45
EP-02	2/2/1990	A	955.42	50.87	904.55
EP-02	2/8/1990	A	955.42	51.02	904.4
EP-02	2/16/1990	A	955.42	51.17	904.25
EP-02	2/23/1990	A	955.42	51.12	904.3
EP-02	3/1/1990	A	955.42	50.97	904.45
EP-02	3/9/1990	A	955.42	50.67	904.75
EP-02	3/16/1990	A	955.42	50.87	904.55
EP-02	3/21/1990	A	955.42	50.67	904.75
EP-02	4/4/1990	A	955.42	50.72	904.7
EP-02	4/17/1990	A	955.42	51.12	904.3
EP-02	5/22/1990	A	955.42	51.37	904.05
EP-02	6/19/1990	A	955.42	51.57	903.85
EP-02	7/18/1990	A	955.42	53.07	902.35
EP-02	8/17/1990	A	955.42	52.9	902.35
EP-02	9/23/1990	A	955.42	52.8	902.45
EP-02	10/21/1990	A	955.42	52.5	902.75
EP-02	11/25/1990	A	955.42	51.6	903.65
EP-02	12/17/1990	A	955.42	51.35	903.9
EP-02	1/23/1991	A	955.42	47.37	908.05
EP-02	2/16/1991	A	955.42	51.87	903.55
EP-02	3/17/1991	A	955.42	51.92	903.5
EP-02	4/22/1991	A	955.42	51.92	903.5
EP-02	5/19/1991	A	955.42	52.32	903.1
EP-02	6/19/1991	A	955.42	51.52	903.9
EP-02	7/13/1991	A	955.42	52.67	902.75
EP-02	7/21/1991	A	955.42	53.17	902.25
EP-02	8/18/1991	A	955.42	54.07	901.35
EP-02	9/24/1991	A	955.42	54.57	900.85
EP-02	10/31/1991	A	955.42	54.07	901.35
EP-02	11/17/1991	A	955.42	53.77	901.65
EP-02	1/24/1992	A	955.42	55.12	900.3
EP-02	2/23/1992	A	955.42	52.84	902.58

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EP-02	3/30/1992	A	955.42	51.55	903.87
EP-02	4/22/1992	A	955.42	51.35	904.07
EP-02	5/15/1992	A	955.42	51.6	903.82
EP-02	7/23/1992	A	955.42	51.9	903.52
EP-02	7/31/1992	A	955.42	52	903.42
EP-02	8/24/1992	A	955.42	52.25	903.17
EP-02	10/12/1992	A	955.42	51.7	903.72
EP-02	10/28/1992	A	955.42	51.5	903.92
EP-02	11/23/1992	A	955.42	51.3	904.12
EP-02	1/27/1993	A	955.42	50.7	904.72
EP-02	1/29/1993	A	955.42	50.6	904.82
EP-02	2/4/1993	A	955.42	50.5	904.92
EP-02	3/22/1993	A	955.42	48.7	906.72
EP-02	4/15/1993	A	955.42	48.2	907.22
EP-02	5/18/1993	A	955.42	47.1	908.32
EP-02	6/11/1993	A	955.42	47	908.42
EP-02	6/22/1993	A	955.42	46.6	908.82
EP-02	7/14/1993	A	955.42	46.8	908.62
EP-02	8/11/1993	A	955.42	47.2	908.22
EP-02	9/24/1993	A	955.42	47.7	907.72
EP-02	10/28/1993	A	955.42	47.5	907.92
EP-02	11/23/1993	A	955.42	47.4	908.02
EP-02	12/14/1993	A	955.42	47.2	908.22
EP-02	1/12/1994	A	955.42	47.6	907.82
EP-02	1/28/1994	A	955.42	47.9	907.52
EP-02	2/25/1994	A	955.42	47.8	907.62
EP-02	3/21/1994	A	955.42	47.6	907.82
EP-02	4/27/1994	A	955.42	48.4	907.02
EP-02	5/25/1994	A	955.42	48.5	906.92
EP-02	6/1/1994	A	955.42	48.5	906.92
EP-02	7/21/1994	A	955.42	50.5	904.92
EP-02	8/25/1994	A	955.42	52.5	902.92
EP-02	9/23/1994	A	955.42	51.6	903.82
EP-02	10/12/1994	A	955.42	51.5	903.92
EP-02	11/18/1994	A	955.42	51.8	903.62
EP-02	12/30/1994	A	955.42	51.8	903.62
EP-02	1/30/1995	A	955.42	51.5	903.92
EP-02	2/23/1995	A	955.42	51	904.42
EP-02	3/30/1995	A	955.42	50.1	905.32
EP-02	4/21/1995	A	955.42	50.1	905.32
EP-02	5/26/1995	A	955.42	50.3	905.12
EP-02	6/23/1995	A	955.42	50.32	905.1
EP-02	7/27/1995	A	955.42	51.41	904.01
EP-02	8/30/1995	A	955.42	52.22	903.2
EP-02	9/29/1995	A	955.42	52.09	903.33
EP-02	10/27/1995	A	955.42	51.7	903.72
EP-02	11/29/1995	A	955.42	51.55	903.87
EP-02	12/30/1995	A	955.42	51.29	904.13
EP-02	1/31/1996	A	955.42	50.86	904.56
EP-02	2/20/1996	A	955.42	51	904.42
EP-02	3/29/1996	A	955.42	50.39	905.03
EP-02	4/30/1996	A	955.42	51.35	904.07
EP-02	5/31/1996	A	955.42	51.59	903.83

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EP-02	6/28/1996	A	955.42	52.2	903.22
EP-02	7/31/1996	A	955.42	53.2	902.22
EP-02	8/30/1996	A	955.42	53.81	901.61
EP-02	9/28/1996	A	955.42	54	901.42
EP-02	10/30/1996	A	955.42	53.91	901.51
EP-02	1/16/1997	A	955.42	51.89	903.53
EP-02	4/30/1997	A	955.42	52.55	902.87
EP-02	7/29/1997	A	955.42	55.44	899.98
EP-02	1/30/1998	A	955.42	54.83	900.59
EP-02	5/8/1998	A	955.42	53.3	902.12
EP-02	7/30/1998	A	955.42	53.25	902.17
EP-02	10/29/1998	A	955.42	52.97	902.45
EP-02	1/29/1999	A	955.42	52.5	902.92
EP-02	4/29/1999	A	955.42	53.32	902.1
EP-02	8/5/1999	A	955.42	54.45	900.97
EP-02	10/13/1999	A	955.42	54.5	900.92
EP-02	2/9/2000	A	955.42	53.9	901.52
EP-02	5/4/2000	A	955.42	53.9	901.52
EP-02	8/3/2000	A	955.42	55	900.42
EP-02	10/25/2000	A	955.42	56.05	899.37
EP-02	2/1/2001	A	955.42	54.7	900.72
EP-02	5/25/2001	A	955.42	53.3	902.12
EP-02	8/1/2001	A	955.42	54.48	900.94
EP-02	10/31/2001	A	955.42	55	900.42
EP-02	2/1/2002	A	955.42	54.57	900.85
EP-02	5/14/2002	A	955.42	55.05	900.37
EP-02	8/1/2002	A	955.42	56.42	899
EP-02	5/1/2003	A	955.42	56.1	899.32
EP-02	7/27/2006	A	955.42	56.05	899.37
EP-02	2/2/2010	A	957.48	56.81	900.67
EP-02	5/1/2012	A	962.92	52.16	910.76
EP-02	8/2/2012	A	956.929	57.2	899.729
EP-02	11/1/2012	A	956.929		
EP-02R	2/5/2013	A	955.535	63.29	892.245
EP-02R	5/1/2013	A	955.535	63.14	892.395
EP-02R	8/6/2013	A	955.535	64.12	891.415
EP-02R	11/4/2013	A	955.535	65.5	890.035
EP-03	5/18/1993	A	941.27	38.1	902.65
EP-03	6/11/1993	A	941.27	38.6	902.15
EP-03	7/13/1993	A	941.27	40.3	900.45
EP-03	8/9/1993	A	941.27	42.1	898.65
EP-03	9/24/1993	A	941.27	41.8	898.95
EP-03	10/28/1993	A	941.27	40.4	900.35
EP-03	11/24/1993	A	941.27	39.5	901.25
EP-03	12/14/1993	A	941.27	38.8	901.95
EP-03	1/28/1994	A	941.27	38.7	902.05
EP-03	2/25/1994	A	941.27	38.7	902.05
EP-03	3/21/1994	A	941.27	39.2	901.55
EP-03	4/27/1994	A	941.27	40.9	900.37
EP-03	5/26/1994	A	941.27	41.4	899.87
EP-03	6/3/1994	A	941.27	41.3	899.97
EP-03	4/21/1995	A	940.75	40.7	900.05
EP-03	4/14/2008	A	941.27	49.29	891.98

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EP-04	1/21/1985	A	952.63	43.95	907.95
EP-04	2/18/1985	A	952.63	43.84	908.06
EP-04	3/11/1985	A	952.63	43.51	908.39
EP-04	4/16/1985	A	952.63	43.9	908
EP-04	5/22/1985	A	952.63	44.2	907.7
EP-04	6/20/1985	A	952.63	44.9	907
EP-04	7/25/1985	A	952.63	45.57	906.33
EP-04	8/30/1985	A	952.63	46.04	905.86
EP-04	9/17/1985	A	952.63	45.81	906.09
EP-04	10/17/1985	A	952.63	44.57	907.33
EP-04	11/18/1985	A	952.63	43.44	908.46
EP-04	12/17/1985	A	952.63	43.03	908.87
EP-04	1/16/1986	A	952.63	42.79	909.11
EP-04	2/19/1986	A	952.63	42.22	909.68
EP-04	3/18/1986	A	952.63	42.15	909.75
EP-04	5/21/1986	A	952.63	42.62	909.28
EP-04	6/17/1986	A	952.63	42.9	909
EP-04	7/14/1986	A	952.63	43.51	908.39
EP-04	8/15/1986	A	952.63	44.32	907.58
EP-04	9/23/1986	A	952.63	44.44	907.46
EP-04	10/16/1986	A	952.63	43.78	908.12
EP-04	11/14/1986	A	952.63	43.28	908.62
EP-04	12/15/1986	A	952.63	42.12	909.78
EP-04	1/16/1987	A	952.63	43	908.9
EP-04	2/20/1987	A	952.63	43.3	908.6
EP-04	3/17/1987	A	952.63	43.4	908.5
EP-04	4/17/1987	A	952.63	43.7	908.2
EP-04	5/20/1987	A	952.63	44.5	907.4
EP-04	6/17/1987	A	952.63	44.9	907
EP-04	7/18/1987	A	952.63	45.5	906.4
EP-04	8/25/1987	A	952.63	46.08	905.82
EP-04	10/13/1987	A	952.63	45.5	906.4
EP-04	10/22/1987	A	952.63	45.4	906.5
EP-04	11/25/1987	A	952.63	42.65	909.25
EP-04	1/7/1988	A	952.63	44.28	907.62
EP-04	2/15/1988	A	952.63	43.58	908.32
EP-04	3/9/1988	A	952.63	43.41	908.49
EP-04	4/14/1988	A	952.63	44.01	907.89
EP-04	5/19/1988	A	952.63	44.17	907.73
EP-04	6/28/1988	A	952.63	45.07	906.83
EP-04	8/8/1988	A	952.63	46.73	905.17
EP-04	9/14/1988	A	952.63	47.16	904.74
EP-04	11/21/1988	A	952.63	40.91	910.99
EP-04	1/19/1989	A	952.63	44.2	907.7
EP-04	2/14/1989	A	952.63	44.15	907.75
EP-04	3/14/1989	A	952.63	44.1	907.8
EP-04	4/19/1989	A	952.63	44.85	907.05
EP-04	5/11/1989	A	952.63	45.3	906.6
EP-04	6/1/1989	A	952.63	45.84	906.06
EP-04	7/24/1989	A	952.63	47.82	904.08
EP-04	8/24/1989	A	952.63	48.05	903.85
EP-04	8/24/1989	A	952.63	48.05	903.85
EP-04	9/19/1989	A	952.63	48.09	903.81

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EP-04	10/19/1989	A	952.63	47.17	904.73
EP-04	11/20/1989	A	952.63	47.04	904.86
EP-04	12/13/1989	A	952.63	46.89	905.01
EP-04	1/22/1990	A	952.63	46.9	905
EP-04	1/23/1990	A	952.63	47	904.9
EP-04	1/24/1990	A	952.63	47	904.9
EP-04	1/25/1990	A	952.63	47.05	904.85
EP-04	1/26/1990	A	952.63	47	904.9
EP-04	1/29/1990	A	952.63	46.9	905
EP-04	1/30/1990	A	952.63	46.85	905.05
EP-04	1/31/1990	A	952.63	46.85	905.05
EP-04	2/1/1990	A	952.63	46.9	905
EP-04	2/2/1990	A	952.63	46.6	905.3
EP-04	2/8/1990	A	952.63	46.9	905
EP-04	2/16/1990	A	952.63	46.95	904.95
EP-04	2/23/1990	A	952.63	46.85	905.05
EP-04	3/1/1990	A	952.63	46.8	905.1
EP-04	3/9/1990	A	952.63	46.75	905.15
EP-04	3/16/1990	A	952.63	46.85	905.05
EP-04	3/21/1990	A	952.63	46.85	905.05
EP-04	4/4/1990	A	952.63	46.95	904.95
EP-04	4/17/1990	A	952.63	47.2	904.7
EP-04	5/22/1990	A	952.63	47.8	904.1
EP-04	6/19/1990	A	952.63	48.45	903.45
EP-04	7/18/1990	A	952.63	49.5	902.4
EP-04	8/17/1990	A	952.63	50.1	901.8
EP-04	9/23/1990	A	952.63	49	902.9
EP-04	10/21/1990	A	952.63	51.25	900.65
EP-04	11/25/1990	A	952.63	47.3	904.6
EP-04	12/17/1990	A	952.63	47.1	904.8
EP-04	1/21/1991	A	952.63	47.2	904.7
EP-04	2/16/1991	A	952.63	47.1	904.8
EP-04	3/17/1991	A	952.63	47.25	904.65
EP-04	4/22/1991	A	952.63	47.25	904.65
EP-04	5/19/1991	A	952.63	47.6	904.3
EP-04	7/21/1991	A	952.63	49.4	902.5
EP-04	8/18/1991	A	952.63	50.7	901.2
EP-04	9/24/1991	A	952.63	50.8	901.1
EP-04	2/21/1992	A	952.63	48	903.9
EP-04	3/30/1992	A	952.63	46.9	905.43
EP-04	4/22/1992	A	952.63	46.65	905.68
EP-04	5/15/1992	A	952.63	46.55	905.78
EP-04	6/30/1992	A	952.63	47	905.33
EP-04	7/29/1992	A	952.63	47.5	904.83
EP-04	8/24/1992	A	952.63	47.4	904.93
EP-04	10/12/1992	A	952.63	46.2	906.13
EP-04	10/28/1992	A	952.63	45.9	906.43
EP-04	11/23/1992	A	952.63	45.5	906.83
EP-04	1/29/1993	A	952.63	44.5	907.83
EP-04	2/4/1993	A	952.63	44.3	908.03
EP-04	3/22/1993	A	952.63	42.5	909.83
EP-04	4/15/1993	A	952.63	41.9	910.43
EP-04	5/18/1993	A	952.63	41.2	911.13

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
EP-04	6/11/1993	A	952.63	41.3	911.03
EP-04	7/1/1993	A	952.63	41.4	910.93
EP-04	7/14/1993	A	952.63	41.7	910.63
EP-04	8/9/1993	A	952.63	42.5	909.83
EP-04	9/24/1993	A	952.63	42.8	909.53
EP-04	10/28/1993	A	952.63	42.7	909.63
EP-04	11/24/1993	A	952.63	42.7	909.63
EP-04	12/14/1993	A	952.63	42.3	910.03
EP-04	1/12/1994	A	952.63	42.7	909.63
EP-04	1/28/1994	A	952.63	42.8	909.53
EP-04	2/25/1994	A	952.63	43	909.33
EP-04	3/23/1994	A	952.63	43.1	909.23
EP-04	4/27/1994	A	952.63	44.1	908.53
EP-04	5/26/1994	A	952.63	44.5	908.13
EP-04	6/3/1994	A	952.63	44.6	908.03
EP-04	7/22/1994	A	952.63	47.3	905.33
EP-04	8/25/1994	A	952.63	48.9	903.73
EP-04	9/23/1994	A	952.63	48.1	904.53
EP-04	10/12/1994	A	952.63	47.9	904.73
EP-04	11/18/1994	A	952.63	47.8	904.83
EP-04	12/29/1994	A	952.63	47.7	904.93
EP-04	1/30/1995	A	952.63	47.2	905.43
EP-04	2/23/1995	A	952.63	46.6	906.03
EP-04	3/30/1995	A	952.63	45.5	907.13
EP-04	4/21/1995	A	952.33	45.6	906.73
EP-04	5/26/1995	A	952.33	45.2	907.13
EP-04	6/23/1995	A	952.33	45.47	906.86
EP-04	7/27/1995	A	952.33	46.84	905.49
EP-04	8/30/1995	A	952.33	47.75	904.58
EP-04	9/29/1995	A	952.33	47.34	904.99
EP-04	10/27/1995	A	952.33	46.85	905.48
EP-04	11/29/1995	A	952.33	46.54	905.79
EP-04	12/30/1995	A	952.33	46.35	905.98
EP-04	1/31/1996	A	952.33	46.17	906.16
EP-04	2/20/1996	A	952.33	46.15	906.18
EP-04	3/30/1996	A	952.33	46.38	905.95
EP-04	4/30/1996	A	952.33	47.25	905.08
EP-04	5/31/1996	A	952.33	47.5	904.83
EP-04	6/28/1996	A	952.33	49.25	903.08
EP-04	1/16/1997	A	952.33	48.53	903.8
GAC-01	1/27/1993	C	965	50.2	914.8
GAC-01	4/5/1995	C	961.45	56.85	904.6
GAC-01	4/12/1995	C	961.45	59	902.45
GAC-01	4/18/1995	C	961.45	56.58	904.87
GAC-01	4/18/1995	C	961.65	57.79	903.86
GAC-01	4/25/1995	C	961.45	55.91	905.54
GAC-01	5/4/1995	C	961.45	55.5	905.95
GAC-01	5/16/1995	C	961.45	54.7	906.75
GAC-01	5/25/1995	C	961.45	56.35	905.1
GAC-01	6/2/1995	C	961.45	59.75	901.7
GAC-01	6/6/1995	C	961.45	59.52	901.93
GAC-01	6/15/1995	C	961.45	63.77	897.68
GAC-01	6/23/1995	C	961.45	62.27	899.18

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GAC-01	6/29/1995	C	961.45	66.55	894.9
GAC-01	7/7/1995	C	961.45	66.6	894.85
GAC-01	7/21/1995	C	961.45	69.66	891.79
GAC-01	7/28/1995	C	961.45	72.72	888.73
GAC-01	8/2/1995	C	961.45	72.8	888.65
GAC-01	8/11/1995	C	961.45	72.02	889.43
GAC-01	8/15/1995	C	961.45	68.7	892.75
GAC-01	8/23/1995	C	961.45	63.04	898.41
GAC-01	8/31/1995	C	961.45	65.82	895.63
GAC-01	9/6/1995	C	961.45	62.18	899.27
GAC-01	9/13/1995	C	961.45	59.13	902.32
GAC-01	9/22/1995	C	961.45	60.09	901.36
GAC-01	9/28/1995	C	961.45	57.62	903.83
GAC-01	10/6/1995	C	961.45	57.5	903.95
GAC-01	1/31/1996	C	961.45	54.62	906.83
GAC-01	2/20/1996	C	961.45	54.73	906.72
GAC-01	3/30/1996	C	961.45	59.55	901.9
GAC-01	4/29/1996	C	961.45	61.01	900.44
GAC-01	5/31/1996	C	961.45	61.57	899.88
GAC-01	6/28/1996	C	961.45	69.59	891.86
GAC-01	7/30/1996	C	961.45	72.6	888.85
GAC-01	8/30/1996	C	961.45	72.87	888.58
GAC-01	9/28/1996	C	961.45	60.86	900.59
GAC-01	10/29/1996	C	961.45	59.48	901.97
GAC-01	1/16/1997	C	961.45	57.55	903.9
GAC-01	4/28/1997	C	961.45	67.13	894.32
GAC-01	7/29/1997	C	961.45	75.73	885.72
GAC-01	10/22/1997	C	961.45	63.67	897.78
GAC-01	1/29/1998	C	961.45	61.17	900.28
GAC-01	5/8/1998	C	961.45	62.07	899.38
GAC-01	7/28/1998	C	961.45	64.55	896.9
GAC-01	10/29/1998	C	961.45	58.2	903.25
GAC-01	1/28/1999	C	961.45	57.37	904.08
GAC-01	4/28/1999	C	961.45	63.95	897.5
GAC-01	8/4/1999	C	961.45	70.75	890.7
GAC-01	10/12/1999	C	961.45	63.9	897.55
GAC-01	2/9/2000	C	961.45	60.05	901.4
GAC-01	5/2/2000	C	961.45	63.05	898.4
GAC-01	8/2/2000	C	961.45	73.2	888.25
GAC-01	10/25/2000	C	961.45	62.87	898.58
GAC-01	1/30/2001	C	961.45	58.5	902.95
GAC-01	5/24/2001	C	961.45	62.15	899.3
GAC-01	7/31/2001	C	961.45	69.7	891.75
GAC-01	10/29/2001	C	961.45	63.55	897.9
GAC-01	1/30/2002	C	961.45	61.3	900.15
GAC-01	5/13/2002	C	961.45	65.85	895.6
GAC-01	7/30/2002	C	961.45	78.15	883.3
GAC-01	10/30/2002	C	961.45	67.7	893.75
GAC-01	1/30/2003	C	961.45	64.3	897.15
GAC-01	4/30/2003	C	961.45	66.4	895.05
GAC-01	8/7/2003	C	961.45	73.7	887.75
GAC-01	10/28/2003	C	961.45	69.8	891.65
GAC-01	1/28/2004	C	961.45	64.6	896.85

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GAC-01	4/29/2004	C	961.45	68.45	893
GAC-01	7/29/2004	C	961.45	79.65	881.8
GAC-01	11/1/2004	C	961.45	71.4	890.05
GAC-01	1/27/2005	C	961.45	65.5	895.95
GAC-01	5/5/2005	C	961.45	68	893.45
GAC-01	7/27/2005	C	961.45	75	886.45
GAC-01	10/26/2005	C	961.45	67.4	894.05
GAC-01	1/27/2006	C	961.45	65.85	895.6
GAC-01	5/2/2006	C	961.45	68.7	892.75
GAC-01	7/25/2006	C	961.45	75.5	885.95
GAC-01	10/30/2006	C	961.45	70.3	891.15
GAC-01	1/29/2007	C	961.45	67.8	893.65
GAC-01	5/2/2007	C	961.45	70.7	890.75
GAC-01	8/1/2007	C	961.45	79.1	882.35
GAC-01	10/11/2007	C	961.45	74.63	886.82
GAC-01	1/11/2008	C	961.45	68.52	892.93
GAC-01	4/15/2008	C	961.45	71.21	890.24
GAC-01	8/4/2008	C	961.45	79.55	881.9
GAC-01	11/18/2008	C	961.45	71.9	889.55
GAC-01	2/17/2009	C	961.45	65.5	895.95
GAC-01	5/21/2009	C	961.45	72.31	889.14
GAC-01	8/25/2009	C	963.51	77.9	885.61
GAC-01	9/21/2009	C	963.51	69.55	893.96
GAC-01	10/19/2009	C	963.51	69.79	893.72
GAC-01	11/17/2009	C	963.51	72.8	890.71
GAC-01	2/1/2010	C	963.51	67.5	896.01
GAC-01	5/7/2010	C	963.51	69.65	893.86
GAC-01	8/24/2010	C	963.51	76.1	887.41
GAC-01	11/29/2010	C	963.51	69	894.51
GAC-01	2/3/2011	C	963.51	65.83	897.68
GAC-01	5/2/2011	C	963.51	72.59	890.92
GAC-01	8/2/2011	C	963.51	77.28	886.23
GAC-01	11/2/2011	C	963.51	73.8	889.71
GAC-01	12/2/2011	C	962.92	70.85	892.07
GAC-01	2/1/2012	C	962.92	72.85	890.07
GAC-01	3/2/2012	C	962.92	68.97	893.95
GAC-01	4/2/2012	C	962.92	72.65	890.27
GAC-01	5/1/2012	C	963.27	72.32	890.95
GAC-01	6/1/2012	C	962.92	73.4	889.52
GAC-01	7/2/2012	C	962.92	79.39	883.53
GAC-01	8/1/2012	C	962.92	80.02	882.9
GAC-01	9/4/2012	C	962.92	80.49	882.43
GAC-01	10/1/2012	C	962.92	77.32	885.6
GAC-01	11/2/2012	C	962.92	74.62	888.3
GAC-01	12/3/2012	C	962.92	72.2	890.72
GAC-02	1/27/1993	C	965	50.1	914.9
GAC-02	4/5/1995	C	961.65	58.52	903.13
GAC-02	4/12/1995	C	961.65	60.44	901.21
GAC-02	4/25/1995	C	961.65	56.95	904.7
GAC-02	5/4/1995	C	961.65	56.4	905.25
GAC-02	5/16/1995	C	961.65	55.97	905.68
GAC-02	5/25/1995	C	961.65	57.53	904.12
GAC-02	6/2/1995	C	961.65	60.82	900.83

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GAC-02	6/6/1995	C	961.65	61.16	900.49
GAC-02	6/15/1995	C	961.65	65.23	896.42
GAC-02	6/23/1995	C	961.65	63.66	897.99
GAC-02	6/29/1995	C	961.65	67.66	893.99
GAC-02	7/7/1995	C	961.65	65.85	895.8
GAC-02	7/28/1995	C	961.65	73.8	887.85
GAC-02	8/2/1995	C	961.65	71.49	890.16
GAC-02	8/23/1995	C	961.65	64.98	896.67
GAC-02	8/31/1995	C	961.65	67.26	894.39
GAC-02	9/6/1995	C	961.65	63.65	898
GAC-02	9/13/1995	C	961.65	60.33	901.32
GAC-02	9/22/1995	C	961.65	61.41	900.24
GAC-02	9/28/1995	C	961.65	58.67	902.98
GAC-02	10/6/1995	C	961.65	58.25	903.4
GAC-02	10/31/1995	C	961.65	57.1	904.55
GAC-02	11/30/1995	C	961.65	56.03	905.62
GAC-02	12/30/1995	C	961.65	56.19	905.46
GAC-02	1/31/1996	C	961.65	55.6	906.05
GAC-02	2/20/1996	C	961.65	56.9	904.75
GAC-02	3/29/1996	C	961.65	61.6	900.05
GAC-02	4/29/1996	C	961.65	62.55	899.1
GAC-02	5/31/1996	C	961.65	61.81	899.84
GAC-02	6/28/1996	C	961.65	72.34	889.31
GAC-02	7/31/1996	C	961.65	71.4	890.25
GAC-02	8/30/1996	C	961.65	74.66	886.99
GAC-02	9/28/1996	C	961.65	62.49	899.16
GAC-02	10/30/1996	C	961.65	60.35	901.3
GAC-02	1/16/1997	C	961.65	59	902.65
GAC-03	8/25/1992	C	964	59.25	904.75
GAC-03	1/26/1993	C	964	49.15	914.85
GAC-03	10/31/1995	C	964	55.68	908.32
GAC-03	11/30/1995	C	964	54.3	909.7
GAC-03	12/30/1995	C	964	54.57	909.43
GAC-03	1/31/1996	C	964	54.03	909.97
GAC-03	2/20/1996	C	964	54.5	909.5
GAC-03	3/30/1996	C	964	59.51	904.49
GAC-03	4/30/1996	C	964	61.21	902.79
GAC-03	5/31/1996	C	964	62.4	901.6
GAC-03	6/28/1996	C	964	69.1	894.9
GAC-03	7/31/1996	C	964	71.17	892.83
GAC-03	8/30/1996	C	964	72.18	891.82
GAC-03	9/28/1996	C	964	60.45	903.55
GAC-03	10/30/1996	C	964	58	906
GAC-03	1/16/1997	C	964	57.78	906.22
GAC-03	4/30/1997	C	964	66.15	897.85
GAC-03	7/30/1997	C	964	76	888
GAC-03	10/23/1997	C	964	64.06	899.94
GAC-03	1/29/1998	C	964	61.31	902.69
GAC-03	5/8/1998	C	964	62	902
GAC-03	7/30/1998	C	964	65.55	898.45
GAC-03	10/29/1998	C	964	58.1	905.9
GAC-03	1/28/1999	C	964	56.95	907.05
GAC-03	4/29/1999	C	964	63.35	900.65

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GAC-03	8/5/1999	C	964	71.67	892.33
GAC-03	10/12/1999	C	964	63.9	900.1
GAC-03	2/9/2000	C	964	61.75	902.25
GAC-03	5/4/2000	C	964	64.7	899.3
GAC-03	8/3/2000	C	964	72.55	891.45
GAC-03	10/25/2000	C	964	63.4	900.6
GAC-03	2/1/2001	C	964	58.85	905.15
GAC-03	5/24/2001	C	964	62.3	901.7
GAC-03	7/31/2001	C	964	69.8	894.2
GAC-03	10/29/2001	C	964	64	900
GAC-03	2/1/2002	C	964	60.6	903.4
GAC-03	5/14/2002	C	964	66.9	897.1
GAC-03	7/30/2002	C	964	77.7	886.3
GAC-03	10/30/2002	C	964	68.4	895.6
GAC-03	1/30/2003	C	964	64.8	899.2
GAC-03	4/30/2003	C	964	66.85	897.15
GAC-03	8/7/2003	C	964	73.2	890.8
GAC-03	10/28/2003	C	964	69.5	894.5
GAC-03	1/28/2004	C	964	65.55	898.45
GAC-03	4/29/2004	C	964	69.4	894.6
GAC-03	7/30/2004	C	964	80.4	883.6
GAC-03	11/2/2004	C	964	72.2	891.8
GAC-03	1/27/2005	C	964	66	898
GAC-03	5/5/2005	C	964	69	895
GAC-03	7/27/2005	C	964	75.8	888.2
GAC-03	10/26/2005	C	964	68.6	895.4
GAC-03	1/26/2006	C	964	66.85	897.15
GAC-03	5/3/2006	C	964	70.9	893.1
GAC-03	7/26/2006	C	964	75.6	888.4
GAC-03	10/30/2006	C	964	70.4	893.6
GAC-03	1/29/2007	C	964	68.45	895.55
GAC-03	5/2/2007	C	964	72.1	891.9
GAC-03	7/31/2007	C	964	80.7	883.3
GAC-03	10/10/2007	C	964	77.46	886.54
GAC-03	4/15/2008	C	964	72.77	891.23
GAC-03	8/12/2008	C	964	82.84	881.16
GAC-03	11/18/2008	C	964	72.15	891.85
GAC-03	2/17/2009	C	964	68.91	895.09
GAC-03	5/27/2009	C	964	72.62	891.38
GAC-03	9/2/2009	C	966.06	79	887.06
GAC-03	9/22/2009	C	966.06	81.09	884.97
GAC-03	10/19/2009	C	966.06	77.6	888.46
GAC-03	2/24/2010	C	966.06	68.24	897.82
GAC-03	5/18/2010	C	966.06	71.18	894.88
GAC-03	11/29/2010	C	966.06	70.8	895.26
GAC-03	2/3/2011	C	966.06	67	899.06
GAC-03	5/3/2011	C	966.06	73.35	892.71
GAC-03	8/2/2011	C	966.06	78.34	887.72
GAC-03	12/2/2011	C	963.27	73	890.27
GAC-03	2/1/2012	C	963.27	74.52	888.75
GAC-03	3/2/2012	C	963.27	70.58	892.69
GAC-03	4/2/2012	C	963.27	73.58	889.69
GAC-03	5/1/2012	C	963.28	74.5	888.78

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GAC-03	6/1/2012	C	963.27	75.23	888.04
GAC-03	7/2/2012	C	963.27	81.18	882.09
GAC-03	8/2/2012	C	963.27	82.06	881.21
GAC-03	9/4/2012	C	963.27	82.32	880.95
GAC-03	10/1/2012	C	963.27	79.11	884.16
GAC-03	11/5/2012	C	963.27	78.86	884.41
GAC-03	12/3/2012	C	963.27	73.1	890.17
GAC-03	2/5/2013	C	963.27	72.88	890.39
GAC-03	5/2/2013	C	963.27	75.83	887.44
GAC-03	8/7/2013	C	966.06	84.7	881.36
GAC-03	11/5/2013	C	966.06	78.65	887.41
GAC-04	8/25/1992	C	962	59.7	902.3
GAC-04	12/31/1992	C	962	57.33	904.67
GMW-01	4/25/1985	C	962.1	60.88	901.22
GMW-01	5/7/1985	C	962.1	60.11	901.99
GMW-01	5/20/1985	C	962.1	60.13	901.97
GMW-01	5/21/1985	C	962.1	60.2	901.9
GMW-01	5/22/1985	C	962.1	60.79	901.31
GMW-01	5/23/1985	C	962.1	61.49	900.61
GMW-01	5/24/1985	C	962.1	61.42	900.68
GMW-01	5/29/1985	C	962.1	66.75	895.35
GMW-01	5/30/1985	C	962.1	65.36	896.74
GMW-01	5/31/1985	C	962.1	64.59	897.51
GMW-01	6/20/1985	C	962.1	65.83	896.27
GMW-01	7/25/1985	C	962.1	62.29	899.81
GMW-01	8/30/1985	C	962.1	70.57	891.53
GMW-01	9/17/1985	C	962.1	61.51	900.59
GMW-01	10/16/1985	C	962.1	55.38	906.72
GMW-01	11/18/1985	C	962.1	53.05	909.05
GMW-01	12/17/1985	C	962.1	52.84	909.26
GMW-01	1/16/1986	C	962.1	52.36	909.74
GMW-01	2/19/1986	C	962.1	51.48	910.62
GMW-01	3/18/1986	C	962.1	51.55	910.55
GMW-01	5/22/1986	C	962.1	58.35	903.75
GMW-01	6/17/1986	C	962.1	66.45	895.65
GMW-01	7/14/1986	C	962.1	64.78	897.32
GMW-01	8/15/1986	C	962.1	68.34	893.76
GMW-01	9/23/1986	C	962.1	61.09	901.01
GMW-01	10/16/1986	C	962.1	55.91	906.19
GMW-01	11/14/1986	C	962.1	54.42	907.68
GMW-01	12/15/1986	C	962.1	53.69	908.41
GMW-01	1/15/1987	C	962.1	54.9	907.2
GMW-01	2/20/1987	C	962.1	55	907.1
GMW-01	3/17/1987	C	962.1	55	907.1
GMW-01	4/17/1987	C	962.1	61.6	900.5
GMW-01	5/20/1987	C	962.1	60.1	902
GMW-01	6/19/1987	C	962.1	66.89	895.21
GMW-01	7/17/1987	C	962.1	66.04	896.06
GMW-01	8/25/1987	C	962.1	65.69	896.41
GMW-01	9/28/1987	C	962.1	60.8	901.3
GMW-01	10/22/1987	C	962.1	58.75	903.35
GMW-01	11/24/1987	C	962.1	55.73	906.37
GMW-01	1/7/1988	C	962.1	55.95	906.15

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-01	1/22/1988	C	962.1	53.59	908.51
GMW-01	1/23/1988	C	962.1	53.3	908.8
GMW-01	1/24/1988	C	962.1	54.05	908.05
GMW-01	1/25/1988	C	962.1	55.6	906.5
GMW-01	1/26/1988	C	962.1	59.83	902.27
GMW-01	1/27/1988	C	962.1	60.35	901.75
GMW-01	1/28/1988	C	962.1	59.83	902.27
GMW-01	1/29/1988	C	962.1	54.25	907.85
GMW-01	1/30/1988	C	962.1	53.75	908.35
GMW-01	1/31/1988	C	962.1	53.45	908.65
GMW-01	2/15/1988	C	962.1	55	907.1
GMW-01	3/8/1988	C	962.1	54.39	907.71
GMW-01	4/13/1988	C	962.1	60.49	901.61
GMW-01	5/23/1988	C	962.1	60.34	901.76
GMW-01	6/28/1988	C	962.1	68.93	893.17
GMW-01	7/14/1988	C	962.1	70.07	892.03
GMW-01	8/10/1988	C	962.1	72	890.1
GMW-01	9/7/1988	C	962.1	65.66	896.44
GMW-01	11/28/1988	C	962.1	65.89	896.21
GMW-01	1/19/1989	C	962.1	55.45	906.65
GMW-01	2/14/1989	C	962.1	54.8	907.3
GMW-01	3/14/1989	C	962.1	56.57	905.53
GMW-01	4/19/1989	C	962.1	62.78	899.32
GMW-01	5/11/1989	C	962.1	62.85	899.25
GMW-01	6/1/1989	C	962.1	64.52	897.58
GMW-01	7/24/1989	C	962.1	71.78	890.32
GMW-01	8/24/1989	C	962.1	63.36	898.74
GMW-01	8/24/1989	C	962.1	63.36	898.74
GMW-01	9/19/1989	C	962.1	64.08	898.02
GMW-01	10/19/1989	C	962.1	62.63	899.47
GMW-01	11/20/1989	C	962.1	60.16	901.94
GMW-01	12/13/1989	C	962.1	58.48	903.62
GMW-01	1/22/1990	C	962.1	57.23	904.87
GMW-01	2/13/1990	C	962.1	57.6	904.5
GMW-01	4/24/1990	C	962.1	61.12	900.98
GMW-01	5/16/1990	C	962.1	64.36	897.74
GMW-01	6/27/1990	C	962.1	71.82	890.28
GMW-01	1/3/1991	C	962.1	57.15	904.95
GMW-01	7/13/1991	C	962.1	72.9	889.2
GMW-01	7/7/1992	C	962.1	64.9	897.2
GMW-01	1/5/1993	C	962.1	52.7	909.4
GMW-01	1/26/1993	C	962.1	50.75	911.35
GMW-01	2/5/1993	C	962.1	49.9	912.2
GMW-01	7/13/1994	C	962.1	70.5	891.6
GMW-01	1/30/1995	C	962.1	53.1	909
GMW-01	4/5/1995	C	962.1	57	905.1
GMW-01	4/12/1995	C	962.1	58.96	903.14
GMW-01	4/18/1995	C	962.1	56.4	905.7
GMW-01	4/25/1995	C	962.1	55.77	906.33
GMW-01	5/4/1995	C	962.1	55.15	906.95
GMW-01	5/16/1995	C	962.1	54.79	907.31
GMW-01	5/25/1995	C	962.1	56.52	905.58
GMW-01	6/2/1995	C	962.1	59.65	902.45

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-01	6/6/1995	C	962.1	59.95	902.15
GMW-01	6/15/1995	C	962.1	63.75	898.35
GMW-01	6/23/1995	C	962.1	62.46	899.64
GMW-01	6/29/1995	C	962.1	66.02	896.08
GMW-01	7/7/1995	C	962.1	65.7	896.4
GMW-01	7/21/1995	C	962.1	69.75	892.35
GMW-01	7/28/1995	C	962.1	72.06	890.04
GMW-01	8/2/1995	C	962.1	70.16	891.94
GMW-01	8/11/1995	C	962.1	71.5	890.6
GMW-01	8/15/1995	C	962.1	69.55	892.55
GMW-01	8/23/1995	C	962.1	63.54	898.56
GMW-01	8/31/1995	C	962.1	66.03	896.07
GMW-01	9/6/1995	C	962.1	63.05	899.05
GMW-01	9/13/1995	C	962.1	59.53	902.57
GMW-01	9/22/1995	C	962.1	59.85	902.25
GMW-01	9/28/1995	C	962.1	57.9	904.2
GMW-01	10/6/1995	C	962.1	57.32	904.78
GMW-01	10/31/1995	C	962.1	56.2	905.9
GMW-01	11/30/1995	C	962.1	54.77	907.33
GMW-01	12/30/1995	C	962.1	54.95	907.15
GMW-01	1/31/1996	C	962.1	54.51	907.59
GMW-01	2/20/1996	C	962.1	54.58	907.52
GMW-01	3/30/1996	C	962.1	59.7	902.4
GMW-01	4/29/1996	C	962.1	62.15	899.95
GMW-01	5/31/1996	C	962.1	62.68	899.42
GMW-01	6/28/1996	C	962.1	69.55	892.55
GMW-01	7/30/1996	C	962.1	71.65	890.45
GMW-01	8/30/1996	C	962.1	72.4	889.7
GMW-01	9/28/1996	C	962.1	61.2	900.9
GMW-01	10/29/1996	C	962.1	59.58	902.52
GMW-01	1/16/1997	C	962.1	57.82	904.28
GMW-01	4/28/1997	C	962.1	68.02	894.08
GMW-01	7/29/1997	C	962.1	75.64	886.46
GMW-01	10/22/1997	C	962.1	64.3	897.8
GMW-01	1/29/1998	C	962.1	61.33	900.77
GMW-01	5/8/1998	C	962.1	62.85	899.25
GMW-01	7/28/1998	C	962.1	65.05	897.05
GMW-01	10/29/1998	C	962.1	58.22	903.88
GMW-01	1/28/1999	C	962.1	57.45	904.65
GMW-01	4/28/1999	C	962.1	64.67	897.43
GMW-01	8/4/1999	C	962.1	70.82	891.28
GMW-01	10/12/1999	C	962.1	65.25	896.85
GMW-01	2/9/2000	C	962.1	61	901.1
GMW-01	5/2/2000	C	962.1	63.45	898.65
GMW-01	8/2/2000	C	962.1	73.55	888.55
GMW-01	10/25/2000	C	962.1	64.05	898.05
GMW-01	1/30/2001	C	962.1	58.55	903.55
GMW-01	5/24/2001	C	962.1	63	899.1
GMW-01	7/31/2001	C	962.1	73.2	888.9
GMW-01	10/29/2001	C	962.1	65.1	897
GMW-01	1/30/2002	C	962.1	61.6	900.5
GMW-01	5/13/2002	C	962.1	66.3	895.8
GMW-01	5/14/2002	C	964.66	59.22	905.44

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-01	7/30/2002	C	964.66	61.18	903.48
GMW-01	7/30/2002	C	962.1	77	885.1
GMW-01	10/30/2002	C	962.1	67.57	894.53
GMW-01	1/30/2003	C	962.1	64.55	897.55
GMW-01	4/30/2003	C	962.1	66.85	895.25
GMW-01	8/8/2003	C	962.1	73.6	888.5
GMW-01	10/28/2003	C	962.1	69.3	892.8
GMW-01	1/28/2004	C	962.1	65.65	896.45
GMW-01	4/28/2004	C	962.1	69.6	892.5
GMW-01	7/29/2004	C	962.1	80.35	881.75
GMW-01	11/1/2004	C	962.1	71.5	890.6
GMW-01	1/27/2005	C	962.1	66.55	895.55
GMW-01	5/5/2005	C	962.1	70	892.1
GMW-01	7/27/2005	C	962.1	75.3	886.8
GMW-01	10/26/2005	C	962.1	67.78	894.32
GMW-01	1/26/2006	C	962.1	66.6	895.5
GMW-01	5/2/2006	C	962.1	69.8	892.3
GMW-01	7/25/2006	C	962.1	77.2	884.9
GMW-01	10/30/2006	C	962.1	70.5	891.6
GMW-01	1/29/2007	C	962.1	68.45	893.65
GMW-01	5/2/2007	C	962.1	71.65	890.45
GMW-01	7/31/2007	C	962.1	81.4	880.7
GMW-01	10/11/2007	C	962.1	76.84	885.26
GMW-01	1/7/2008	C	962.1	67.98	894.12
GMW-01	4/14/2008	C	962.1	72.29	889.81
GMW-01	8/1/2008	C	962.1	80.91	881.19
GMW-01	11/17/2008	C	962.1	72.44	889.66
GMW-01	2/17/2009	C	962.1	68.32	893.78
GMW-01	5/19/2009	C	962.1	72.4	889.7
GMW-01	8/25/2009	C	964.16	79.25	884.91
GMW-01	9/21/2009	C	964.16	79.78	884.38
GMW-01	10/19/2009	C	964.16	77.39	886.77
GMW-01	11/18/2009	C	964.16	73.74	890.42
GMW-01	2/3/2010	C	964.16	70	894.16
GMW-01	5/4/2010	C	964.16	71.96	892.2
GMW-01	8/23/2010	C	964.16	78.69	885.47
GMW-01	11/29/2010	C	964.16	70.51	893.65
GMW-01	2/3/2011	C	964.16	68.06	896.1
GMW-01	5/2/2011	C	964.16	73.44	890.72
GMW-01	8/1/2011	C	964.16	78.82	885.34
GMW-01	11/1/2011	C	964.16	76.72	887.44
GMW-01	12/2/2011	C	963.28	73	890.28
GMW-01	2/1/2012	C	963.28	74.23	889.05
GMW-01	3/2/2012	C	963.28	70.25	893.03
GMW-01	4/2/2012	C	963.28	73.25	890.03
GMW-01	5/1/2012	C	963.35	73.98	889.37
GMW-01	6/1/2012	C	963.28	74.68	888.6
GMW-01	7/2/2012	C	963.28	80.69	882.59
GMW-01	8/1/2012	C	963.28	81.22	882.06
GMW-01	9/4/2012	C	963.28	81.8	881.48
GMW-01	10/1/2012	C	963.28	78.68	884.6
GMW-01	11/2/2012	C	963.28	75.08	888.2
GMW-01	12/3/2012	C	963.28	72.89	890.39

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-01	2/5/2013	C	963.28	72	891.28
GMW-01	5/1/2013	C	963.28	76.19	887.09
GMW-01	8/6/2013	C	964.16	84.9	879.26
GMW-01	11/5/2013	C	964.16	77.16	887
GMW-02	8/25/1992	C	962.35	59.5	902.85
GMW-02	1/27/1993	C	962.35	51	911.35
GMW-02	2/5/1993	C	962.35	50.4	911.95
GMW-02	4/5/1995	C	962.35	57.72	904.63
GMW-02	4/12/1995	C	962.35	59.7	902.65
GMW-02	4/18/1995	C	962.35	57.21	905.14
GMW-02	4/25/1995	C	962.35	56.48	905.87
GMW-02	5/4/1995	C	962.35	56.04	906.31
GMW-02	5/16/1995	C	962.35	55.5	906.85
GMW-02	5/24/1995	C	962.35	56.04	906.31
GMW-02	6/2/1995	C	962.35	60.15	902.2
GMW-02	6/6/1995	C	962.35	60.58	901.77
GMW-02	6/15/1995	C	962.35	64.45	897.9
GMW-02	6/23/1995	C	962.35	63.14	899.21
GMW-02	6/29/1995	C	962.35	66.79	895.56
GMW-02	7/7/1995	C	962.35	97.34	865.01
GMW-02	7/21/1995	C	962.35	67.53	894.82
GMW-02	7/28/1995	C	962.35	67.53	894.82
GMW-02	8/2/1995	C	962.35	67.53	894.82
GMW-02	8/11/1995	C	962.35	67.53	894.82
GMW-02	8/15/1995	C	962.35	67.53	894.82
GMW-02	8/23/1995	C	962.35	65.46	896.89
GMW-02	8/31/1995	C	962.35	67.54	894.81
GMW-02	9/6/1995	C	962.35	62.77	899.58
GMW-02	9/13/1995	C	962.35	60.26	902.09
GMW-02	9/22/1995	C	962.35	61.01	901.34
GMW-02	9/28/1995	C	962.35	57.78	904.57
GMW-02	10/6/1995	C	962.35	59.3	903.05
GMW-02	10/31/1995	C	962.35	56.9	905.45
GMW-02	11/30/1995	C	962.35	55.57	906.78
GMW-02	12/30/1995	C	962.35	55.75	906.6
GMW-02	1/15/1996	C	962.35	54.97	907.38
GMW-02	2/11/1996	C	962.35	55.43	906.92
GMW-02	3/18/1996	C	962.35	59.19	903.16
GMW-02	4/29/1996	C	962.35	61.31	901.04
GMW-02	5/28/1996	C	962.35	61.48	900.87
GMW-02	6/17/1996	C	962.35	64.52	897.83
GMW-02	7/24/1996	C	962.35	67.53	894.82
GMW-02	8/19/1996	C	962.35	67.48	894.87
GMW-02	9/27/1996	C	962.35	63.01	899.34
GMW-02	10/28/1996	C	962.35	60.36	901.99
GMW-02	1/16/1997	C	962.35	58.19	904.16
GMW-02	4/28/1997	C	962.35	85	877.35
GMW-02	7/29/1997	C	962.35	85	877.35
GMW-02	10/22/1997	C	962.35	85	962.35
GMW-02	1/29/1998	C	962.35	85	877.35
GMW-02	5/1/1998	C	962.35	85	877.35
GMW-02	7/27/1998	C	962.35	85	877.35
GMW-02	10/29/1998	C	962.35	85	877.35

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-02	1/28/1999	C	962.35	85	877.35
GMW-02	4/29/1999	C	962.35	85	877.35
GMW-02	8/4/1999	C	962.35	84.99	877.36
GMW-02	10/12/1999	C	962.35	84.99	877.36
GMW-02	2/9/2000	C	962.35	84.99	877.36
GMW-02	5/2/2000	C	962.35	84.99	877.36
GMW-02	8/2/2000	C	962.35	84.99	877.36
GMW-02	10/16/2000	C	962.35	84.99	877.36
GMW-02	1/31/2001	C	962.35	84.99	877.36
GMW-02	5/24/2001	C	962.35	84.99	877.36
GMW-02	7/31/2001	C	962.35	84.99	877.36
GMW-02	10/29/2001	C	962.35	84.99	877.36
GMW-02	1/30/2002	C	962.35	62.1	900.25
GMW-02	5/13/2002	C	962.35	66.75	895.6
GMW-02	5/14/2002	C	973.17	64.41	908.76
GMW-02	7/30/2002	C	973.17	66.24	906.93
GMW-02	7/30/2002	C	962.35	78.05	884.3
GMW-02	10/30/2002	C	962.35	68.05	894.3
GMW-02	1/30/2003	C	962.35	64.9	897.45
GMW-02	4/30/2003	C	962.35	67.3	895.05
GMW-02	8/8/2003	C	962.35	74.05	888.3
GMW-02	10/28/2003	C	962.35	69.9	892.45
GMW-02	1/28/2004	C	962.35	66.1	896.25
GMW-02	4/28/2004	C	962.35	70.05	892.3
GMW-02	7/29/2004	C	962.35	80.58	881.77
GMW-02	11/1/2004	C	962.35	71.8	890.55
GMW-02	1/27/2005	C	962.35	66.75	895.6
GMW-02	5/5/2005	C	962.35	70.57	891.78
GMW-02	7/27/2005	C	962.35	75.6	886.75
GMW-02	10/26/2005	C	962.35	68	894.35
GMW-02	1/26/2006	C	962.35	66.85	895.5
GMW-02	5/2/2006	C	962.35	69.9	892.45
GMW-02	7/25/2006	C	962.35	77.25	885.1
GMW-02	10/30/2006	C	962.35	70.7	891.65
GMW-02	1/29/2007	C	962.35	68.6	893.75
GMW-02	5/2/2007	C	962.35	71.7	890.65
GMW-02	7/31/2007	C	962.35	82.4	879.95
GMW-02	10/10/2007	C	962.35	76.15	886.2
GMW-02	1/8/2008	C	962.35	70.6	891.75
GMW-02	4/14/2008	C	962.35	72.4	889.95
GMW-02	8/4/2008	C	962.35	80.37	881.98
GMW-02	11/17/2008	C	962.35	72.66	889.69
GMW-02	2/17/2009	C	962.35	68.63	893.72
GMW-02	5/18/2009	C	962.35	72.6	889.75
GMW-02	8/25/2009	C	964.41	79.5	884.91
GMW-02	9/21/2009	C	964.41	80.1	884.31
GMW-02	10/19/2009	C	964.41	78.37	886.04
GMW-02	11/17/2009	C	964.41	74.3	890.11
GMW-02	2/2/2010	C	964.41	69.84	894.57
GMW-02	5/6/2010	C	964.41	71.41	893
GMW-02	8/23/2010	C	964.41	79.11	885.3
GMW-02	11/29/2010	C	964.41	70.8	893.61
GMW-02	2/3/2011	C	964.41	67.34	897.07

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-02	5/2/2011	C	964.41	73.59	890.82
GMW-02	8/1/2011	C	964.41	79.01	885.4
GMW-02	11/1/2011	C	964.41	76.94	887.47
GMW-02	12/2/2011	C	963.35	73.16	890.19
GMW-02	2/1/2012	C	963.35	74.44	888.91
GMW-02	3/2/2012	C	963.35	70.44	892.91
GMW-02	4/2/2012	C	963.35	73.5	889.85
GMW-02	5/1/2012	C	963.357	74.12	889.237
GMW-02	8/1/2012	C	963.35	81.67	881.68
GMW-02	9/4/2012	C	963.35	81.92	881.43
GMW-02	10/1/2012	C	963.35	78.86	884.49
GMW-02	11/2/2012	C	963.35	75.29	888.06
GMW-02	12/3/2012	C	963.35	73.13	890.22
GMW-02	2/4/2013	C	963.35	71.73	891.62
GMW-02	5/1/2013	C	963.35	77.61	885.74
GMW-02	8/6/2013	C	964.41	86.92	877.49
GMW-02	11/5/2013	C	964.41	77.26	887.15
GMW-03	5/20/1985	A	962.2	53.34	908.86
GMW-03	5/21/1985	A	962.2	53.31	908.89
GMW-03	5/22/1985	A	962.2	53.31	908.89
GMW-03	5/23/1985	A	962.2	53.31	908.89
GMW-03	5/24/1985	A	962.2	53.24	908.96
GMW-03	5/29/1985	A	962.2	53.3	908.9
GMW-03	5/30/1985	A	962.2	53.39	908.81
GMW-03	5/31/1985	A	962.2	53.51	908.69
GMW-03	6/20/1985	A	962.2	51.94	910.26
GMW-03	7/25/1985	A	962.2	51.84	910.36
GMW-03	8/30/1985	A	962.2	52.36	909.84
GMW-03	9/17/1985	A	962.2	52.2	910
GMW-03	10/16/1985	A	962.2	51.62	910.58
GMW-03	11/18/1985	A	962.2	50.95	911.25
GMW-03	12/17/1985	A	962.2	50.52	911.68
GMW-03	1/16/1986	A	962.2	50.13	912.07
GMW-03	2/19/1986	A	962.2	49.49	912.71
GMW-03	3/18/1986	A	962.2	49.39	912.81
GMW-03	5/22/1986	A	962.2	49.29	912.91
GMW-03	6/17/1986	A	962.2	49.59	912.61
GMW-03	7/14/1986	A	962.2	50.01	912.19
GMW-03	8/15/1986	A	962.2	50.61	911.59
GMW-03	9/23/1986	A	962.2	50.57	911.63
GMW-03	10/16/1986	A	962.2	50.3	911.9
GMW-03	11/14/1986	A	962.2	50.07	912.13
GMW-03	12/15/1986	A	962.2	49.36	912.84
GMW-03	1/15/1987	A	962.2	50.7	911.5
GMW-03	2/20/1987	A	962.2	50.9	911.3
GMW-03	3/17/1987	A	962.2	50.9	911.3
GMW-03	4/17/1987	A	962.2	50.7	911.5
GMW-03	5/20/1987	A	962.2	51.4	910.8
GMW-03	6/19/1987	A	962.2	51.54	910.66
GMW-03	7/17/1987	A	962.2	51.92	910.28
GMW-03	8/25/1987	A	962.2	52.35	909.85
GMW-03	9/28/1987	A	962.2	52	910.2
GMW-03	10/22/1987	A	962.2	51.77	910.43

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-03	11/24/1987	A	962.2	51.45	910.75
GMW-03	1/7/1988	A	962.2	51.25	910.95
GMW-03	1/22/1988	A	962.2	50.67	911.53
GMW-03	1/23/1988	A	962.2	50.7	911.5
GMW-03	1/24/1988	A	962.2	50.85	911.35
GMW-03	1/25/1988	A	962.2	50.85	911.35
GMW-03	1/26/1988	A	962.2	50.78	911.42
GMW-03	1/27/1988	A	962.2	50.78	911.42
GMW-03	1/28/1988	A	962.2	50.8	911.4
GMW-03	1/29/1988	A	962.2	50.7	911.5
GMW-03	1/30/1988	A	962.2	50.66	911.54
GMW-03	1/31/1988	A	962.2	50.73	911.47
GMW-03	2/15/1988	A	962.2	50.97	911.23
GMW-03	3/8/1988	A	962.2	50.79	911.41
GMW-03	4/13/1988	A	962.2	50.79	911.41
GMW-03	5/23/1988	A	962.2	50.66	911.54
GMW-03	6/28/1988	A	962.2	51.84	910.36
GMW-03	7/15/1988	A	962.2	52.55	909.65
GMW-03	8/10/1988	A	962.2	52.9	909.3
GMW-03	9/7/1988	A	962.2	53.27	908.93
GMW-03	11/28/1988	A	962.2	54.25	907.95
GMW-03	1/19/1989	A	962.2	51.55	910.65
GMW-03	2/14/1989	A	962.2	51.25	910.95
GMW-03	3/14/1989	A	962.2	51.42	910.78
GMW-03	4/19/1989	A	962.2	51.96	910.24
GMW-03	5/11/1989	A	962.2	52.27	909.93
GMW-03	6/1/1989	A	962.2	66.65	895.55
GMW-03	7/24/1989	A	962.2	67.6	894.6
GMW-03	8/24/1989	A	962.2	68.42	893.78
GMW-03	9/19/1989	A	962.2	68.19	894.01
GMW-03	10/19/1989	A	962.2	68.73	893.47
GMW-03	11/20/1989	A	962.2	68.49	893.71
GMW-03	12/13/1989	A	962.2	68.27	893.93
GMW-03	1/22/1990	A	962.2	54.3	907.9
GMW-03	1/23/1990	A	962.2	54.27	907.93
GMW-03	1/24/1990	A	962.2	54.4	907.8
GMW-03	1/25/1990	A	962.2	54.6	907.6
GMW-03	1/26/1990	A	962.2	54.35	907.85
GMW-03	1/29/1990	A	962.2	54.35	907.85
GMW-03	1/30/1990	A	962.2	54.2	908
GMW-03	1/31/1990	A	962.2	54.6	907.6
GMW-03	2/1/1990	A	962.2	54.35	907.85
GMW-03	2/2/1990	A	962.2	54.5	907.7
GMW-03	2/8/1990	A	962.2	54.5	907.7
GMW-03	4/19/1990	A	962.2	54.95	907.25
GMW-03	7/19/1990	A	962.2	63.55	898.65
GMW-03	10/21/1990	A	962.2	58	904.2
GMW-03	1/23/1991	A	962.2	58	904.2
GMW-03	2/16/1991	A	962.2	58.1	904.1
GMW-03	3/15/1991	A	962.2	56.8	905.4
GMW-03	4/22/1991	A	962.2	62.8	899.4
GMW-03	5/19/1991	A	962.2	59.1	903.1
GMW-03	6/20/1991	A	962.2	67.85	894.35

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-03	7/21/1991	A	962.2	71.5	890.7
GMW-03	8/18/1991	A	962.2	68.65	893.55
GMW-03	9/22/1991	A	962.2	62.55	913.45
GMW-03	10/31/1991	A	962.2	60.5	901.7
GMW-03	11/17/1991	A	962.2	59.1	903.1
GMW-03	1/29/1992	A	962.2	56.35	905.85
GMW-03	2/21/1992	A	962.2	56	906.2
GMW-03	3/29/1992	A	962.2	55.35	906.85
GMW-03	4/22/1992	A	962.2	54.7	907.5
GMW-03	5/15/1992	A	962.2	54.6	907.6
GMW-03	6/28/1992	A	962.2	54.1	908.1
GMW-03	7/30/1992	A	962.2	54.1	908.1
GMW-03	8/24/1992	A	962.2	54.15	908.05
GMW-03	10/8/1992	A	962.2	53.1	909.1
GMW-03	10/28/1992	A	962.2	52.8	909.4
GMW-03	11/23/1992	A	962.2	52.4	909.8
GMW-03	1/4/1993	A	962.2	52.2	910
GMW-03	1/26/1993	A	962.2	50	912.2
GMW-03	2/5/1993	A	962.2	51.7	910.5
GMW-03	5/18/1993	A	962.2	46.7	915.5
GMW-03	6/10/1993	A	962.2	46.4	915.8
GMW-03	6/22/1993	A	962.2	46.3	915.9
GMW-03	7/14/1993	A	962.2	46.7	915.5
GMW-03	8/11/1993	A	962.2	47.1	915.1
GMW-03	9/24/1993	A	962.2	47.5	914.7
GMW-03	10/28/1993	A	962.2	47.6	914.6
GMW-03	11/23/1993	A	962.2	47.7	914.5
GMW-03	12/14/1993	A	962.2	47.5	914.7
GMW-03	1/26/1994	A	962.2	47.8	914.4
GMW-03	2/25/1994	A	962.2	48.1	914.1
GMW-03	3/23/1994	A	962.2	48.1	914.1
GMW-03	4/27/1994	A	962.2	49	913.2
GMW-03	5/26/1994	A	962.2	49.3	912.9
GMW-03	6/1/1994	A	962.2	49.3	912.9
GMW-03	7/22/1994	A	962.2	52.3	909.9
GMW-03	8/24/1994	A	962.2	53.8	908.4
GMW-03	9/22/1994	A	962.2	53.4	908.8
GMW-03	10/12/1994	A	962.2	53.3	908.9
GMW-03	11/18/1994	A	962.2	53.3	908.9
GMW-03	12/29/1994	A	962.2	53	909.2
GMW-03	1/30/1995	A	962.2	52.9	909.3
GMW-03	2/23/1995	A	962.2	52.4	909.8
GMW-03	3/30/1995	A	962.2	51.4	910.8
GMW-03	4/5/1995	A	962.2	51.24	910.96
GMW-03	4/12/1995	A	962.2	51.2	911
GMW-03	4/18/1995	A	962.2	50.96	911.24
GMW-03	4/21/1995	A	962.2	51.1	911.1
GMW-03	4/25/1995	A	962.2	50.76	911.44
GMW-03	5/4/1995	A	962.2	50.59	911.61
GMW-03	5/16/1995	A	962.2	50.4	911.8
GMW-03	5/24/1995	A	962.2	50.39	911.81
GMW-03	5/26/1995	A	962.2	50.5	911.7
GMW-03	6/2/1995	A	962.2	50.33	911.87

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-03	6/6/1995	A	962.2	50.25	911.95
GMW-03	6/15/1995	A	962.2	50.37	911.83
GMW-03	6/23/1995	A	962.2	50.64	911.56
GMW-03	6/23/1995	A	962.2	50.6	911.6
GMW-03	6/29/1995	A	962.2	50.78	911.42
GMW-03	7/7/1995	A	962.2	50.94	911.26
GMW-03	7/21/1995	A	962.2	51.42	910.78
GMW-03	7/27/1995	A	962.2	51.9	910.3
GMW-03	7/28/1995	A	962.2	51.71	910.49
GMW-03	8/2/1995	A	962.2	51.82	910.38
GMW-03	8/11/1995	A	962.2	52.32	909.88
GMW-03	8/15/1995	A	962.2	52.31	909.89
GMW-03	8/23/1995	A	962.2	52.46	909.74
GMW-03	8/30/1995	A	962.2	52.84	909.36
GMW-03	8/31/1995	A	962.2	52.55	909.65
GMW-03	9/6/1995	A	962.2	52.74	909.46
GMW-03	9/13/1995	A	962.2	52.65	909.55
GMW-03	9/22/1995	A	962.2	52.63	909.57
GMW-03	9/28/1995	A	962.2	52.53	909.67
GMW-03	9/29/1995	A	962.2	52.81	909.39
GMW-03	10/6/1995	A	962.2	52.45	909.75
GMW-03	10/27/1995	A	962.2	52.66	909.54
GMW-03	10/31/1995	A	962.2	52.23	909.97
GMW-03	11/28/1995	A	962.2	52.32	909.88
GMW-03	11/30/1995	A	962.2	51.98	910.22
GMW-03	12/30/1995	A	962.2	52.01	910.19
GMW-03	12/30/1995	A	962.2	52.29	909.91
GMW-03	1/15/1996	A	962.2	52.02	910.18
GMW-03	1/31/1996	A	962.2	52.09	910.11
GMW-03	2/11/1996	A	962.2	52.01	910.19
GMW-03	2/20/1996	A	962.2	52.3	909.9
GMW-03	3/18/1996	A	962.2	52.08	910.12
GMW-03	3/30/1996	A	962.2	52.61	909.59
GMW-03	4/29/1996	A	962.2	53.1	909.1
GMW-03	4/29/1996	A	962.2	53.06	909.14
GMW-03	5/28/1996	A	962.2	53.3	908.9
GMW-03	5/31/1996	A	962.2	53.68	908.52
GMW-03	6/17/1996	A	962.2	53.85	908.35
GMW-03	6/28/1996	A	962.2	54.45	907.75
GMW-03	7/24/1996	A	962.2	51.5	910.7
GMW-03	7/30/1996	A	962.2	55.2	907
GMW-03	8/19/1996	A	962.2	55.64	906.56
GMW-03	8/30/1996	A	962.2	56.08	906.12
GMW-03	9/27/1996	A	962.2	55.65	906.55
GMW-03	9/28/1996	A	962.2	55.93	906.27
GMW-03	10/28/1996	A	962.2	55.49	906.71
GMW-03	10/29/1996	A	962.2	55.8	906.4
GMW-03	1/15/1997	A	962.2	54.7	907.5
GMW-03	1/16/1997	A	962.2	54.3	907.9
GMW-03	4/28/1997	A	962.2	55.72	906.48
GMW-03	4/28/1997	A	962.2	55.45	906.75
GMW-03	7/29/1997	A	962.2	58.65	962.2
GMW-03	7/29/1997	A	962.2	58.55	903.65

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-03	10/22/1997	A	962.2	58.29	962.2
GMW-03	1/29/1998	A	962.2	57.9	904.3
GMW-03	1/29/1998	A	962.2	57.55	904.65
GMW-03	5/8/1998	A	962.2	55.95	906.25
GMW-03	7/28/1998	A	962.2	55.55	906.65
GMW-03	10/29/1998	A	962.2	55.37	906.83
GMW-03	1/28/1999	A	962.2	55.05	907.15
GMW-03	4/28/1999	A	962.2	56	906.2
GMW-03	8/4/1999	A	962.2	57.85	904.35
GMW-03	10/13/1999	A	962.2	57.9	904.3
GMW-03	2/9/2000	A	962.2	57.3	904.9
GMW-03	5/2/2000	A	962.2	57.5	904.7
GMW-03	8/2/2000	A	962.2	59.13	903.07
GMW-03	10/25/2000	A	962.2	59.47	902.73
GMW-03	1/30/2001	A	962.2	57.2	905
GMW-03	5/24/2001	A	962.2	56.65	905.55
GMW-03	7/31/2001	A	962.2	59.9	902.3
GMW-03	10/29/2001	A	962.2	58.2	904
GMW-03	1/30/2002	A	962.2	58	904.2
GMW-03	5/13/2002	A	962.2	59	903.2
GMW-03	5/14/2002	A	971.52	61.18	910.34
GMW-03	7/30/2002	A	971.52	62.91	908.61
GMW-03	7/30/2002	A	962.2	61.05	901.15
GMW-03	10/30/2002	A	962.2	61.83	900.37
GMW-03	1/30/2003	A	962.2	61.2	901
GMW-03	4/30/2003	A	962.2	60.85	901.35
GMW-03	8/8/2003	A	962.2	62.55	899.65
GMW-03	10/28/2003	A	962.2	62.85	899.35
GMW-03	1/28/2004	A	962.2	62.85	899.35
GMW-03	4/28/2004	A	962.2	62.8	899.4
GMW-03	7/29/2004	A	962.2	63.5	898.7
GMW-03	11/1/2004	A	962.2	64.7	897.5
GMW-03	1/27/2005	A	962.2	64.7	897.5
GMW-03	5/5/2005	A	962.2	62.2	900
GMW-03	7/27/2005	A	962.2	61.7	900.5
GMW-03	10/26/2005	A	962.2	61.4	900.8
GMW-03	1/26/2006	A	962.2	61.05	901.15
GMW-03	5/2/2006	A	962.2	61.45	900.75
GMW-03	7/25/2006	A	962.2	62.1	900.1
GMW-03	10/30/2006	A	962.2	62.3	899.9
GMW-03	1/29/2007	A	962.2	62.8	899.4
GMW-03	5/2/2007	A	962.2	63.1	899.1
GMW-03	7/31/2007	A	962.2	65.2	897
GMW-03	10/10/2007	A	962.2	66.29	895.91
GMW-03	1/10/2008	A	962.2	65.64	896.56
GMW-03	4/15/2008	A	962.2	65.48	896.72
GMW-03	8/1/2008	A	962.2	65.25	896.95
GMW-03	11/17/2008	A	962.2	65.73	896.47
GMW-03	2/18/2009	A	962.2	65.14	897.06
GMW-03	5/19/2009	A	962.2	65.9	896.3
GMW-03	8/25/2009	A	963.64	68.2	895.44
GMW-03	11/18/2009	A	964.26	67.8	896.46
GMW-03	2/5/2010	A	963.64	67.63	896.01

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-03	5/7/2010	A	963.64	66.05	897.59
GMW-03	8/23/2010	A	963.64	65.84	897.8
GMW-03	11/29/2010	A	963.64	65.7	897.94
GMW-03	2/3/2011	A	963.64	65.33	898.31
GMW-03	5/2/2011	A	963.64	65.34	898.3
GMW-03	8/1/2011	A	963.64	67	896.64
GMW-03	11/2/2011	A	963.64	62.25	901.39
GMW-03	2/1/2012	A	963.357	67.43	895.927
GMW-03	3/2/2012	A	963.357	67.29	896.067
GMW-03	4/2/2012	A	963.357	67.06	896.297
GMW-03	5/1/2012	A	966.396	67	899.396
GMW-03	6/1/2012	A	963.357	67.53	895.827
GMW-03	7/2/2012	A	963.357	68.2	895.157
GMW-03	8/1/2012	A	963.357	68.24	895.117
GMW-03	9/4/2012	A	963.357	68.91	894.447
GMW-03	10/1/2012	A	963.357	69.21	894.147
GMW-03	11/2/2012	A	963.357	69.12	894.237
GMW-03	12/3/2012	A	963.357	68.88	894.477
GMW-03	2/4/2013	A	963.357	68.81	894.547
GMW-03	5/1/2013	A	963.357	69.2	894.157
GMW-03	8/6/2013	A	963.64	70.6	893.04
GMW-03	11/5/2013	A	963.64	72.1	891.54
GMW-04	7/1/1989	A	965	67.08	897.92
GMW-04	11/20/1989	A	965	70	895
GMW-04	1/22/1990	A	965	55.9	909.1
GMW-04	1/23/1990	A	965	55.9	909.1
GMW-04	1/24/1990	A	965	55.9	909.1
GMW-04	1/25/1990	A	965	55.95	909.05
GMW-04	1/26/1990	A	965	59.85	905.15
GMW-04	1/29/1990	A	965	55.9	909.1
GMW-04	1/30/1990	A	965	55.8	909.2
GMW-04	1/31/1990	A	965	55.7	909.3
GMW-04	2/1/1990	A	965	55.85	909.15
GMW-04	2/2/1990	A	965	55.9	909.1
GMW-04	2/8/1990	A	965	55.9	909.1
GMW-04	4/19/1990	A	965	56.3	908.7
GMW-04	7/19/1990	A	965	57.95	907.05
GMW-04	10/21/1990	A	965	57.65	907.35
GMW-04	1/23/1991	A	965	56	909
GMW-04	2/16/1991	A	965	56.35	908.65
GMW-04	3/15/1991	A	965	56.45	908.55
GMW-04	4/22/1991	A	965	56.4	908.6
GMW-04	6/20/1991	A	965	56.75	908.25
GMW-04	7/21/1991	A	965	57.5	907.5
GMW-04	8/18/1991	A	965	58.4	906.6
GMW-04	9/22/1991	A	965	59	906
GMW-04	10/31/1991	A	965	58.85	906.15
GMW-04	11/17/1991	A	965	58.75	906.25
GMW-04	1/21/1992	A	965	57.8	907.2
GMW-04	2/21/1992	A	965	57.17	907.83
GMW-04	3/28/1992	A	965	56.35	908.65
GMW-04	4/22/1992	A	965	55.6	909.4
GMW-04	5/15/1992	A	965	55.15	909.85

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-04	6/28/1992	A	965	54.4	910.6
GMW-04	7/30/1992	A	965	54.5	910.5
GMW-04	8/24/1992	A	965	54.5	910.5
GMW-04	10/8/1992	A	965	53.6	911.4
GMW-04	10/28/1992	A	965	53.2	911.8
GMW-04	11/23/1992	A	965	52.8	912.2
GMW-04	12/15/1992	A	965	52.7	912.3
GMW-04	1/26/1993	A	965	51.65	913.35
GMW-04	2/5/1993	A	965	51.7	913.3
GMW-04	3/12/1993	A	965	49.7	915.3
GMW-04	4/15/1993	A	965	47.3	917.7
GMW-04	5/18/1993	A	965	46.2	918.8
GMW-04	6/10/1993	A	965	46.1	918.9
GMW-04	6/22/1993	A	965	46.2	918.8
GMW-04	7/14/1993	A	965	46.5	918.5
GMW-04	9/24/1993	A	965	48	917
GMW-04	11/23/1993	A	965	48.5	916.5
GMW-04	12/14/1993	A	965	48.3	916.7
GMW-04	12/23/1993	A	965	48.3	916.7
GMW-04	1/26/1994	A	965	48.5	916.5
GMW-04	2/25/1994	A	965	48.8	916.2
GMW-04	3/23/1994	A	965	49.1	915.9
GMW-04	4/27/1994	A	965	50	915
GMW-04	5/26/1994	A	965	50.5	914.5
GMW-04	6/1/1994	A	965	50.6	914.4
GMW-04	7/22/1994	A	965	53.3	911.7
GMW-04	8/24/1994	A	965	54.8	910.2
GMW-04	9/22/1994	A	965	54.8	910.2
GMW-04	10/12/1994	A	965	54.8	910.2
GMW-04	11/18/1994	A	965	54.7	910.3
GMW-04	12/29/1994	A	965	53.8	911.2
GMW-04	1/30/1995	A	965	54.5	910.5
GMW-04	2/23/1995	A	965	53.8	911.2
GMW-04	3/30/1995	A	965	52.6	912.4
GMW-04	4/21/1995	A	965	52	913
GMW-04	5/26/1995	A	965	51.3	913.7
GMW-04	6/23/1995	A	965	51.52	913.48
GMW-04	7/27/1995	A	965	52.55	912.45
GMW-04	8/30/1995	A	965	53.86	911.14
GMW-04	9/29/1995	A	965	54.13	910.87
GMW-04	10/27/1995	A	965	53.9	911.1
GMW-04	11/28/1995	A	965	53.65	911.35
GMW-04	12/30/1995	A	965	53.55	911.45
GMW-04	1/31/1996	A	965	53.65	911.35
GMW-04	2/20/1996	A	965	53.7	911.3
GMW-04	3/30/1996	A	965	54.15	910.85
GMW-04	4/29/1996	A	965	54.79	910.21
GMW-04	5/30/1996	A	965	55.32	909.68
GMW-04	6/28/1996	A	965	55.95	909.05
GMW-04	7/31/1996	A	965	56.9	908.1
GMW-04	8/30/1996	A	965	57.54	907.46
GMW-04	9/28/1996	A	965	57.6	907.4
GMW-04	10/29/1996	A	965	57.3	907.7

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-04	1/16/1997	A	965	56.58	908.42
GMW-04	4/28/1997	A	965	57.56	907.44
GMW-04	7/29/1997	A	965	61	904
GMW-04	1/29/1998	A	965	60	905
GMW-04	5/8/1998	A	965	57.72	907.28
GMW-04	7/28/1998	A	965	57.05	907.95
GMW-04	10/29/1998	A	965	57.2	907.8
GMW-04	1/28/1999	A	965	57	908
GMW-04	4/28/1999	A	965	58	907
GMW-04	8/4/1999	A	965	60.03	904.97
GMW-04	10/13/1999	A	965	60.45	904.55
GMW-04	2/9/2000	A	965	59.65	905.35
GMW-04	5/2/2000	A	965	59.75	905.25
GMW-04	8/2/2000	A	965	61.2	903.8
GMW-04	10/25/2000	A	965	62	903
GMW-04	1/30/2001	A	965	58.95	906.05
GMW-04	5/24/2001	A	965	58.38	906.62
GMW-04	7/30/2001	A	965	59.3	905.7
GMW-04	10/29/2001	A	965	62.9	902.1
GMW-04	1/30/2002	A	965	60.2	904.8
GMW-04	5/13/2002	A	965	61.5	903.5
GMW-04	5/14/2002	A	966.57	61.65	904.92
GMW-04	5/14/2002	A	965	61.38	903.62
GMW-04	7/30/2002	A	966.57	63.8	902.77
GMW-04	7/30/2002	A	965	63.34	901.66
GMW-04	7/30/2002	A	965	63.32	901.68
GMW-04	10/30/2002	A	965	64.45	900.55
GMW-04	1/30/2003	A	965	63.85	901.15
GMW-04	4/30/2003	A	965	62.9	902.1
GMW-04	8/7/2003	A	965	64.75	900.25
GMW-04	10/28/2003	A	965	65.25	899.75
GMW-04	1/28/2004	A	965	64.8	900.2
GMW-04	4/28/2004	A	965	65.2	899.8
GMW-04	7/30/2004	A	965	66.4	898.6
GMW-04	11/1/2004	A	965	67.45	897.55
GMW-04	1/27/2005	A	965	66.8	898.2
GMW-04	5/5/2005	A	965	63.4	901.6
GMW-04	7/27/2005	A	965	63	902
GMW-04	10/26/2005	A	965	63.4	901.6
GMW-04	1/26/2006	A	965	62.9	902.1
GMW-04	5/2/2006	A	965	63.65	901.35
GMW-04	7/25/2006	A	965	64.85	900.15
GMW-04	10/31/2006	A	965	65.25	899.75
GMW-04	1/29/2007	A	965	65	900
GMW-04	4/30/2007	A	965	66.1	898.9
GMW-04	7/31/2007	A	965	68.1	896.9
GMW-04	10/10/2007	A	965	69.24	895.76
GMW-04	1/10/2008	A	965	68.86	896.14
GMW-04	4/14/2008	A	965	66.94	898.06
GMW-04	8/1/2008	A	965	68.13	896.87
GMW-04	11/17/2008	A	965	68.34	896.66
GMW-04	2/18/2009	A	965	67.73	897.27
GMW-04	5/19/2009	A	965	68.5	896.5

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-04	8/25/2009	A	966.62	70.65	895.97
GMW-04	11/18/2009	A	967.06	70.88	896.18
GMW-04	2/4/2010	A	966.62	70.67	895.95
GMW-04	5/10/2010	A	966.62	68.72	897.9
GMW-04	11/29/2010	A	966.62	68.05	898.57
GMW-04	2/3/2011	A	966.62	67.27	899.35
GMW-04	5/2/2011	A	966.62	67.37	899.25
GMW-04	8/1/2011	A	966.62	69.15	897.47
GMW-04	2/1/2012	A	966.62	69.9	907.156
GMW-04	3/2/2012	A	966.62	69.59	907.466
GMW-04	4/2/2012	A	966.396	69.39	907.666
GMW-04	5/1/2012	A	966.396	60.12	907.708
GMW-04	6/1/2012	A	966.396	70.34	906.716
GMW-04	7/2/2012	A	966.396	70.9	906.156
GMW-04	8/3/2012	A	966.396	71.34	895.28
GMW-04	9/4/2012	A	966.396	71.79	894.606
GMW-04	10/1/2012	A	966.396	72.04	894.356
GMW-04	11/2/2012	A	966.396	71.73	894.666
GMW-04	12/3/2012	A	966.396	71.48	894.916
GMW-04	2/4/2013	A	966.396	71.3	895.096
GMW-04	5/1/2013	A	966.396	71.59	894.806
GMW-04	8/6/2013	A	966.62	73.06	893.56
GMW-04	11/4/2013	A	966.62	74.33	892.29
GMW-05	7/1/1989	A	959.45	47.33	912.12
GMW-05	11/20/1989	A	959.45	50.2	909.25
GMW-05	1/22/1990	A	959.45	50.3	909.15
GMW-05	1/23/1990	A	959.45	50.23	909.22
GMW-05	1/24/1990	A	959.45	50.25	909.2
GMW-05	1/25/1990	A	959.45	50.3	909.15
GMW-05	1/26/1990	A	959.45	50.25	909.2
GMW-05	1/29/1990	A	959.45	50.25	909.2
GMW-05	1/30/1990	A	959.45	50.15	909.3
GMW-05	1/31/1990	A	959.45	50	909.45
GMW-05	2/1/1990	A	959.45	50.2	909.25
GMW-05	2/2/1990	A	959.45	50.25	909.2
GMW-05	2/8/1990	A	959.45	50.3	909.15
GMW-05	4/19/1990	A	959.45	50.65	908.8
GMW-05	7/19/1990	A	959.45	52.15	907.3
GMW-05	10/21/1990	A	959.45	51.75	907.7
GMW-05	1/23/1991	A	959.45	50.65	908.8
GMW-05	2/16/1991	A	959.45	50.5	908.95
GMW-05	3/15/1991	A	959.45	50.7	908.75
GMW-05	4/22/1991	A	959.45	50.65	908.8
GMW-05	5/19/1991	A	959.45	50.65	908.8
GMW-05	6/20/1991	A	959.45	50.8	908.65
GMW-05	7/21/1991	A	959.45	51.6	907.85
GMW-05	8/18/1991	A	959.45	52.4	907.05
GMW-05	9/22/1991	A	959.45	53	906.45
GMW-05	1/27/1993	A	959.45	46.55	912.9
GMW-05	7/14/1993	A	959.45	40.8	918.65
GMW-05	8/11/1993	A	959.45	41.6	917.85
GMW-05	9/24/1993	A	959.45	42.5	916.95
GMW-05	10/28/1993	A	959.45	42.8	916.65

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-05	11/23/1993	A	959.45	43	916.45
GMW-05	12/14/1993	A	959.45	42.8	916.65
GMW-05	1/26/1994	A	959.45	43.1	916.35
GMW-05	2/25/1994	A	959.45	43.4	916.05
GMW-05	3/23/1994	A	959.45	43.7	915.75
GMW-05	4/27/1994	A	959.45	44.6	914.85
GMW-05	5/26/1994	A	959.45	45.1	914.35
GMW-05	6/1/1994	A	959.45	45.3	914.15
GMW-05	7/22/1994	A	959.45	47.7	911.75
GMW-05	4/21/1995	A	959.45	46.6	912.85
GMW-05	5/26/1995	A	959.45	45.9	913.55
GMW-05	6/23/1995	A	959.45	46.06	913.39
GMW-05	7/27/1995	A	959.45	47.02	912.43
GMW-05	8/30/1995	A	959.45	48.25	911.2
GMW-05	9/29/1995	A	959.45	48.57	910.88
GMW-05	1/31/1996	A	959.45	48.14	911.31
GMW-05	2/20/1996	A	959.45	48.28	911.17
GMW-05	3/30/1996	A	959.45	48.69	910.76
GMW-05	4/29/1996	A	959.45	49.26	910.19
GMW-05	5/31/1996	A	959.45	49.75	909.7
GMW-05	6/28/1996	A	959.45	49.78	909.67
GMW-05	7/31/1996	A	959.45	51.05	908.4
GMW-05	8/30/1996	A	959.45	54.77	904.68
GMW-05	9/28/1996	A	959.45	51.87	907.58
GMW-05	10/29/1996	A	959.45	51.7	907.75
GMW-05	1/16/1997	A	959.45	51.05	908.4
GMW-05	4/28/1997	A	959.45	51.82	907.63
GMW-05	6/19/1997	A	959.45	53.18	906.27
GMW-05	7/29/1997	A	959.45	54.09	905.36
GMW-05	1/29/1998	A	959.45	54.25	905.2
GMW-05	5/8/1998	A	959.45	52.07	907.38
GMW-05	7/28/1998	A	959.45	51.25	908.2
GMW-05	10/29/1998	A	959.45	51.45	908
GMW-05	1/28/1999	A	959.45	51.4	908.05
GMW-05	4/28/1999	A	959.45	52.27	907.18
GMW-05	8/4/1999	A	959.45	54.15	905.3
GMW-05	10/13/1999	A	959.45	54.7	904.75
GMW-05	2/9/2000	A	959.45	54	905.45
GMW-05	5/2/2000	A	959.45	54	905.45
GMW-05	8/2/2000	A	959.45	55.35	904.1
GMW-05	10/25/2000	A	959.45	56.3	903.15
GMW-05	1/30/2001	A	959.45	53.5	905.95
GMW-05	5/24/2001	A	959.45	52.67	906.78
GMW-05	7/30/2001	A	959.45	53.5	905.95
GMW-05	10/29/2001	A	959.45	56.95	902.5
GMW-05	1/30/2002	A	959.45	54.5	904.95
GMW-05	5/13/2002	A	959.45	55.6	903.85
GMW-05	5/14/2002	A	966.83	60.92	905.91
GMW-05	5/14/2002	A	959.45	55.47	903.98
GMW-05	7/30/2002	A	966.83	62.65	904.18
GMW-05	7/30/2002	A	959.45	57.27	902.18
GMW-05	7/30/2002	A	959.45	57.25	902.2
GMW-05	10/30/2002	A	959.45	58.55	900.9

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-05	1/30/2003	A	959.45	58	901.45
GMW-05	4/30/2003	A	959.45	57.1	902.35
GMW-05	8/7/2003	A	959.45	58.62	900.83
GMW-05	10/28/2003	A	959.45	59.15	900.3
GMW-05	1/28/2004	A	959.45	59	900.45
GMW-05	4/28/2004	A	959.45	58.95	900.5
GMW-05	7/30/2004	A	959.45	60	899.45
GMW-05	11/1/2004	A	959.45	61.1	898.35
GMW-05	1/27/2005	A	959.45	60.53	898.92
GMW-05	5/5/2005	A	959.45	57.47	901.98
GMW-05	7/27/2005	A	959.45	56.7	902.75
GMW-05	10/26/2005	A	959.45	57	902.45
GMW-05	1/26/2006	A	959.45	56.8	902.65
GMW-05	5/2/2006	A	959.45	57.35	902.1
GMW-05	7/25/2006	A	959.45	58.4	901.05
GMW-05	10/31/2006	A	959.45	59.1	900.35
GMW-05	1/29/2007	A	959.45	58.95	900.5
GMW-05	4/30/2007	A	959.45	55.65	903.8
GMW-05	7/31/2007	A	959.45	61.7	897.75
GMW-05	10/10/2007	A	959.45	62.86	896.59
GMW-05	1/10/2008	A	959.45	62.79	896.66
GMW-05	4/14/2008	A	959.45	60.78	898.67
GMW-05	8/1/2008	A	959.45	61.45	898
GMW-05	11/17/2008	A	959.45	62.29	897.16
GMW-05	2/1/2012	A	967.828	63.7	904.128
GMW-05	3/2/2012	A	967.828	63.78	904.048
GMW-05	4/2/2012	A	967.828	63.51	904.318
GMW-05	5/1/2012	A	967.828	63.73	904.098
GMW-05	6/1/2012	A	967.828	64.06	903.768
GMW-05	7/2/2012	A	967.828	64.53	903.298
GMW-05	8/1/2012	A	967.828	65.11	902.718
GMW-05	9/4/2012	A	967.828	65.53	902.298
GMW-05	10/1/2012	A	967.828	65.8	902.028
GMW-05	11/2/2012	A	967.828	65.72	902.108
GMW-05	12/3/2012	A	967.828	65.63	902.198
GMW-05	5/1/2013	A	967.828	65.41	902.418
GMW-06	1/15/1987	A	962.97	51.85	911.1
GMW-06	2/20/1987	A	962.97	51.75	911.2
GMW-06	3/17/1987	A	962.97	51.75	911.2
GMW-06	4/17/1987	A	962.97	51.65	911.3
GMW-06	5/20/1987	A	962.97	52.25	910.7
GMW-06	6/19/1987	A	962.97	52.37	910.58
GMW-06	7/17/1987	A	962.97	52.77	910.18
GMW-06	8/25/1987	A	962.97	53.25	909.7
GMW-06	9/29/1987	A	962.97	51.5	911.45
GMW-06	10/22/1987	A	962.97	52.93	910.02
GMW-06	11/24/1987	A	962.97	52.79	910.16
GMW-06	1/7/1988	A	962.97	52.3	910.65
GMW-06	2/15/1988	A	962.97	51.88	911.07
GMW-06	3/8/1988	A	962.97	51.71	911.24
GMW-06	4/13/1988	A	962.97	51.59	911.36
GMW-06	5/23/1988	A	962.97	51.59	911.36
GMW-06	6/28/1988	A	962.97	52.44	910.51

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-06	7/13/1988	A	962.97	52.72	910.23
GMW-06	8/10/1988	A	962.97	53.56	909.39
GMW-06	9/7/1988	A	962.97	54.05	908.9
GMW-06	11/28/1988	A	962.97	55.85	907.1
GMW-06	1/19/1989	A	962.97	51.65	911.3
GMW-06	2/14/1989	A	962.97	52.1	910.85
GMW-06	3/14/1989	A	962.97	52.17	910.78
GMW-06	7/1/1989	A	962.97	52.72	910.23
GMW-06	9/19/1989	A	962.97	55.15	907.8
GMW-06	11/20/1989	A	962.97	55.19	907.76
GMW-06	11/20/1989	A	962.97	55.19	907.76
GMW-06	1/22/1990	A	962.97	55.22	907.75
GMW-06	1/23/1990	A	962.97	55.12	907.85
GMW-06	1/24/1990	A	962.97	55.22	907.75
GMW-06	1/25/1990	A	962.97	55.22	907.75
GMW-06	1/26/1990	A	962.97	55.17	907.8
GMW-06	1/29/1990	A	962.97	55.17	907.8
GMW-06	1/30/1990	A	962.97	55.1	907.85
GMW-06	1/31/1990	A	962.97	55.1	907.85
GMW-06	2/1/1990	A	962.97	55.15	907.8
GMW-06	2/2/1990	A	962.97	55.2	907.75
GMW-06	2/8/1990	A	962.97	55.25	907.7
GMW-06	4/19/1990	A	962.97	55.65	907.3
GMW-06	7/19/1990	A	962.97	57.2	905.75
GMW-06	10/21/1990	A	962.97	56.9	906.05
GMW-06	1/23/1991	A	962.97	56.5	906.45
GMW-06	2/16/1991	A	962.97	55.65	907.3
GMW-06	3/15/1991	A	962.97	55.8	907.15
GMW-06	4/22/1991	A	962.97	55.9	907.05
GMW-06	5/19/1991	A	962.97	56	906.95
GMW-06	6/20/1991	A	962.97	56.35	906.6
GMW-06	7/21/1991	A	962.97	57.1	905.85
GMW-06	8/18/1991	A	962.97	58.05	904.9
GMW-06	9/22/1991	A	962.97	58.55	904.4
GMW-06	10/31/1991	A	962.97	58.3	904.65
GMW-06	11/17/1991	A	962.97	58.2	904.75
GMW-06	1/22/1992	A	962.97	57.3	905.65
GMW-06	2/21/1992	A	962.97	56.67	906.28
GMW-06	3/29/1992	A	962.97	55.95	907.02
GMW-06	4/22/1992	A	962.97	55.4	907.57
GMW-06	5/15/1992	A	962.97	55.05	907.92
GMW-06	6/28/1992	A	962.97	54.7	908.27
GMW-06	7/30/1992	A	962.97	54.8	908.17
GMW-06	8/24/1992	A	962.97	54.65	908.32
GMW-06	10/8/1992	A	962.97	54	908.97
GMW-06	10/28/1992	A	962.97	53.5	909.47
GMW-06	11/23/1992	A	962.97	53.4	909.57
GMW-06	12/31/1992	A	962.97	53.6	909.37
GMW-06	2/5/1993	A	962.97	53.1	909.87
GMW-06	3/24/1993	A	962.97	50.7	912.27
GMW-06	4/15/1993	A	962.97	49.5	913.47
GMW-06	5/18/1993	A	962.97	48.1	914.87
GMW-06	6/10/1993	A	962.97	48	914.97

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-06	6/15/1993	A	962.97	47.8	915.17
GMW-06	7/14/1993	A	962.97	48.2	914.77
GMW-06	8/11/1993	A	962.97	48.4	914.57
GMW-06	9/24/1993	A	962.97	49.4	913.57
GMW-06	10/28/1993	A	962.97	49.7	913.27
GMW-06	11/23/1993	A	962.97	49.8	913.17
GMW-06	12/14/1993	A	962.97	49.5	913.47
GMW-06	12/20/1993	A	962.97	49.7	913.27
GMW-06	12/21/1993	A	962.97	49.7	913.27
GMW-06	1/26/1994	A	962.97	49.9	913.07
GMW-06	2/25/1994	A	962.97	50	912.97
GMW-06	3/23/1994	A	962.97	50.1	912.87
GMW-06	4/27/1994	A	962.97	51.1	911.87
GMW-06	5/26/1994	A	962.97	51.1	911.87
GMW-06	6/1/1994	A	962.97	51.5	911.47
GMW-06	7/22/1994	A	962.97	54	908.97
GMW-06	8/24/1994	A	962.97	55.1	907.87
GMW-06	9/22/1994	A	962.97	55.1	907.87
GMW-06	10/12/1994	A	962.97	55	907.97
GMW-06	11/18/1994	A	962.97	55.2	907.77
GMW-06	12/29/1994	A	962.97	55.5	907.47
GMW-06	1/30/1995	A	962.97	55.3	907.67
GMW-06	2/23/1995	A	962.97	54.9	908.07
GMW-06	3/30/1995	A	962.97	53.5	909.47
GMW-06	4/21/1995	A	962.97	53.3	909.67
GMW-06	5/26/1995	A	962.97	52.7	910.27
GMW-06	6/23/1995	A	962.97	52.77	910.2
GMW-06	7/27/1995	A	962.97	53.57	909.4
GMW-06	8/30/1995	A	962.97	54.65	908.32
GMW-06	9/29/1995	A	962.97	54.75	908.22
GMW-06	10/27/1995	A	962.97	54.67	908.3
GMW-06	11/28/1995	A	962.97	54.48	908.49
GMW-06	12/30/1995	A	962.97	53.97	909
GMW-06	1/31/1996	A	962.97	54.32	908.65
GMW-06	2/20/1996	A	962.97	54.29	908.68
GMW-06	3/30/1996	A	962.97	54.4	908.57
GMW-06	4/29/1996	A	962.97	55	907.97
GMW-06	5/31/1996	A	962.97	55.34	907.63
GMW-06	6/28/1996	A	962.97	55.8	907.17
GMW-06	7/31/1996	A	962.97	56.5	906.47
GMW-06	8/30/1996	A	962.97	57.7	905.27
GMW-06	9/28/1996	A	962.97	57.85	905.12
GMW-06	10/29/1996	A	962.97	57.77	905.2
GMW-06	1/16/1997	A	962.97	56.55	906.42
GMW-06	4/28/1997	A	962.97	57.14	905.83
GMW-06	7/29/1997	A	962.97	60	902.97
GMW-06	1/29/1998	A	962.97	59.9	903.07
GMW-06	5/8/1998	A	962.97	58	904.97
GMW-06	7/30/1998	A	962.97	57.32	905.65
GMW-06	10/29/1998	A	962.97	57.3	905.67
GMW-06	1/28/1999	A	962.97	57	905.97
GMW-06	4/28/1999	A	962.97	57.85	905.12
GMW-06	8/4/1999	A	962.97	59.75	903.22

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-06	10/13/1999	A	962.97	59.95	903.02
GMW-06	2/9/2000	A	962.97	59.3	903.67
GMW-06	5/2/2000	A	962.97	59.4	903.57
GMW-06	8/2/2000	A	962.97	60.8	902.17
GMW-06	10/25/2000	A	962.97	61.72	901.25
GMW-06	1/30/2001	A	962.97	59.45	903.52
GMW-06	5/24/2001	A	962.97	58.3	904.67
GMW-06	7/31/2001	A	962.97	59.25	903.72
GMW-06	10/29/2001	A	962.97	60.5	902.47
GMW-06	1/30/2002	A	962.97	59.8	903.17
GMW-06	5/13/2002	A	962.97	61.05	901.92
GMW-06	5/14/2002	A	968.7	61.97	906.73
GMW-06	7/30/2002	A	968.7	63.68	905.02
GMW-06	8/1/2002	A	962.97	62.75	900.22
GMW-06	10/30/2002	A	962.97	64	898.97
GMW-06	1/30/2003	A	962.97	63.3	899.67
GMW-06	4/30/2003	A	962.97	62.65	900.32
GMW-06	8/7/2003	A	962.97	64.1	898.87
GMW-06	10/28/2003	A	962.97	64.5	898.47
GMW-06	1/28/2004	A	962.97	64.47	898.5
GMW-06	4/28/2004	A	962.97	64.1	898.87
GMW-06	7/30/2004	A	962.97	64.6	898.37
GMW-06	11/1/2004	A	962.97	66.1	896.87
GMW-06	1/27/2005	A	962.97	65.7	897.27
GMW-06	5/5/2005	A	962.97	63.8	899.17
GMW-06	7/28/2005	A	962.97	63.2	899.77
GMW-06	10/26/2005	A	962.97	63.1	899.87
GMW-06	1/26/2006	A	962.97	62.62	900.35
GMW-06	5/2/2006	A	962.97	62.9	900.07
GMW-06	7/25/2006	A	962.97	63.15	899.82
GMW-06	10/31/2006	A	962.97	64.3	898.67
GMW-06	1/29/2007	A	962.97	64.3	898.67
GMW-06	5/1/2007	A	962.97	64.9	898.07
GMW-06	7/31/2007	A	962.97	66.9	896.07
GMW-06	10/11/2007	A	962.97	68.04	894.93
GMW-06	1/9/2008	A	962.97	67.64	895.33
GMW-06	4/15/2008	A	962.97	66.27	896.7
GMW-06	8/4/2008	A	962.97	66.89	896.08
GMW-06	11/18/2008	A	962.97	67.56	895.41
GMW-06	2/17/2009	A	962.97	66.93	896.04
GMW-06	5/19/2009	A	962.97	67.4	895.57
GMW-06	8/25/2009	A	965.03	68.67	896.36
GMW-06	11/17/2009	A	965.03	69.35	895.68
GMW-06	2/3/2010	A	965.03	68.94	896.09
GMW-06	5/10/2010	A	965.03	67.4	897.63
GMW-06	8/24/2010	A	965.03	66.95	898.08
GMW-06	11/30/2010	A	965.03	66.93	898.1
GMW-06	2/3/2011	A	965.03	66.56	898.47
GMW-06	5/3/2011	A	965.03	66.4	898.63
GMW-06	8/2/2011	A	965.03	68.04	896.99
GMW-06	12/2/2011	A	964.28	69	895.28
GMW-06	2/1/2012	A	964.28	68.82	895.46
GMW-06	3/2/2012	A	964.28	68.83	895.45

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-06	4/2/2012	A	964.28	68.6	895.68
GMW-06	5/1/2012	A	964.06	68.62	895.44
GMW-06	6/1/2012	A	964.28	68.83	895.45
GMW-06	7/2/2012	A	964.28	69.31	894.97
GMW-06	8/2/2012	A	964.28	69.73	894.55
GMW-06	9/4/2012	A	964.28	70.06	894.22
GMW-06	10/1/2012	A	964.28	70.41	893.87
GMW-06	11/5/2012	A	964.28	71.59	892.69
GMW-06	12/3/2012	A	964.28	70.48	893.8
GMW-06	2/4/2013	A	964.28	70.1	894.18
GMW-06	5/1/2013	A	964.28	70.35	893.93
GMW-06	8/7/2013	A	965.03	71.67	893.36
GMW-06	11/4/2013	A	965.03	73.02	892.01
GMW-07	1/15/1987	A	962.21	50.9	911.9
GMW-07	2/20/1987	A	962.21	50.9	911.9
GMW-07	3/17/1987	A	962.21	50.8	912
GMW-07	4/17/1987	A	962.21	50.6	912.2
GMW-07	5/20/1987	A	962.21	51.1	911.7
GMW-07	6/19/1987	A	962.21	51.3	911.5
GMW-07	7/16/1987	A	962.21	51.61	911.19
GMW-07	8/25/1987	A	962.21	52.15	910.65
GMW-07	9/29/1987	A	962.21	51.2	911.6
GMW-07	10/22/1987	A	962.21	51.85	910.95
GMW-07	11/24/1987	A	962.21	51.45	911.35
GMW-07	1/7/1988	A	962.21	51.1	911.7
GMW-07	2/15/1988	A	962.21	50.71	912.09
GMW-07	3/8/1988	A	962.21	50.52	912.28
GMW-07	4/13/1988	A	962.21	50.56	912.24
GMW-07	5/23/1988	A	962.21	47.81	914.99
GMW-07	6/28/1988	A	962.21	51.32	911.48
GMW-07	7/13/1988	A	962.21	52.06	910.74
GMW-07	8/10/1988	A	962.21	52.45	910.35
GMW-07	9/7/1988	A	962.21	52.9	909.9
GMW-07	11/28/1988	A	962.21	51.04	911.76
GMW-07	1/19/1989	A	962.21	49.8	913
GMW-07	2/14/1989	A	962.21	51	911.8
GMW-07	3/14/1989	A	962.21	51.16	911.64
GMW-07	7/1/1989	A	962.21	52.06	910.74
GMW-07	9/19/1989	A	962.21	54.5	908.3
GMW-07	11/20/1989	A	962.21	54.42	908.38
GMW-07	11/20/1989	A	962.21	54.42	908.38
GMW-07	1/22/1990	A	962.21	54.34	908.5
GMW-07	1/23/1990	A	962.21	54.39	908.45
GMW-07	1/24/1990	A	962.21	54.39	908.45
GMW-07	1/25/1990	A	962.21	54.44	908.4
GMW-07	1/26/1990	A	962.21	54.44	908.4
GMW-07	1/29/1990	A	962.21	54.39	908.45
GMW-07	1/30/1990	A	962.21	54.29	908.55
GMW-07	1/31/1990	A	962.21	54.34	908.5
GMW-07	2/1/1990	A	962.21	54.39	908.45
GMW-07	2/2/1990	A	962.21	54.4	908.4
GMW-07	2/8/1990	A	962.21	54.35	908.45
GMW-07	4/19/1990	A	962.21	54.9	907.9

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-07	7/19/1990	A	962.21	56.55	906.25
GMW-07	10/21/1990	A	962.21	56.15	906.65
GMW-07	1/23/1991	A	962.21	55	907.8
GMW-07	2/16/1991	A	962.21	54.85	907.95
GMW-07	3/15/1991	A	962.21	55.05	907.75
GMW-07	4/22/1991	A	962.21	55.2	907.6
GMW-07	5/19/1991	A	962.21	55.15	907.65
GMW-07	6/20/1991	A	962.21	55.45	907.35
GMW-07	7/21/1991	A	962.21	56.35	906.45
GMW-07	8/18/1991	A	962.21	57.2	905.6
GMW-07	9/22/1991	A	962.21	57.7	905.1
GMW-07	10/31/1991	A	962.21	57.5	905.3
GMW-07	11/17/1991	A	962.21	57.4	905.4
GMW-07	1/24/1992	A	962.21	56.25	906.55
GMW-07	2/21/1992	A	962.21	55.79	907.01
GMW-07	3/29/1992	A	962.21	55.05	907.79
GMW-07	4/22/1992	A	962.21	54.4	908.44
GMW-07	5/15/1992	A	962.21	54.15	908.69
GMW-07	6/28/1992	A	962.21	53.5	909.34
GMW-07	7/30/1992	A	962.21	53.5	909.34
GMW-07	8/24/1992	A	962.21	53.55	909.29
GMW-07	10/8/1992	A	962.21	52.6	910.24
GMW-07	10/28/1992	A	962.21	52.3	910.54
GMW-07	11/23/1992	A	962.21	51.9	910.94
GMW-07	12/15/1992	A	962.21	51.8	911.04
GMW-07	1/26/1993	A	962.21	50.65	912.19
GMW-07	2/5/1993	A	962.21	51.1	911.74
GMW-07	3/12/1993	A	962.21	49.3	913.54
GMW-07	4/15/1993	A	962.21	47.1	915.74
GMW-07	5/18/1993	A	962.21	45.9	916.94
GMW-07	6/10/1993	A	962.21	45.6	917.24
GMW-07	6/30/1993	A	962.21	45.7	917.14
GMW-07	7/14/1993	A	962.21	46	916.84
GMW-07	8/11/1993	A	962.21	46.6	916.24
GMW-07	9/24/1993	A	962.21	47.2	915.64
GMW-07	10/28/1993	A	962.21	47.4	915.44
GMW-07	11/23/1993	A	962.21	47.6	915.24
GMW-07	12/14/1993	A	962.21	47.3	915.54
GMW-07	1/26/1994	A	962.21	47.6	915.24
GMW-07	2/25/1994	A	962.21	47.8	915.04
GMW-07	3/23/1994	A	962.21	48	914.84
GMW-07	4/27/1994	A	962.21	48.8	913.41
GMW-07	5/26/1994	A	962.21	49.3	912.91
GMW-07	6/1/1994	A	962.21	49.4	912.81
GMW-07	7/22/1994	A	962.21	51.5	910.71
GMW-07	8/24/1994	A	962.21	53.6	908.61
GMW-07	9/22/1994	A	962.21	53.5	908.71
GMW-07	10/12/1994	A	962.21	53.4	908.81
GMW-07	11/18/1994	A	962.21	53.4	908.81
GMW-07	12/29/1994	A	962.21	53.5	908.71
GMW-07	1/30/1995	A	962.21	53.1	909.11
GMW-07	2/23/1995	A	962.21	52.6	909.61
GMW-07	3/30/1995	A	962.21	51.5	910.71

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-07	4/18/1995	A	962.84	51.12	911.72
GMW-07	4/21/1995	A	962.84	51	911.84
GMW-07	4/25/1995	A	962.84	50.92	911.92
GMW-07	5/16/1995	A	962.84	50.55	912.29
GMW-07	5/25/1995	A	962.84	50.39	912.45
GMW-07	5/26/1995	A	962.84	50.4	912.44
GMW-07	6/2/1995	A	962.84	50.33	912.51
GMW-07	6/6/1995	A	962.84	50.3	912.54
GMW-07	6/15/1995	A	962.84	50.39	912.45
GMW-07	6/23/1995	A	962.84	50.56	912.28
GMW-07	6/23/1995	A	962.84	50.56	912.28
GMW-07	6/29/1995	A	962.84	50.67	912.17
GMW-07	7/7/1995	A	962.84	50.87	911.97
GMW-07	7/21/1995	A	962.84	51.35	911.49
GMW-07	7/27/1995	A	962.84	51.5	911.34
GMW-07	7/28/1995	A	962.84	51.57	911.27
GMW-07	8/2/1995	A	962.84	51.75	911.09
GMW-07	8/11/1995	A	962.84	52.11	910.73
GMW-07	8/15/1995	A	962.84	52.28	910.56
GMW-07	8/23/1995	A	962.84	52.51	910.33
GMW-07	8/30/1995	A	962.84	52.67	910.17
GMW-07	8/31/1995	A	962.84	52.67	910.17
GMW-07	9/6/1995	A	962.84	52.79	910.05
GMW-07	9/13/1995	A	962.84	52.89	909.95
GMW-07	9/22/1995	A	962.84	52.94	909.9
GMW-07	9/28/1995	A	962.84	52.85	909.99
GMW-07	9/29/1995	A	962.84	51.84	911
GMW-07	10/27/1995	A	962.84	52.7	910.14
GMW-07	11/28/1995	A	962.84	52.43	910.41
GMW-07	12/30/1995	A	962.84	52.25	910.59
GMW-07	1/31/1996	A	962.84	52.29	910.55
GMW-07	2/20/1996	A	962.84	52.31	910.53
GMW-07	3/30/1996	A	962.84	52.6	910.24
GMW-07	4/29/1996	A	962.84	53.3	909.54
GMW-07	5/31/1996	A	962.84	53.85	908.99
GMW-07	6/28/1996	A	962.84	54.5	908.34
GMW-07	7/30/1996	A	962.84	55.26	907.58
GMW-07	8/30/1996	A	962.84	56.1	906.74
GMW-07	9/28/1996	A	962.84	56.1	906.74
GMW-07	10/29/1996	A	962.84	55.92	906.92
GMW-07	1/16/1997	A	962.84	55.05	907.79
GMW-07	4/28/1997	A	962.84	55.96	906.88
GMW-07	7/29/1997	A	962.84	58.63	904.21
GMW-07	1/29/1998	A	962.84	58.35	904.49
GMW-07	5/8/1998	A	962.84	56.35	906.49
GMW-07	7/28/1998	A	962.84	55.6	907.24
GMW-07	10/29/1998	A	962.84	55.65	907.19
GMW-07	1/28/1999	A	962.84	55.4	907.44
GMW-07	4/28/1999	A	962.84	56.35	906.49
GMW-07	8/4/1999	A	962.84	58.3	904.54
GMW-07	10/13/1999	A	962.84	58.6	904.24
GMW-07	2/9/2000	A	962.84	57.9	904.94
GMW-07	5/2/2000	A	962.84	58	904.84

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-07	8/2/2000	A	962.84	59.5	903.34
GMW-07	10/25/2000	A	962.84	60.2	902.64
GMW-07	1/30/2001	A	962.84	57.5	905.34
GMW-07	5/24/2001	A	962.84	56.8	906.04
GMW-07	7/31/2001	A	962.84	57.7	905.14
GMW-07	10/29/2001	A	962.84	58.8	904.04
GMW-07	1/30/2002	A	962.84	58.4	904.44
GMW-07	5/13/2002	A	962.84	59.62	903.22
GMW-07	5/14/2002	A	960.85	55.83	905.02
GMW-07	7/30/2002	A	960.85	57.74	903.11
GMW-07	7/30/2002	A	962.84	61.52	901.32
GMW-07	10/30/2002	A	962.84	62.55	900.29
GMW-07	1/30/2003	A	962.84	61.9	900.94
GMW-07	4/30/2003	A	962.84	61.2	901.64
GMW-07	8/7/2003	A	962.84	62.93	899.91
GMW-07	5/5/2005	A	962.84	62.3	900.54
GMW-07	7/27/2005	A	962.84	61.8	901.04
GMW-07	10/26/2005	A	962.84	61.8	901.04
GMW-07	1/26/2006	A	962.84	61.38	901.46
GMW-07	5/2/2006	A	962.84	61.85	900.99
GMW-07	7/25/2006	A	962.84	62.75	900.09
GMW-07	10/31/2006	A	962.84	63.15	899.69
GMW-07	8/1/2011	A	962.84	63.15	899.69
GMW-07	12/2/2011	A	964.06		
GMW-07	2/1/2012	A	964.06	63.3	900.76
GMW-07	9/4/2012	A	964.06		
GMW-07	10/1/2012	A	964.06		
GMW-07	12/3/2012	A	964.06		
GMW-08	1/15/1987	A	964.26	53.45	910.8
GMW-08	2/20/1987	A	964.26	53.65	910.6
GMW-08	3/17/1987	A	964.26	53.65	910.6
GMW-08	4/17/1987	A	964.26	53.55	910.7
GMW-08	5/20/1987	A	964.26	54.25	910
GMW-08	6/19/1987	A	964.26	54.37	909.88
GMW-08	7/17/1987	A	964.26	54.67	909.58
GMW-08	8/25/1987	A	964.26	54.98	909.27
GMW-08	9/28/1987	A	964.26	53.9	910.35
GMW-08	10/22/1987	A	964.26	54.44	909.81
GMW-08	11/24/1987	A	964.26	54.33	909.92
GMW-08	1/7/1988	A	964.26	54.11	910.14
GMW-08	2/15/1988	A	964.26	53.77	910.48
GMW-08	3/8/1988	A	964.26	53.8	910.45
GMW-08	4/13/1988	A	964.26	53.91	910.34
GMW-08	6/28/1988	A	964.26	54.69	909.56
GMW-08	8/10/1988	A	964.26	55.66	908.59
GMW-08	9/7/1988	A	964.26	56.05	908.2
GMW-08	11/28/1988	A	964.26	56.21	908.04
GMW-08	1/19/1989	A	964.26	54.38	909.87
GMW-08	2/14/1989	A	964.26	54.23	910.02
GMW-08	3/14/1989	A	964.26	54.25	910
GMW-08	9/19/1989	A	964.26	57	907.25
GMW-08	11/20/1989	A	964.26	57.18	907.07
GMW-08	11/20/1989	A	964.26	57.18	907.07

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-08	1/22/1990	A	964.26	56.91	907.35
GMW-08	1/23/1990	A	964.26	56.96	907.3
GMW-08	1/24/1990	A	962.26	55.11	907.15
GMW-08	1/25/1990	A	964.26	57.31	906.95
GMW-08	1/26/1990	A	964.26	57.01	907.25
GMW-08	1/29/1990	A	964.26	57	907.25
GMW-08	1/30/1990	A	964.26	56.8	907.45
GMW-08	1/31/1990	A	964.26	56.9	907.35
GMW-08	2/1/1990	A	964.26	57	907.25
GMW-08	2/2/1990	A	964.26	57.2	907.05
GMW-08	2/8/1990	A	964.26	57.15	907.1
GMW-08	4/19/1990	A	964.26	57.5	906.75
GMW-08	7/19/1990	A	964.26	58.9	905.35
GMW-08	10/21/1990	A	964.26	58.85	905.4
GMW-08	1/23/1991	A	964.26	58	906.25
GMW-08	2/16/1991	A	964.26	57.75	906.5
GMW-08	3/15/1991	A	964.26	57.8	906.45
GMW-08	4/22/1991	A	964.26	58	906.25
GMW-08	5/19/1991	A	964.26	58	906.25
GMW-08	6/20/1991	A	964.26	58.5	905.75
GMW-08	7/21/1991	A	964.26	59.25	905
GMW-08	8/18/1991	A	964.26	59.95	904.3
GMW-08	9/22/1991	A	964.26	60.4	903.85
GMW-08	10/31/1991	A	964.26	60.2	904.05
GMW-08	11/17/1991	A	964.26	60.15	904.1
GMW-08	1/24/1992	A	964.26	59.2	905.05
GMW-08	2/21/1992	A	964.26	58.75	905.5
GMW-08	3/29/1992	A	964.26	58.2	906.06
GMW-08	4/22/1992	A	964.26	57.6	906.66
GMW-08	5/15/1992	A	964.26	57.35	906.91
GMW-08	6/28/1992	A	964.26	57	907.26
GMW-08	7/30/1992	A	964.26	57.1	907.16
GMW-08	8/24/1992	A	964.26	57.15	907.11
GMW-08	10/8/1992	A	964.26	56.3	907.96
GMW-08	10/28/1992	A	964.26	56	908.26
GMW-08	11/23/1992	A	964.26	55.7	908.56
GMW-08	1/4/1993	A	964.26	56.8	907.46
GMW-08	1/26/1993	A	964.26	54.5	909.76
GMW-08	2/5/1993	A	964.26	55.2	909.06
GMW-08	3/24/1993	A	964.26	53.2	911.06
GMW-08	4/15/1993	A	964.26	52.2	912.06
GMW-08	5/18/1993	A	964.26	50.8	913.46
GMW-08	6/10/1993	A	964.26	50.5	913.76
GMW-08	6/16/1993	A	964.26	50.4	913.86
GMW-08	7/14/1993	A	964.26	50.4	913.86
GMW-08	8/11/1993	A	964.26	50.8	913.46
GMW-08	9/24/1993	A	964.26	51.2	913.06
GMW-08	10/28/1993	A	964.26	51.3	912.96
GMW-08	11/23/1993	A	964.26	51.5	912.76
GMW-08	12/14/1993	A	964.26	51.4	912.86
GMW-08	12/28/1993	A	964.26	52.1	912.16
GMW-08	1/6/1994	A	964.26	52.5	911.76
GMW-08	1/26/1994	A	964.26	51.6	912.66

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-08	2/25/1994	A	964.26	51.7	912.56
GMW-08	3/23/1994	A	964.26	51.7	912.56
GMW-08	4/27/1994	A	964.26	52.4	911.86
GMW-08	5/26/1994	A	964.26	53.2	911.06
GMW-08	6/1/1994	A	964.26	52.7	911.56
GMW-08	7/22/1994	A	964.26	55.6	908.66
GMW-08	8/24/1994	A	964.26	56.9	907.36
GMW-08	9/22/1994	A	964.26	56.4	907.86
GMW-08	10/12/1994	A	964.26	56.3	907.96
GMW-08	11/18/1994	A	964.26	56.5	907.76
GMW-08	12/29/1994	A	964.26	56.4	907.86
GMW-08	1/30/1995	A	964.26	56.3	907.96
GMW-08	2/23/1995	A	964.26	55.9	908.36
GMW-08	3/30/1995	A	964.26	54.9	909.36
GMW-08	4/21/1995	A	964.26	54.6	909.66
GMW-08	5/26/1995	A	964.26	54.2	910.06
GMW-08	6/23/1995	A	964.26	54.32	909.94
GMW-08	7/27/1995	A	964.26	55.37	908.89
GMW-08	8/30/1995	A	964.26	56.17	908.09
GMW-08	9/29/1995	A	964.26	56.05	908.21
GMW-08	10/27/1995	A	964.26	55.97	908.29
GMW-08	11/28/1995	A	964.26	55.78	908.48
GMW-08	12/30/1995	A	964.26	55.7	908.56
GMW-08	1/31/1996	A	964.26	55.55	908.71
GMW-08	2/20/1996	A	964.26	55.71	908.55
GMW-08	3/30/1996	A	964.26	56	908.26
GMW-08	4/29/1996	A	964.26	56.29	907.97
GMW-08	5/31/1996	A	964.26	56.62	907.64
GMW-08	6/28/1996	A	964.26	57.45	906.81
GMW-08	7/30/1996	A	964.26	58.13	906.13
GMW-08	8/30/1996	A	964.26	58.96	905.3
GMW-08	9/28/1996	A	964.26	58.9	905.36
GMW-08	10/29/1996	A	964.26	58.95	905.31
GMW-08	1/16/1997	A	964.26	57.62	906.64
GMW-08	4/28/1997	A	964.26	58.35	905.91
GMW-08	7/29/1997	A	964.26	61.42	902.84
GMW-08	1/29/1998	A	964.26	60.75	903.51
GMW-08	5/8/1998	A	964.26	58.82	905.44
GMW-08	7/28/1998	A	964.26	58.47	905.79
GMW-08	10/29/1998	A	964.26	58.3	905.96
GMW-08	1/28/1999	A	964.26	58.15	906.11
GMW-08	4/28/1999	A	964.26	58.87	905.39
GMW-08	8/4/1999	A	964.26	60.42	903.84
GMW-08	10/13/1999	A	964.26	60.7	903.56
GMW-08	2/9/2000	A	964.26	60.15	904.11
GMW-08	5/2/2000	A	964.26	60.1	904.16
GMW-08	8/2/2000	A	964.26	61.7	902.56
GMW-08	10/25/2000	A	964.26	62.2	902.06
GMW-08	1/30/2001	A	964.26	60.25	904.01
GMW-08	5/24/2001	A	964.26	59.5	904.76
GMW-08	7/31/2001	A	964.26	60.4	903.86
GMW-08	10/29/2001	A	964.26	61.25	903.01
GMW-08	1/30/2002	A	964.26	61.1	903.16

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-08	5/13/2002	A	964.26	61.6	902.66
GMW-08	7/30/2002	A	964.26	63.2	901.06
GMW-08	10/30/2002	A	964.26	64	900.26
GMW-08	1/30/2003	A	964.26	63.6	900.66
GMW-08	4/30/2003	A	964.26	63.6	900.66
GMW-08	8/7/2003	A	964.26	65	899.26
GMW-08	10/28/2003	A	964.26	65.27	898.99
GMW-08	1/28/2004	A	964.26	65.5	898.76
GMW-08	4/28/2004	A	964.26	65.1	899.16
GMW-08	7/29/2004	A	964.26	65.4	898.86
GMW-08	11/1/2004	A	964.26	67	897.26
GMW-08	1/27/2005	A	964.26	67.2	897.06
GMW-08	5/5/2005	A	964.26	65.6	898.66
GMW-08	7/27/2005	A	964.26	64.9	899.36
GMW-08	10/26/2005	A	964.26	63.85	900.41
GMW-08	1/26/2006	A	964.26	63.95	900.31
GMW-08	5/2/2006	A	964.26	64	900.26
GMW-08	7/25/2006	A	964.26	64	900.26
GMW-08	10/30/2006	A	964.26	64.15	900.11
GMW-08	1/29/2007	A	964.26	66.1	898.16
GMW-08	5/1/2007	A	964.26	64.9	899.36
GMW-08	7/31/2007	A	964.26	68	896.26
GMW-08	1/9/2008	A	964.26	67.86	896.4
GMW-08	4/15/2008	A	964.26	67.36	896.9
GMW-08	8/1/2008	A	964.26	67.43	896.83
GMW-08	11/18/2008	A	964.26	69.18	895.08
GMW-08	2/21/2009	A	964.26	69.28	894.98
GMW-08	5/19/2009	A	964.26	69.3	894.96
GMW-08	8/27/2009	A	966.32	69.55	896.77
GMW-08	11/18/2009	A	966.32	69.8	896.52
GMW-08	2/2/2010	A	966.32	69.65	896.67
GMW-08	5/7/2010	A	966.32	69.68	896.64
GMW-08	8/23/2010	A	966.32	69.8	896.52
GMW-08	11/29/2010	A	966.32	69.21	897.11
GMW-08	2/3/2011	A	966.32	69.22	897.1
GMW-08	5/2/2011	A	966.32	69.2	897.12
GMW-08	8/1/2011	A	966.32	69.4	896.92
GMW-08	11/1/2011	A	966.32	69.52	
GMW-08	12/2/2011	A	965.57	69.52	
GMW-09MC	1/4/1993	C	962.6	53.7	908.9
GMW-09MC	1/26/1993	C	962.6	53.7	908.9
GMW-09MC	6/30/1993	C	962.6	57.5	905.1
GMW-09MC	2/18/1994	C	962.6	51.4	911.2
GMW-09MC	7/8/1994	C	962.6	66.9	895.7
GMW-09MC	1/25/1995	C	962.6	55	907.6
GMW-09MC	4/5/1995	C	962.6	59.63	902.97
GMW-09MC	4/12/1995	C	962.6	61.51	901.09
GMW-09MC	4/18/1995	C	962.6	58.85	903.75
GMW-09MC	4/25/1995	C	962.6	57.95	904.65
GMW-09MC	5/4/1995	C	962.6	57.4	905.2
GMW-09MC	5/16/1995	C	962.6	57.01	905.59
GMW-09MC	5/25/1995	C	962.6	58.62	903.98
GMW-09MC	6/2/1995	C	962.6	61.9	900.7

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-09MC	6/6/1995	C	962.6	62.21	900.39
GMW-09MC	6/15/1995	C	962.6	66.33	896.27
GMW-09MC	6/23/1995	C	962.6	65.17	897.43
GMW-09MC	6/29/1995	C	962.6	68.94	893.66
GMW-09MC	7/7/1995	C	962.6	66.15	896.45
GMW-09MC	7/21/1995	C	962.6	72.66	889.94
GMW-09MC	7/28/1995	C	962.6	74.91	887.69
GMW-09MC	8/2/1995	C	962.6	72.59	890.01
GMW-09MC	8/11/1995	C	962.6	74.01	888.59
GMW-09MC	8/15/1995	C	962.6	75.45	887.15
GMW-09MC	8/23/1995	C	962.6	68.35	894.25
GMW-09MC	8/31/1995	C	962.6	68.25	894.35
GMW-09MC	9/6/1995	C	962.6	64.86	897.74
GMW-09MC	9/13/1995	C	962.6	61.02	901.58
GMW-09MC	9/22/1995	C	962.6	65.25	897.35
GMW-09MC	9/28/1995	C	962.6	59.78	902.82
GMW-09MC	10/6/1995	C	962.6	59.12	903.48
GMW-09MC	10/31/1995	C	962.6	57.94	904.66
GMW-09MC	11/30/1995	C	962.6	56.62	905.98
GMW-09MC	12/30/1995	C	962.6	56.8	905.8
GMW-09MC	1/31/1996	C	962.6	56.14	906.46
GMW-09MC	2/20/1996	C	962.6	60.25	902.35
GMW-09MC	3/30/1996	C	962.6	61.4	901.2
GMW-09MC	4/29/1996	C	962.6	63.46	899.14
GMW-09MC	5/31/1996	C	962.6	62.58	900.02
GMW-09MC	6/28/1996	C	962.6	71.6	891
GMW-09MC	7/30/1996	C	962.6	71.99	890.61
GMW-09MC	8/30/1996	C	962.6	74.53	888.07
GMW-09MC	9/28/1996	C	962.6	62.64	899.96
GMW-09MC	10/29/1996	C	962.6	60.68	901.92
GMW-09MC	1/16/1997	C	962.6	58.76	903.84
GMW-09MC	4/28/1997	C	962.6	68.88	893.72
GMW-09MC	7/29/1997	C	962.6	76.75	885.85
GMW-09MC	10/22/1997	C	962.6	64.9	897.7
GMW-09MC	1/29/1998	C	962.6	61.85	900.75
GMW-09MC	5/8/1998	C	962.6	65	897.6
GMW-09MC	7/28/1998	C	962.6	66.6	896
GMW-09MC	10/29/1998	C	962.6	59.92	902.68
GMW-09MC	1/28/1999	C	962.6	59.45	903.15
GMW-09MC	4/28/1999	C	962.6	66.42	896.18
GMW-09MC	8/4/1999	C	962.6	72.45	890.15
GMW-09MC	10/12/1999	C	962.6	65.45	897.15
GMW-09MC	2/9/2000	C	962.6	61.35	901.25
GMW-09MC	5/2/2000	C	962.6	64.35	898.25
GMW-09MC	8/2/2000	C	962.6	74.55	888.05
GMW-09MC	10/25/2000	C	962.6	63.3	899.3
GMW-09MC	1/30/2001	C	962.6	59.4	903.2
GMW-09MC	5/24/2001	C	962.6	63.6	899
GMW-09MC	7/31/2001	C	962.6	73.55	889.05
GMW-09MC	10/29/2001	C	962.6	65.5	897.1
GMW-09MC	1/30/2002	C	962.6	62.3	900.3
GMW-09MC	5/13/2002	C	962.6	66.9	895.7
GMW-09MC	7/30/2002	C	962.6	82.54	880.06

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-09MC	10/30/2002	C	962.6	68.4	894.2
GMW-09MC	1/30/2003	C	962.6	65.3	897.3
GMW-09MC	4/30/2003	C	962.6	67.45	895.15
GMW-09MC	8/8/2003	C	962.6	74.4	888.2
GMW-09MC	10/28/2003	C	962.6	71	891.6
GMW-09MC	1/28/2004	C	962.6	65.95	896.65
GMW-09MC	4/28/2004	C	962.6	73.2	889.4
GMW-09MC	7/29/2004	C	962.6	80.25	882.35
GMW-09MC	11/1/2004	C	962.6	72.1	890.5
GMW-09MC	1/27/2005	C	962.6	66.6	896
GMW-09MC	5/5/2005	C	962.6	68.7	893.9
GMW-09MC	7/27/2005	C	961.79	75.5	886.29
GMW-09MC	10/26/2005	C	961.79	69.2	892.59
GMW-09MC	1/26/2006	C	961.79	66.7	895.09
GMW-09MC	5/2/2006	C	961.79	69.8	891.99
GMW-09MC	7/25/2006	C	961.79	76.85	884.94
GMW-09MC	10/30/2006	C	961.79	70.7	891.09
GMW-09MC	1/29/2007	C	961.79	68.6	893.19
GMW-09MC	5/1/2007	C	961.79	71.8	889.99
GMW-09MC	7/31/2007	C	961.79	80.8	880.99
GMW-09MC	10/10/2007	C	961.79	77.82	883.97
GMW-09MC	1/7/2008	C	961.79	68.9	892.89
GMW-09MC	4/14/2008	C	961.79	72.49	889.3
GMW-09MC	8/1/2008	C	961.79	80.67	881.12
GMW-09MC	11/17/2008	C	961.79	72.66	889.13
GMW-09MC	2/18/2009	C	961.79	69.12	892.67
GMW-09MC	5/19/2009	C	961.79	72.3	889.49
GMW-09MC	8/25/2009	C	963.85	82.4	881.45
GMW-09MC	9/21/2009	C	963.85	79.96	883.89
GMW-09MC	10/19/2009	C	963.85	80.42	883.43
GMW-09MC	11/18/2009	C	963.85	73.49	890.36
GMW-09MC	2/5/2010	C	963.85	70.21	893.64
GMW-09MC	5/4/2010	C	963.85	71.43	892.42
GMW-09MC	8/23/2010	C	963.85	79.9	883.95
GMW-09MC	11/29/2010	C	963.85	70.62	893.23
GMW-09MC	2/3/2011	C	963.85	67.28	896.57
GMW-09MC	5/3/2011	C	963.85	72.92	890.93
GMW-09MC	8/1/2011	C	963.85	82.09	881.76
GMW-09MC	11/1/2011	C	963.85	76.6	887.25
GMW-09MC	12/2/2011	C	963.5	72.82	890.68
GMW-09MC	2/1/2012	C	963.5	74.22	889.28
GMW-09MC	3/2/2012	C	963.5	69.34	894.16
GMW-09MC	4/2/2012	C	963.5	75.13	888.37
GMW-09MC	5/1/2012	C	963.5	73.95	889.55
GMW-09MC	6/1/2012	C	963.5	76.72	886.78
GMW-09MC	7/2/2012	C	963.5	82.42	881.08
GMW-09MC	8/1/2012	C	963.5	84.4	879.1
GMW-09MC	9/4/2012	C	963.5	81.78	881.72
GMW-09MC	10/1/2012	C	963.5	78.71	884.79
GMW-09MC	11/2/2012	C	963.5	75.16	888.34
GMW-09MC	12/3/2012	C	963.5	73.08	890.42
GMW-09MC	2/4/2013	C	963.5	71.4	892.1
GMW-09MC	5/1/2013	C	963.5	77.12	886.38

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-09MC	8/6/2013	C	963.85	85.5	878.35
GMW-09MC	11/5/2013	C	963.85	77.2	886.65
GMW-10LC	12/31/1992	C	954.6	47.3	907.3
GMW-10LC	6/29/1993	C	954.6	49.9	904.7
GMW-10LC	2/28/1994	C	954.6	45.8	908.8
GMW-10LC	7/7/1994	C	954.6	59.4	895.2
GMW-10LC	10/25/1994	C	854.5	52.08	802.42
GMW-10LC	10/27/1994	C	854.5	51.28	803.22
GMW-10LC	11/1/1994	C	854.5	51.13	803.37
GMW-10LC	11/4/1994	C	854.5	50.56	803.94
GMW-10LC	11/8/1994	C	854.5	50.67	803.83
GMW-10LC	11/11/1994	C	854.5	51.2	803.3
GMW-10LC	11/15/1994	C	854.5	51.32	803.18
GMW-10LC	11/18/1994	C	854.5	49.73	804.77
GMW-10LC	11/21/1994	C	854.5	59.79	794.71
GMW-10LC	11/23/1994	C	854.5	50.22	804.28
GMW-10LC	11/29/1994	C	854.5	49.78	804.72
GMW-10LC	12/2/1994	C	854.5	51.16	803.34
GMW-10LC	12/9/1994	C	854.5	49.7	804.8
GMW-10LC	12/13/1994	C	854.5	50.24	804.26
GMW-10LC	12/20/1994	C	854.5	49.12	805.38
GMW-10LC	12/27/1994	C	854.5	48.38	806.12
GMW-10LC	1/3/1995	C	854.5	49.18	805.32
GMW-10LC	1/10/1995	C	854.5	48.32	806.18
GMW-10LC	1/17/1995	C	854.5	47	807.5
GMW-10LC	1/24/1995	C	854.5	47.08	807.42
GMW-10LC	1/25/1995	C	854.5	47	807.5
GMW-10LC	1/31/1995	C	854.5	47.28	807.22
GMW-10LC	2/8/1995	C	854.5	47.46	807.04
GMW-10LC	2/13/1995	C	854.5	49.22	805.28
GMW-10LC	2/22/1995	C	854.5	47.2	807.3
GMW-10LC	3/2/1995	C	854.5	46.65	807.85
GMW-10LC	3/10/1995	C	854.5	46.25	808.25
GMW-10LC	3/15/1995	C	854.5	45.9	808.6
GMW-10LC	10/31/1995	C	954.5	49.87	904.63
GMW-10LC	11/29/1995	C	954.5	48.35	906.15
GMW-10LC	12/30/1995	C	954.5	48.48	906.02
GMW-10LC	1/31/1996	C	954.5	48.15	906.35
GMW-10LC	2/20/1996	C	954.5	48.15	906.35
GMW-10LC	3/30/1996	C	954.5	52.85	901.65
GMW-10LC	4/29/1996	C	954.5	54.15	900.35
GMW-10LC	5/31/1996	C	954.5	54.22	900.28
GMW-10LC	6/28/1996	C	954.5	62.68	891.82
GMW-10LC	7/31/1996	C	954.5	66.35	888.15
GMW-10LC	8/30/1996	C	954.5	65.15	889.35
GMW-10LC	9/28/1996	C	954.5	53.95	900.55
GMW-10LC	10/30/1996	C	954.5	52.35	902.15
GMW-10LC	1/15/1997	C	954.5	51.66	902.84
GMW-10LC	4/29/1997	C	954.5	58.81	895.69
GMW-10LC	7/29/1997	C	954.5	68.41	886.09
GMW-10LC	10/22/1997	C	954.5	56.7	897.8
GMW-10LC	1/30/1998	C	954.5	54.6	899.9
GMW-10LC	5/8/1998	C	954.5	54.095	900.405

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-10LC	7/29/1998	C	954.5	56.75	897.75
GMW-10LC	10/29/1998	C	954.5	51.4	903.1
GMW-10LC	1/29/1999	C	954.5	51.25	903.25
GMW-10LC	4/28/1999	C	954.5	56.55	897.95
GMW-10LC	8/4/1999	C	954.5	64.47	890.03
GMW-10LC	10/12/1999	C	954.5	56.1	898.4
GMW-10LC	2/9/2000	C	954.5	53.47	901.03
GMW-10LC	5/2/2000	C	954.5	55.35	899.15
GMW-10LC	8/3/2000	C	954.5	64.9	889.6
GMW-10LC	10/25/2000	C	954.5	56.57	897.93
GMW-10LC	1/31/2001	C	954.5	51.9	902.6
GMW-10LC	5/24/2001	C	954.5	54.8	899.7
GMW-10LC	7/31/2001	C	954.5	62.8	891.7
GMW-10LC	10/30/2001	C	954.5	56.9	897.6
GMW-10LC	1/31/2002	C	954.5	54	900.5
GMW-10LC	5/14/2002	C	954.5	59	895.5
GMW-10LC	7/31/2002	C	954.5	49.75	904.75
GMW-10LC	10/31/2002	C	954.5	59.6	894.9
GMW-10LC	1/31/2003	C	954.5	56.55	897.95
GMW-10LC	4/29/2003	C	954.5	36.25	918.25
GMW-10LC	8/8/2003	C	954.5	66.75	887.75
GMW-10LC	10/29/2003	C	954.5	35.8	918.7
GMW-10LC	1/29/2004	C	954.5	47.3	907.2
GMW-10LC	4/29/2004	C	954.5	15.25	939.25
GMW-10LC	7/30/2004	C	954.5	10.4	944.1
GMW-10LC	11/2/2004	C	954.5	22.3	932.2
GMW-10LC	1/28/2005	C	954.5	25.6	928.9
GMW-10LC	5/6/2005	C	954.5	26	928.5
GMW-10LC	7/26/2005	C	954.5	39	915.5
GMW-10LC	10/27/2005	C	954.5	21	933.5
GMW-10LC	1/27/2006	C	954.5	34.65	919.85
GMW-10LC	5/3/2006	C	954.5	43.85	910.65
GMW-10LC	7/26/2006	C	954.5	51.3	903.2
GMW-10LC	1/30/2007	C	954.5	16.3	938.2
GMW-10LC	5/2/2007	C	954.5	7.9	946.6
GMW-10LC	8/1/2007	C	954.5	28.7	925.8
GMW-10LC	10/10/2007	C	954.5	69.18	885.32
GMW-10LC	1/8/2008	C	954.5	61.9	892.6
GMW-10LC	4/14/2008	C	954.5	64.13	890.37
GMW-10LC	8/4/2008	C	954.5	72	882.5
GMW-10LC	11/17/2008	C	954.5	65.34	889.16
GMW-10LC	2/16/2009	C	954.5	61.01	893.49
GMW-10LC	5/19/2009	C	954.5	64.6	889.9
GMW-10LC	8/27/2009	C	956.56	72.61	883.95
GMW-10LC	9/21/2009	C	956.56	72.21	884.35
GMW-10LC	10/19/2009	C	956.56	69.23	887.33
GMW-10LC	11/18/2009	C	956.56	66.05	890.51
GMW-10LC	2/1/2010	C	956.56	60.66	895.9
GMW-10LC	5/6/2010	C	956.56	63.38	893.18
GMW-10LC	8/23/2010	C	956.56	70.1	886.46
GMW-10LC	11/29/2010	C	956.56	61.5	895.06
GMW-10LC	2/3/2011	C	956.56	59.45	897.11
GMW-10LC	5/2/2011	C	956.56	64.69	891.87

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-10LC	8/1/2011	C	956.56	71.24	885.32
GMW-10LC	11/1/2011	C	956.56	67.5	889.06
GMW-10LC	2/1/2012	C	956.011	66.31	889.701
GMW-10LC	5/1/2012	C	956.011	65.74	890.271
GMW-10LC	8/2/2012	C	956.011	105.3	850.711
GMW-10LC	11/1/2012	C	956.011	67.12	888.891
GMW-10LC	2/4/2013	C	956.011	75.18	880.831
GMW-10LC	5/1/2013	C	956.011	67.71	888.301
GMW-10LC	8/6/2013	C	956.56	76.4	880.16
GMW-10LC	11/4/2013	C	956.56	69.9	886.66
GMW-10UC	12/24/1992	C	954.5	47.2	907.3
GMW-10UC	6/29/1993	C	954.5	50.1	904.4
GMW-10UC	3/8/1994	C	954.5	46.4	908.1
GMW-10UC	7/7/1994	C	954.5	59.7	894.8
GMW-10UC	10/25/1994	C	954.6	51.23	903.37
GMW-10UC	10/27/1994	C	954.6	51.68	902.92
GMW-10UC	11/1/1994	C	954.6	50.89	903.71
GMW-10UC	11/4/1994	C	954.6	50.68	903.92
GMW-10UC	11/8/1994	C	954.6	50.64	903.96
GMW-10UC	11/11/1994	C	954.6	50.95	903.65
GMW-10UC	11/15/1994	C	954.6	50.54	904.06
GMW-10UC	11/18/1994	C	954.6	49.28	905.32
GMW-10UC	11/21/1994	C	954.6	59.93	894.67
GMW-10UC	11/21/1994	C	954.6	59.93	894.67
GMW-10UC	11/23/1994	C	954.6	50.25	904.35
GMW-10UC	11/29/1994	C	954.6	49.69	904.91
GMW-10UC	12/2/1994	C	954.6	51.03	903.57
GMW-10UC	12/9/1994	C	954.6	49.53	905.07
GMW-10UC	12/13/1994	C	954.6	50.07	904.53
GMW-10UC	12/20/1994	C	954.6	49.11	905.49
GMW-10UC	12/27/1994	C	954.6	48.35	906.25
GMW-10UC	1/3/1995	C	954.6	48.93	905.67
GMW-10UC	1/10/1995	C	954.6	47.96	906.64
GMW-10UC	1/17/1995	C	954.6	47.07	907.53
GMW-10UC	1/23/1995	C	954.6	47	907.6
GMW-10UC	1/24/1995	C	954.6	47.1	907.5
GMW-10UC	1/31/1995	C	954.6	47.08	907.52
GMW-10UC	2/8/1995	C	954.6	47.36	907.24
GMW-10UC	2/13/1995	C	954.6	49.02	905.58
GMW-10UC	2/22/1995	C	954.6	47.2	907.4
GMW-10UC	3/2/1995	C	954.6	46.5	908.1
GMW-10UC	3/10/1995	C	954.6	46.2	908.4
GMW-10UC	3/15/1995	C	954.6	45.85	908.75
GMW-10UC	10/31/1995	C	954.6	49.95	904.65
GMW-10UC	11/29/1995	C	954.6	48.3	906.3
GMW-10UC	12/30/1995	C	954.6	48.62	905.98
GMW-10UC	1/31/1996	C	954.6	48	906.6
GMW-10UC	2/20/1996	C	954.6	48.2	906.4
GMW-10UC	3/30/1996	C	954.6	52.85	901.75
GMW-10UC	4/29/1996	C	954.6	54.17	900.43
GMW-10UC	5/31/1996	C	954.6	54.22	900.38
GMW-10UC	6/28/1996	C	954.6	62.7	891.9
GMW-10UC	7/31/1996	C	954.6	66.1	888.5

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-10UC	8/30/1996	C	954.6	65.25	889.35
GMW-10UC	9/28/1996	C	954.6	53.95	900.65
GMW-10UC	10/30/1996	C	954.6	52.35	902.25
GMW-10UC	1/15/1997	C	954.6	51.35	903.25
GMW-10UC	4/29/1997	C	954.6	58.75	895.85
GMW-10UC	7/29/1997	C	954.6	68.41	886.19
GMW-10UC	10/22/1997	C	954.6	56.7	897.9
GMW-10UC	1/30/1998	C	954.6	54.55	900.05
GMW-10UC	8/31/2010	C	956.66	8.32	948.34
GMW-10UC	11/29/2010	C	956.66	25.55	931.11
GMW-10UC	2/3/2011	C	956.66	59.3	897.36
GMW-10UC	5/3/2011	C	956.66	65.25	891.41
GMW-10UC	8/1/2011	C	956.66	71.13	885.53
GMW-10UC	11/2/2011	C	956.66	67.18	889.48
GMW-10UC	2/1/2012	C	955.969	84.52	871.449
GMW-10UC	5/1/2012	C	955.969	65.55	890.419
GMW-10UC	8/3/2012	C	955.969	72.12	883.849
GMW-10UC	11/1/2012	C	955.969	67.02	888.949
GMW-11LC	12/23/1992	C	955.74	48.9	906.84
GMW-11LC	6/18/1993	C	955.74	50.1	905.64
GMW-11LC	3/9/1994	C	955.74	48.7	907.04
GMW-11LC	7/20/1994	C	955.74	63	892.74
GMW-11LC	10/25/1994	C	955.84	53.18	902.66
GMW-11LC	10/27/1994	C	955.84	52.96	902.88
GMW-11LC	11/1/1994	C	955.84	52.88	902.96
GMW-11LC	11/8/1994	C	955.84	52.94	902.9
GMW-11LC	11/11/1994	C	955.84	52	903.84
GMW-11LC	11/15/1994	C	955.84	51.99	903.85
GMW-11LC	11/21/1994	C	955.84	51.77	904.07
GMW-11LC	11/23/1994	C	955.84	52.16	903.68
GMW-11LC	11/29/1994	C	955.84	51.9	903.94
GMW-11LC	12/2/1994	C	955.84	52.84	903
GMW-11LC	12/9/1994	C	955.84	52.01	903.83
GMW-11LC	12/13/1994	C	955.84	52.05	903.79
GMW-11LC	12/20/1994	C	955.84	51.44	904.4
GMW-11LC	12/27/1994	C	955.84	51.03	904.81
GMW-11LC	1/3/1995	C	955.84	51.04	904.8
GMW-11LC	1/10/1995	C	955.84	50.98	904.86
GMW-11LC	1/10/1995	C	955.84	50.98	904.86
GMW-11LC	1/16/1995	C	955.84	49.7	906.14
GMW-11LC	1/17/1995	C	955.84	49.72	906.12
GMW-11LC	1/24/1995	C	955.84	49.71	906.13
GMW-11LC	1/31/1995	C	955.84	48.95	906.89
GMW-11LC	2/7/1995	C	955.84	49.52	906.32
GMW-11LC	2/13/1995	C	955.84	47.25	908.59
GMW-11LC	2/22/1995	C	955.84	49.35	906.49
GMW-11LC	3/2/1995	C	955.84	48.65	907.19
GMW-11LC	3/10/1995	C	955.84	48.48	907.36
GMW-11LC	3/15/1995	C	955.84	47.95	907.89
GMW-11LC	4/5/1995	C	955.84	53.85	901.99
GMW-11LC	4/14/1995	C	955.84	53.66	902.18
GMW-11LC	4/18/1995	C	955.84	53.56	902.28
GMW-11LC	4/25/1995	C	955.84	53.57	902.27

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-11LC	5/3/1995	C	955.84	53.49	902.35
GMW-11LC	5/16/1995	C	955.84	53.02	902.82
GMW-11LC	5/24/1995	C	955.84	53.19	902.65
GMW-11LC	6/2/1995	C	955.84	52.98	902.86
GMW-11LC	6/6/1995	C	955.84	50.9	904.94
GMW-11LC	6/15/1995	C	955.84	55.48	900.36
GMW-11LC	6/22/1995	C	955.84	54.04	901.8
GMW-11LC	6/26/1995	C	955.84	52.79	903.05
GMW-11LC	7/7/1995	C	955.84	58.6	897.24
GMW-11LC	7/21/1995	C	955.84	60.2	895.64
GMW-11LC	7/28/1995	C	955.84	62.39	893.45
GMW-11LC	8/2/1995	C	955.84	60.48	895.36
GMW-11LC	8/10/1995	C	955.84	62.22	893.62
GMW-11LC	8/15/1995	C	955.84	58.5	897.34
GMW-11LC	8/23/1995	C	955.84	54	901.84
GMW-11LC	8/31/1995	C	955.84	58.57	897.27
GMW-11LC	9/6/1995	C	955.84	52.65	903.19
GMW-11LC	9/13/1995	C	955.84	51.3	904.54
GMW-11LC	9/22/1995	C	955.84	52.31	903.53
GMW-11LC	9/28/1995	C	955.84	49.63	906.21
GMW-11LC	10/6/1995	C	955.84	49.2	906.64
GMW-11LC	10/31/1995	C	955.84	51.97	903.87
GMW-11LC	11/29/1995	C	955.84	50.41	905.43
GMW-11LC	12/30/1995	C	955.84	50.5	905.34
GMW-11LC	1/14/1996	C	955.84	46.21	909.63
GMW-11LC	2/11/1996	C	955.84	46.29	909.55
GMW-11LC	3/15/1996	C	955.84	48.18	907.66
GMW-11LC	4/29/1996	C	955.84	51.09	904.75
GMW-11LC	5/28/1996	C	955.84	49.97	905.87
GMW-11LC	6/17/1996	C	955.84	54.18	901.66
GMW-11LC	7/30/1996	C	955.84	61.01	894.83
GMW-11LC	8/19/1996	C	955.84	58.71	897.13
GMW-11LC	9/27/1996	C	955.84	51.82	904.02
GMW-11LC	10/28/1996	C	955.84	49.01	906.83
GMW-11LC	1/15/1997	C	955.84	46.38	909.46
GMW-11LC	4/29/1997	C	955.84	55.15	900.69
GMW-11LC	7/29/1997	C	955.84	57.69	898.15
GMW-11LC	10/22/1997	C	955.84	52.34	903.5
GMW-11LC	1/29/1998	C	955.84	11.8	944.04
GMW-11LC	5/1/1998	C	955.84	49.1	906.74
GMW-11LC	7/27/1998	C	955.84	50.43	905.41
GMW-11LC	10/29/1998	C	955.84	47.31	908.53
GMW-11LC	1/29/1999	C	955.84	46.8	909.04
GMW-11LC	4/29/1999	C	955.84	48.64	907.2
GMW-11LC	8/4/1999	C	955.84	59.11	896.73
GMW-11LC	10/12/1999	C	955.84	61.13	894.71
GMW-11LC	2/9/2000	C	955.84	82	873.84
GMW-11LC	5/2/2000	C	955.84	82	873.84
GMW-11LC	8/2/2000	C	955.84	82	873.84
GMW-11LC	10/16/2000	C	955.84	82	873.84
GMW-11LC	1/31/2001	C	955.84	82	873.84
GMW-11LC	5/24/2001	C	955.84	82	873.84
GMW-11LC	7/31/2001	C	955.84	82	873.84

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-11LC	10/29/2001	C	955.84	82	873.84
GMW-11LC	1/30/2002	C	955.84	55.7	900.14
GMW-11LC	5/14/2002	C	955.84	60.25	895.59
GMW-11LC	7/31/2002	C	955.84	72.2	883.64
GMW-11LC	10/31/2002	C	955.84	61.8	894.04
GMW-11LC	1/31/2003	C	955.84	58.4	897.44
GMW-11LC	4/29/2003	C	955.84	59.95	895.89
GMW-11LC	8/7/2003	C	955.84	67.7	888.14
GMW-11LC	10/29/2003	C	955.84	63.22	892.62
GMW-11LC	1/28/2004	C	955.84	58.73	897.11
GMW-11LC	4/28/2004	C	955.84	62.7	893.14
GMW-11LC	7/30/2004	C	955.84	74.5	881.34
GMW-11LC	11/2/2004	C	955.84	65.15	890.69
GMW-11LC	1/28/2005	C	955.84	59.4	896.44
GMW-11LC	5/5/2005	C	955.84	59.9	895.94
GMW-11LC	7/26/2005	C	955.84	67.75	888.09
GMW-11LC	10/27/2005	C	955.84	60.9	894.94
GMW-11LC	1/27/2006	C	955.84	59.1	896.74
GMW-11LC	5/3/2006	C	955.84	63.3	892.54
GMW-11LC	7/26/2006	C	955.84	68.7	887.14
GMW-11LC	10/31/2006	C	955.84	62.9	892.94
GMW-11LC	1/29/2007	C	955.84	61.5	894.34
GMW-11LC	5/2/2007	C	955.84	64	891.84
GMW-11LC	7/31/2007	C	955.84	72.6	883.24
GMW-11LC	10/10/2007	C	955.84	70.67	885.17
GMW-11LC	1/10/2008	C	955.84	61.1	894.74
GMW-11LC	4/14/2008	C	955.84	65.21	890.63
GMW-11LC	8/1/2008	C	955.84	72.19	883.65
GMW-11LC	11/17/2008	C	955.84	66.21	889.63
GMW-11LC	2/16/2009	C	955.84	62.18	893.66
GMW-11LC	5/19/2009	C	955.84	65.15	890.69
GMW-11LC	8/25/2009	C	957.9	71.6	886.3
GMW-11LC	9/21/2009	C	957.9	73.01	884.89
GMW-11LC	10/19/2009	C	957.9	69.93	887.97
GMW-11LC	11/18/2009	C	957.9	67.05	890.85
GMW-11LC	2/1/2010	C	957.9	61.75	896.15
GMW-11LC	5/6/2010	C	957.9	63.88	894.02
GMW-11LC	8/23/2010	C	957.9	70.87	887.03
GMW-11LC	11/29/2010	C	957.9	63	894.9
GMW-11LC	2/3/2011	C	957.9	60.68	897.22
GMW-11LC	5/2/2011	C	957.9	65.71	892.19
GMW-11LC	8/1/2011	C	957.9	72.6	885.3
GMW-11LC	11/2/2011	C	957.9	68.4	889.5
GMW-11LC	2/1/2012	C	957.394	67.1	890.294
GMW-11LC	5/1/2012	C	957.394	67.1	890.294
GMW-11LC	8/2/2012	C	957.394	74.22	883.174
GMW-11LC	11/2/2012	C	957.394	68.38	889.014
GMW-11LC	2/4/2013	C	957.394	63.65	893.744
GMW-11LC	5/1/2013	C	957.394	68.8	888.594
GMW-11LC	8/6/2013	C	957.9	77.45	880.45
GMW-11LC	11/4/2013	C	957.9	71.07	886.83
GMW-11UC	12/23/1992	C	955.84	49.4	906.44
GMW-11UC	6/30/1993	C	955.84	51.3	904.54

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-11UC	3/8/1994	C	955.84	48.4	907.44
GMW-11UC	7/8/1994	C	955.84	61.4	894.44
GMW-11UC	11/1/1994	C	955.74	52.6	903.14
GMW-11UC	11/4/1994	C	955.74	52.77	902.97
GMW-11UC	11/4/1994	C	955.74	52.46	903.28
GMW-11UC	11/8/1994	C	955.74	52.42	903.32
GMW-11UC	11/11/1994	C	955.74	52.06	903.68
GMW-11UC	11/15/1994	C	955.74	52.19	903.55
GMW-11UC	11/21/1994	C	955.74	51.77	903.97
GMW-11UC	11/23/1994	C	955.74	51.79	903.95
GMW-11UC	11/29/1994	C	955.74	51.52	904.22
GMW-11UC	12/2/1994	C	955.74	53.25	902.49
GMW-11UC	12/9/1994	C	955.74	51.59	904.15
GMW-11UC	12/13/1994	C	955.74	51.76	903.98
GMW-11UC	12/20/1994	C	955.74	51	904.74
GMW-11UC	12/27/1994	C	955.74	50.54	905.2
GMW-11UC	1/3/1995	C	955.74	50.6	905.14
GMW-11UC	1/10/1995	C	955.74	49.51	906.23
GMW-11UC	1/12/1995	C	955.74	49.2	906.54
GMW-11UC	1/17/1995	C	955.74	49.18	906.56
GMW-11UC	1/24/1995	C	955.74	49.19	906.55
GMW-11UC	1/31/1995	C	955.74	48.6	907.14
GMW-11UC	2/7/1995	C	955.74	49.31	906.43
GMW-11UC	2/13/1995	C	955.74	47.35	908.39
GMW-11UC	2/22/1995	C	955.74	49.05	906.69
GMW-11UC	3/2/1995	C	955.74	48.37	907.37
GMW-11UC	3/10/1995	C	955.74	48.25	907.49
GMW-11UC	3/15/1995	C	955.74	47.7	908.04
GMW-11UC	10/31/1995	C	955.74	51.75	903.99
GMW-11UC	11/29/1995	C	955.74	50.18	905.56
GMW-11UC	12/30/1995	C	955.74	50.35	905.39
GMW-11UC	1/31/1996	C	955.74	49.9	905.84
GMW-11UC	2/20/1996	C	955.74	50	905.74
GMW-11UC	3/30/1996	C	955.74	54.65	901.09
GMW-11UC	4/29/1996	C	955.74	55.95	899.79
GMW-11UC	5/31/1996	C	955.74	55.62	900.12
GMW-11UC	6/28/1996	C	955.74	64.35	891.39
GMW-11UC	7/31/1996	C	955.74	67.45	888.29
GMW-11UC	8/30/1996	C	955.74	67.04	888.7
GMW-11UC	9/28/1996	C	955.74	55.9	899.84
GMW-11UC	10/29/1996	C	955.74	54.75	900.99
GMW-11UC	1/15/1997	C	955.74	54.02	901.72
GMW-11UC	4/29/1997	C	955.74	60.21	895.53
GMW-11UC	7/29/1997	C	955.74	70.15	885.59
GMW-11UC	10/22/1997	C	955.74	58.25	897.49
GMW-11UC	1/29/1998	C	955.74	56.3	899.44
GMW-11UC	5/8/1998	C	955.74	56.8	898.94
GMW-11UC	7/29/1998	C	955.74	58.3	897.44
GMW-11UC	10/29/1998	C	955.74	53.45	902.29
GMW-11UC	1/28/1999	C	955.74	52.7	903.04
GMW-11UC	4/28/1999	C	955.74	57.87	897.87
GMW-11UC	8/4/1999	C	955.74	65.55	890.19
GMW-11UC	10/12/1999	C	955.74	57.7	898.04

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-11UC	2/9/2000	C	955.74	54.7	901.04
GMW-11UC	5/2/2000	C	955.74	56.65	899.09
GMW-11UC	8/2/2000	C	955.74	67.6	888.14
GMW-11UC	10/25/2000	C	955.74	57.8	897.94
GMW-11UC	1/31/2001	C	955.74	53.4	902.34
GMW-11UC	5/24/2001	C	955.74	56.35	899.39
GMW-11UC	7/31/2001	C	955.74	64.25	891.49
GMW-11UC	10/30/2001	C	955.74	58.3	897.44
GMW-11UC	1/30/2002	C	955.74	55.95	899.79
GMW-11UC	5/14/2002	C	955.74	60.57	895.17
GMW-11UC	7/31/2002	C	955.74	72.4	883.34
GMW-11UC	10/31/2002	C	955.74	62	893.74
GMW-11UC	1/31/2003	C	955.74	58.8	896.94
GMW-11UC	4/29/2003	C	955.74	60.2	895.54
GMW-11UC	8/7/2003	C	955.74	67.95	887.79
GMW-11UC	10/29/2003	C	955.74	63.5	892.24
GMW-11UC	1/28/2004	C	955.74	58.88	896.86
GMW-11UC	4/28/2004	C	955.74	62.9	892.84
GMW-11UC	7/30/2004	C	955.74	74.65	881.09
GMW-11UC	11/2/2004	C	955.74	65.4	890.34
GMW-11UC	1/28/2005	C	955.74	59.65	896.09
GMW-11UC	5/5/2005	C	955.74	60.1	895.64
GMW-11UC	7/26/2005	C	955.74	68.05	887.69
GMW-11UC	10/27/2005	C	955.74	61.2	894.54
GMW-11UC	1/27/2006	C	955.74	59.2	896.54
GMW-11UC	5/3/2006	C	955.74	63.2	892.54
GMW-11UC	7/26/2006	C	955.74	68.5	887.24
GMW-11UC	10/31/2006	C	955.74	63.15	892.59
GMW-11UC	1/29/2007	C	955.74	61.8	893.94
GMW-11UC	5/2/2007	C	955.74	63.9	891.84
GMW-11UC	7/31/2007	C	955.74	72.6	883.14
GMW-11UC	10/11/2007	C	955.74	70.65	885.09
GMW-11UC	1/11/2008	C	955.74	61.63	894.11
GMW-11UC	4/14/2008	C	955.74	65.23	890.51
GMW-11UC	8/1/2008	C	955.74	72.11	883.63
GMW-11UC	11/17/2008	C	955.74	66.18	889.56
GMW-11UC	2/16/2009	C	955.74	62.06	893.68
GMW-11UC	5/19/2009	C	955.74	65.35	890.39
GMW-11UC	8/27/2009	C	957.8	73.69	884.11
GMW-11UC	9/21/2009	C	957.8	72.92	884.88
GMW-11UC	10/19/2009	C	957.8	69.92	887.88
GMW-11UC	11/18/2009	C	957.8	67.01	890.79
GMW-11UC	2/1/2010	C	957.8	61.87	895.93
GMW-11UC	5/6/2010	C	957.8	63.93	893.87
GMW-11UC	8/23/2010	C	957.8	76.8	881
GMW-11UC	11/29/2010	C	957.8	63.3	894.5
GMW-11UC	2/3/2011	C	957.8	60.63	897.17
GMW-11UC	5/2/2011	C	957.8	65.52	892.28
GMW-11UC	8/1/2011	C	957.8	72.4	885.4
GMW-11UC	11/2/2011	C	957.8	68.15	889.65
GMW-11UC	2/1/2012	C	957.237	66.85	890.387
GMW-11UC	5/1/2012	C	957.237	66.8	890.437
GMW-11UC	8/2/2012	C	957.237	73.61	883.627

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-11UC	11/2/2012	C	957.237	68.5	888.737
GMW-11UC	2/4/2013	C	957.237	63.72	893.517
GMW-11UC	5/1/2013	C	957.237	68.81	888.427
GMW-11UC	8/6/2013	C	957.8	77.5	880.3
GMW-11UC	11/4/2013	C	957.8	71.12	886.68
GMW-12LC	1/5/1993	C	961.14	53.8	907.34
GMW-12LC	6/30/1993	C	961.14	56.7	904.44
GMW-12LC	2/26/1994	C	961.14	53.1	908.04
GMW-12LC	7/7/1994	C	961.14	65.7	895.44
GMW-12LC	10/25/1994	C	961.14	58.49	902.65
GMW-12LC	10/27/1994	C	961.14	58.23	902.91
GMW-12LC	11/1/1994	C	961.14	58	903.14
GMW-12LC	11/4/1994	C	961.14	57.73	903.41
GMW-12LC	11/8/1994	C	961.14	57.86	903.28
GMW-12LC	11/11/1994	C	961.14	57.7	903.44
GMW-12LC	11/15/1994	C	961.14	56.93	904.21
GMW-12LC	11/21/1994	C	961.14	57.13	904.01
GMW-12LC	11/23/1994	C	961.14	57.25	903.89
GMW-12LC	11/29/1994	C	961.14	56.98	904.16
GMW-12LC	12/2/1994	C	961.14	58.07	903.07
GMW-12LC	12/9/1994	C	961.14	56.97	904.17
GMW-12LC	12/13/1994	C	961.14	57.09	904.05
GMW-12LC	12/20/1994	C	961.14	56.42	904.72
GMW-12LC	12/27/1994	C	961.14	55.87	905.27
GMW-12LC	1/3/1995	C	961.14	55.69	905.45
GMW-12LC	1/10/1995	C	961.14	54.91	906.23
GMW-12LC	1/17/1995	C	961.14	54.49	906.65
GMW-12LC	1/24/1995	C	961.14	54.42	906.72
GMW-12LC	1/27/1995	C	961.14	54.4	906.74
GMW-12LC	1/31/1995	C	961.14	53.85	907.29
GMW-12LC	2/7/1995	C	961.14	54.59	906.55
GMW-12LC	2/13/1995	C	961.14	54.32	906.82
GMW-12LC	2/22/1995	C	961.14	54.34	906.8
GMW-12LC	3/2/1995	C	961.14	53.75	907.39
GMW-12LC	3/10/1995	C	961.14	53.45	907.69
GMW-12LC	3/15/1995	C	961.14	53	908.14
GMW-12LC	10/31/1995	C	950.98	57.02	893.96
GMW-12LC	11/29/1995	C	950.98	55.6	895.38
GMW-12LC	12/30/1995	C	950.98	55.7	895.28
GMW-12LC	1/31/1996	C	950.98	55.3	895.68
GMW-12LC	2/20/1996	C	950.98	55.4	895.58
GMW-12LC	3/30/1996	C	950.98	59.78	891.2
GMW-12LC	4/29/1996	C	950.98	60.9	890.08
GMW-12LC	5/31/1996	C	950.98	60.51	890.47
GMW-12LC	6/28/1996	C	950.98	69.26	881.72
GMW-12LC	7/31/1996	C	950.98	71.86	879.12
GMW-12LC	8/30/1996	C	950.98	71.86	879.12
GMW-12LC	9/28/1996	C	950.98	61.1	889.88
GMW-12LC	10/30/1996	C	950.98	59.42	891.56
GMW-12LC	1/15/1997	C	950.98	57.68	893.3
GMW-12LC	4/29/1997	C	950.98	64.84	886.14
GMW-12LC	7/29/1997	C	950.98	74.79	876.19
GMW-12LC	10/22/1997	C	950.98	63.3	887.68

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-12LC	1/29/1998	C	950.98	61.55	889.43
GMW-12LC	5/8/1998	C	950.98	61.8	889.18
GMW-12LC	7/29/1998	C	950.98	63.25	887.73
GMW-12LC	10/29/1998	C	950.98	58.47	892.51
GMW-12LC	1/28/1999	C	950.98	58	892.98
GMW-12LC	4/28/1999	C	950.98	62.87	888.11
GMW-12LC	8/4/1999	C	950.98	70.79	880.19
GMW-12LC	10/12/1999	C	950.98	63.1	887.88
GMW-12LC	2/9/2000	C	950.98	60.1	890.88
GMW-12LC	5/2/2000	C	950.98	61.8	889.18
GMW-12LC	8/2/2000	C	950.98	72.75	878.23
GMW-12LC	10/25/2000	C	950.98	63.5	887.48
GMW-12LC	1/31/2001	C	950.98	58.9	892.08
GMW-12LC	5/24/2001	C	950.98	61.7	889.28
GMW-12LC	7/31/2001	C	950.98	69.5	881.48
GMW-12LC	10/30/2001	C	950.98	63.8	887.18
GMW-12LC	1/30/2002	C	950.98	61.35	889.63
GMW-12LC	5/14/2002	C	950.98	65.7	885.28
GMW-12LC	7/31/2002	C	950.98	77.3	873.68
GMW-12LC	10/31/2002	C	950.98	67.1	883.88
GMW-12LC	1/30/2003	C	950.98	64	886.98
GMW-12LC	4/29/2003	C	950.98	65.3	885.68
GMW-12LC	8/8/2003	C	950.98	72.2	878.78
GMW-12LC	10/29/2003	C	950.98	68.5	882.48
GMW-12LC	1/28/2004	C	950.98	64.1	886.88
GMW-12LC	4/30/2004	C	950.98	66.55	884.43
GMW-12LC	7/30/2004	C	950.98	79.6	871.38
GMW-12LC	11/2/2004	C	950.98	70.3	880.68
GMW-12LC	1/28/2005	C	950.98	64.6	886.38
GMW-12LC	5/5/2005	C	950.98	64.87	886.11
GMW-12LC	7/26/2005	C	960.86	72.7	888.16
GMW-12LC	10/27/2005	C	960.86	66.2	894.66
GMW-12LC	1/26/2006	C	960.86	64.3	896.56
GMW-12LC	5/3/2006	C	960.86	68	892.86
GMW-12LC	7/26/2006	C	960.86	73	887.86
GMW-12LC	10/31/2006	C	960.86	68.1	892.76
GMW-12LC	1/29/2007	C	960.86	66.8	894.06
GMW-12LC	5/2/2007	C	960.86	68.7	892.16
GMW-12LC	7/31/2007	C	960.86	77.1	883.76
GMW-12LC	10/11/2007	C	960.86	74.6	886.26
GMW-12LC	1/10/2008	C	960.86	66.15	894.71
GMW-12LC	4/14/2008	C	960.86	70.19	890.67
GMW-12LC	11/17/2008	C	960.86	71.02	889.84
GMW-12LC	2/16/2009	C	960.86	67	893.86
GMW-12LC	5/19/2009	C	960.86	69.53	891.33
GMW-12LC	8/25/2009	C	962.92	76.5	886.42
GMW-12LC	9/21/2009	C	962.92	77.65	885.27
GMW-12LC	10/19/2009	C	962.92	74.6	888.32
GMW-12LC	11/18/2009	C	962.92	72.08	890.84
GMW-12LC	2/1/2010	C	962.92	66.76	896.16
GMW-12LC	5/6/2010	C	962.92	68.62	894.3
GMW-12LC	8/23/2010	C	962.92	75.25	887.67
GMW-12LC	11/29/2010	C	962.92	68.28	894.64

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-12LC	2/3/2011	C	962.92	65.88	897.04
GMW-12LC	5/2/2011	C	962.92	70.42	892.5
GMW-12LC	8/1/2011	C	962.92	77.49	885.43
GMW-12LC	11/2/2011	C	962.92	73.35	889.57
GMW-12LC	2/1/2012	C	962.92	71.8	891.12
GMW-12LC	5/1/2012	C	962.92	71.9	891.02
GMW-12LC	8/2/2012	C	962.92	78.51	884.41
GMW-12LC	11/2/2012	C	962.92	73.79	889.13
GMW-12LC	2/4/2013	C	962.92	68.98	893.94
GMW-12LC	5/1/2013	C	962.92	73.84	889.08
GMW-12LC	8/6/2013	C	962.92	82.32	880.6
GMW-12LC	11/4/2013	C	962.92	76.26	886.66
GMW-12UC	1/5/1993	C	960.98	53.7	907.28
GMW-12UC	6/30/1993	C	960.98	56.5	904.48
GMW-12UC	2/26/1994	C	960.98	53.2	907.78
GMW-12UC	7/8/1994	C	960.98	66.3	894.68
GMW-12UC	10/25/1994	C	960.98	58.35	902.63
GMW-12UC	10/27/1994	C	960.98	58.41	902.57
GMW-12UC	11/1/1994	C	960.98	57.87	903.11
GMW-12UC	11/4/1994	C	960.98	57.6	903.38
GMW-12UC	11/8/1994	C	960.98	57.72	903.26
GMW-12UC	11/11/1994	C	960.98	57.23	903.75
GMW-12UC	11/15/1994	C	960.98	57.2	903.78
GMW-12UC	11/21/1994	C	960.98	57.16	903.82
GMW-12UC	11/23/1994	C	960.98	57.08	903.9
GMW-12UC	11/29/1994	C	960.98	56.94	904.04
GMW-12UC	12/2/1994	C	960.98	57.97	903.01
GMW-12UC	12/9/1994	C	960.98	56.88	904.1
GMW-12UC	12/13/1994	C	960.98	57	903.98
GMW-12UC	12/20/1994	C	960.98	56.47	904.51
GMW-12UC	12/27/1994	C	960.98	55.67	905.31
GMW-12UC	1/3/1995	C	960.98	55.56	905.42
GMW-12UC	1/10/1995	C	960.98	54.89	906.09
GMW-12UC	1/17/1995	C	960.98	54.48	906.5
GMW-12UC	1/23/1995	C	960.98	54.3	906.68
GMW-12UC	1/24/1995	C	960.98	54.38	906.6
GMW-12UC	1/31/1995	C	960.98	53.76	907.22
GMW-12UC	2/7/1995	C	960.98	54.53	906.45
GMW-12UC	2/13/1995	C	960.98	54.24	906.74
GMW-12UC	2/22/1995	C	960.98	54.24	906.74
GMW-12UC	3/2/1995	C	960.98	53.64	907.34
GMW-12UC	3/10/1995	C	960.98	53.35	907.63
GMW-12UC	3/15/1995	C	960.98	52.9	908.08
GMW-12UC	10/31/1995	C	951.14	56.96	894.18
GMW-12UC	11/29/1995	C	951.14	55.5	895.64
GMW-12UC	12/30/1995	C	951.14	55.55	895.59
GMW-12UC	1/31/1996	C	951.14	55.18	895.96
GMW-12UC	2/20/1996	C	951.14	55.38	895.76
GMW-12UC	3/30/1996	C	951.14	59.65	891.49
GMW-12UC	4/29/1996	C	951.14	60.78	890.36
GMW-12UC	5/31/1996	C	951.14	60.4	890.74
GMW-12UC	6/28/1996	C	951.14	69.09	882.05
GMW-12UC	7/31/1996	C	951.14	71.8	879.34

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-12UC	8/30/1996	C	951.14	71.75	879.39
GMW-12UC	9/28/1996	C	951.14	61	890.14
GMW-12UC	10/30/1996	C	951.14	59.4	891.74
GMW-12UC	1/15/1997	C	951.14	57.6	893.54
GMW-12UC	4/29/1997	C	951.14	64.71	886.43
GMW-12UC	7/29/1997	C	951.14	74.78	876.36
GMW-12UC	10/22/1997	C	951.14	63.17	887.97
GMW-12UC	1/29/1998	C	951.14	61.55	889.59
GMW-12UC	10/11/2007	C	951.14	75.3	875.84
GMW-12UC	11/17/2008	C	951.14	70.95	880.19
GMW-13UC	4/5/1995	C	964.9	60.62	904.28
GMW-13UC	4/12/1995	C	964.9	62.61	902.29
GMW-13UC	4/18/1995	C	964.9	59.95	904.95
GMW-13UC	4/25/1995	C	964.9	59.21	905.69
GMW-13UC	5/4/1995	C	964.9	58.7	906.2
GMW-13UC	5/16/1995	C	964.9	58.35	906.55
GMW-13UC	5/25/1995	C	964.9	59.9	905
GMW-13UC	6/2/1995	C	964.9	63.16	901.74
GMW-13UC	6/6/1995	C	964.9	63.45	901.45
GMW-13UC	6/15/1995	C	964.9	67.35	897.55
GMW-13UC	6/23/1995	C	964.9	66.17	898.73
GMW-13UC	6/29/1995	C	964.9	69.67	895.23
GMW-13UC	7/7/1995	C	964.9	68.82	896.08
GMW-13UC	7/21/1995	C	964.9	73.42	891.48
GMW-13UC	7/28/1995	C	964.9	75.85	889.05
GMW-13UC	8/2/1995	C	964.9	73.75	891.15
GMW-13UC	8/11/1995	C	964.9	74.8	890.1
GMW-13UC	8/15/1995	C	964.9	73.25	891.65
GMW-13UC	8/23/1995	C	964.9	66.56	898.34
GMW-13UC	8/31/1995	C	964.9	69.4	895.5
GMW-13UC	9/6/1995	C	964.9	66.92	897.98
GMW-13UC	9/13/1995	C	964.9	63.67	901.23
GMW-13UC	9/22/1995	C	964.9	63.48	901.42
GMW-13UC	9/28/1995	C	964.9	61.73	903.17
GMW-13UC	10/6/1995	C	964.9	60.66	904.24
GMW-13UC	10/31/1995	C	964.9	59.45	905.45
GMW-13UC	11/30/1995	C	964.9	58.14	906.76
GMW-13UC	12/30/1995	C	964.9	58.36	906.54
GMW-13UC	1/31/1996	C	964.9	58.85	906.05
GMW-13UC	2/20/1996	C	964.9	58.45	906.45
GMW-13UC	3/30/1996	C	964.9	63.21	901.69
GMW-13UC	4/29/1996	C	964.9	64.75	900.15
GMW-13UC	5/31/1996	C	964.9	64.93	899.97
GMW-13UC	6/28/1996	C	964.9	73.53	891.37
GMW-13UC	7/30/1996	C	964.9	74.66	890.24
GMW-13UC	8/30/1996	C	964.9	77	887.9
GMW-13UC	9/28/1996	C	964.9	65.36	899.54
GMW-13UC	10/29/1996	C	964.9	66.62	898.28
GMW-13UC	1/16/1997	C	964.9	60.95	903.95
GMW-13UC	4/28/1997	C	964.9	71.27	893.63
GMW-13UC	7/29/1997	C	964.9	80.2	884.7
GMW-13UC	10/23/1997	C	964.9	67.22	897.68
GMW-13UC	1/29/1998	C	964.9	64.38	900.52

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-13UC	5/8/1998	C	964.9	65.95	898.95
GMW-13UC	7/28/1998	C	964.9	68.9	896
GMW-13UC	10/29/1998	C	964.9	61.8	903.1
GMW-13UC	1/28/1999	C	964.9	62	902.9
GMW-13UC	4/28/1999	C	964.9	68.3	896.6
GMW-13UC	8/5/1999	C	964.9	75.85	889.05
GMW-13UC	10/13/1999	C	964.9	67.3	897.6
GMW-13UC	2/9/2000	C	964.9	64.57	900.33
GMW-13UC	5/4/2000	C	964.9	68.8	896.1
GMW-13UC	8/2/2000	C	964.9	77.2	887.7
GMW-13UC	10/25/2000	C	964.9	65.75	899.15
GMW-13UC	2/1/2001	C	964.9	62.07	902.83
GMW-13UC	5/24/2001	C	964.9	65.4	899.5
GMW-13UC	7/30/2001	C	964.9	73.75	891.15
GMW-13UC	10/31/2001	C	964.9	67.2	897.7
GMW-13UC	1/30/2002	C	964.9	64.7	900.2
GMW-13UC	5/13/2002	C	964.9	69.52	895.38
GMW-13UC	7/30/2002	C	964.9	81.77	883.13
GMW-13UC	10/30/2002	C	964.9	70.95	893.95
GMW-13UC	1/31/2003	C	964.9	68	896.9
GMW-13UC	4/30/2003	C	964.9	69.95	894.95
GMW-13UC	8/8/2003	C	964.9	76.95	887.95
GMW-13UC	10/28/2003	C	964.9	72.6	892.3
GMW-13UC	1/29/2004	C	964.9	68.65	896.25
GMW-13UC	4/28/2004	C	964.9	72.87	892.03
GMW-13UC	7/29/2004	C	964.9	84.4	880.5
GMW-13UC	11/1/2004	C	964.9	75.9	889
GMW-13UC	1/27/2005	C	964.9	69.72	895.18
GMW-13UC	5/5/2005	C	964.9	72	892.9
GMW-13UC	7/26/2005	C	964.41	79.45	884.96
GMW-13UC	10/26/2005	C	964.41	71.05	893.36
GMW-13UC	1/26/2006	C	964.41	69.87	894.54
GMW-13UC	5/2/2006	C	964.41	73	891.41
GMW-13UC	7/25/2006	C	964.41	80.7	883.71
GMW-13UC	10/31/2006	C	964.41	73.95	890.46
GMW-13UC	1/29/2007	C	964.41	71.6	892.81
GMW-13UC	5/1/2007	C	964.41	74.75	889.66
GMW-13UC	8/1/2007	C	964.41	83.9	880.51
GMW-13UC	10/10/2007	C	964.41	82.1	882.31
GMW-13UC	1/11/2008	C	964.41	72.2	892.21
GMW-13UC	4/16/2008	C	964.41	78.7	885.71
GMW-13UC	8/1/2008	C	964.41	83.08	881.33
GMW-13UC	11/17/2008	C	964.41	75.9	888.51
GMW-13UC	2/21/2009	C	964.41	72.78	891.63
GMW-13UC	5/21/2009	C	964.41	76.35	888.06
GMW-13UC	8/29/2009	C	966.81	84.73	882.08
GMW-13UC	9/21/2009	C	966.81	82.99	883.82
GMW-13UC	10/19/2009	C	966.81	81.22	885.59
GMW-13UC	11/21/2009	C	966.47	77.24	889.23
GMW-13UC	2/4/2010	C	966.81	73.4	893.41
GMW-13UC	5/5/2010	C	966.81	75.42	891.39
GMW-13UC	8/23/2010	C	966.81	81.65	885.16
GMW-13UC	11/29/2010	C	966.81	73.91	892.9

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-13UC	2/3/2011	C	966.81	70.75	896.06
GMW-13UC	5/2/2011	C	966.81	76.84	889.97
GMW-13UC	8/1/2011	C	966.81	83.48	883.33
GMW-13UC	11/1/2011	C	966.81	79.92	886.89
GMW-13UC	2/1/2012	C	961.867	78	883.867
GMW-13UC	3/2/2012	C	961.867	73.43	888.437
GMW-13UC	4/2/2012	C	961.867	76.47	885.397
GMW-13UC	5/1/2012	C	966.22	76.78	889.44
GMW-13UC	6/1/2012	C	961.867	78.34	883.527
GMW-13UC	7/2/2012	C	961.867	83.97	877.897
GMW-13UC	8/1/2012	C	966.22	86.1	880.12
GMW-13UC	9/4/2012	C	966.22	85.02	881.2
GMW-13UC	10/1/2012	C	966.22	83.09	883.13
GMW-13UC	11/2/2012	C	966.22	78.45	887.77
GMW-13UC	12/3/2012	C	966.22	76.6	889.62
GMW-13UC	2/4/2013	C	966.22	74.18	892.04
GMW-13UC	5/1/2013	C	966.22	78.95	887.27
GMW-13UC	8/5/2013	C	966.81	88.15	878.66
GMW-13UC	11/5/2013	C	966.81	80.02	886.79
GMW-14UC	5/4/2000	C	970.95	74.85	896.1
GMW-14UC	8/2/2000	C	970.95	83.35	887.6
GMW-14UC	10/25/2000	C	970.95	72.3	898.65
GMW-14UC	2/1/2001	C	970.95	68.5	902.45
GMW-14UC	5/24/2001	C	970.95	72	898.95
GMW-14UC	7/30/2001	C	970.95	80.85	890.1
GMW-14UC	10/29/2001	C	970.95	76.2	894.75
GMW-14UC	1/30/2002	C	970.95	71.75	899.2
GMW-14UC	5/13/2002	C	970.95	75.65	895.3
GMW-14UC	7/30/2002	C	970.95	88.17	882.78
GMW-14UC	10/30/2002	C	970.95	77.9	893.05
GMW-14UC	1/31/2003	C	970.95	74.4	896.55
GMW-14UC	4/30/2003	C	970.95	76.95	894
GMW-14UC	10/31/2003	C	970.95	78.75	892.2
GMW-14UC	1/29/2004	C	970.95	74.85	896.1
GMW-14UC	4/30/2004	C	970.95	78.5	892.45
GMW-14UC	7/29/2004	C	970.95	90.13	880.82
GMW-14UC	11/1/2004	C	970.95	81.5	889.45
GMW-14UC	1/27/2005	C	970.95	76.2	894.75
GMW-14UC	5/5/2005	C	970.95	79.35	891.6
GMW-14UC	7/26/2005	C	970.95	86.25	884.7
GMW-14UC	10/26/2005	C	970.95	77.3	893.65
GMW-14UC	1/26/2006	C	970.95	76.9	894.05
GMW-14UC	5/2/2006	C	970.95	79.45	891.5
GMW-14UC	7/25/2006	C	970.95	86.4	884.55
GMW-14UC	10/30/2006	C	970.95	80.27	890.68
GMW-14UC	1/29/2007	C	970.95	78.1	892.85
GMW-14UC	5/1/2007	C	970.95	81.15	889.8
GMW-14UC	7/31/2007	C	970.95	90.3	880.65
GMW-14UC	10/9/2007	C	970.95	86.97	883.98
GMW-14UC	1/11/2008	C	970.95	78.42	892.53
GMW-14UC	4/16/2008	C	970.95	83.84	887.11
GMW-14UC	8/1/2008	C	970.95	89.84	881.11
GMW-14UC	11/17/2008	C	970.95	82.82	888.13

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-14UC	2/20/2009	C	970.95	80.4	890.55
GMW-14UC	5/20/2009	C	970.95	82.3	888.65
GMW-14UC	8/29/2009	C	972.63	91.84	880.79
GMW-14UC	9/21/2009	C	972.63	89.59	883.04
GMW-14UC	10/19/2009	C	972.63	87.76	884.87
GMW-14UC	11/21/2009	C	973.01	85.55	887.46
GMW-14UC	2/4/2010	C	972.63	80.16	892.47
GMW-14UC	5/5/2010	C	972.63	81.85	890.78
GMW-14UC	8/23/2010	C	972.63	88.33	884.3
GMW-14UC	11/29/2010	C	972.63	80.8	891.83
GMW-14UC	2/3/2011	C	972.63	77.51	895.12
GMW-14UC	5/3/2011	C	972.63	82.75	889.88
GMW-14UC	8/1/2011	C	972.63	89.22	883.41
GMW-14UC	11/1/2011	C	972.63	86.14	886.49
GMW-14UC	2/1/2012	C	972.287	83.91	888.377
GMW-14UC	3/2/2012	C	972.287	80.22	892.067
GMW-14UC	4/2/2012	C	972.287	83.51	888.777
GMW-14UC	5/1/2012	C	972.287	83.43	888.857
GMW-14UC	6/1/2012	C	972.287	84.96	887.327
GMW-14UC	7/2/2012	C	972.287	90.56	881.727
GMW-14UC	8/2/2012	C	972.287	91.76	880.527
GMW-14UC	9/4/2012	C	972.287	91.362	880.925
GMW-14UC	10/1/2012	C	972.287	88.67	883.617
GMW-14UC	11/2/2012	C	972.287	85.19	887.097
GMW-14UC	12/3/2012	C	972.287	83.32	888.967
GMW-14UC	2/4/2013	C	972.287	80.82	891.467
GMW-14UC	5/1/2013	C	972.287	85.31	886.977
GMW-14UC	8/5/2013	C	972.63	94.59	878.04
GMW-14UC	11/5/2013	C	972.63	86.88	885.75
GMW-15UC	5/4/2000	C	968.92	74.1	894.82
GMW-15UC	8/2/2000	C	968.92	84.05	884.87
GMW-15UC	10/25/2000	C	968.92	72.05	896.87
GMW-15UC	2/1/2001	C	968.92	68.2	900.72
GMW-15UC	5/24/2001	C	968.92	73.4	895.52
GMW-15UC	7/30/2001	C	968.92	82.2	886.72
GMW-15UC	10/29/2001	C	968.92	72.9	896.02
GMW-15UC	1/30/2002	C	968.92	70.4	898.52
GMW-15UC	5/13/2002	C	968.92	74.2	894.72
GMW-15UC	7/30/2002	C	968.92	89.32	879.6
GMW-15UC	10/30/2002	C	968.92	77.1	891.82
GMW-15UC	1/31/2003	C	968.92	73.6	895.32
GMW-15UC	4/30/2003	C	968.92	76.3	892.62
GMW-15UC	10/31/2003	C	968.92	77.8	891.12
GMW-15UC	1/29/2004	C	968.92	74.05	894.87
GMW-15UC	4/30/2004	C	968.92	77.7	891.22
GMW-15UC	7/29/2004	C	968.92	90	878.92
GMW-15UC	11/1/2004	C	968.92	80.55	888.37
GMW-15UC	1/27/2005	C	968.92	76.15	892.77
GMW-15UC	5/5/2005	C	968.92	78.8	890.12
GMW-15UC	7/26/2005	C	968.92	87.45	881.47
GMW-15UC	10/26/2005	C	968.92	78.15	890.77
GMW-15UC	1/26/2006	C	968.92	76.97	891.95
GMW-15UC	5/2/2006	C	968.92	79.2	889.72

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-15UC	7/25/2006	C	968.92	86.9	882.02
GMW-15UC	10/30/2006	C	968.92	81	887.92
GMW-15UC	1/29/2007	C	968.92	78.2	890.72
GMW-15UC	5/1/2007	C	968.92	81.2	887.72
GMW-15UC	7/31/2007	C	968.92	90.7	878.22
GMW-15UC	10/9/2007	C	968.92	87.42	881.5
GMW-15UC	1/10/2008	C	968.92	78.27	890.65
GMW-15UC	4/14/2008	C	968.92	82.9	886.02
GMW-15UC	11/17/2008	C	969	84.11	884.89
GMW-15UC	2/17/2009	C	968.92	79.38	889.54
GMW-15UC	5/20/2009	C	968.92	82.6	886.32
GMW-15UC	10/19/2009	C	970.81	88.64	882.17
GMW-15UC	11/20/2009	C	976.57	84.66	891.91
GMW-15UC	2/3/2010	C	970.81	79.12	891.69
GMW-15UC	5/4/2010	C	970.81	80.82	889.99
GMW-15UC	8/23/2010	C	970.81	88.7	882.11
GMW-15UC	11/29/2010	C	970.81	81.12	889.69
GMW-15UC	2/3/2011	C	970.81	78.78	892.03
GMW-15UC	5/2/2011	C	970.81	88.83	881.98
GMW-15UC	8/1/2011	C	970.81	89.93	880.88
GMW-15UC	11/1/2011	C	970.81	86.92	883.89
GMW-15UC	2/1/2012	C	965.648	83.88	881.768
GMW-15UC	3/2/2012	C	965.648	81.31	884.338
GMW-15UC	4/2/2012	C	965.648	83.77	881.878
GMW-15UC	5/1/2012	C	970.457	84.03	886.427
GMW-15UC	6/1/2012	C	965.648	85.44	880.208
GMW-15UC	7/2/2012	C	965.648	90.82	874.828
GMW-15UC	8/2/2012	C	970.457	91.78	878.677
GMW-15UC	9/4/2012	C	970.457	92.42	878.037
GMW-15UC	10/1/2012	C	970.457	89.35	881.107
GMW-15UC	11/2/2012	C	970.457	86.39	884.067
GMW-15UC	12/3/2012	C	970.457	74.42	896.037
GMW-15UC	2/4/2013	C	970.457	81.38	889.077
GMW-15UC	5/1/2013	C	970.457	85.49	884.967
GMW-15UC	8/5/2013	C	970.81	94.81	876
GMW-15UC	11/5/2013	C	970.81	88.1	882.71
GMW-16UC	5/4/2000	C	972.4	78.1	894.3
GMW-16UC	8/2/2000	C	972.4	88	884.4
GMW-16UC	10/25/2000	C	972.4	75.6	896.8
GMW-16UC	2/1/2001	C	972.4	71.9	900.5
GMW-16UC	5/24/2001	C	972.4	74.95	897.45
GMW-16UC	7/30/2001	C	972.4	86.3	886.1
GMW-16UC	10/29/2001	C	972.4	76.45	895.95
GMW-16UC	1/30/2002	C	972.4	74	898.4
GMW-16UC	5/13/2002	C	972.4	77.9	894.5
GMW-16UC	7/30/2002	C	972.4	93.3	879.1
GMW-16UC	10/30/2002	C	972.4	80.8	891.6
GMW-16UC	1/31/2003	C	972.4	77.52	894.88
GMW-16UC	4/30/2003	C	972.4	80.4	892
GMW-16UC	10/31/2003	C	972.4	81.2	891.2
GMW-16UC	1/29/2004	C	972.4	77.85	894.55
GMW-16UC	4/30/2004	C	972.4	81.55	890.85
GMW-16UC	7/29/2004	C	972.4	93.7	878.7

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-16UC	11/1/2004	C	972.4	84.15	888.25
GMW-16UC	1/27/2005	C	972.4	79.9	892.5
GMW-16UC	5/5/2005	C	972.4	83	889.4
GMW-16UC	7/26/2005	C	972.4	91.8	880.6
GMW-16UC	10/26/2005	C	972.4	82	890.4
GMW-16UC	1/26/2006	C	972.4	80.8	891.6
GMW-16UC	5/2/2006	C	972.4	83.2	889.2
GMW-16UC	7/25/2006	C	972.4	91	881.4
GMW-16UC	10/30/2006	C	972.4	85	887.4
GMW-16UC	1/29/2007	C	972.4	82.1	890.3
GMW-16UC	5/1/2007	C	972.4	85.4	887
GMW-16UC	7/31/2007	C	972.4	94.75	877.65
GMW-16UC	10/10/2007	C	972.4	91.73	880.67
GMW-16UC	1/11/2008	C	972.4	83.89	888.51
GMW-16UC	4/16/2008	C	972.4	88.08	884.32
GMW-16UC	8/1/2008	C	972.4	94.94	877.46
GMW-16UC	11/17/2008	C	972.4	88.21	884.19
GMW-16UC	2/20/2009	C	972.4	85.05	887.35
GMW-16UC	5/20/2009	C	972.4	86.8	885.6
GMW-16UC	11/21/2009	C	979.44	89.5	889.94
GMW-16UC	2/5/2010	C	974.29	84	890.29
GMW-16UC	5/5/2010	C	974.29	84.83	889.46
GMW-16UC	8/23/2010	C	974.29	92.8	881.49
GMW-16UC	11/29/2010	C	974.29	85.37	888.92
GMW-16UC	2/3/2011	C	974.29	83	891.29
GMW-16UC	5/2/2011	C	974.29	88.12	886.17
GMW-16UC	8/1/2011	C	974.29	94.14	880.15
GMW-16UC	11/1/2011	C	974.29	91	883.29
GMW-16UC	2/1/2012	C	970.021	87.8	882.221
GMW-16UC	3/2/2012	C	970.021	85.38	884.641
GMW-16UC	4/2/2012	C	970.021	87.96	882.061
GMW-16UC	5/1/2012	C	973.93	88.35	885.58
GMW-16UC	6/1/2012	C	970.021	89.91	880.111
GMW-16UC	7/2/2012	C	970.021	95.05	874.971
GMW-16UC	8/2/2012	C	973.93	95.92	878.01
GMW-16UC	9/4/2012	C	973.93	96.45	877.48
GMW-16UC	10/1/2012	C	973.93	93.51	880.42
GMW-16UC	11/2/2012	C	973.93	90.64	883.29
GMW-16UC	12/3/2012	C	973.93	88.58	885.35
GMW-16UC	2/4/2013	C	973.93	85.6	888.33
GMW-16UC	5/1/2013	C	973.93	89.63	884.3
GMW-16UC	8/5/2013	C	974.29	98.92	875.37
GMW-16UC	11/5/2013	C	974.29	92.3	881.99
GMW-17UC	5/4/2000	C	974.51	79.55	894.96
GMW-17UC	8/2/2000	C	974.51	88.9	885.61
GMW-17UC	10/25/2000	C	974.51	77.17	897.34
GMW-17UC	2/1/2001	C	974.51	73.52	900.99
GMW-17UC	5/24/2001	C	974.51	76.7	897.81
GMW-17UC	7/30/2001	C	974.51	87	887.51
GMW-17UC	10/29/2001	C	974.51	78.15	896.36
GMW-17UC	1/30/2002	C	974.51	75.87	898.64
GMW-17UC	5/13/2002	C	974.51	79.9	894.61
GMW-17UC	7/30/2002	C	974.51	94.05	880.46

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-17UC	10/30/2002	C	974.51	82.55	891.96
GMW-17UC	1/31/2003	C	974.51	79.4	895.11
GMW-17UC	4/30/2003	C	974.51	82	892.51
GMW-17UC	10/30/2003	C	974.51	83.2	891.31
GMW-17UC	1/29/2004	C	974.51	79.4	895.11
GMW-17UC	4/30/2004	C	974.51	83.6	890.91
GMW-17UC	7/29/2004	C	974.51	94.95	879.56
GMW-17UC	11/1/2004	C	974.51	85.7	888.81
GMW-17UC	1/27/2005	C	974.51	82.15	892.36
GMW-17UC	5/5/2005	C	974.51	84.45	890.06
GMW-17UC	7/26/2005	C	974.51	92.4	882.11
GMW-17UC	10/26/2005	C	974.51	83.3	891.21
GMW-17UC	1/26/2006	C	974.51	82	892.51
GMW-17UC	5/2/2006	C	974.51	84.55	889.96
GMW-17UC	7/25/2006	C	974.51	92.1	882.41
GMW-17UC	10/30/2006	C	974.51	85.9	888.61
GMW-17UC	1/29/2007	C	974.51	83.3	891.21
GMW-17UC	5/1/2007	C	974.51	86.6	887.91
GMW-17UC	7/31/2007	C	974.51	95.8	878.71
GMW-17UC	10/10/2007	C	974.51	82.01	892.5
GMW-17UC	1/11/2008	C	974.51	84	890.51
GMW-17UC	4/15/2008	C	974.51	89.05	885.46
GMW-17UC	8/1/2008	C	974.51	95.59	878.92
GMW-17UC	11/17/2008	C	974.51	82.84	891.67
GMW-17UC	2/18/2009	C	974.51	85.11	889.4
GMW-17UC	5/19/2009	C	974.51	88.3	886.21
GMW-17UC	8/29/2009	C	976.42	97.11	879.31
GMW-17UC	9/21/2009	C	976.42	95.29	881.13
GMW-17UC	10/19/2009	C	976.42	93.57	882.85
GMW-17UC	11/20/2009	C	976.42	89.49	886.93
GMW-17UC	2/5/2010	C	976.42	85.45	890.97
GMW-17UC	5/4/2010	C	976.42	86.15	890.27
GMW-17UC	8/23/2010	C	976.42	93.62	882.8
GMW-17UC	11/29/2010	C	976.42	88.3	888.12
GMW-17UC	2/3/2011	C	976.42	83.75	892.67
GMW-17UC	5/2/2011	C	976.42	89.05	887.37
GMW-17UC	8/1/2011	C	976.42	84.76	891.66
GMW-17UC	11/1/2011	C	976.42	91.78	884.64
GMW-17UC	2/1/2012	C	976.08	88.96	887.12
GMW-17UC	3/2/2012	C	976.08	86.1	889.98
GMW-17UC	4/2/2012	C	976.08	88.89	887.19
GMW-17UC	5/1/2012	C	976.08	90.3	885.78
GMW-17UC	6/1/2012	C	976.08	90.68	885.4
GMW-17UC	7/2/2012	C	976.08	96.1	879.98
GMW-17UC	8/2/2012	C	976.08	96.93	879.15
GMW-17UC	9/4/2012	C	976.08	97.34	878.74
GMW-17UC	10/1/2012	C	976.08	94.48	881.6
GMW-17UC	11/2/2012	C	976.08	91.27	884.81
GMW-17UC	12/3/2012	C	976.08	89.29	886.79
GMW-17UC	2/4/2013	C	976.08	86.58	889.5
GMW-17UC	5/1/2013	C	976.08	90.63	885.45
GMW-17UC	8/5/2013	C	976.42	100	876.42
GMW-17UC	11/5/2013	C	976.42	92.95	883.47

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-18UC	5/20/2009	C	979.44	88.62	890.82
GMW-18UC	8/29/2009	C	979.45	95.09	884.36
GMW-18UC	9/21/2009	C	979.45	96.2	883.25
GMW-18UC	10/19/2009	C	979.45	94.57	884.88
GMW-18UC	11/20/2009	C	979.45	89.6	889.85
GMW-18UC	2/4/2010	C	979.46	87.94	891.52
GMW-18UC	5/4/2010	C	979.46	88.45	891.01
GMW-18UC	8/23/2010	C	979.46	94.56	884.9
GMW-18UC	11/29/2010	C	979.46	88.37	891.09
GMW-18UC	2/3/2011	C	979.46	86.1	893.36
GMW-18UC	5/2/2011	C	979.46	90.87	888.59
GMW-18UC	8/1/2011	C	979.46	94.9	884.56
GMW-18UC	11/1/2011	C	979.46	92.94	886.52
GMW-18UC	2/1/2012	C	979.125	90.74	888.385
GMW-18UC	3/2/2012	C	979.125	88.12	891.005
GMW-18UC	4/2/2012	C	979.125	90.51	888.615
GMW-18UC	5/1/2012	C	979.125	91.03	888.095
GMW-18UC	6/1/2012	C	979.125	92.02	887.105
GMW-18UC	7/2/2012	C	979.125	96.91	882.215
GMW-18UC	8/2/2012	C	979.125	97.58	881.545
GMW-18UC	9/4/2012	C	979.125	97.93	881.195
GMW-18UC	10/1/2012	C	979.125	95.46	883.665
GMW-18UC	11/2/2012	C	979.125	92.73	886.395
GMW-18UC	12/3/2012	C	979.125	91.02	888.105
GMW-18UC	2/4/2013	C	979.125	88.78	890.345
GMW-18UC	5/1/2013	C	979.125	92.4	886.725
GMW-18UC	8/5/2013	C	979.46	100.43	879.03
GMW-18UC	11/5/2013	C	979.46	92.65	886.81
GMW-19LC	5/20/2009	C	975.63	88.7	886.93
GMW-19LC	11/20/2009	C	975.68	90.71	884.97
GMW-19LC	2/6/2010	C	975.68	85.42	890.26
GMW-19LC	5/5/2010	C	975.68	86.8	888.88
GMW-19LC	8/23/2010	C	975.68	94.81	880.87
GMW-19LC	11/29/2010	C	975.68	87.4	888.28
GMW-19LC	2/3/2011	C	975.68	85	890.68
GMW-19LC	5/2/2011	C	975.68	90.16	885.52
GMW-19LC	8/1/2011	C	975.68	96.11	879.57
GMW-19LC	11/1/2011	C	975.68	93.12	882.56
GMW-19LC	2/1/2012	C	975.349	89.64	885.709
GMW-19LC	3/2/2012	C	975.349	87.43	887.919
GMW-19LC	4/2/2012	C	975.349	89.7	885.649
GMW-19LC	5/1/2012	C	975.349	90.41	884.939
GMW-19LC	6/1/2012	C	975.349	91.81	883.539
GMW-19LC	7/2/2012	C	975.349	97.1	878.249
GMW-19LC	8/2/2012	C	975.349	97.92	877.429
GMW-19LC	9/4/2012	C	975.349	98.62	876.729
GMW-19LC	10/1/2012	C	975.349	95.58	879.769
GMW-19LC	11/2/2012	C	975.349	92.73	882.619
GMW-19LC	12/3/2012	C	975.349	90.65	884.699
GMW-19LC	2/4/2013	C	975.349	87.54	887.809
GMW-19LC	5/1/2013	C	975.349	91.61	883.739
GMW-19LC	8/5/2013	C	975.68	100.92	874.76
GMW-19LC	11/5/2013	C	975.68	94.31	881.37

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-20LC	2/17/2009	C	979.82	90.66	889.16
GMW-20LC	5/19/2009	C	979.82	94.2	885.62
GMW-20LC	8/26/2009	C	979.85	100.95	878.9
GMW-20LC	11/18/2009	C	979.82	96.4	883.42
GMW-20LC	2/2/2010	C	979.85	89.74	890.11
GMW-20LC	5/3/2010	C	979.85	91.32	888.53
GMW-20LC	8/23/2010	C	979.85	100.08	879.77
GMW-20LC	11/29/2010	C	979.85	92.5	887.35
GMW-20LC	2/3/2011	C	979.85	93.5	886.35
GMW-20LC	5/2/2011	C	979.85	95.42	884.43
GMW-20LC	8/1/2011	C	979.85	101.88	877.97
GMW-20LC	11/1/2011	C	979.85	98.73	881.12
GMW-20LC	2/1/2012	C	979.491	94.58	884.911
GMW-20LC	3/2/2012	C	979.491	92.83	886.661
GMW-20LC	4/2/2012	C	979.491	95.03	884.461
GMW-20LC	5/1/2012	C	979.491	95.09	884.401
GMW-20LC	6/1/2012	C	979.491	97.12	882.371
GMW-20LC	7/2/2012	C	979.491	102.31	877.181
GMW-20LC	8/2/2012	C	979.491	103.22	876.271
GMW-20LC	9/4/2012	C	979.491	104.18	875.311
GMW-20LC	10/1/2012	C	979.491	100.82	878.671
GMW-20LC	11/2/2012	C	979.491	98.31	881.181
GMW-20LC	12/3/2012	C	979.491	96.26	883.231
GMW-20LC	2/4/2013	C	979.491	92.62	886.871
GMW-20LC	5/1/2013	C	979.491	96.72	882.771
GMW-20LC	8/5/2013	C	979.85	106.33	873.52
GMW-20LC	11/5/2013	C	979.85	100	879.85
GMW-21UC	8/24/2010	C	961.18	74.22	886.96
GMW-21UC	11/29/2010	C	961.18	67	894.18
GMW-21UC	2/3/2011	C	961.18	64.07	897.11
GMW-21UC	5/3/2011	C	961.18	70.6	890.58
GMW-21UC	8/1/2011	C	961.18	75.93	885.25
GMW-21UC	11/1/2011	C	961.18	72.73	888.45
GMW-21UC	2/1/2012	C	960.62	71.13	889.49
GMW-21UC	5/1/2012	C	960.62	70.42	890.2
GMW-21UC	8/3/2012	C	960.62	77.18	883.44
GMW-21UC	11/1/2012	C	960.62	71.89	888.73
GMW-21UC	2/4/2013	C	960.62	67.07	893.55
GMW-21UC	5/1/2013	C	960.62	72.7	887.92
GMW-21UC	8/6/2013	C	961.18	81.35	879.83
GMW-21UC	11/4/2013	C	961.18	74.6	886.58
GMW-22UC	8/24/2010	C	963.18	74.41	888.77
GMW-22UC	11/30/2010	C	963.18	66.25	896.93
GMW-22UC	2/3/2011	C	963.18	64.3	898.88
GMW-22UC	5/3/2011	C	963.18	70.23	892.95
GMW-22UC	8/2/2011	C	963.18	75.9	887.28
GMW-22UC	11/17/2011	C	963.18	70.64	892.54
GMW-22UC	2/1/2012	C	963.18	73.56	889.62
GMW-22UC	5/1/2012	C	963.18	70.81	892.37
GMW-22UC	8/2/2012	C	963.18	77.69	885.49
GMW-22UC	11/5/2012	C	963.18	71.69	891.49
GMW-22UC	2/4/2013	C	963.18	68.13	895.05
GMW-22UC	5/1/2013	C	963.18	72.34	890.84

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GMW-22UC	8/7/2013	C	963.18	80.34	882.84
GMW-22UC	11/4/2013	C	963.18	74.95	888.23
GMW-23UC	3/13/2012	C	962.962	69.6	893.362
GMW-23UC	8/7/2012	C	962.962	79.4	883.562
GMW-23UC	2/5/2013	C	962.962	69.4	893.562
GMW-23UC	5/1/2013	C	962.962	74.56	888.402
GMW-23UC	8/6/2013	C	962.962	83.25	879.712
GMW-23UC	11/4/2013	C	962.962	76.45	886.512
GMW-24A	2/5/2013	A	944.715	52.74	891.975
GMW-24A	5/1/2013	A	944.715	54.36	890.355
GMW-24A	8/6/2013	A	944.715	61.57	883.145
GMW-24A	11/4/2013	A	944.715	59.18	885.535
GMW-25LC	4/5/2013	C	981.32	97.36	883.96
GMW-25LC	5/2/2013	C	981.32	98.35	882.97
GMW-25LC	8/5/2013	C	981.32	108.08	873.24
GMW-25LC	11/5/2013	C	981.32	101.6	879.72
GMW-26LC	4/5/2013	C	977.402	92.89	884.512
GMW-26LC	5/2/2013	C	977.402	93.67	883.732
GMW-26LC	8/5/2013	C	977.402	103	874.402
GMW-26LC	11/5/2013	C	977.402	96.5	880.902
GP-01	11/23/1992	A	960.7	50.2	910.5
GP-01	1/12/1993	A	960.7	49.8	910.9
GP-01	2/5/1993	A	960.7	49.17	911.53
GP-01	3/25/1993	A	960.7	47.2	913.5
GP-01	4/15/1993	A	960.7	46	914.7
GP-01	5/18/1993	A	960.7	44.7	916
GP-01	6/10/1993	A	960.7	44.6	916.1
GP-01	6/30/1993	A	960.7	44.6	916.1
GP-01	7/14/1993	A	960.7	44.9	915.8
GP-01	8/11/1993	A	960.7	45.6	915.1
GP-01	9/24/1993	A	960.7	46.2	914.5
GP-01	10/28/1993	A	960.7	46.5	914.2
GP-01	11/23/1993	A	960.7	46.7	914
GP-01	12/14/1993	A	960.7	46.4	914.3
GP-01	12/24/1993	A	960.7	46.6	914.1
GP-01	1/26/1994	A	960.7	46.7	914
GP-01	2/25/1994	A	960.7	46.9	913.8
GP-01	3/23/1994	A	960.7	47.1	913.6
GP-01	4/27/1994	A	960.7	48	912.7
GP-01	5/26/1994	A	960.7	48.3	912.4
GP-01	6/1/1994	A	960.7	48.5	912.2
GP-01	7/22/1994	A	960.7	51	909.7
GP-01	8/24/1994	A	960.7	52.2	908.5
GP-01	9/22/1994	A	960.7	52.2	908.5
GP-01	10/12/1994	A	960.7	52.1	908.6
GP-01	11/18/1994	A	960.7	52.3	908.4
GP-01	12/29/1994	A	960.7	52.5	908.2
GP-01	1/30/1995	A	960.7	52.2	908.5
GP-01	2/23/1995	A	960.7	51.7	909
GP-01	3/30/1995	A	960.07	50.5	909.57
GP-01	4/21/1995	A	960.7	50	910.7
GP-01	5/26/1995	A	960.7	49.4	911.3
GP-01	6/23/1995	A	960.7	49.53	911.17

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GP-01	7/27/1995	A	960.7	50.4	910.3
GP-01	8/30/1995	A	960.7	51.5	909.2
GP-01	9/29/1995	A	960.7	51.64	909.06
GP-01	10/27/1995	A	960.7	51.51	909.19
GP-01	11/28/1995	A	960.7	51.32	909.38
GP-01	12/30/1995	A	960.7	51.16	909.54
GP-01	1/31/1996	A	960.7	51.17	909.53
GP-01	2/20/1996	A	960.7	51.18	909.52
GP-01	3/30/1996	A	960.7	51.45	909.25
GP-01	4/29/1996	A	960.7	52	908.7
GP-01	5/31/1996	A	960.7	52.4	908.3
GP-01	6/28/1996	A	960.7	52.92	907.78
GP-01	7/31/1996	A	960.7	53.8	906.9
GP-01	8/30/1996	A	960.7	54.82	905.88
GP-01	9/28/1996	A	960.7	54.95	905.75
GP-01	10/29/1996	A	960.7	54.8	905.9
GP-01	1/16/1997	A	960.7	53.78	906.92
GP-01	4/28/1997	A	960.7	54.38	906.32
GP-01	7/29/1997	A	960.7	57.21	903.49
GP-01	1/29/1998	A	960.7	57.1	903.6
GP-01	5/8/1998	A	960.7	55.17	905.53
GP-01	7/30/1998	A	960.7	54.35	906.35
GP-01	10/29/1998	A	960.7	54.35	906.35
GP-01	1/28/1999	A	960.7	54.05	906.65
GP-01	4/28/1999	A	960.7	54.97	905.73
GP-01	8/4/1999	A	960.7	57	903.7
GP-01	10/13/1999	A	960.7	57.37	903.33
GP-01	2/9/2000	A	960.7	56.6	904.1
GP-01	5/2/2000	A	960.7	56.75	903.95
GP-01	8/2/2000	A	960.7	58.23	902.47
GP-01	10/25/2000	A	960.7	59.27	901.43
GP-01	1/30/2001	A	960.7	56.85	903.85
GP-01	5/24/2001	A	960.7	55.7	905
GP-01	7/31/2001	A	960.7	56.6	904.1
GP-01	10/29/2001	A	960.7	57.9	902.8
GP-01	1/30/2002	A	960.7	57.2	903.5
GP-01	5/13/2002	A	960.7	58.37	902.33
GP-01	7/31/2002	A	960.7	60.25	900.45
GP-01	10/30/2002	A	960.7	61.65	899.05
GP-01	1/30/2003	A	960.7	60.8	899.9
GP-01	4/30/2003	A	960.7	60.1	900.6
GP-01	8/7/2003	A	960.7	61.7	899
GP-01	10/28/2003	A	960.7	62.05	898.65
GP-01	1/28/2004	A	960.7	61.85	898.85
GP-01	4/28/2004	A	960.7	61.6	899.1
GP-01	7/30/2004	A	960.7	62.3	898.4
GP-01	11/1/2004	A	960.7	63.7	897
GP-01	1/27/2005	A	960.7	63.1	897.6
GP-01	5/5/2005	A	960.7	61	899.7
GP-01	7/28/2005	A	960.7	60.6	900.1
GP-01	10/26/2005	A	960.7	60.25	900.45
GP-01	1/26/2006	A	960.7	59.85	900.85
GP-01	5/2/2006	A	960.7	60.1	900.6

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GP-01	7/25/2006	A	960.7	60.72	899.98
GP-01	10/31/2006	A	960.7	61.72	898.98
GP-01	1/29/2007	A	960.7	61.65	899.05
GP-01	5/1/2007	A	960.7	62.5	898.2
GP-01	7/31/2007	A	960.7	65	895.7
GP-01	10/11/2007	A	960.7	65.66	895.04
GP-01	1/9/2008	A	960.7	65.11	895.59
GP-01	4/15/2008	A	960.7	63.94	896.76
GP-01	8/1/2008	A	960.7	64.6	896.1
GP-01	11/18/2008	A	960.7	65.24	895.46
GP-01	2/17/2009	A	960.7	64.52	896.18
GP-01	5/19/2009	A	960.7	65.05	895.65
GP-01	8/25/2009	A	962.76	66.28	896.48
GP-01	11/18/2009	A	962.76	67	895.76
GP-01	2/3/2010	A	962.76	66.48	896.28
GP-01	5/7/2010	A	962.76	65	897.76
GP-01	8/23/2010	A	962.76	64.65	898.11
GP-01	11/29/2010	A	962.76	64.45	898.31
GP-01	2/3/2011	A	962.76	63.89	898.87
GP-01	5/3/2011	A	962.76	63.95	898.81
GP-01	8/1/2011	A	962.76	64.75	898.01
GP-01	11/2/2011	A	962.76	67.3	895.46
GP-01	12/2/2011	A	962.1	66.76	895.34
GP-01	2/1/2012	A	962.1	66.35	895.75
GP-01	3/2/2012	A	962.1	66.51	895.59
GP-01	4/2/2012	A	962.1	66.25	895.85
GP-01	5/1/2012	A	962.1	66.43	895.67
GP-01	6/1/2012	A	962.1	66.58	961.8048611
GP-01	7/2/2012	A	962.1	67.1	895
GP-01	8/3/2012	A	962.1	67.68	894.42
GP-01	9/4/2012	A	962.1	68.03	894.07
GP-01	10/1/2012	A	962.1	68.41	893.69
GP-01	11/2/2012	A	962.1	68.41	893.69
GP-01	12/3/2012	A	962.1	68.26	893.84
GP-02	5/18/1993	A	962.95	49.3	913.65
GP-02	6/10/1993	A	962.95	49.2	913.75
GP-02	7/14/1993	A	962.95	49.2	913.75
GP-02	8/11/1993	A	962.95	49.6	913.35
GP-02	9/24/1993	A	962.95	50.2	912.75
GP-02	10/28/1993	A	962.95	50.3	912.65
GP-02	11/23/1993	A	962.95	50.5	912.45
GP-02	12/14/1993	A	962.95	50.2	912.75
GP-02	1/26/1994	A	962.95	50.6	912.35
GP-02	2/25/1994	A	962.95	50.8	912.15
GP-02	3/23/1994	A	962.95	50.7	912.25
GP-02	4/27/1994	A	962.95	51.6	911.35
GP-02	5/26/1994	A	962.95	51.6	911.35
GP-02	6/1/1994	A	962.95	51.8	911.15
GP-02	7/22/1994	A	962.95	54.5	908.45
GP-02	4/21/1995	A	962.95	53.8	909.15
GP-02	4/15/2008	A	962.95	66.56	896.39
GP-02	8/1/2008	A	962.95	66.88	896.07
GP-02	11/19/2008	A	962.95	67.89	895.06

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GP-02	2/17/2009	A	962.95	67.25	895.7
GP-02	5/19/2009	A	962.95	67.85	895.1
GP-02	8/26/2009	A	965.01	66.21	898.8
GP-02	11/17/2009	A	965.01	69.8	895.21
GP-02	2/3/2010	A	965.01	69.46	895.55
GP-02	5/7/2010	A	965.01	67.9	897.11
GP-02	8/23/2010	A	965.01	67.4	897.61
GP-02	11/29/2010	A	965.01	67.6	897.41
GP-02	2/3/2011	A	965.01	67.3	897.71
GP-02	5/3/2011	A	965.01	67.07	897.94
GP-02	11/1/2011	A	965.01	69.75	895.26
GP-02	12/2/2011	A	964.49	69.63	894.86
GP-02	2/1/2012	A	964.49	69.46	895.03
GP-02	3/2/2012	A	964.49	69.5	894.99
GP-02	4/2/2012	A	964.49	69.54	894.95
GP-02	5/1/2012	A	964.49	69.43	895.06
GP-02	6/1/2012	A	964.49	69.37	964.2018056
GP-02	7/2/2012	A	964.49	69.88	894.61
GP-02	8/1/2012	A	964.49	69.91	894.58
GP-02	9/4/2012	A	964.49	70.56	893.93
GP-02	10/1/2012	A	964.49	71	893.49
GP-02	11/2/2012	A	964.49	71.14	893.35
GP-02	12/3/2012	A	964.49	71.18	893.31
GP-03	1/12/1993	A	960.15	50.85	909.3
GP-04	3/17/1987	A	962.72	51.02	911.7
GP-04	4/17/1987	A	962.72	50.82	911.9
GP-04	5/20/1987	A	962.72	51.42	911.3
GP-05	4/17/1987	A	962.84	50.84	912
GP-05	5/20/1987	A	962.84	51.54	911.3
GP-05	10/6/1987	A	962.84	52.2	910.64
GP-06	3/17/1987	A	963.27	51.47	911.8
GP-06	4/17/1987	A	963.27	51.17	912.1
GP-06	5/20/1987	A	963.27	51.97	911.3
GP-06	10/6/1987	A	963.27	52.8	910.47
GP-07	3/17/1987	A	964.03	52.43	911.6
GP-07	4/17/1987	A	964.03	52.33	911.7
GP-07	5/20/1987	A	964.03	53.03	911
GP-07	10/5/1987	A	964.03	53.7	910.33
GP-07	7/15/1988	A	964.03	54.53	909.5
GP-07	1/29/1993	A	964.03	58.35	905.68
GP-07	5/18/1993	A	964.03	49.4	914.63
GP-07	6/10/1993	A	964.03	49.9	914.13
GP-07	7/14/1993	A	964.03	49.7	914.33
GP-07	8/11/1993	A	964.03	50.3	913.73
GP-07	9/24/1993	A	964.03	50.9	913.13
GP-07	10/28/1993	A	964.03	51.1	912.93
GP-07	11/23/1993	A	964.03	51.2	912.83
GP-07	12/14/1993	A	964.03	50.9	913.13
GP-07	1/26/1994	A	964.03	51.3	912.73
GP-07	2/25/1994	A	964.03	51.3	912.73
GP-07	3/23/1994	A	964.03	51.3	912.73
GP-07	4/27/1994	A	964.03	52.5	911.53
GP-07	5/26/1994	A	964.03	52	912.03

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
GP-07	6/1/1994	A	964.03	52.7	911.33
GP-07	7/22/1994	A	964.03	55.4	908.63
GP-07	4/21/1995	A	964.03	54.5	909.53
GP-08	3/17/1987	A	964.6	53.6	911
GP-08	10/5/1987	A	964.6	55.1	909.5
GP-08	1/29/1993	A	964.6	55.4	909.2
GP-09	3/17/1987	A	965.35	53.85	911.5
GP-09	10/2/1987	A	965.35	55.4	909.95
GP-09	1/29/1993	A	965.35	54.75	910.6
GP-09	8/30/2010	A	967.41	69.05	898.36
GP-09	11/29/2010	A	967.41	69	898.41
GP-09	2/3/2011	A	967.41	68.58	898.83
GP-09	5/3/2011	A	967.41	68.46	898.95
GP-09	8/2/2011	A	967.41	70.28	897.13
GP-09	11/1/2011	A	967.41		
I-01	11/17/1991	A	933.4	40.87	892.53
I-01	1/21/1992	A	933.4	15.32	918.08
I-01	5/15/1992	A	933.4	30.35	903.05
I-01	7/22/1992	A	933.4	34.4	899
I-01	7/31/1992	A	933.4	34.6	898.8
I-01	8/24/1992	A	933.4	34.55	898.85
I-01	10/2/1992	A	933.4	33.9	899.5
I-01	10/27/1992	A	933.4	34	899.4
I-01	11/23/1992	A	933.4	32.7	900.7
I-01	1/5/1993	A	933.4	31.5	901.9
I-01	2/4/1993	A	933.4	30.1	903.3
I-01	3/11/1993	A	933.4	28.8	904.6
I-01	4/15/1993	A	933.4	28.8	904.6
I-01	7/6/1993	A	933.4	31.1	902.3
I-01	7/13/1993	A	933.4	31.4	902
I-01	8/17/1993	A	933.4	17.8	915.6
I-01	11/9/1993	A	933.4	31.2	902.2
I-01	11/16/1993	A	933.4	31.1	902.3
I-01	11/30/1993	A	933.4	30.8	902.6
I-01	2/15/1994	A	933.4	30.3	903.1
I-01	3/1/1994	A	933.4	30.2	903.2
I-01	3/4/1994	A	933.4	30.4	903
I-01	3/30/1994	A	933.4	30.6	902.8
I-01	4/13/1994	A	933.4	30.8	902.6
I-01	5/25/1994	A	933.4	33.1	900.3
I-01	6/3/1994	A	933.4	32	901.4
I-01	7/21/1994	A	933.4	35.4	898
I-01	8/25/1994	A	933.4	37.4	896
I-01	10/12/1994	A	933.4	36.8	896.6
I-01	11/18/1994	A	933.4	34.5	898.9
I-01	12/30/1994	A	933.4	32.7	900.7
I-01	1/31/1995	A	933.4	31.5	901.9
I-01	2/24/1995	A	933.4	31.2	902.2
I-01	3/31/1995	A	933.4	31.2	902.2
I-02	5/14/1992	A	927.48	20.2	907.28
I-02	7/22/1992	A	927.48	28.1	899.38
I-02	7/31/1992	A	927.48	28.8	898.68
I-02	8/24/1992	A	927.48	28.7	898.78

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
I-02	10/2/1992	A	927.48	28.6	898.88
I-02	10/27/1992	A	927.48	28.1	899.38
I-02	11/23/1992	A	927.48	22.8	904.68
I-02	1/5/1993	A	927.48	22.6	904.88
I-02	1/26/1993	A	927.48	21.9	905.58
I-02	2/2/1993	A	927.48	21.5	905.98
I-02	2/4/1993	A	927.48	21.5	905.98
I-02	2/16/1993	A	927.48	21.3	906.18
I-02	2/23/1993	A	927.48	21	906.48
I-02	3/9/1993	A	927.48	20.1	907.38
I-02	3/11/1993	A	927.48	20.15	907.33
I-02	3/25/1993	A	927.48	20	907.48
I-02	3/30/1993	A	927.48	20	907.48
I-02	4/6/1993	A	927.48	20	907.48
I-02	4/13/1993	A	927.48	20	907.48
I-02	4/15/1993	A	927.48	20.1	907.38
I-02	4/20/1993	A	927.48	21.4	906.08
I-02	5/25/1993	A	927.48	20.9	906.58
I-02	6/1/1993	A	927.48	31.4	896.08
I-02	6/15/1993	A	927.48	29	898.48
I-02	6/29/1993	A	927.48	18.6	908.88
I-02	7/6/1993	A	927.48	19.4	908.08
I-02	7/13/1993	A	927.48	18.6	908.88
I-02	7/20/1993	A	927.48	17.7	909.78
I-02	7/27/1993	A	927.48	18.5	908.98
I-02	8/3/1993	A	927.48	18	909.48
I-02	8/10/1993	A	927.48	18	909.48
I-02	8/24/1993	A	927.48	18.5	908.98
I-02	9/21/1993	A	927.48	19.8	907.68
I-02	9/28/1993	A	927.48	18.6	908.88
I-02	10/5/1993	A	927.48	18.2	909.28
I-02	10/8/1993	A	927.48	18	909.48
I-02	10/19/1993	A	927.48	18.7	908.78
I-02	10/27/1993	A	927.48	18.3	909.18
I-02	11/2/1993	A	927.48	18.7	908.78
I-02	11/9/1993	A	927.48	18.3	909.18
I-02	11/16/1993	A	927.48	19.2	908.28
I-02	11/30/1993	A	927.48	18.7	908.78
I-02	3/1/1994	A	927.48	17.1	910.38
I-02	3/4/1994	A	927.48	16.6	910.88
I-02	3/30/1994	A	927.48	16.6	910.88
I-02	4/13/1994	A	927.48	16.1	911.38
I-02	5/25/1994	A	927.48	16.7	910.78
I-02	6/3/1994	A	927.48	16.6	910.88
I-02	7/21/1994	A	927.48	20.9	906.58
I-02	8/25/1994	A	927.48	23.7	903.78
I-02	9/23/1994	A	927.48	24.4	903.08
I-02	10/12/1994	A	927.48	24.3	903.18
I-02	11/18/1994	A	927.48	20.7	906.78
I-02	12/30/1994	A	927.48	22.3	905.18
I-02	1/31/1995	A	927.48	20.9	906.58
I-02	2/24/1995	A	927.48	20.7	906.78
I-02	3/31/1995	A	927.48	21.5	905.98

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
I-03	11/17/1991	A	936.04	44.72	891.32
I-03	1/21/1992	A	936.04	16.87	919.17
I-03	5/14/1992	A	936.04	34.5	901.54
I-03	7/22/1992	A	936.04	37.5	898.54
I-03	7/31/1992	A	936.04	37.8	898.24
I-03	8/24/1992	A	936.04	37.9	898.14
I-03	10/2/1992	A	936.04	37.1	898.94
I-03	10/27/1992	A	936.04	36.7	899.34
I-03	11/23/1992	A	936.04	35.1	900.94
I-03	1/5/1993	A	936.04	34	902.04
I-03	2/4/1993	A	936.04	32.5	903.54
I-03	3/11/1993	A	936.04	31.25	904.79
I-03	4/15/1993	A	936.04	31.9	904.14
I-03	7/6/1993	A	936.04	33.9	902.14
I-03	7/13/1993	A	936.04	34.1	901.94
I-03	10/8/1993	A	936.04	35	901.04
I-03	10/27/1993	A	936.04	34	902.04
I-03	11/2/1993	A	936.04	33.8	902.24
I-03	11/9/1993	A	936.04	33.7	902.34
I-03	11/16/1993	A	936.04	33.7	902.34
I-03	11/30/1993	A	936.04	33.4	902.64
I-03	2/15/1994	A	936.04	33.1	902.94
I-03	3/1/1994	A	936.04	33	903.04
I-03	3/4/1994	A	936.04	33.2	902.84
I-03	3/30/1994	A	936.04	33.3	902.74
I-03	4/13/1994	A	936.04	33.5	902.54
I-03	5/25/1994	A	936.04	34.9	901.14
I-03	6/3/1994	A	936.04	34.5	901.54
I-03	7/21/1994	A	936.04	38	898.04
I-03	8/25/1994	A	936.04	39.9	896.14
I-03	9/23/1994	A	936.04	40	896.04
I-03	10/12/1994	A	936.04	39.2	896.84
I-03	11/18/1994	A	936.04	37.1	898.94
I-03	12/30/1994	A	936.04	30.2	905.84
I-03	1/31/1995	A	936.04	16.9	919.14
I-03	2/24/1995	A	936.04	18.4	917.64
I-03	3/31/1995	A	936.04	20	916.04
I-04	10/31/1991	A	935.53	44.68	890.85
I-04	11/17/1991	A	935.53	43.98	891.55
I-04	1/21/1992	A	935.53	19.98	915.55
I-04	5/14/1992	A	935.53	36	899.53
I-04	7/22/1992	A	935.53	38.7	896.83
I-04	7/31/1992	A	935.53	38.8	896.73
I-04	8/24/1992	A	935.53	38.8	896.73
I-04	10/2/1992	A	935.53	37.8	897.73
I-04	10/27/1992	A	935.53	37.2	898.33
I-04	11/23/1992	A	935.53	36.2	899.33
I-04	1/29/1993	A	935.53	33.5	902.03
I-04	2/4/1993	A	935.53	33.2	902.33
I-04	3/11/1993	A	935.53	32	903.53
I-04	4/15/1993	A	935.53	32.5	903.03
I-04	7/6/1993	A	935.53	34.8	900.73
I-04	7/13/1993	A	935.53	35.1	900.43

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
I-04	10/8/1993	A	935.53	35	900.53
I-04	10/27/1993	A	935.53	34.8	900.73
I-04	11/2/1993	A	935.53	34.5	901.03
I-04	11/9/1993	A	935.53	34.4	901.13
I-04	11/16/1993	A	935.53	34.3	901.23
I-04	11/30/1993	A	935.53	34	901.53
I-04	2/15/1994	A	935.53	33.5	902.03
I-04	3/1/1994	A	935.53	33.5	902.03
I-04	3/4/1994	A	935.53	33.8	901.73
I-04	3/30/1994	A	935.53	33.9	901.63
I-04	4/13/1994	A	935.53	34	901.53
I-04	5/25/1994	A	961.05	35.4	925.65
I-04	6/3/1994	A	961.05	35.2	925.85
I-04	7/21/1994	A	961.05	38.9	922.15
I-04	8/25/1994	A	961.05	40.1	920.95
I-04	9/23/1994	A	961.05	40	921.05
I-04	10/12/1994	A	961.05	39.3	921.75
I-04	11/18/1994	A	961.05	37.2	923.85
I-04	12/30/1994	A	961.05	35.4	925.65
I-04	1/31/1995	A	961.05	34.5	926.55
I-04	2/24/1995	A	961.05	34.2	926.85
I-04	3/31/1995	A	935.53	34.5	901.03
I-05	5/14/1992	A	931.01	28.45	902.56
I-05	7/22/1992	A	931.01	28.8	902.21
I-05	7/31/1992	A	931.01	28.8	902.21
I-05	8/24/1992	A	931.01	28.7	902.31
I-05	10/2/1992	A	931.01	28.5	902.51
I-05	10/27/1992	A	931.01	28.2	902.81
I-05	11/23/1992	A	931.01	28	903.01
I-05	12/15/1992	A	931.01	23	908.01
I-05	1/26/1993	A	931.01	24.25	906.76
I-05	2/2/1993	A	931.01	20.5	910.51
I-05	2/4/1993	A	931.01	27	904.01
I-05	2/16/1993	A	931.01	18.6	912.41
I-05	2/23/1993	A	931.01	18.4	912.61
I-05	3/9/1993	A	931.01	14.9	916.11
I-05	3/11/1993	A	931.01	26.35	904.66
I-05	3/15/1993	A	931.01	15.6	915.41
I-05	3/25/1993	A	931.01	15.2	915.81
I-05	3/30/1993	A	931.01	15	916.01
I-05	4/6/1993	A	931.01	14.7	916.31
I-05	4/13/1993	A	931.01	14.4	916.61
I-05	4/15/1993	A	931.01	25.6	905.41
I-05	4/20/1993	A	931.01	15	916.01
I-05	5/18/1993	A	931.01	17.1	913.91
I-05	5/25/1993	A	931.01	15.3	915.71
I-05	6/1/1993	A	931.01	14.9	916.11
I-05	6/15/1993	A	931.01	17	914.01
I-05	6/29/1993	A	931.01	20.8	910.21
I-05	7/6/1993	A	931.01	25.1	905.91
I-05	7/13/1993	A	931.01	25.1	905.91
I-05	7/20/1993	A	931.01	17.1	913.91
I-05	7/27/1993	A	931.01	15.2	915.81

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
I-05	8/3/1993	A	931.01	19.2	911.81
I-05	8/10/1993	A	931.01	16.1	914.91
I-05	8/17/1993	A	931.01	14.3	916.71
I-05	8/24/1993	A	931.01	18.5	912.51
I-05	8/31/1993	A	931.01	13.2	917.81
I-05	9/21/1993	A	931.01	13.5	917.51
I-05	9/28/1993	A	931.01	13.1	917.91
I-05	10/5/1993	A	931.01	13.3	917.71
I-05	10/8/1993	A	931.01	25	906.01
I-05	10/19/1993	A	931.01	15.7	915.31
I-05	10/26/1993	A	931.01	14.6	916.41
I-05	10/27/1993	A	931.01	23.9	907.11
I-05	11/2/1993	A	931.01	23.8	907.21
I-05	11/9/1993	A	931.01	23.7	907.31
I-05	11/16/1993	A	931.01	23.7	907.31
I-05	11/30/1993	A	931.01	23.6	907.41
I-05	3/1/1994	A	931.01	23.1	907.91
I-05	3/4/1994	A	931.01	23	908.01
I-05	3/30/1994	A	931.01	23	908.01
I-05	4/13/1994	A	931.01	22.9	908.11
I-05	5/25/1994	A	931.01	22.8	908.21
I-05	6/3/1994	A	931.01	22.8	908.21
I-05	7/21/1994	A	931.01	23.8	907.21
I-05	8/25/1994	A	931.01	24.4	906.61
I-05	9/23/1994	A	931.01	24.6	906.41
I-05	10/12/1994	A	931.01	24.9	906.11
I-05	11/18/1994	A	931.01	25.4	905.61
I-05	12/30/1994	A	931.01	25.7	905.31
I-05	1/31/1995	A	931.01	25.7	905.31
I-05	2/24/1995	A	931.01	25.5	905.51
I-05	3/31/1995	A	931.01	25.6	905.41
I-06	10/31/1991	A	936.28	47.55	888.73
I-06	11/17/1991	A	936.28	46.6	889.68
I-06	1/21/1992	A	936.28	22.05	914.23
I-06	5/14/1992	A	936.28	40.1	896.18
I-06	7/22/1992	A	936.28	43.4	892.88
I-06	7/31/1992	A	936.28	43.2	893.08
I-06	8/24/1992	A	936.28	43.05	893.23
I-06	10/12/1992	A	936.28	40.8	895.48
I-06	10/27/1992	A	936.28	40.7	895.58
I-06	11/23/1992	A	936.28	39.5	896.78
I-06	1/29/1993	A	936.28	36.5	899.78
I-06	2/4/1993	A	936.28	36.3	899.98
I-06	3/11/1993	A	936.28	34.85	901.43
I-06	4/15/1993	A	936.28	36.2	900.08
I-06	7/6/1993	A	936.28	38.9	897.38
I-06	7/13/1993	A	936.28	39.3	896.98
I-06	10/8/1993	A	936.28	38.6	897.68
I-06	10/27/1993	A	936.28	38.3	897.98
I-06	11/2/1993	A	936.28	38	898.28
I-06	11/9/1993	A	936.28	37.9	898.38
I-06	11/16/1993	A	936.28	37.8	898.48
I-06	11/30/1993	A	936.28	37.5	898.78

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
I-06	2/15/1994	A	936.28	37.1	899.18
I-06	3/1/1994	A	936.28	37.1	899.18
I-06	3/4/1994	A	936.28	37.6	898.68
I-06	3/30/1994	A	936.28	37.5	898.78
I-06	4/13/1994	A	936.28	38	898.28
I-06	5/25/1994	A	936.28	39.2	897.08
I-06	6/3/1994	A	936.28	38.9	897.38
I-06	7/21/1994	A	936.28	42.4	893.88
I-06	8/25/1994	A	936.28	44.5	891.78
I-06	9/23/1994	A	936.28	43.4	892.88
I-06	10/12/1994	A	936.28	42.3	893.98
I-06	11/18/1994	A	936.28	40.1	896.18
I-06	12/30/1994	A	936.28	38.8	897.48
I-06	1/31/1995	A	936.28	37.9	898.38
I-06	2/24/1995	A	936.28	38	898.28
I-06	3/31/1995	A	936.28	38.2	898.08
I-07	5/14/1992	A	933	32.9	900.1
I-07	7/22/1992	A	933	33.2	899.8
I-07	7/31/1992	A	933	32.8	900.2
I-07	10/12/1992	A	933	32.8	900.2
I-07	10/27/1992	A	933	32.8	900.2
I-07	11/23/1992	A	933	32.3	900.7
I-07	12/15/1992	A	933	32.4	900.6
I-07	1/26/1993	A	933	32	901
I-07	2/2/1993	A	933	32.2	900.8
I-07	2/4/1993	A	933	31.2	901.8
I-07	2/16/1993	A	933	31.6	901.4
I-07	2/23/1993	A	933	31.8	901.2
I-07	3/9/1993	A	933	30.4	902.6
I-07	3/11/1993	A	933	29.4	903.6
I-07	3/15/1993	A	933	31	902
I-07	3/25/1993	A	933	31.5	901.5
I-07	3/30/1993	A	933	31	902
I-07	4/6/1993	A	933	31.1	901.9
I-07	4/13/1993	A	933	31.1	901.9
I-07	4/15/1993	A	933	30.4	902.6
I-07	4/20/1993	A	933	31.6	901.4
I-07	5/18/1993	A	933	31.5	901.5
I-07	5/25/1993	A	933	31.1	901.9
I-07	6/1/1993	A	933	31.1	901.9
I-07	6/15/1993	A	933	31.8	901.2
I-07	6/29/1993	A	933	31.2	901.8
I-07	7/6/1993	A	933	29.6	903.4
I-07	7/13/1993	A	933	28.9	904.1
I-07	7/20/1993	A	933	29.7	903.3
I-07	7/27/1993	A	933	29.2	903.8
I-07	8/3/1993	A	933	28.3	904.7
I-07	8/10/1993	A	933	28.9	904.1
I-07	8/17/1993	A	933	22.6	910.4
I-07	8/24/1993	A	933	27.6	905.4
I-07	9/21/1993	A	933	26.6	906.4
I-07	9/28/1993	A	933	26	907
I-07	10/5/1993	A	933	27	906

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
I-07	10/8/1993	A	933	25	908
I-07	10/19/1993	A	933	25.9	907.1
I-07	10/27/1993	A	933	25.6	907.4
I-07	11/2/1993	A	933	25.2	907.8
I-07	11/9/1993	A	933	24.8	908.2
I-07	11/16/1993	A	933	26.1	906.9
I-07	11/30/1993	A	933	25	908
I-07	3/1/1994	A	933	22.4	910.6
I-07	3/4/1994	A	933	22.3	910.7
I-07	3/30/1994	A	933	22	911
I-07	4/13/1994	A	933	21.4	911.6
I-07	5/25/1994	A	933	22.2	910.8
I-07	6/3/1994	A	933	21.1	911.9
I-07	7/21/1994	A	933	23.5	909.5
I-07	8/25/1994	A	933	23.2	909.8
I-07	9/23/1994	A	933	23.9	909.1
I-07	10/12/1994	A	933	23.6	909.4
I-07	11/18/1994	A	933	21.2	911.8
I-07	12/30/1994	A	933	21.3	911.7
I-07	1/31/1995	A	933	21.4	911.6
I-07	2/24/1995	A	933	23	910
I-07	3/31/1995	A	933	21.6	911.4
I-08	10/31/1991	A	942.09	51.93	890.16
I-08	11/17/1991	A	942.09	51.18	890.91
I-08	5/14/1992	A	942.09	45.2	896.89
I-08	7/22/1992	A	942.09	49.4	892.69
I-08	7/31/1992	A	942.09	49.3	892.79
I-08	8/24/1992	A	942.09	48.8	893.29
I-08	10/12/1992	A	942.09	45.8	896.29
I-08	10/27/1992	A	942.09	45.6	896.49
I-08	11/23/1992	A	942.09	44.5	897.59
I-08	1/29/1993	A	942.09	41.4	900.69
I-08	2/4/1993	A	942.09	41.4	900.69
I-08	3/11/1993	A	942.09	39.9	902.19
I-08	4/15/1993	A	942.09	40.3	901.79
I-08	7/6/1993	A	942.09	42.8	899.29
I-08	7/13/1993	A	942.09	43.2	898.89
I-08	10/8/1993	A	942.09	42.4	899.69
I-08	10/27/1993	A	942.09	41.6	900.49
I-08	11/2/1993	A	942.09	41.2	900.89
I-08	11/9/1993	A	942.09	41	901.09
I-08	11/16/1993	A	942.09	40.6	901.49
I-08	11/30/1993	A	942.09	40.4	901.69
I-08	2/15/1994	A	942.09	39.5	902.59
I-08	3/1/1994	A	942.09	39.6	902.49
I-08	3/4/1994	A	942.09	40.3	901.79
I-08	3/31/1994	A	942.09	40.6	901.49
I-08	4/13/1994	A	942.09	46	896.09
I-08	5/25/1994	A	942.09	41.6	900.49
I-08	6/3/1994	A	942.09	41.4	900.69
I-08	7/21/1994	A	942.09	44.2	897.89
I-08	8/25/1994	A	942.09	46.1	895.99
I-08	9/23/1994	A	942.09	45.6	896.49

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
I-08	10/12/1994	A	942.09	44.7	897.39
I-08	11/18/1994	A	942.09	43.2	898.89
I-08	12/30/1994	A	942.09	41.7	900.39
I-08	1/31/1995	A	942.09	38.6	903.49
I-08	2/24/1995	A	942.09	40.9	901.19
I-08	3/31/1995	A	942.09	41.1	900.99
I-09	10/31/1991	A	937.57	44.61	892.96
I-09	11/17/1991	A	937.57	44.46	893.11
I-09	1/21/1992	A	937.57	16.91	920.66
I-09	5/14/1992	A	937.57	38.7	898.87
I-09	7/23/1992	A	937.57	41	896.57
I-09	7/31/1992	A	937.57	40.9	896.67
I-09	8/24/1992	A	937.57	41.2	896.37
I-09	10/12/1992	A	937.57	39.7	897.87
I-09	10/27/1992	A	937.57	39.3	898.27
I-09	11/23/1992	A	937.57	38.5	899.07
I-09	1/29/1993	A	937.57	35.8	901.77
I-09	2/4/1993	A	937.57	35.6	901.97
I-09	3/11/1993	A	937.57	34.45	903.12
I-09	4/15/1993	A	937.57	34.2	903.37
I-09	7/6/1993	A	937.57	36.1	901.47
I-09	7/13/1993	A	937.57	36.3	901.27
I-09	10/8/1993	A	937.57	36.5	901.07
I-09	10/27/1993	A	937.57	36	901.57
I-09	11/2/1993	A	937.57	35.8	901.77
I-09	11/9/1993	A	937.57	35.7	901.87
I-09	11/16/1993	A	937.57	35.4	902.17
I-09	11/30/1993	A	937.57	35.2	902.37
I-09	2/15/1994	A	937.57	34.5	903.07
I-09	3/1/1994	A	937.57	34.6	902.97
I-09	3/4/1994	A	937.57	35	902.57
I-09	3/31/1994	A	937.57	35.1	902.47
I-09	4/13/1994	A	937.57	35.3	902.27
I-09	5/25/1994	A	937.57	36.3	901.27
I-09	6/3/1994	A	937.57	36.2	901.37
I-09	7/21/1994	A	937.57	31	906.57
I-09	8/25/1994	A	937.57	31.5	906.07
I-09	9/23/1994	A	937.57	30.7	906.87
I-09	10/12/1994	A	937.57	30.4	907.17
I-09	11/18/1994	A	937.57	29	908.57
I-09	12/30/1994	A	937.57	28.7	908.87
I-09	1/31/1995	A	937.57	25.5	912.07
I-09	2/24/1995	A	937.57	35.7	901.87
I-09	3/31/1995	A	937.57	35.6	901.97
I-10	10/31/1991	A	938.9	45.67	893.23
I-10	11/17/1991	A	938.9	45.37	893.53
I-10	5/14/1992	A	938.9	38.9	900
I-10	7/23/1992	A	938.9	42	896.9
I-10	7/31/1992	A	938.9	42.1	896.8
I-10	8/24/1992	A	938.9	42.4	896.5
I-10	10/12/1992	A	938.9	40.7	898.2
I-10	10/27/1992	A	938.9	40.4	898.5
I-10	11/23/1992	A	938.9	39.7	899.2

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
I-10	1/29/1993	A	938.9	36.9	902
I-10	2/4/1993	A	938.9	36.9	902
I-10	3/11/1993	A	938.9	35.65	903.25
I-10	4/15/1993	A	938.9	35.2	903.7
I-10	7/6/1993	A	938.9	36.9	902
I-10	7/13/1993	A	938.9	37.2	901.7
I-10	10/8/1993	A	938.9	37	901.9
I-10	10/27/1993	A	938.9	37	901.9
I-10	11/2/1993	A	938.9	36.8	902.1
I-10	11/9/1993	A	938.9	36.6	902.3
I-10	11/16/1993	A	938.9	36.2	902.7
I-10	11/30/1993	A	938.9	36.1	902.8
I-10	2/15/1994	A	938.9	35.5	903.4
I-10	3/1/1994	A	938.9	35.6	903.3
I-10	3/27/1994	A	938.9	36.1	902.8
I-10	3/31/1994	A	938.9	36.1	902.8
I-10	4/13/1994	A	938.9	36.4	902.5
I-10	5/25/1994	A	938.9	37.1	901.8
I-10	6/3/1994	A	938.9	37.2	901.7
I-10	7/21/1994	A	938.9	39.9	899
I-10	8/25/1994	A	938.9	41.2	897.7
I-10	9/22/1994	A	938.9	40.7	898.2
I-10	10/12/1994	A	938.9	40	898.9
I-10	11/18/1994	A	938.9	38.7	900.2
I-10	12/30/1994	A	938.9	37.5	901.4
I-10	1/31/1995	A	938.9	37.1	901.8
I-10	2/24/1995	A	938.9	36.7	902.2
I-10	3/31/1995	A	938.9	36.7	902.2
I-101	4/4/1995	C	962	11	951
I-101	4/10/1995	C	962	11	951
I-101	4/17/1995	C	962	11	951
I-101	4/24/1995	C	962	11	951
I-101	5/1/1995	C	962	11	951
I-101	5/16/1995	C	962	11	951
I-101	5/22/1995	C	962	11	951
I-101	5/30/1995	C	962	10	952
I-101	6/5/1995	C	962	11	951
I-101	6/12/1995	C	962	10	952
I-101	6/19/1995	C	962	11	951
I-101	6/26/1995	C	962	11	951
I-101	7/7/1995	C	962	12	950
I-101	7/21/1995	C	962	12	950
I-101	7/28/1995	C	962	12	950
I-101	8/2/1995	C	962	12	950
I-101	8/11/1995	C	962	12	950
I-101	8/15/1995	C	962	12	950
I-101	8/23/1995	C	962	12	950
I-101	8/31/1995	C	962	12	950
I-101	9/6/1995	C	962	12	950
I-101	9/13/1995	C	962	12	950
I-101	9/22/1995	C	962	12	950
I-101	9/28/1995	C	962	10	952
I-101	10/6/1995	C	962	11	951

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
I-101	10/31/1995	C	962	11	951
I-101	11/30/1995	C	962	11	951
I-101	12/30/1995	C	962	10	952
I-101	1/8/1996	C	962	11	951
I-101	2/19/1996	C	962	10	952
I-101	3/11/1996	C	962	11	951
I-101	4/8/1996	C	962	62	900
I-101	5/13/1996	C	962	65	897
I-101	6/30/1996	C	962	59	903
I-101	7/14/1996	C	962	13	949
I-101	8/12/1996	C	962	11	951
I-101	9/2/1996	C	962	18	944
I-101	10/28/1996	C	962	20	942
I-101	1/16/1997	C	962	18	944
I-101	4/28/1997	C	962	23	939
I-101	7/29/1997	C	962	19	943
I-101	10/20/1997	C	962	24	938
I-101	1/29/1998	C	962	30	932
I-101	5/1/1998	C	962	39	923
I-101	7/27/1998	C	962	143	819
I-101	11/5/1998	C	962	28	934
I-101	1/22/1999	C	962	10	952
I-101	5/7/1999	C	962	22	940
I-101	8/4/1999	C	962	142	820
I-101	10/12/1999	C	962	18	944
I-101	2/10/2000	C	962	26	936
I-101	5/2/2000	C	962	22	940
I-101	8/3/2000	C	962	25	937
I-101	10/20/2000	C	962	16	946
I-101	2/1/2001	C	962	29	933
I-101	5/24/2001	C	962	26	936
I-101	8/1/2001	C	962	31	931
I-101	10/29/2001	C	962	24	938
I-101	2/1/2002	C	962	22.9	939.1
I-101	5/13/2002	C	962	28.9	933.1
I-101	7/31/2002	C	962	34.65	927.35
I-101	10/30/2002	C	962	22.85	939.15
I-101	1/30/2003	C	962	18.9	943.1
I-101	4/30/2003	C	962	21	941
I-101	8/7/2003	C	962	26.4	935.6
I-101	10/28/2003	C	962	22.1	939.9
I-101	1/28/2004	C	962	16.1	945.9
I-101	4/28/2004	C	962	20.15	941.85
I-101	7/29/2004	C	962	77.5	884.5
I-101	11/1/2004	C	962	17.4	944.6
I-101	1/27/2005	C	962	63	899
I-101	5/5/2005	C	962	66.7	895.3
I-101	7/27/2005	C	962	73.2	888.8
I-101	10/26/2005	C	962	65.7	896.3
I-101	1/26/2006	C	962	64.7	897.3
I-101	5/2/2006	C	962	67.8	894.2
I-101	7/25/2006	C	962	74.2	887.8
I-101	10/31/2006	C	962	68.1	893.9

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
I-101	1/29/2007	C	962	66.3	895.7
I-101	5/1/2007	C	962	69.5	892.5
I-101	7/31/2007	C	962	78.2	883.8
I-101	10/11/2007	C	962	73.54	888.46
I-101	1/9/2008	C	962	64.34	897.66
I-101	4/15/2008	C	962	64.7	897.3
I-101	8/4/2008	C	961	77.54	883.46
I-101	11/18/2008	C	961	69.58	891.42
I-101	2/17/2009	C	962	65.6	896.4
I-101	5/19/2009	C	962	69.72	892.28
I-101	8/25/2009	C	963.06	76.72	886.34
I-101	9/22/2009	C	963.06	78.7	884.36
I-101	10/19/2009	C	963.06	75.11	887.95
I-101	11/17/2009	C	963.06	70.91	892.15
I-101	2/3/2010	C	963.06	66.66	896.4
I-101	5/10/2010	C	963.06	64.35	898.71
I-101	8/24/2010	C	963.06	75.4	887.66
I-101	11/30/2010	C	963.06	66.39	896.67
I-101	2/3/2011	C	963.06	64.47	898.59
I-101	5/3/2011	C	963.06	70.72	892.34
I-101	8/2/2011	C	963.06	75.73	887.33
I-101	2/1/2012	C	960.9	72.04	888.86
I-101	5/1/2012	C	960.9	71	889.9
I-101	8/2/2012	C	960.9	79.69	881.21
I-101	11/5/2012	C	960.9	71.69	889.21
I-101	2/5/2013	C	960.9	68.89	892.01
I-101	5/1/2013	C	960.9	72.49	888.41
I-101	8/7/2013	C	963.06	81.02	882.04
I-101	11/4/2013	C	963.06	75.63	887.43
I-102	4/4/1995	C	960.88	11	949.88
I-102	4/10/1995	C	960.88	10	950.88
I-102	4/17/1995	C	960.88	11	949.88
I-102	4/24/1995	C	960.88	11	949.88
I-102	5/1/1995	C	960.88	11	949.88
I-102	5/16/1995	C	960.88	11	949.88
I-102	5/22/1995	C	960.88	11	949.88
I-102	5/30/1995	C	960.88	11	949.88
I-102	6/5/1995	C	960.88	11	949.88
I-102	6/12/1995	C	960.88	11	949.88
I-102	6/19/1995	C	960.88	11	949.88
I-102	6/26/1995	C	960.88	11	949.88
I-102	7/7/1995	C	960.88	12	948.88
I-102	7/21/1995	C	960.88	12	948.88
I-102	8/11/1995	C	960.88	12	948.88
I-102	10/6/1995	C	960.88	11	949.88
I-102	10/31/1995	C	960.88	11	949.88
I-102	11/30/1995	C	960.88	11	949.88
I-102	12/30/1995	C	960.88	11	949.88
I-102	1/8/1996	C	960.88	10	950.88
I-102	2/19/1996	C	960.88	11	949.88
I-102	3/11/1996	C	960.88	10	950.88
I-102	4/8/1996	C	960.88	62	898.88
I-102	5/13/1996	C	960.88	65	895.88

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
I-102	6/30/1996	C	960.88	55	905.88
I-102	7/14/1996	C	960.88	13	947.88
I-102	8/12/1996	C	960.88	13	947.88
I-102	9/2/1996	C	960.88	14	946.88
I-102	10/28/1996	C	960.88	20	940.88
I-102	1/16/1997	C	960.88	15	945.88
I-102	4/28/1997	C	960.88	25	935.88
I-102	7/29/1997	C	960.88	17	943.88
I-102	10/20/1997	C	960.88	25	935.88
I-102	1/29/1998	C	960.88	28	932.88
I-102	5/1/1998	C	960.88	56	904.88
I-102	7/27/1998	C	960.88	138	822.88
I-102	11/5/1998	C	960.88	23	937.88
I-102	1/22/1999	C	960.88	18	942.88
I-102	5/7/1999	C	960.88	14	946.88
I-102	8/4/1999	C	960.88	15	945.88
I-102	10/12/1999	C	960.88	10	950.88
I-102	2/10/2000	C	960.88	27	933.88
I-102	5/2/2000	C	960.88	25	935.88
I-102	8/3/2000	C	960.88	29	931.88
I-102	10/20/2000	C	960.88	27	933.88
I-102	2/1/2001	C	960.88	23	937.88
I-102	8/1/2001	C	960.88	120	840.88
I-102	10/29/2001	C	960.88	128	832.88
I-102	2/1/2002	C	960.88	15.5	945.38
I-102	5/13/2002	C	960.88	21.2	939.68
I-102	7/31/2002	C	960.88	26.2	934.68
I-102	10/30/2002	C	960.88	14.4	946.48
I-102	1/30/2003	C	960.88	9.6	951.28
I-102	4/30/2003	C	960.88	12.55	948.33
I-102	8/7/2003	C	960.88	17.7	943.18
I-102	10/28/2003	C	960.88	12	948.88
I-102	1/28/2004	C	960.88	3.9	956.98
I-102	4/28/2004	C	960.88	6.95	953.93
I-102	7/29/2004	C	960.88	64.95	895.93
I-102	11/1/2004	C	960.88	7.2	953.68
I-102	1/27/2005	C	960.88	62.6	898.28
I-102	5/5/2005	C	960.88	63.2	897.68
I-102	7/27/2005	C	960.88	65.7	895.18
I-102	10/26/2005	C	960.88	60.2	900.68
I-102	1/26/2006	C	960.88	59.7	901.18
I-102	5/2/2006	C	960.88	60.55	900.33
I-102	7/25/2006	C	960.88	62.2	898.68
I-102	10/31/2006	C	960.88	61.75	899.13
I-102	1/29/2007	C	960.88	61.5	899.38
I-102	5/1/2007	C	960.88	62.55	898.33
I-102	7/31/2007	C	960.88	66	894.88
I-102	10/11/2007	C	960.88	65.74	895.14
I-102	1/9/2008	C	960.88	65.65	895.23
I-102	4/15/2008	C	960.88	70.21	890.67
I-102	8/4/2008	C	962	66.78	895.22
I-102	11/18/2008	C	962	65.09	896.91
I-102	2/17/2009	C	962.33	63.92	898.41

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
I-102	5/19/2009	C	962.33	65.12	897.21
I-102	8/25/2009	C	962.33	67.95	894.38
I-102	9/22/2009	C	962.33	68.55	893.78
I-102	10/19/2009	C	962.33	68.18	894.15
I-102	11/17/2009	C	962.33	67.22	895.11
I-102	2/3/2010	C	962.33	66.38	895.95
I-102	5/10/2010	C	962.33	66.52	895.81
I-102	8/24/2010	C	962.33	68.12	894.21
I-102	11/30/2010	C	962.33	64.55	897.78
I-102	2/3/2011	C	962.33	63.68	898.65
I-102	5/3/2011	C	962.33	58.53	903.8
I-102	8/3/2011	C	962.33	68.13	894.2
I-102	2/1/2012	C	961.22	67.2	894.02
I-102	5/1/2012	C	961.22	66.37	894.85
I-102	8/2/2012	C	961.22	69.14	892.08
I-102	11/5/2012	C	961.22	77.42	883.8
I-102	2/5/2013	C	961.22	66.18	895.04
I-102	5/1/2013	C	961.22	68.3	892.92
I-102	8/7/2013	C	962.33	71.31	891.02
I-102	11/4/2013	C	962.33	71.45	890.88
I-12	5/14/1992	A	935.79	34.6	901.19
I-12	7/23/1992	A	935.79	34.1	901.69
I-12	7/31/1992	A	935.79	35.9	899.89
I-12	8/24/1992	A	935.79	35.9	899.89
I-12	10/12/1992	A	935.79	33.3	902.49
I-12	10/27/1992	A	935.79	33.4	902.39
I-12	11/23/1992	A	935.79	32.8	902.99
I-12	12/15/1992	A	935.79	26.2	909.59
I-12	1/26/1993	A	935.79	30.4	905.39
I-12	2/2/1993	A	935.79	31.8	903.99
I-12	2/4/1993	A	935.79	30	905.79
I-12	2/16/1993	A	935.79	32.8	902.99
I-12	2/23/1993	A	935.79	26.5	909.29
I-12	3/11/1993	A	935.79	27.85	907.94
I-12	3/25/1993	A	935.79	22	913.79
I-12	3/30/1993	A	935.79	14.8	920.99
I-12	4/6/1993	A	935.79	14.7	921.09
I-12	4/13/1993	A	935.79	24.7	911.09
I-12	4/15/1993	A	935.79	27.2	908.59
I-12	4/20/1993	A	935.79	14.6	921.19
I-12	5/18/1993	A	935.79	34	901.79
I-12	5/25/1993	A	935.79	21.4	914.39
I-12	6/1/1993	A	935.79	28.1	907.69
I-12	6/15/1993	A	935.79	51	884.79
I-12	6/22/1993	A	935.79	52.6	883.19
I-12	6/29/1993	A	935.79	51.5	884.29
I-12	7/6/1993	A	935.79	26.5	909.29
I-12	7/13/1993	A	935.79	25.1	910.69
I-12	7/20/1993	A	935.79	62	873.79
I-12	7/27/1993	A	935.79	64.2	871.59
I-12	8/3/1993	A	935.79	68.5	867.29
I-12	8/10/1993	A	935.79	14.2	921.59
I-12	8/17/1993	A	935.79	24.5	911.29

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
I-12	8/24/1993	A	935.79	24.4	911.39
I-12	8/31/1993	A	935.79	24.3	911.49
I-12	9/21/1993	A	935.79	24.5	911.29
I-12	9/28/1993	A	935.79	24.4	911.39
I-12	10/5/1993	A	935.79	24.1	911.69
I-12	10/8/1993	A	935.79	24.8	910.99
I-12	10/19/1993	A	935.79	24.5	911.29
I-12	10/26/1993	A	935.79	24.5	911.29
I-12	10/27/1993	A	935.79	22.4	913.39
I-12	11/2/1993	A	935.79	21.5	914.29
I-12	11/9/1993	A	935.79	21.6	914.19
I-12	11/16/1993	A	935.79	22.7	913.09
I-12	11/30/1993	A	935.79	21.5	914.29
I-12	3/1/1994	A	935.79	23.6	912.19
I-12	3/24/1994	A	935.79	23.2	912.59
I-12	3/31/1994	A	935.79	23	912.79
I-12	4/13/1994	A	935.79	23.3	912.49
I-12	5/25/1994	A	935.79	24.6	911.19
I-12	6/3/1994	A	935.79	24.3	911.49
I-12	7/21/1994	A	935.79	30.7	905.09
I-12	8/25/1994	A	935.79	31.5	904.29
I-12	9/23/1994	A	935.79	31.1	904.69
I-12	10/12/1994	A	935.79	31.2	904.59
I-12	11/18/1994	A	935.79	29.6	906.19
I-12	12/30/1994	A	935.79	29.9	905.89
I-12	1/31/1995	A	935.79	29.8	905.99
I-12	2/24/1995	A	935.79	27.4	908.39
I-12	3/31/1995	A	935.79	27.8	907.99
I-13	5/14/1992	A	944.94	45.6	899.34
I-13	7/23/1992	A	944.94	47.6	897.34
I-13	7/31/1992	A	944.94	47.8	897.14
I-13	8/24/1992	A	944.94	48.15	896.79
I-13	10/12/1992	A	944.94	43.1	901.84
I-13	10/27/1992	A	944.94	42.6	902.34
I-13	11/23/1992	A	944.94	41.5	903.44
I-13	12/15/1992	A	944.94	30.8	914.14
I-13	1/26/1993	A	944.94	29.9	915.04
I-13	2/2/1993	A	944.94	28.8	916.14
I-13	2/4/1993	A	944.94	39.1	905.84
I-13	2/16/1993	A	944.94	28.6	916.34
I-13	2/23/1993	A	944.94	26.4	918.54
I-13	3/9/1993	A	944.94	23.1	921.84
I-13	3/11/1993	A	944.94	36.95	907.99
I-13	3/15/1993	A	944.94	25.5	919.44
I-13	3/25/1993	A	944.94	23.5	921.44
I-13	3/30/1993	A	944.94	24.2	920.74
I-13	4/6/1993	A	944.94	22.4	922.54
I-13	4/13/1993	A	944.94	24.5	920.44
I-13	4/15/1993	A	944.94	36.6	908.34
I-13	4/20/1993	A	944.94	22.3	922.64
I-13	5/18/1993	A	944.94	22.4	922.54
I-13	5/25/1993	A	944.94	20.9	924.04
I-13	6/1/1993	A	944.94	21.2	923.74

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
I-13	6/15/1993	A	944.94	33	911.94
I-13	6/22/1993	A	944.94	24.8	920.14
I-13	6/29/1993	A	944.94	23.5	921.44
I-13	7/6/1993	A	944.94	35.2	909.74
I-13	7/13/1993	A	944.94	40.9	904.04
I-13	7/20/1993	A	944.94	30.4	914.54
I-13	7/27/1993	A	944.94	28.4	916.54
I-13	8/3/1993	A	944.94	28.9	916.04
I-13	8/10/1993	A	944.94	34.3	910.64
I-13	8/17/1993	A	944.94	33.2	911.74
I-13	8/24/1993	A	944.94	33.4	911.54
I-13	8/31/1993	A	944.94	33.3	911.64
I-13	9/21/1993	A	944.94	34.5	910.44
I-13	9/28/1993	A	944.94	34.1	910.84
I-13	10/5/1993	A	944.94	35	909.94
I-13	10/8/1993	A	944.94	42.2	902.74
I-13	10/19/1993	A	944.94	33.7	911.24
I-13	10/26/1993	A	944.94	34.1	910.84
I-13	10/27/1993	A	944.94	42.6	902.34
I-13	11/2/1993	A	944.94	42.4	902.54
I-13	11/9/1993	A	944.94	42.2	902.74
I-13	11/16/1993	A	944.94	42.1	902.84
I-13	11/30/1993	A	944.94	41.7	903.24
I-13	2/15/1994	A	944.94	41.1	903.84
I-13	3/1/1994	A	944.94	41.2	903.74
I-13	3/27/1994	A	944.94	41.6	903.34
I-13	3/31/1994	A	944.94	41.6	903.34
I-13	4/13/1994	A	944.94	41.8	903.14
I-13	5/25/1994	A	944.94	42.7	902.24
I-13	6/3/1994	A	944.94	42.5	902.44
I-13	7/21/1994	A	944.94	34.2	910.74
I-13	8/25/1994	A	944.94	34.4	910.54
I-13	9/23/1994	A	944.94	36.3	908.64
I-13	10/12/1994	A	944.94	36.5	908.44
I-13	11/18/1994	A	944.94	34.5	910.44
I-13	12/30/1994	A	944.94	34.9	910.04
I-13	1/31/1995	A	944.94	34.8	910.14
I-13	2/24/1995	A	944.94	35.4	909.54
I-13	3/31/1995	A	944.94	34.1	910.84
I-14	5/15/1992	A	928.25	21.6	906.65
I-14	7/22/1992	A	928.25	23.8	904.45
I-14	7/31/1992	A	928.25	23.7	904.55
I-14	8/24/1992	A	928.25	24.6	903.65
I-14	10/2/1992	A	928.25	25.6	902.65
I-14	10/27/1992	A	928.25	25.4	902.85
I-14	11/23/1992	A	928.25	24	904.25
I-14	1/5/1993	A	928.25	24.2	904.05
I-14	1/26/1993	A	928.25	29.3	898.95
I-14	2/2/1993	A	928.25	22.5	905.75
I-14	2/4/1993	A	928.25	22.5	905.75
I-14	2/16/1993	A	928.25	18.5	909.75
I-14	2/23/1993	A	928.25	12.3	915.95
I-14	3/9/1993	A	928.25	21.1	907.15

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
I-14	3/11/1993	A	928.25	20.5	907.75
I-14	3/15/1993	A	928.25	14.4	913.85
I-14	3/25/1993	A	928.25	24.2	904.05
I-14	3/30/1993	A	928.25	38.1	890.15
I-14	4/6/1993	A	928.25	50	878.25
I-14	4/13/1993	A	928.25	31.8	896.45
I-14	4/15/1993	A	928.25	20.1	908.15
I-14	4/20/1993	A	928.25	28.2	900.05
I-14	5/18/1993	A	928.25	73.1	855.15
I-14	5/25/1993	A	928.25	84.9	843.35
I-14	6/1/1993	A	928.25	16.1	912.15
I-14	6/15/1993	A	928.25	20.2	908.05
I-14	6/22/1993	A	928.25	24.6	903.65
I-14	6/29/1993	A	928.25	23.1	905.15
I-14	7/6/1993	A	928.25	21	907.25
I-14	7/13/1993	A	928.25	18.6	909.65
I-14	7/20/1993	A	928.25	16.3	911.95
I-14	7/27/1993	A	928.25	14.35	913.9
I-14	8/3/1993	A	928.25	14.1	914.15
I-14	8/10/1993	A	928.25	16.4	911.85
I-14	8/17/1993	A	928.25	12.75	915.5
I-14	8/24/1993	A	928.25	18.1	910.15
I-14	9/21/1993	A	928.25	15.8	912.45
I-14	9/28/1993	A	928.25	15.9	912.35
I-14	10/5/1993	A	928.25	18.4	909.85
I-14	10/8/1993	A	928.25	19.8	908.45
I-14	10/19/1993	A	928.25	16.7	911.55
I-14	10/26/1993	A	928.25	17.5	910.75
I-14	10/27/1993	A	928.25	22.6	905.65
I-14	11/2/1993	A	928.25	25.7	902.55
I-14	11/9/1993	A	928.25	25.9	902.35
I-14	11/16/1993	A	928.25	25.8	902.45
I-14	11/30/1993	A	928.25	25.5	902.75
I-14	3/1/1994	A	928.25	20.1	908.15
I-14	3/24/1994	A	928.25	20.3	907.95
I-14	3/30/1994	A	928.25	20	908.25
I-14	4/13/1994	A	928.25	20.5	907.75
I-14	5/25/1994	A	928.25	25	903.25
I-14	6/3/1994	A	928.25	25.2	903.05
I-14	7/21/1994	A	928.25	22.3	905.95
I-14	8/25/1994	A	928.25	27.6	900.65
I-14	9/23/1994	A	928.25	29.2	899.05
I-14	10/12/1994	A	928.25	29.2	899.05
I-14	11/18/1994	A	928.25	26.2	902.05
I-14	12/30/1994	A	928.25	19.5	908.75
I-14	1/31/1995	A	928.25	19	909.25
I-14	2/24/1995	A	928.25	19.2	909.05
I-14	3/31/1995	A	928.25	20.6	907.65
I-16	5/14/1992	A	928.55	23.25	905.3
I-16	7/22/1992	A	928.55	24.2	904.35
I-16	7/31/1992	A	928.55	24.1	904.45
I-16	8/24/1992	A	928.55	26.1	902.45
I-16	10/2/1992	A	928.55	23.8	904.75

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
I-16	10/27/1992	A	928.55	23.5	905.05
I-16	11/23/1992	A	928.55	22.2	906.35
I-16	1/5/1993	A	928.55	21.7	906.85
I-16	1/26/1993	A	928.55	21.5	907.05
I-16	2/2/1993	A	928.55	21.5	907.05
I-16	2/4/1993	A	928.55	21.5	907.05
I-16	2/16/1993	A	928.55	21.4	907.15
I-16	2/23/1993	A	928.55	21	907.55
I-16	3/9/1993	A	928.55	20.5	908.05
I-16	3/11/1993	A	928.55	20.55	908
I-16	3/15/1993	A	928.55	23.4	905.15
I-16	3/25/1993	A	928.55	23.4	905.15
I-16	3/30/1993	A	928.55	23.1	905.45
I-16	4/6/1993	A	928.55	23.3	905.25
I-16	4/13/1993	A	928.55	21	907.55
I-16	4/15/1993	A	928.55	20.8	907.75
I-16	4/20/1993	A	928.55	21.6	906.95
I-16	5/18/1993	A	928.55	21.9	906.65
I-16	5/25/1993	A	928.55	21.3	907.25
I-16	6/1/1993	A	928.55	21.2	907.35
I-16	6/15/1993	A	928.55	21	907.55
I-16	6/22/1993	A	928.55	20.7	907.85
I-16	6/29/1993	A	928.55	20.6	907.95
I-16	7/6/1993	A	928.55	20.6	907.95
I-16	7/13/1993	A	928.55	20.2	908.35
I-16	7/20/1993	A	928.55	19.5	909.05
I-16	7/27/1993	A	928.55	19.1	909.45
I-16	8/3/1993	A	928.55	18.7	909.85
I-16	8/10/1993	A	928.55	19	909.55
I-16	8/17/1993	A	928.55	18.5	910.05
I-16	8/24/1993	A	928.55	18.5	910.05
I-16	8/31/1993	A	928.55	17.7	910.85
I-16	9/21/1993	A	928.55	58.7	869.85
I-16	9/28/1993	A	928.55	18.8	909.75
I-16	10/5/1993	A	928.55	16.8	911.75
I-16	10/8/1993	A	928.55	19	909.55
I-16	10/19/1993	A	928.55	19.2	909.35
I-16	10/26/1993	A	928.55	12.2	916.35
I-16	10/27/1993	A	928.55	19.1	909.45
I-16	11/2/1993	A	928.55	19	909.55
I-16	11/9/1993	A	928.55	18.9	909.65
I-16	11/16/1993	A	928.55	19.4	909.15
I-16	11/30/1993	A	928.55	19.1	909.45
I-16	3/1/1994	A	928.55	18.3	910.25
I-16	3/24/1994	A	928.55	18.1	910.45
I-16	3/30/1994	A	928.55	18.1	910.45
I-16	4/13/1994	A	928.55	17.9	910.65
I-16	5/25/1994	A	928.55	17.4	911.15
I-16	6/3/1994	A	928.55	17.5	911.05
I-16	7/21/1994	A	928.55	18	910.55
I-16	8/25/1994	A	928.55	18.1	910.45
I-16	9/23/1994	A	928.55	17.4	911.15
I-16	10/12/1994	A	928.55	17.2	911.35

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
I-16	11/18/1994	A	928.55	17.3	911.25
I-16	12/30/1994	A	928.55	16.5	912.05
I-16	1/31/1995	A	928.55	16.3	912.25
I-16	2/24/1995	A	928.55	16.6	911.95
I-16	3/31/1995	A	928.55	16.1	912.45
I-17	5/14/1992	A	940.31	34.15	906.16
I-17	7/23/1992	A	940.31	32.9	907.41
I-17	7/31/1992	A	940.31	33.7	906.61
I-17	8/24/1992	A	940.31	33.8	906.51
I-17	10/12/1992	A	940.31	32.6	907.71
I-17	10/27/1992	A	940.31	32.6	907.71
I-17	11/23/1992	A	940.31	31.7	908.61
I-17	12/15/1992	A	940.31	31.1	909.21
I-17	1/26/1993	A	940.31	31.45	908.86
I-17	2/2/1993	A	940.31	31.5	908.81
I-17	2/4/1993	A	940.31	31.3	909.01
I-17	2/16/1993	A	940.31	30.9	909.41
I-17	2/23/1993	A	940.31	31.3	909.01
I-17	3/9/1993	A	940.31	29.5	910.81
I-17	3/11/1993	A	940.31	29.95	910.36
I-17	3/15/1993	A	940.31	30.9	909.41
I-17	3/25/1993	A	940.31	30.2	910.11
I-17	3/30/1993	A	940.31	30	910.31
I-17	4/6/1993	A	940.31	30.4	909.91
I-17	4/13/1993	A	940.31	30.2	910.11
I-17	4/15/1993	A	940.31	30.3	910.01
I-17	4/20/1993	A	940.31	30.4	909.91
I-17	5/25/1993	A	940.31	24.1	916.21
I-17	6/1/1993	A	940.31	29.1	911.21
I-17	6/15/1993	A	940.31	31.3	909.01
I-17	6/22/1993	A	940.31	24.5	915.81
I-17	6/29/1993	A	940.31	29.7	910.61
I-17	7/6/1993	A	940.31	29	911.31
I-17	7/13/1993	A	940.31	27.4	912.91
I-17	7/20/1993	A	940.31	27.8	912.51
I-17	7/27/1993	A	940.31	27.7	912.61
I-17	8/3/1993	A	940.31	26.8	913.51
I-17	8/10/1993	A	940.31	27.1	913.21
I-17	8/17/1993	A	940.31	27	913.31
I-17	8/24/1993	A	940.31	27.3	913.01
I-17	8/31/1993	A	940.31	16.05	924.26
I-17	9/21/1993	A	940.31	24.6	915.71
I-17	9/28/1993	A	940.31	24.4	915.91
I-17	10/5/1993	A	940.31	24.1	916.21
I-17	10/8/1993	A	940.31	25.3	915.01
I-17	10/19/1993	A	940.31	24.4	915.91
I-17	10/26/1993	A	940.31	24.8	915.51
I-17	10/27/1993	A	940.31	25.9	914.41
I-17	11/2/1993	A	940.31	25.8	914.51
I-17	11/9/1993	A	940.31	25.6	914.71
I-17	11/16/1993	A	940.31	26.1	914.21
I-17	11/30/1993	A	940.31	26	914.31
I-17	3/1/1994	A	940.31	24.8	915.51

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
I-17	3/24/1994	A	940.31	24.8	915.51
I-17	3/30/1994	A	940.31	24.6	915.71
I-17	4/13/1994	A	940.31	24.1	916.21
I-17	5/25/1994	A	940.31	24.4	915.91
I-17	6/3/1994	A	940.31	23.6	916.71
I-17	7/21/1994	A	940.31	24.6	915.71
I-17	8/25/1994	A	940.31	24.7	915.61
I-17	9/23/1994	A	940.31	23.8	916.51
I-17	10/12/1994	A	940.31	24.1	916.21
I-17	11/18/1994	A	940.31	21.8	918.51
I-17	12/30/1994	A	940.31	22.7	917.61
I-17	1/31/1995	A	940.31	22.3	918.01
I-17	2/24/1995	A	940.31	23.3	917.01
I-17	3/31/1995	A	940.31	22.3	918.01
I-18	10/27/1992	A	950.93	24	926.93
I-18	3/11/1993	A	950.93	24.1	926.83
I-18	4/15/1993	A	950.93	24	926.93
I-18	7/6/1993	A	950.93	24	926.93
I-18	7/13/1993	A	950.93	24	926.93
I-18	10/8/1993	A	950.93	67	883.93
I-18	10/19/1993	A	950.93	46.3	904.63
I-18	10/26/1993	A	950.93	45.8	905.13
I-18	10/27/1993	A	950.93	45.1	905.83
I-18	11/2/1993	A	950.93	44.7	906.23
I-18	11/9/1993	A	950.93	44.5	906.43
I-18	11/16/1993	A	950.93	44.7	906.23
I-18	11/30/1993	A	950.93	44.5	906.43
I-18	3/1/1994	A	950.93	41.4	909.53
I-18	3/27/1994	A	950.93	41.7	909.23
I-18	3/31/1994	A	950.93	41.3	909.63
I-18	4/13/1994	A	950.93	40.7	910.23
I-18	5/25/1994	A	950.93	41	909.93
I-18	6/3/1994	A	950.93	39.9	911.03
I-18	7/21/1994	A	950.93	41.7	909.23
I-18	8/25/1994	A	950.93	42.4	908.53
I-18	9/23/1994	A	950.93	43.5	907.43
I-18	10/12/1994	A	950.93	41.4	909.53
I-18	11/18/1994	A	950.93	39	911.93
I-18	12/30/1994	A	950.93	38.9	912.03
I-18	1/31/1995	A	950.93	38.4	912.53
I-18	2/24/1995	A	950.93	39.9	911.03
I-18	3/31/1995	A	950.53	37.1	913.43
I-201	10/25/1994	C	971.46	77.61	893.85
I-201	10/27/1994	C	971.46	64.12	907.34
I-201	11/1/1994	C	971.46	62.27	909.19
I-201	11/4/1994	C	971.46	61.81	909.65
I-201	11/8/1994	C	971.46	61.37	910.09
I-201	11/11/1994	C	971.46	61.14	910.32
I-201	11/15/1994	C	971.46	59.48	911.98
I-201	11/18/1994	C	971.46	58.72	912.74
I-201	11/21/1994	C	971.46	58.74	912.72
I-201	11/23/1994	C	971.46	59	912.46
I-201	11/29/1994	C	971.46	58.58	912.88

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
I-201	12/2/1994	C	971.46	61.47	909.99
I-201	12/9/1994	C	971.46	59.72	911.74
I-201	12/13/1994	C	971.46	59.45	912.01
I-201	12/20/1994	C	971.46	57.63	913.83
I-201	12/27/1994	C	971.46	56.64	914.82
I-201	1/3/1995	C	971.46	55.2	916.26
I-201	1/10/1995	C	971.46	54.02	917.44
I-201	1/17/1995	C	971.46	53.41	918.05
I-201	1/24/1995	C	971.46	52.8	918.66
I-201	1/31/1995	C	971.46	53.16	918.3
I-201	2/7/1995	C	971.46	53.11	918.35
I-201	2/13/1995	C	971.46	53.1	918.36
I-201	2/22/1995	C	971.46	52.65	918.81
I-201	3/2/1995	C	971.46	50.98	920.48
I-201	3/10/1995	C	971.46	50.45	921.01
I-201	3/15/1995	C	971.46	50.15	921.31
I-201	4/4/1995	C	971.46	59	912.46
I-201	4/10/1995	C	971.46	61	910.46
I-201	4/17/1995	C	971.46	57	914.46
I-201	4/24/1995	C	971.46	56	915.46
I-201	5/1/1995	C	971.46	58	913.46
I-201	5/16/1995	C	971.46	56	915.46
I-201	5/22/1995	C	971.46	55	916.46
I-201	5/30/1995	C	971.46	49	922.46
I-201	6/5/1995	C	971.46	52	919.46
I-201	6/12/1995	C	971.46	76	895.46
I-201	6/19/1995	C	971.46	56	915.46
I-201	6/26/1995	C	971.46	77	894.46
I-201	7/7/1995	C	971.46	62	909.46
I-201	7/24/1995	C	971.46	73	898.46
I-201	7/28/1995	C	971.46	75	896.46
I-201	8/2/1995	C	971.46	78	893.46
I-201	8/10/1995	C	971.46	79	892.46
I-201	8/15/1995	C	971.46	74	897.46
I-201	8/23/1995	C	971.46	68	903.46
I-201	8/31/1995	C	971.46	68	903.46
I-201	9/6/1995	C	971.46	64	907.46
I-201	9/13/1995	C	971.46	59	912.46
I-201	9/22/1995	C	971.46	59	912.46
I-201	9/28/1995	C	971.46	57	914.46
I-201	10/6/1995	C	971.46	52	919.46
I-201	10/31/1995	C	971.46	50	921.46
I-201	11/30/1995	C	971.46	47	924.46
I-201	12/30/1995	C	971.46	46	925.46
I-201	1/8/1996	C	971.46	43	928.46
I-201	2/19/1996	C	971.46	40	931.46
I-201	3/11/1996	C	971.46	38	933.46
I-201	4/18/1996	C	971.46	37	934.46
I-201	5/13/1996	C	971.46	42	929.46
I-201	6/3/1996	C	971.46	47	924.46
I-201	7/16/1996	C	971.46	57	914.46
I-201	8/17/1996	C	971.46	51	920.46
I-201	9/13/1996	C	971.46	50	921.46

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
I-201	10/28/1996	C	971.46	36	935.46
I-201	1/15/1997	C	971.46	28	943.46
I-201	4/30/1997	C	971.46	29	942.46
I-201	7/29/1997	C	971.46	56	915.46
I-201	10/20/1997	C	971.46	39	932.46
I-201	1/29/1998	C	971.46	28	943.46
I-201	5/8/1998	C	971.46	33	938.46
I-201	7/27/1998	C	971.46	32	939.46
I-201	11/5/1998	C	971.46	16	955.46
I-201	1/22/1999	C	971.46	16	955.46
I-201	5/7/1999	C	971.46	26	945.46
I-201	8/4/1999	C	971.46	43	928.46
I-201	10/12/1999	C	971.46	23	948.46
I-201	2/10/2000	C	971.46	100	871.46
I-201	5/2/2000	C	971.46	106	865.46
I-201	8/3/2000	C	971.46	108	863.46
I-201	10/20/2000	C	971.46	100	871.46
I-201	1/31/2001	C	971.46	116	855.46
I-201	5/24/2001	C	971.46	122	849.46
I-201	8/1/2001	C	971.46	107	864.46
I-201	10/29/2001	C	971.46	101	870.46
I-201	1/31/2002	C	971.46	10.1	961.36
I-201	5/14/2002	C	971.46	23.2	948.26
I-201	7/31/2002	C	971.46	42	929.46
I-201	10/31/2002	C	971.46	29.5	941.96
I-201	1/31/2003	C	971.46	22.7	948.76
I-201	4/30/2003	C	971.46	22.35	949.11
I-201	8/8/2003	C	971.46	34.2	937.26
I-201	10/29/2003	C	971.46	25.1	946.36
I-201	1/29/2004	C	971.46	59.9	911.56
I-201	4/29/2004	C	971.46	58.9	912.56
I-201	7/30/2004	C	971.46	51.8	919.66
I-201	11/2/2004	C	971.46	44.9	926.56
I-201	1/28/2005	C	971.46	27.4	944.06
I-201	5/6/2005	C	971.46	26	945.46
I-201	7/27/2005	C	971.46	24.6	946.86
I-201	10/27/2005	C	971.46	26	945.46
I-201	1/27/2006	C	971.46	26	945.46
I-201	5/4/2006	C	971.46	25.4	946.06
I-201	7/26/2006	C	971.46	25.85	945.61
I-201	10/31/2006	C	971.46	25.2	946.26
I-201	1/30/2007	C	971.46	26.5	944.96
I-201	5/2/2007	C	971.46	15.7	955.76
I-201	8/1/2007	C	971.46	14.3	957.16
I-201	10/10/2007	C	971.46	12.24	959.22
I-201	1/8/2008	C	971.46	13.65	957.81
I-201	4/14/2008	C	971.46	50.9	920.56
I-201	8/4/2008	C	971.46	51.2	920.26
I-201	11/17/2008	C	971.46	35.71	935.75
I-201	2/16/2009	C	971.46	20.3	951.16
I-201	5/18/2009	C	971.46	2.6	968.86
I-201	8/24/2009	C	973.52	90.87	882.65
I-201	11/17/2009	C	973.52	24.8	948.72

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
I-201	2/1/2010	C	973.52	48.3	925.22
I-201	5/3/2010	C	973.52	83.35	890.17
I-201	8/23/2010	C	973.52	84.22	889.3
I-201	11/29/2010	C	973.52	17.1	956.42
I-201	2/3/2011	C	973.52	19	954.52
I-201	5/3/2011	C	973.52	25.2	948.32
I-201	8/1/2011	C	973.52	17.88	955.64
I-201	11/1/2011	C	973.52	20.8	952.72
I-201	2/1/2012	C	972.911	11.92	960.991
I-201	5/1/2012	C	972.911	15.03	957.881
I-201	8/3/2012	C	972.911	8.1	964.811
I-201	11/1/2012	C	972.911	4.23	968.681
I-201	12/3/2012	C	972.911	6.1	966.811
I-201	2/4/2013	C	972.911	3.5	969.411
I-201	5/1/2013	C	972.911	15.54	957.371
I-201	8/5/2013	C	973.52	13.2	960.32
I-201	11/4/2013	C	973.52	7.12	966.4
I-202	10/25/1994	C	971.18	56.34	914.84
I-202	10/27/1994	C	971.18	61.74	909.44
I-202	11/1/1994	C	971.18	60.55	910.63
I-202	11/4/1994	C	971.18	60.68	910.5
I-202	11/8/1994	C	971.18	60.08	911.1
I-202	11/11/1994	C	971.18	56.98	914.2
I-202	11/15/1994	C	971.18	60.14	911.04
I-202	11/18/1994	C	971.18	59.31	911.87
I-202	11/21/1994	C	971.18	59.96	911.22
I-202	11/23/1994	C	971.18	60.27	910.91
I-202	11/29/1994	C	971.18	59.46	911.72
I-202	12/2/1994	C	971.18	62.5	908.68
I-202	12/9/1994	C	971.18	58.85	912.33
I-202	12/13/1994	C	971.18	58.84	912.34
I-202	12/20/1994	C	971.18	56.67	914.51
I-202	12/27/1994	C	971.18	56.02	915.16
I-202	1/3/1995	C	971.18	53.27	917.91
I-202	1/10/1995	C	971.18	51.21	919.97
I-202	1/17/1995	C	971.18	49.74	921.44
I-202	1/24/1995	C	971.18	48.81	922.37
I-202	1/31/1995	C	971.18	49.45	921.73
I-202	2/7/1995	C	971.18	49.21	921.97
I-202	2/13/1995	C	971.18	49.3	921.88
I-202	2/22/1995	C	971.18	48.65	922.53
I-202	3/2/1995	C	971.18	47.22	923.96
I-202	3/10/1995	C	971.18	46.46	924.72
I-202	3/15/1995	C	971.18	46.26	924.92
I-202	4/4/1995	C	971.18	56	915.18
I-202	4/10/1995	C	971.18	58	913.18
I-202	4/17/1995	C	971.18	53	918.18
I-202	4/24/1995	C	971.18	52	919.18
I-202	5/1/1995	C	971.18	52	919.18
I-202	5/16/1995	C	971.18	50	921.18
I-202	5/22/1995	C	971.18	51	920.18
I-202	5/30/1995	C	971.18	39	932.18
I-202	6/5/1995	C	971.18	42	929.18

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
I-202	6/12/1995	C	971.18	76	895.18
I-202	6/19/1995	C	971.18	44	927.18
I-202	6/26/1995	C	971.18	77	894.18
I-202	7/7/1995	C	971.18	55	916.18
I-202	7/24/1995	C	971.18	67	904.18
I-202	7/28/1995	C	971.18	68	903.18
I-202	8/2/1995	C	971.18	74	897.18
I-202	8/10/1995	C	971.18	76	895.18
I-202	8/15/1995	C	971.18	68	903.18
I-202	8/23/1995	C	971.18	60	911.18
I-202	8/31/1995	C	971.18	59	912.18
I-202	9/6/1995	C	971.18	57	914.18
I-202	9/13/1995	C	971.18	53	918.18
I-202	9/22/1995	C	971.18	49	922.18
I-202	9/28/1995	C	971.18	48	923.18
I-202	10/6/1995	C	971.18	44	927.18
I-202	10/31/1995	C	971.18	41	930.18
I-202	11/30/1995	C	971.18	39	932.18
I-202	12/30/1995	C	971.18	43	928.18
I-202	1/8/1996	C	971.18	40	931.18
I-202	2/19/1996	C	971.18	42	929.18
I-202	3/11/1996	C	971.18	41	930.18
I-202	4/18/1996	C	971.18	42	929.18
I-202	5/13/1996	C	971.18	45	926.18
I-202	6/3/1996	C	971.18	50	921.18
I-202	7/16/1996	C	971.18	60	911.18
I-202	8/17/1996	C	971.18	45	926.18
I-202	9/13/1996	C	971.18	41	930.18
I-202	10/28/1996	C	971.18	29	942.18
I-202	1/15/1997	C	971.18	13	958.18
I-202	4/30/1997	C	971.18	16	955.18
I-202	7/29/1997	C	971.18	25	946.18
I-202	10/20/1997	C	971.18	19	952.18
I-202	1/29/1998	C	971.18	14	957.18
I-202	5/8/1998	C	971.18	14	957.18
I-202	7/27/1998	C	971.18	14	957.18
I-202	11/5/1998	C	971.18	15	956.18
I-202	1/22/1999	C	971.18	17	954.18
I-202	5/7/1999	C	971.18	28	943.18
I-202	8/4/1999	C	971.18	46	925.18
I-202	10/12/1999	C	971.18	32	939.18
I-202	2/10/2000	C	971.18	16	955.18
I-202	5/2/2000	C	971.18	59	912.18
I-202	8/3/2000	C	971.18	65	906.18
I-202	10/20/2000	C	971.18	41	930.18
I-202	1/31/2001	C	971.18	72	899.18
I-202	5/24/2001	C	971.18	75	896.18
I-202	8/1/2001	C	971.18	58	913.18
I-202	10/29/2001	C	971.18	58	913.18
I-202	1/31/2002	C	971.18	2.3	968.88
I-202	5/14/2002	C	971.18	20.6	950.58
I-202	7/31/2002	C	971.18	39.1	932.08
I-202	10/31/2002	C	971.18	28.95	942.23

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
I-202	1/31/2003	C	971.18	18	953.18
I-202	4/30/2003	C	971.18	16.4	954.78
I-202	8/8/2003	C	971.18	27.6	943.58
I-202	10/29/2003	C	971.18	10.5	960.68
I-202	1/29/2004	C	971.18	35	936.18
I-202	4/29/2004	C	971.18	24.6	946.58
I-202	7/30/2004	C	971.18	7.6	963.58
I-202	11/2/2004	C	971.18	34	937.18
I-202	1/28/2005	C	971.18	30.55	940.63
I-202	5/6/2005	C	971.18	73	898.18
I-202	7/27/2005	C	971.18	79	892.18
I-202	10/27/2005	C	971.18	80.6	890.58
I-202	1/27/2006	C	971.18	28.5	942.68
I-202	5/4/2006	C	971.18	14.2	956.98
I-202	7/26/2006	C	971.18	22.7	948.48
I-202	10/31/2006	C	971.18	17.7	953.48
I-202	1/30/2007	C	971.18	20.5	950.68
I-202	5/2/2007	C	971.18	24.2	946.98
I-202	8/1/2007	C	971.18	23.4	947.78
I-202	10/10/2007	C	971.18	23.76	947.42
I-202	1/8/2008	C	971.18	77.08	894.1
I-202	4/14/2008	C	971.18	28.15	943.03
I-202	8/1/2008	C	971.18	42	929.18
I-202	11/17/2008	C	971.18	21.2	949.98
I-202	2/16/2009	C	971.18	13.9	957.28
I-202	5/18/2009	C	971.18	11.2	959.98
I-202	8/24/2009	C	973.24	81.4	891.84
I-202	9/21/2009	C	973.24	81.65	891.59
I-202	10/19/2009	C	973.24	81.05	892.19
I-202	11/17/2009	C	973.24	80.45	892.79
I-202	2/1/2010	C	973.24	13.9	959.34
I-202	5/3/2010	C	973.24	77.57	895.67
I-202	8/23/2010	C	973.24	80	893.24
I-202	11/29/2010	C	973.24	78.6	894.64
I-202	2/3/2011	C	973.24	72.37	900.87
I-202	5/3/2011	C	973.24	77.73	895.51
I-202	8/1/2011	C	973.24	79.9	893.34
I-202	11/1/2011	C	973.24	8.68	964.56
I-202	2/1/2012	C	972.868	12.05	960.818
I-202	5/1/2012	C	972.868	4.98	967.888
I-202	8/3/2012	C	972.868	2.78	970.088
I-202	11/1/2012	C	972.868	5.22	967.648
I-202	12/3/2012	C	972.868	8	964.868
I-202	2/5/2013	C	972.868	9.24	963.628
I-202	5/1/2013	C	972.868	7.66	965.208
I-202	8/5/2013	C	973.24	7.45	965.79
I-202	11/4/2013	C	973.24	4.8	968.44
I-203	10/25/1994	C	954.48	45.81	908.67
I-203	10/27/1994	C	954.48	45.73	908.75
I-203	11/1/1994	C	954.48	44.86	909.62
I-203	11/4/1994	C	954.48	44.45	910.03
I-203	11/8/1994	C	954.48	43.37	911.11
I-203	11/11/1994	C	954.48	43.26	911.22

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
I-203	11/15/1994	C	954.48	41.48	913
I-203	11/18/1994	C	954.48	40.39	914.09
I-203	11/21/1994	C	954.48	40.53	913.95
I-203	11/23/1994	C	954.48	40.32	914.16
I-203	11/29/1994	C	954.48	40.85	913.63
I-203	12/2/1994	C	954.48	41.67	912.81
I-203	12/9/1994	C	954.48	41.41	913.07
I-203	12/20/1994	C	954.48	40.13	914.35
I-203	12/27/1994	C	954.48	40.54	913.94
I-203	1/3/1995	C	954.48	37.31	917.17
I-203	1/10/1995	C	954.48	35.58	918.9
I-203	1/17/1995	C	954.48	34.41	920.07
I-203	1/24/1995	C	954.48	33.46	921.02
I-203	1/31/1995	C	954.43	32.8	921.63
I-203	2/7/1995	C	954.43	32.3	922.13
I-203	2/13/1995	C	954.43	31.65	922.78
I-203	2/22/1995	C	954.43	30.06	924.37
I-203	3/2/1995	C	954.43	28.81	925.62
I-203	3/10/1995	C	954.43	27.3	927.13
I-203	3/15/1995	C	954.43	26.9	927.53
I-203	4/4/1995	C	954.48	30	924.48
I-203	4/10/1995	C	954.48	31	923.48
I-203	4/17/1995	C	954.48	25	929.48
I-203	4/24/1995	C	954.48	30	924.48
I-203	5/1/1995	C	954.48	28	926.48
I-203	5/16/1995	C	954.48	24	930.48
I-203	5/22/1995	C	954.48	25	929.48
I-203	5/30/1995	C	954.48	54	900.48
I-203	6/5/1995	C	954.48	55	899.48
I-203	6/12/1995	C	954.48	59	895.48
I-203	6/19/1995	C	954.48	59	895.48
I-203	6/26/1995	C	954.48	59	895.48
I-203	7/7/1995	C	954.48	64	890.48
I-203	7/24/1995	C	954.48	28	926.48
I-203	7/28/1995	C	954.48	30	924.48
I-203	8/2/1995	C	954.48	40	914.48
I-203	8/10/1995	C	954.48	30	924.48
I-203	8/15/1995	C	954.48	30	924.48
I-203	8/23/1995	C	954.48	23	931.48
I-203	8/31/1995	C	954.48	22	932.48
I-203	9/6/1995	C	954.48	20	934.48
I-203	9/13/1995	C	954.48	20	934.48
I-203	9/22/1995	C	954.48	17	937.48
I-203	9/28/1995	C	954.48	18	936.48
I-203	10/6/1995	C	954.48	15	939.48
I-203	10/31/1995	C	954.48	15	939.48
I-203	11/30/1995	C	954.48	15	939.48
I-203	12/30/1995	C	954.48	15	939.48
I-203	1/8/1996	C	954.48	15	939.48
I-203	2/19/1996	C	954.48	16	938.48
I-203	3/11/1996	C	954.48	16	938.48
I-203	4/18/1996	C	954.48	16	938.48
I-203	5/13/1996	C	954.48	15	939.48

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
I-203	6/3/1996	C	954.48	14	940.48
I-203	7/16/1996	C	954.48	15	939.48
I-203	8/17/1996	C	954.48	41	913.48
I-203	9/13/1996	C	954.48	33	921.48
I-203	10/28/1996	C	954.48	26	928.48
I-203	1/15/1997	C	954.48	13	941.48
I-203	4/30/1997	C	954.48	15	939.48
I-203	7/29/1997	C	954.48	31	923.48
I-203	10/20/1997	C	954.48	14	940.48
I-203	1/29/1998	C	954.48	14	940.48
I-203	5/8/1998	C	954.48	14	940.48
I-203	7/27/1998	C	954.48	13	941.48
I-203	11/5/1998	C	954.48	18	936.48
I-203	1/22/1999	C	954.48	12	942.48
I-203	5/7/1999	C	954.48	29	925.48
I-203	8/4/1999	C	954.48	15	939.48
I-203	10/12/1999	C	954.48	19	935.48
I-203	2/10/2000	C	954.48	16	938.48
I-203	5/2/2000	C	954.48	12	942.48
I-203	8/3/2000	C	954.48	15	939.48
I-203	10/20/2000	C	954.48	12	942.48
I-203	1/31/2001	C	954.48	16	938.48
I-203	5/24/2001	C	954.48	43	911.48
I-203	8/1/2001	C	954.48	15	939.48
I-203	10/29/2001	C	954.48	15	939.48
I-203	2/1/2002	C	954.48	6.6	947.88
I-203	5/14/2002	C	954.48	27.7	926.78
I-203	7/31/2002	C	954.48	39.9	914.58
I-203	10/31/2002	C	954.48	30.5	923.98
I-203	1/31/2003	C	954.48	21.05	933.43
I-203	4/29/2003	C	954.48	19.1	935.38
I-203	8/8/2003	C	954.48	27.45	927.03
I-203	10/29/2003	C	954.48	20	934.48
I-203	1/29/2004	C	954.48	54.27	900.21
I-203	4/29/2004	C	954.48	56.9	897.58
I-203	7/30/2004	C	954.48	74	880.48
I-203	11/2/2004	C	954.48	60.3	894.18
I-203	1/28/2005	C	954.48	28.4	926.08
I-203	5/6/2005	C	954.48	13.5	940.98
I-203	7/27/2005	C	954.48	13.2	941.28
I-203	10/27/2005	C	954.48	30.3	924.18
I-203	1/27/2006	C	954.48	23	931.48
I-203	5/3/2006	C	954.48	23.1	931.38
I-203	7/26/2006	C	954.48	26.3	928.18
I-203	10/31/2006	C	954.48	26.4	928.08
I-203	1/30/2007	C	954.48	24.7	929.78
I-203	5/2/2007	C	954.48	34.5	919.98
I-203	8/1/2007	C	954.48	41.3	913.18
I-203	10/10/2007	C	954.48	67	887.48
I-203	1/10/2008	C	954.48	16.63	937.85
I-203	4/14/2008	C	954.48	38.1	916.38
I-203	8/4/2008	C	954.48	44.9	909.58
I-203	11/18/2008	C	954.48	34.91	919.57

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
I-203	2/17/2009	C	954.48	18.21	936.27
I-203	5/19/2009	C	954.48	47.8	906.68
I-203	8/25/2009	C	956.54	24.6	931.94
I-203	9/21/2009	C	956.54	72.55	883.99
I-203	10/19/2009	C	956.54	27.03	929.51
I-203	11/18/2009	C	956.54	26.92	929.62
I-203	2/2/2010	C	956.54	49.85	906.69
I-203	5/6/2010	C	956.54	26.58	929.96
I-203	5/2/2011	C	956.54	16.56	939.98
I-203	8/1/2011	C	956.54	32.35	924.19
I-203	11/2/2011	C	956.54	8	948.54
I-203	2/1/2012	C	956.07	8.42	947.65
I-203	5/1/2012	C	956.07	9.1	946.97
I-203	8/3/2012	C	956.07	19.65	936.42
I-203	11/1/2012	C	956.07	5.5	950.57
I-203	2/5/2013	C	956.07	3.2	952.87
I-203	5/1/2013	C	956.07	10.34	945.73
I-203	8/5/2013	C	956.54	9.68	946.86
I-203	11/4/2013	C	956.54	6.82	949.72
IA-01	5/13/2002	A	918.2	62.86	981.06
IA-01	7/31/2002	A	981.06	65.87	915.19
IA-02	5/13/2002	A	923.63	55.55	979.18
IA-02	7/31/2002	A	979.18	57.22	921.96
IA-03	5/13/2002	A	902.62	76	978.62
IA-03	7/31/2002	A	978.62	76	902.62
IA-04	5/13/2002	A	918.04	62.6	980.64
IA-04	7/31/2002	A	980.64	62.18	918.46
IA-05	5/13/2002	A	907.31	74.16	981.47
IA-05	7/31/2002	A	981.47	75	906.47
INJSB-01-X	10/25/1994	C	957.05	53.79	903.26
INJSB-01-X	10/27/1994	C	957.05	53.79	903.26
INJSB-01-X	11/1/1994	C	957.05	53.37	903.68
INJSB-01-X	11/4/1994	C	957.05	53.26	903.79
INJSB-01-X	11/8/1994	C	957.05	53.09	903.96
INJSB-01-X	11/11/1994	C	957.05	53.15	903.9
INJSB-01-X	11/15/1994	C	957.05	52.74	904.31
INJSB-01-X	11/18/1994	C	957.05	52.89	904.16
INJSB-01-X	11/21/1994	C	957.05	52.59	904.46
INJSB-01-X	11/23/1994	C	957.05	52.61	904.44
INJSB-01-X	11/29/1994	C	957.05	52.67	904.38
INJSB-01-X	12/2/1994	C	957.05	53.98	903.07
INJSB-01-X	12/9/1994	C	957.05	52.75	904.3
INJSB-01-X	12/13/1994	C	957.05	52.69	904.36
INJSB-01-X	12/20/1994	C	957.05	52.02	905.03
INJSB-01-X	12/27/1994	C	957.05	51.31	905.74
INJSB-01-X	1/3/1995	C	957.05	51.21	905.84
INJSB-01-X	1/10/1995	C	957.05	50.48	906.57
INJSB-01-X	1/17/1995	C	957.05	50.14	906.91
INJSB-01-X	1/24/1995	C	957.05	49.9	907.15
INJSB-01-X	1/31/1995	C	957.05	49.32	907.73
INJSB-01-X	2/8/1995	C	957.05	50.14	906.91
INJSB-01-X	2/13/1995	C	957.05	49.88	907.17
INJSB-01-X	2/22/1995	C	957.05	50.14	906.91

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
INJSB-01-X	3/2/1995	C	957.05	49.23	907.82
INJSB-01-X	3/10/1995	C	957.05	49.25	907.8
INJSB-01-X	3/15/1995	C	957.05	48.8	908.25
INJSB-01-X	1/31/1996	C	957.05	50.91	906.14
INJSB-01-X	2/20/1996	C	957.05	51.05	906
INJSB-01-X	3/30/1996	C	957.05	55.7	901.35
INJSB-01-X	4/29/1996	C	957.05	56.62	900.43
INJSB-01-X	5/31/1996	C	957.05	56.8	900.25
INJSB-01-X	6/28/1996	C	957.05	65.35	891.7
INJSB-01-X	7/31/1996	C	957.05	68.1	888.95
INJSB-01-X	8/30/1996	C	957.05	67.95	889.1
INJSB-01-X	9/28/1996	C	957.05	56.92	900.13
INJSB-01-X	10/30/1996	C	957.05	55.1	901.95
INJSB-01-X	1/15/1997	C	957.05	53.46	903.59
INJSB-01-X	4/30/1997	C	957.05	61	896.05
INJSB-01-X	7/29/1997	C	957.05	71.51	885.54
INJSB-01-X	10/23/1997	C	957.05	59.12	897.93
INJSB-01-X	1/30/1998	C	957.05	57.37	899.68
INJSB-01-X	5/8/1998	C	957.05	57.91	899.14
INJSB-01-X	7/29/1998	C	957.05	60	897.05
INJSB-01-X	10/29/1998	C	957.05	54.6	902.45
INJSB-01-X	1/29/1999	C	957.05	54.45	902.6
INJSB-01-X	4/28/1999	C	957.05	59.75	897.3
INJSB-01-X	8/4/1999	C	957.05	67.1	889.95
INJSB-01-X	10/12/1999	C	957.05	59.15	897.9
INJSB-01-X	2/10/2000	C	957.05	56.35	900.7
INJSB-01-X	5/2/2000	C	957.05	58.15	898.9
INJSB-01-X	8/3/2000	C	957.05	68.1	888.95
INJSB-01-X	10/25/2000	C	957.05	59.2	897.85
INJSB-01-X	1/31/2001	C	957.05	54.95	902.1
INJSB-01-X	5/24/2001	C	957.05	58	899.05
INJSB-01-X	7/31/2001	C	957.05	66.35	890.7
INJSB-01-X	10/30/2001	C	957.05	59.7	897.35
INJSB-01-X	1/31/2002	C	957.05	55.25	901.8
INJSB-01-X	5/14/2002	C	957.05	61.75	895.3
INJSB-01-X	7/31/2002	C	957.05	74.65	882.4
INJSB-01-X	10/31/2002	C	957.05	63.65	893.4
INJSB-01-X	1/31/2003	C	957.05	60.35	896.7
INJSB-01-X	4/29/2003	C	957.05	62.1	894.95
INJSB-02-X	10/25/1994	C	955.44	51.81	903.63
INJSB-02-X	10/27/1994	C	955.44	51.76	903.68
INJSB-02-X	11/1/1994	C	955.44	51.45	903.99
INJSB-02-X	11/4/1994	C	955.44	51.3	904.14
INJSB-02-X	11/8/1994	C	955.44	51.22	904.22
INJSB-02-X	11/11/1994	C	955.44	51.25	904.19
INJSB-02-X	11/15/1994	C	955.44	50.83	904.61
INJSB-02-X	11/18/1994	C	955.44	50.49	904.95
INJSB-02-X	11/21/1994	C	955.44	50.69	904.75
INJSB-02-X	11/23/1994	C	955.44	50.68	904.76
INJSB-02-X	11/29/1994	C	955.44	50.61	904.83
INJSB-02-X	12/2/1994	C	955.44	52.03	903.41
INJSB-02-X	12/9/1994	C	955.44	50.53	904.91
INJSB-02-X	12/13/1994	C	955.44	50.73	904.71

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
INJSB-02-X	12/20/1994	C	955.44	49.91	905.53
INJSB-02-X	12/27/1994	C	955.44	49.51	905.93
INJSB-02-X	1/3/1995	C	955.44	49.19	906.25
INJSB-02-X	1/10/1995	C	955.44	48.44	907
INJSB-02-X	1/17/1995	C	955.44	48.06	907.38
INJSB-02-X	1/24/1995	C	955.44	48.02	907.42
INJSB-02-X	1/31/1995	C	955.44	47.47	907.97
INJSB-02-X	2/8/1995	C	955.44	48.22	907.22
INJSB-02-X	2/13/1995	C	955.44	48.05	907.39
INJSB-02-X	2/22/1995	C	955.44	48.15	907.29
INJSB-02-X	3/2/1995	C	955.44	47.32	908.12
INJSB-02-X	3/10/1995	C	955.44	47.2	908.24
INJSB-02-X	3/15/1995	C	955.44	46.87	908.57
INJSB-02-X	1/31/1996	C	955.44	48.95	906.49
INJSB-02-X	2/20/1996	C	955.44	49.2	906.24
INJSB-02-X	3/30/1996	C	955.44	53.72	901.72
INJSB-02-X	4/29/1996	C	955.44	54.65	900.79
INJSB-02-X	5/31/1996	C	955.44	54.72	900.72
INJSB-02-X	6/28/1996	C	955.44	63.2	892.24
INJSB-02-X	7/31/1996	C	955.44	66	889.44
INJSB-02-X	8/30/1996	C	955.44	66	889.44
INJSB-02-X	9/28/1996	C	955.44	55.08	900.36
INJSB-02-X	10/30/1996	C	955.44	53.15	902.29
INJSB-02-X	1/15/1997	C	955.44	51.55	903.89
INJSB-02-X	4/30/1997	C	955.44	59.02	896.42
INJSB-02-X	7/29/1997	C	955.44	69.46	885.98
INJSB-02-X	10/23/1997	C	955.44	57.22	898.22
INJSB-02-X	1/30/1998	C	955.44	55.52	899.92
INJSB-02-X	5/8/1998	C	955.44	56.1	899.34
INJSB-02-X	7/29/1998	C	955.44	58	897.44
INJSB-02-X	10/29/1998	C	955.44	52.8	902.64
INJSB-02-X	1/29/1999	C	955.44	52.67	902.77
INJSB-02-X	4/28/1999	C	955.44	58	897.44
INJSB-02-X	8/4/1999	C	955.44	65.2	890.24
INJSB-02-X	10/12/1999	C	955.44	57.35	898.09
INJSB-02-X	2/10/2000	C	955.44	54.55	900.89
INJSB-02-X	5/2/2000	C	955.44	56.25	899.19
INJSB-02-X	8/3/2000	C	955.44	66.17	889.27
INJSB-02-X	10/25/2000	C	955.44	57.5	897.94
INJSB-02-X	1/31/2001	C	955.44	53.22	902.22
INJSB-02-X	5/24/2001	C	955.44	56.45	898.99
INJSB-02-X	7/31/2001	C	955.44	64.6	890.84
INJSB-02-X	10/30/2001	C	955.44	58	897.44
INJSB-02-X	1/31/2002	C	955.44	57	898.44
INJSB-02-X	5/14/2002	C	955.44	60.7	894.74
INJSB-02-X	7/31/2002	C	955.44	72.92	882.52
INJSB-02-X	10/31/2002	C	955.44	62.04	893.4
INJSB-02-X	1/31/2003	C	955.44	58.65	896.79
INJSB-02-X	4/29/2003	C	955.44	60.42	895.02
INJSB-05	10/25/1994	C	962.36	60.05	902.31
INJSB-05	10/27/1994	C	962.36	60.09	902.27
INJSB-05	11/1/1994	C	962.36	59.58	902.78
INJSB-05	11/4/1994	C	962.36	59.35	903.01

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
INJSB-05	11/8/1994	C	962.36	59.36	903
INJSB-05	11/11/1994	C	962.36	59.37	902.99
INJSB-05	11/15/1994	C	962.36	59.18	903.18
INJSB-05	11/18/1994	C	962.36	58.68	903.68
INJSB-05	11/21/1994	C	962.36	58.93	903.43
INJSB-05	11/23/1994	C	962.36	58.61	903.75
INJSB-05	11/29/1994	C	962.36	58.85	903.51
INJSB-05	12/2/1994	C	962.36	60.57	901.79
INJSB-05	12/9/1994	C	962.36	58.81	903.55
INJSB-05	12/13/1994	C	962.36	59.13	903.23
INJSB-05	12/20/1994	C	962.36	58.2	904.16
INJSB-05	1/3/1995	C	962.36	57.51	904.85
INJSB-05	1/10/1995	C	962.36	56.77	905.59
INJSB-05	1/17/1995	C	962.36	56.35	906.01
INJSB-05	1/24/1995	C	962.36	56.22	906.14
INJSB-05	2/8/1995	C	962.36	56.41	905.95
INJSB-05	2/13/1995	C	962.36	56.27	906.09
INJSB-05	2/22/1995	C	962.36	56.61	905.75
INJSB-05	3/2/1995	C	962.36	55.68	906.68
INJSB-05	3/10/1995	C	962.36	55.53	906.83
INJSB-05	3/15/1995	C	962.36	55.18	907.18
INJSB-05	1/31/1996	C	962.36	57.1	905.26
INJSB-05	2/20/1996	C	962.36	57.22	905.14
INJSB-05	3/30/1996	C	962.36	61.95	900.41
INJSB-05	4/29/1996	C	962.36	62.92	899.44
INJSB-05	5/31/1996	C	962.36	63.08	899.28
INJSB-05	6/28/1996	C	962.36	71.93	890.43
INJSB-05	7/31/1996	C	962.36	74.75	887.61
INJSB-05	8/30/1996	C	962.36	74.02	888.34
INJSB-05	9/28/1996	C	962.36	63.15	899.21
INJSB-05	10/30/1996	C	962.36	61.26	901.1
INJSB-05	1/15/1997	C	962.36	59.68	902.68
INJSB-05	4/30/1997	C	962.36	67.61	894.75
INJSB-05	7/29/1997	C	962.36	78.22	884.14
INJSB-05	10/23/1997	C	962.36	65.5	896.86
INJSB-05	1/30/1998	C	962.36	63.42	898.94
INJSB-05	5/8/1998	C	962.36	64.33	898.03
INJSB-05	7/29/1998	C	962.36	66.52	895.84
INJSB-05	10/29/1998	C	962.36	60.55	901.81
INJSB-05	1/29/1999	C	962.36	60.55	901.81
INJSB-05	4/28/1999	C	962.36	66.1	896.26
INJSB-05	8/4/1999	C	962.36	73.7	888.66
INJSB-05	10/12/1999	C	962.36	65.57	896.79
INJSB-05	2/10/2000	C	962.36	62.5	899.86
INJSB-05	5/2/2000	C	962.36	64.6	897.76
INJSB-05	8/3/2000	C	962.36	75	887.36
INJSB-05	10/25/2000	C	962.36	65.5	896.86
INJSB-05	1/31/2001	C	962.36	61.1	901.26
INJSB-05	5/24/2001	C	962.36	63.9	898.46
INJSB-05	7/31/2001	C	962.36	73.4	888.96
INJSB-05	10/30/2001	C	962.36	66.05	896.31
INJSB-05	1/31/2002	C	962.36	63.25	899.11
INJSB-05	5/14/2002	C	962.36	67.67	894.69

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
INJSB-05	7/31/2002	C	962.36	81.35	881.01
INJSB-05	10/31/2002	C	962.36	70.07	892.29
INJSB-05	1/31/2003	C	962.36	66.3	896.06
INJSB-05	4/29/2003	C	962.36	68.4	893.96
INJSB-05	8/8/2003	C	962.36	75.7	886.66
INJSB-05	10/29/2003	C	962.36	71.3	891.06
INJSB-05	1/28/2004	C	962.36	66.45	895.91
INJSB-05	4/29/2004	C	962.36	69.65	892.71
INJSB-05	7/30/2004	C	962.36	82.87	879.49
INJSB-05	11/2/2004	C	962.36	73.47	888.89
INJSB-05	1/28/2005	C	962.36	67.15	895.21
INJSB-05	5/6/2005	C	962.36	67.55	894.81
INJSB-05	7/27/2005	C	962.36	76.25	886.11
INJSB-05	10/27/2005	C	962.36	69.85	892.51
INJSB-05	1/27/2006	C	962.36	67.35	895.01
INJSB-05	5/3/2006	C	962.36	70.2	892.16
INJSB-05	7/26/2006	C	962.36	76.1	886.26
INJSB-05	10/31/2006	C	962.36	71.35	891.01
INJSB-05	1/30/2007	C	962.36	69.85	892.51
INJSB-05	5/2/2007	C	962.36	71.4	890.96
INJSB-05	8/1/2007	C	962.36	80.45	881.91
INJSB-05	10/10/2007	C	962.36	78.73	883.63
INJSB-05	1/9/2008	C	962.36	69.74	892.62
INJSB-05	4/14/2008	C	962.36	72.31	890.05
INJSB-05	8/4/2008	C	962.36	79.6	882.76
INJSB-05	11/17/2008	C	962.36	75.08	887.28
INJSB-05	2/19/2009	C	962.36	70.74	891.62
INJSB-05	5/19/2009	C	962.36	72.7	889.66
INJSB-05	8/25/2009	C	964.42	78.8	885.62
INJSB-05	9/21/2009	C	964.42	80.2	884.22
INJSB-05	10/19/2009	C	964.42	78.6	885.82
INJSB-05	11/18/2009	C	964.42	75.93	888.49
INJSB-05	2/4/2010	C	964.42	76.62	887.8
INJSB-05	5/6/2010	C	964.42	71.35	893.07
INJSB-05	8/24/2010	C	964.42	76.82	887.6
INJSB-05	11/29/2010	C	964.42	71.2	893.22
INJSB-05	2/3/2011	C	964.42	68.55	895.87
INJSB-05	5/2/2011	C	964.42	73.48	890.94
INJSB-05	8/1/2011	C	964.42	80.3	884.12
INJSB-05	11/2/2011	C	964.42		
INJSB-05	2/1/2012	C	963.886	73.95	889.936
INJSB-05	8/3/2012	C	963.886	81.51	882.376
IO-01	2/16/1990	A	934.35	32.59	901.76
IO-01	2/23/1990	A	934.35	33.49	900.86
IO-01	3/1/1990	A	935.34	35.03	900.31
IO-01	3/9/1990	A	934.35	34.54	899.81
IO-01	3/16/1990	A	934.35	33.29	901.06
IO-01	3/21/1990	A	934.35	34.64	899.71
IO-01	4/3/1990	A	935.01	33.8	901.21
IO-01	4/17/1990	A	935.01	33.55	901.46
IO-01	5/22/1990	A	935.01	35.6	899.41
IO-01	6/19/1990	A	935.01	36.45	898.56
IO-01	7/17/1990	A	935.01	38	897.01

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-01	8/16/1990	A	935.01	37.5	897.51
IO-01	9/22/1990	A	935.01	35.4	899.61
IO-01	10/17/1990	A	935.01	34.85	900.16
IO-01	11/30/1990	A	935.01	35.1	899.91
IO-01	12/14/1990	A	935.01	38.75	896.26
IO-01	1/23/1991	A	935.01	34.3	900.71
IO-01	2/16/1991	A	935.01	33	902.01
IO-01	3/17/1991	A	935.01	33.65	901.36
IO-01	4/22/1991	A	935.01	34.1	900.91
IO-01	5/19/1991	A	935.01	34.4	900.61
IO-01	6/19/1991	A	935.01	36.4	898.61
IO-01	7/21/1991	A	935.01	39.6	895.41
IO-01	8/18/1991	A	935.01	39.95	895.06
IO-01	9/24/1991	A	935.01	39.6	895.41
IO-01	10/31/1991	A	935.01	41.75	893.26
IO-01	11/17/1991	A	935.01	41.3	893.71
IO-01	2/5/1992	A	935.01	36.3	898.71
IO-01	2/21/1992	A	935.01	4.44	930.57
IO-01	3/30/1992	A	934.35	34.8	899.55
IO-01	5/15/1992	A	934.35	33.3	901.05
IO-01	5/15/1992	A	934.35	33.3	901.05
IO-01	7/22/1992	A	934.35	36.8	897.55
IO-01	7/31/1992	A	934.35	37.1	897.25
IO-01	8/24/1992	A	934.35	37.4	896.95
IO-01	10/2/1992	A	934.35	36.1	898.25
IO-01	10/27/1992	A	934.35	35.6	898.75
IO-01	11/23/1992	A	934.35	33.9	900.45
IO-01	1/5/1993	A	934.35	33	901.35
IO-01	2/4/1993	A	934.35	31.4	902.95
IO-01	3/11/1993	A	934.35	30	904.35
IO-01	4/15/1993	A	934.35	30.1	904.25
IO-01	5/18/1993	A	934.35	32.2	902.15
IO-01	6/11/1993	A	934.35	31.5	902.85
IO-01	7/13/1993	A	934.35	32.5	901.85
IO-01	8/9/1993	A	934.35	33.3	901.05
IO-01	9/24/1993	A	934.35	33	901.35
IO-01	10/28/1993	A	934.35	32.5	901.85
IO-01	11/23/1993	A	934.35	32	902.35
IO-01	12/14/1993	A	934.35	31.7	902.65
IO-01	1/26/1994	A	934.35	31	903.35
IO-01	2/25/1994	A	934.35	31.1	903.25
IO-01	3/21/1994	A	934.35	31.5	902.85
IO-01	3/24/1994	A	934.35	31.5	902.85
IO-01	3/30/1994	A	934.35	31.5	902.85
IO-01	4/13/1994	A	934.35	31.9	902.45
IO-01	4/27/1994	A	934.35	32.5	901.85
IO-01	5/25/1994	A	934.35	32	902.35
IO-01	6/2/1994	A	934.35	33	901.35
IO-01	7/21/1994	A	934.35	37.1	897.25
IO-01	8/25/1994	A	934.35	39.4	894.95
IO-01	9/23/1994	A	934.35	38.9	895.45
IO-01	10/12/1994	A	934.35	38.1	896.25
IO-01	11/18/1994	A	934.35	35.8	898.55

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-01	12/30/1994	A	934.35	33.9	900.45
IO-01	1/31/1995	A	934.35	32.6	901.75
IO-01	2/24/1995	A	934.35	32.3	902.05
IO-01	3/31/1995	A	934.35	32.3	902.05
IO-01	4/21/1995	A	934.45	33.1	901.35
IO-01	5/26/1995	A	934.45	32.6	901.85
IO-01	6/23/1995	A	934.45	33.32	901.13
IO-01	7/27/1995	A	934.45	36.18	898.27
IO-01	8/30/1995	A	934.45	37.37	897.08
IO-01	9/29/1995	A	934.45	36.56	897.89
IO-01	10/27/1995	A	934.45	34.15	900.3
IO-01	11/29/1995	A	934.45	32.82	901.63
IO-01	12/30/1995	A	934.45	32.35	902.1
IO-01	1/31/1996	A	934.45	31.8	902.65
IO-01	2/20/1996	A	934.45	31.71	902.74
IO-01	3/30/1996	A	934.45	32.05	902.4
IO-01	4/29/1996	A	934.45	33.11	901.34
IO-01	5/31/1996	A	934.45	33.85	900.6
IO-01	6/28/1996	A	934.45	34.9	899.55
IO-01	7/31/1996	A	934.45	37.96	896.49
IO-01	8/30/1996	A	934.45	39.66	894.79
IO-01	9/28/1996	A	934.45	38.01	896.44
IO-01	10/30/1996	A	934.45	36.67	897.78
IO-01	1/16/1997	A	934.45	33.56	900.89
IO-01	4/29/1997	A	934.45	34.19	900.26
IO-01	7/29/1997	A	934.45	39.74	894.71
IO-01	1/30/1998	A	934.45	34.82	899.63
IO-01	5/8/1998	A	934.45	34.3	900.15
IO-01	7/30/1998	A	934.45	36.35	898.1
IO-01	10/29/1998	A	934.45	35.15	899.3
IO-01	1/29/1999	A	934.45	33.58	900.87
IO-01	4/29/1999	A	934.45	34.1	900.35
IO-01	8/5/1999	A	934.45	38.73	895.72
IO-01	10/13/1999	A	934.45	39.5	894.95
IO-01	2/9/2000	A	934.45	34.45	900
IO-01	5/3/2000	A	934.45	34.45	900
IO-01	8/3/2000	A	934.45	40.35	894.1
IO-01	10/25/2000	A	934.45	41.65	892.8
IO-01	2/1/2001	A	934.45	35.67	898.78
IO-01	5/25/2001	A	934.45	36.17	898.28
IO-01	8/1/2001	A	934.45	40.57	893.88
IO-01	10/31/2001	A	934.45	41.1	893.35
IO-01	2/1/2002	A	934.45	37.75	896.7
IO-01	5/14/2002	A	934.45	37.9	896.55
IO-01	8/1/2002	A	934.45	44.6	889.85
IO-01	11/1/2002	A	934.45	43.85	890.6
IO-01	1/31/2003	A	934.45	39.15	895.3
IO-01	4/29/2003	A	934.45	38.1	896.35
IO-01	8/8/2003	A	934.45	43.3	891.15
IO-01	10/30/2003	A	934.45	44.33	863.15
IO-01	1/29/2004	A	934.45	38.87	895.58
IO-01	4/30/2004	A	934.45	38.1	896.35
IO-01	7/30/2004	A	934.45	47.95	886.5

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-01	11/2/2004	A	934.45	44.55	889.9
IO-01	1/28/2005	A	934.45	39.1	895.35
IO-01	5/6/2005	A	934.45	37.2	897.25
IO-01	7/27/2005	A	934.45	40.1	894.35
IO-01	10/28/2005	A	934.45	40.65	893.8
IO-01	1/27/2006	A	934.45	38.15	896.3
IO-01	5/4/2006	A	934.45	37.85	896.6
IO-01	7/26/2006	A	934.45	46.15	888.3
IO-01	10/31/2006	A	934.45	39.65	894.8
IO-01	1/30/2007	A	934.45	35.45	899
IO-01	5/2/2007	A	934.45	36.5	897.95
IO-01	8/1/2007	A	934.45	47.2	887.25
IO-01	1/11/2008	A	934.45	43.35	891.1
IO-01	4/14/2008	A	934.45	38.88	895.57
IO-01	8/1/2008	A	934.45	41.65	892.8
IO-01	11/17/2008	A	934.45	42.6	891.85
IO-01	2/16/2009	A	934.45	39.35	895.1
IO-01	5/18/2009	A	934.45	39.03	895.42
IO-01	8/24/2009	A	936.51	44.2	892.31
IO-01	11/17/2009	A	936.51	43.8	892.71
IO-01	2/1/2010	A	936.51	40.46	896.05
IO-01	5/7/2010	A	936.51	35.4	901.11
IO-01	8/23/2010	A	936.51	41.55	894.96
IO-01	11/29/2010	A	936.51	41.85	894.66
IO-01	2/3/2011	A	936.51	37.4	899.11
IO-01	5/3/2011	A	936.51	37.92	898.59
IO-01	8/1/2011	A	936.51	43.22	893.29
IO-01	11/2/2011	A	936.51	39.8	896.71
IO-01	2/1/2012	A	935.903	40.9	895.003
IO-01	5/1/2012	A	935.903	41.76	894.143
IO-01	11/1/2012	A	935.903	44.24	891.663
IO-01	2/4/2013	A	935.903	40.71	895.193
IO-01	5/1/2013	A	935.903	40.31	895.593
IO-01	8/5/2013	A	936.51	45.8	890.71
IO-01	11/4/2013	A	936.51	43.7	892.81
IO-02	3/30/1992	A	930.51	30.5	900.01
IO-02	5/15/1992	A	930.51	26.8	903.71
IO-02	7/22/1992	A	930.51	31.2	899.31
IO-02	7/31/1992	A	930.51	31.8	898.71
IO-02	8/24/1992	A	930.51	31.45	899.06
IO-02	10/2/1992	A	930.51	31.6	898.91
IO-02	10/27/1992	A	930.51	31.2	899.31
IO-02	11/23/1992	A	930.51	29	901.51
IO-02	1/5/1993	A	930.51	28	902.51
IO-02	2/4/1993	A	930.51	26.4	904.11
IO-02	3/11/1993	A	930.51	24.95	905.56
IO-02	4/15/1993	A	930.51	25.2	905.31
IO-02	5/18/1993	A	930.51	27.7	902.81
IO-02	6/11/1993	A	930.51	26.4	904.11
IO-02	7/13/1993	A	930.51	26.5	904.01
IO-02	8/9/1993	A	930.51	27.5	903.01
IO-02	9/24/1993	A	930.51	27.5	903.01
IO-02	10/28/1993	A	930.51	27.4	903.11

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-02	11/23/1993	A	930.51	26.9	903.61
IO-02	12/14/1993	A	930.51	26.9	903.61
IO-02	1/26/1994	A	930.51	25.6	904.91
IO-02	2/25/1994	A	930.51	26	904.51
IO-02	3/21/1994	A	930.51	26.4	904.11
IO-02	3/24/1994	A	930.51	26.4	904.11
IO-02	3/30/1994	A	930.51	26.4	904.11
IO-02	4/13/1994	A	930.51	26.7	903.81
IO-02	4/27/1994	A	930.51	26.9	903.61
IO-02	5/25/1994	A	930.51	28.2	902.31
IO-02	6/2/1994	A	930.51	28	902.51
IO-02	7/21/1994	A	930.51	31.7	898.81
IO-02	8/25/1994	A	930.51	34	896.51
IO-02	9/23/1994	A	930.51	34.3	896.21
IO-02	10/12/1994	A	930.51	33.7	896.81
IO-02	11/18/1994	A	930.51	31.3	899.21
IO-02	12/30/1994	A	930.51	29.3	901.21
IO-02	1/31/1995	A	930.51	27.9	902.61
IO-02	2/24/1995	A	930.51	27.6	902.91
IO-02	3/31/1995	A	930.51	27.9	902.61
IO-02	4/21/1995	A	930.51	28.5	902.01
IO-02	5/26/1995	A	930.51	28.1	902.41
IO-02	6/23/1995	A	930.51	28.67	901.84
IO-02	7/27/1995	A	930.51	31	899.51
IO-02	8/30/1995	A	930.51	32.57	897.94
IO-02	9/29/1995	A	930.51	32.11	898.4
IO-02	10/27/1995	A	930.51	30.36	900.15
IO-02	11/29/1995	A	930.51	28.82	901.69
IO-02	12/30/1995	A	930.51	28.35	902.16
IO-02	1/31/1996	A	930.51	27.55	902.96
IO-02	2/20/1996	A	930.51	27.49	903.02
IO-02	3/30/1996	A	930.51	27.95	902.56
IO-02	4/29/1996	A	930.51	29.08	901.43
IO-02	5/31/1996	A	930.51	29.7	900.81
IO-02	6/28/1996	A	930.51	31	899.51
IO-02	7/31/1996	A	930.51	33.3	897.21
IO-02	8/30/1996	A	930.51	34.63	895.88
IO-02	9/28/1996	A	930.51	33.28	897.23
IO-02	10/30/1996	A	930.51	32.18	898.33
IO-02	1/16/1997	A	930.51	29.22	901.29
IO-02	4/29/1997	A	930.51	29.7	900.81
IO-02	7/29/1997	A	930.51	34.36	896.15
IO-02	1/30/1998	A	930.51	30.2	900.31
IO-02	5/8/1998	A	930.51	29.9	900.61
IO-02	7/30/1998	A	930.51	31.9	898.61
IO-02	10/29/1998	A	930.51	30.9	899.61
IO-02	1/29/1999	A	930.51	29.45	901.06
IO-02	4/29/1999	A	930.51	30	900.51
IO-02	8/5/1999	A	930.51	34.2	896.31
IO-02	10/13/1999	A	930.51	34.4	896.11
IO-02	2/9/2000	A	930.51	30.2	900.31
IO-02	5/3/2000	A	930.51	30.15	900.36
IO-02	8/3/2000	A	930.51	35.75	894.76

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-02	10/25/2000	A	930.51	35.8	894.71
IO-02	2/1/2001	A	930.51	31.5	899.01
IO-02	5/25/2001	A	930.51	32.17	898.34
IO-02	8/1/2001	A	930.51	35.9	894.61
IO-02	10/31/2001	A	930.51	36.75	893.76
IO-02	2/1/2002	A	930.51	33.75	896.76
IO-02	5/14/2002	A	930.51	33.65	896.86
IO-02	8/1/2002	A	930.51	39.15	891.36
IO-02	11/1/2002	A	930.51	38.65	891.86
IO-02	1/31/2003	A	930.51	34.5	896.01
IO-02	4/30/2003	A	930.51	33.57	896.94
IO-02	8/8/2003	A	930.51	37.3	893.21
IO-02	10/30/2003	A	930.51	38.85	886.18
IO-02	1/29/2004	A	930.51	34.05	896.46
IO-02	4/30/2004	A	930.51	33.35	897.16
IO-02	11/2/2004	A	930.51	38.83	891.68
IO-02	1/28/2005	A	930.51	34.4	896.11
IO-02	5/6/2005	A	930.51	32.4	898.11
IO-02	7/27/2005	A	930.51	34.85	895.66
IO-02	10/28/2005	A	930.51	36	894.51
IO-02	1/27/2006	A	930.51	33.85	896.66
IO-02	5/4/2006	A	930.51	33.85	896.66
IO-02	7/26/2006	A	930.51	41.35	889.16
IO-02	10/31/2006	A	930.51	36	894.51
IO-02	1/30/2007	A	930.51	30.4	900.11
IO-02	5/2/2007	A	930.51	32.75	897.76
IO-02	8/1/2007	A	930.51	37.35	893.16
IO-02	10/11/2007	A	930.51	38.32	892.19
IO-02	1/7/2008	A	930.51	38.8	891.71
IO-02	4/14/2008	A	930.51	33.48	897.03
IO-02	8/1/2008	A	930.51	34.9	895.61
IO-02	11/17/2008	A	930.51	36.13	894.38
IO-02	2/16/2009	A	930.51	33.68	896.83
IO-02	5/18/2009	A	930.51	33.4	897.11
IO-02	8/24/2009	A	932.57	36.92	895.65
IO-02	11/17/2009	A	932.57	37.24	895.33
IO-02	2/1/2010	A	932.57	34.85	897.72
IO-02	5/7/2010	A	932.57	21.35	911.22
IO-02	8/23/2010	A	932.57	35.9	896.67
IO-02	11/29/2010	A	932.57	36.4	896.17
IO-02	2/3/2011	A	932.57	33.81	898.76
IO-02	5/3/2011	A	932.57	32.8	899.77
IO-02	8/1/2011	A	932.57	36.83	895.74
IO-02	11/2/2011	A	932.57	16.86	915.71
IO-02	2/1/2012	A	932.042	35.05	896.992
IO-02	5/1/2012	A	932.042	35.99	896.052
IO-02	8/1/2012	A	932.042	36.28	895.762
IO-02	11/1/2012	A	932.042	37.09	894.952
IO-02	2/4/2013	A	932.042	34.65	897.392
IO-02	5/1/2013	A	932.042	34.22	897.822
IO-02	8/5/2013	A	932.57	36.93	895.64
IO-02	11/4/2013	A	932.57	35.7	896.87
IO-04	2/16/1990	A	938.12	38.89	899.23

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-04	2/23/1990	A	938.12	39.49	898.63
IO-04	3/1/1990	A	938.12	40.09	898.03
IO-04	3/9/1990	A	938.12	40.59	897.53
IO-04	3/16/1990	A	938.93	40.85	898.08
IO-04	3/21/1990	A	938.93	41.8	897.13
IO-04	4/3/1990	A	938.93	41.65	897.28
IO-04	4/17/1990	A	938.93	41.1	897.83
IO-04	5/22/1990	A	938.93	42.55	896.38
IO-04	6/19/1990	A	938.93	43.7	895.23
IO-04	7/17/1990	A	938.93	45.6	893.33
IO-04	8/16/1990	A	938.93	42	896.93
IO-04	9/22/1990	A	938.93	39.8	899.13
IO-04	10/17/1990	A	938.93	41.05	897.88
IO-04	11/25/1990	A	938.93	39.9	899.03
IO-04	12/14/1990	A	938.93	39	899.93
IO-04	1/23/1991	A	938.93	40	898.93
IO-04	2/16/1991	A	938.93	39.1	899.83
IO-04	3/17/1991	A	938.93	39.65	899.28
IO-04	4/22/1991	A	938.93	40.7	898.23
IO-04	5/19/1991	A	938.93	40.55	898.38
IO-04	6/19/1991	A	938.93	44.4	894.53
IO-04	7/21/1991	A	938.93	48.05	890.88
IO-04	8/18/1991	A	938.93	49.15	889.78
IO-04	9/24/1991	A	938.93	47.2	891.73
IO-04	10/31/1991	A	938.93	47.1	891.83
IO-04	11/17/1991	A	938.93	46.3	892.63
IO-04	2/5/1992	A	938.93	41.2	897.73
IO-04	2/21/1992	A	938.93	38.17	900.76
IO-04	3/30/1992	A	938.12	39.6	898.52
IO-04	5/14/1992	A	938.12	40	898.12
IO-04	7/22/1992	A	938.12	44	894.12
IO-04	7/31/1992	A	938.12	44.4	893.72
IO-04	8/24/1992	A	938.12	43.8	894.32
IO-04	10/2/1992	A	938.12	41.8	896.32
IO-04	10/27/1992	A	938.12	41	897.12
IO-04	11/23/1992	A	938.12	39.3	898.82
IO-04	1/29/1993	A	938.12	36.2	901.92
IO-04	2/4/1993	A	938.12	36.1	902.02
IO-04	3/11/1993	A	938.12	34.8	903.32
IO-04	4/15/1993	A	938.12	36	902.12
IO-04	5/18/1993	A	938.12	38.6	899.52
IO-04	6/11/1993	A	938.12	38.1	900.02
IO-04	7/13/1993	A	938.12	39.7	898.42
IO-04	8/9/1993	A	938.12	39.6	898.52
IO-04	9/24/1993	A	938.12	38.6	899.52
IO-04	10/28/1993	A	938.12	38.5	899.62
IO-04	11/23/1993	A	938.12	38	900.12
IO-04	12/14/1993	A	938.12	37.8	900.32
IO-04	1/26/1994	A	938.12	37.7	900.42
IO-04	2/25/1994	A	938.12	37.6	900.52
IO-04	3/4/1994	A	938.12	37.9	900.22
IO-04	3/21/1994	A	938.12	38.2	899.92
IO-04	3/30/1994	A	938.12	37.8	900.32

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-04	4/13/1994	A	938.12	38.7	899.42
IO-04	4/27/1994	A	938.12	39.6	898.52
IO-04	5/25/1994	A	938.12	39.9	898.22
IO-04	6/2/1994	A	938.12	39.7	898.42
IO-04	7/21/1994	A	938.12	45.8	892.32
IO-04	8/25/1994	A	938.12	47.7	890.42
IO-04	9/23/1994	A	938.12	46.1	892.02
IO-04	10/12/1994	A	938.12	44.6	893.52
IO-04	11/18/1994	A	938.12	41.8	896.32
IO-04	12/30/1994	A	938.12	39.8	898.32
IO-04	1/31/1995	A	938.12	38.4	899.72
IO-04	2/24/1995	A	938.12	38.6	899.52
IO-04	3/31/1995	A	938.12	39.1	899.02
IO-04	4/21/1995	A	938.12	39.5	898.62
IO-04	5/26/1995	A	938.12	39.4	898.72
IO-04	6/23/1995	A	938.12	41	897.12
IO-04	7/27/1995	A	938.12	45.47	892.65
IO-04	8/30/1995	A	938.12	44.82	893.3
IO-04	9/29/1995	A	938.12	43.36	894.76
IO-04	10/27/1995	A	938.12	41.85	896.27
IO-04	11/29/1995	A	938.12	39.85	898.27
IO-04	12/30/1995	A	938.12	39.46	898.66
IO-04	1/31/1996	A	938.12	38.85	899.27
IO-04	2/20/1996	A	938.12	38.72	899.4
IO-04	3/30/1996	A	938.12	39.65	898.47
IO-04	4/29/1996	A	938.12	39.7	898.42
IO-04	5/31/1996	A	938.12	40.1	898.02
IO-04	6/28/1996	A	938.12	43.31	894.81
IO-04	7/31/1996	A	938.12	46.94	891.18
IO-04	8/30/1996	A	938.12	47.85	890.27
IO-04	9/28/1996	A	938.12	44.85	893.27
IO-04	10/30/1996	A	938.12	43.2	894.92
IO-04	1/16/1997	A	938.12	39.45	898.67
IO-04	4/29/1997	A	938.12	41.29	896.83
IO-04	7/29/1997	A	938.12	48.89	889.23
IO-04	1/30/1998	A	938.12	41.35	896.77
IO-04	5/8/1998	A	938.12	40.22	897.9
IO-04	7/30/1998	A	938.12	43.25	894.87
IO-04	10/29/1998	A	938.12	41.2	896.92
IO-04	1/29/1999	A	938.12	39.67	898.45
IO-04	4/29/1999	A	938.12	39.7	898.42
IO-04	8/5/1999	A	938.12	46.52	891.6
IO-04	10/13/1999	A	938.12	46.6	891.52
IO-04	2/9/2000	A	938.12	39.9	898.22
IO-04	5/3/2000	A	938.12	41.07	897.05
IO-04	8/3/2000	A	938.12	48.77	889.35
IO-04	10/25/2000	A	938.12	48	890.12
IO-04	2/1/2001	A	938.12	41.25	896.87
IO-04	5/25/2001	A	938.12	42.75	895.37
IO-04	8/1/2001	A	938.12	49.25	888.87
IO-04	10/31/2001	A	938.12	47.65	890.47
IO-04	1/31/2002	A	938.12	43.45	894.67
IO-04	5/14/2002	A	938.12	45.1	893.02

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-04	8/1/2002	A	938.12	52.2	885.92
IO-04	11/1/2002	A	938.12	51.1	887.02
IO-04	1/31/2003	A	938.12	45.35	892.77
IO-04	4/30/2003	A	938.12	44.9	893.22
IO-04	8/8/2003	A	938.12	51.4	886.72
IO-04	10/30/2003	A	938.12	50.55	887.57
IO-04	1/29/2004	A	938.12	44.93	893.19
IO-04	4/30/2004	A	938.12	44.55	893.57
IO-04	7/30/2004	A	938.12	54	884.12
IO-04	11/2/2004	A	938.12	50.8	887.32
IO-04	1/28/2005	A	938.12	44.1	894.02
IO-04	5/6/2005	A	938.12	43.57	894.55
IO-04	7/27/2005	A	938.12	47.8	890.32
IO-04	10/28/2005	A	938.12	46.7	891.42
IO-04	1/27/2006	A	938.12	43.75	894.37
IO-04	5/4/2006	A	938.12	43.65	894.47
IO-04	7/26/2006	A	938.12	52.8	885.32
IO-04	10/31/2006	A	938.12	48.2	889.92
IO-04	1/30/2007	A	938.12	44.35	893.77
IO-04	5/2/2007	A	938.12	46.75	891.37
IO-04	8/1/2007	A	938.12	53.2	884.92
IO-04	8/4/2008	A	938.12	51	887.12
IO-04	11/17/2008	A	938.12	50.19	887.93
IO-04	2/16/2009	A	932.12	46.02	886.1
IO-04	5/18/2009	A	932.12	46.5	885.62
IO-04	8/24/2009	A	940.18	54.75	885.43
IO-04	11/17/2009	A	940.18	52.3	887.88
IO-04	2/1/2010	A	940.18	46.84	893.34
IO-04	8/23/2010	A	940.18	50.91	889.27
IO-04	11/29/2010	A	940.18	48.89	891.29
IO-04	2/3/2011	A	940.18	45.47	894.71
IO-04	11/2/2011	A	940.18		
IO-04	2/1/2012	A	939.673	48.54	891.133
IO-04	5/1/2012	A	939.673	48.95	890.723
IO-04	8/1/2012	A	939.673	55.73	883.943
IO-04	11/1/2012	A	939.673	55.08	884.593
IO-04	2/4/2013	A	939.673	48.58	891.093
IO-04	5/1/2013	A	939.673	48.02	891.653
IO-04	8/5/2013	A	940.18	57.43	882.75
IO-04	11/4/2013	A	940.18	56.15	884.03
IO-05	3/30/1992	A	934.82	33.45	901.37
IO-05	5/14/1992	A	934.82	33.5	901.32
IO-05	7/22/1992	A	934.82	35.6	899.22
IO-05	7/31/1992	A	934.82	35.7	899.12
IO-05	8/24/1992	A	934.82	37.3	897.52
IO-05	10/2/1992	A	934.82	35.1	899.72
IO-05	10/27/1992	A	934.82	34.7	900.12
IO-05	11/23/1992	A	934.82	33.5	901.32
IO-05	1/8/1993	A	934.82	35	899.82
IO-05	2/4/1993	A	934.82	31.4	903.42
IO-05	3/11/1993	A	934.82	30.15	904.67
IO-05	4/15/1993	A	934.82	31.4	903.42
IO-05	5/18/1993	A	934.82	33.4	901.42

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-05	6/11/1993	A	934.82	32.5	902.32
IO-05	7/13/1993	A	934.82	33.6	901.22
IO-05	8/9/1993	A	934.82	33.8	901.02
IO-05	9/24/1993	A	934.82	33.6	901.22
IO-05	10/28/1993	A	934.82	33.7	901.12
IO-05	11/23/1993	A	934.82	33.5	901.32
IO-05	12/14/1993	A	934.82	33.3	901.52
IO-05	1/26/1994	A	934.82	32.7	902.12
IO-05	2/25/1994	A	934.82	33	901.82
IO-05	3/4/1994	A	934.82	33.4	901.42
IO-05	3/21/1994	A	934.82	33.4	901.42
IO-05	3/30/1994	A	934.82	33.3	901.52
IO-05	4/13/1994	A	934.82	33.7	901.12
IO-05	4/27/1994	A	934.82	34	900.82
IO-05	5/25/1994	A	934.82	34.9	899.92
IO-05	6/2/1994	A	934.82	34.4	900.42
IO-05	7/21/1994	A	934.82	37.6	897.22
IO-05	8/25/1994	A	934.82	38.9	895.92
IO-05	9/23/1994	A	934.82	38.9	895.92
IO-05	10/12/1994	A	934.82	38.3	896.52
IO-05	11/18/1994	A	934.82	36.4	898.42
IO-05	12/30/1994	A	934.82	34.6	900.22
IO-05	1/31/1995	A	934.82	33.8	901.02
IO-05	2/24/1995	A	934.82	33.4	901.42
IO-05	3/31/1995	A	934.82	34	900.82
IO-05	4/21/1995	A	934.82	34.7	900.12
IO-05	5/26/1995	A	934.82	34.3	900.52
IO-05	6/23/1995	A	934.82	34.77	900.05
IO-05	7/27/1995	A	934.82	37.06	897.76
IO-05	8/30/1995	A	934.82	38.13	896.69
IO-05	9/29/1995	A	934.82	37.74	897.08
IO-05	10/27/1995	A	934.82	36.7	898.12
IO-05	11/29/1995	A	934.82	35.3	899.52
IO-05	12/30/1995	A	934.82	34.88	899.94
IO-05	1/31/1996	A	934.82	34.25	900.57
IO-05	2/20/1996	A	934.82	34.21	900.61
IO-05	3/30/1996	A	934.82	34.6	900.22
IO-05	4/29/1996	A	934.82	35.57	899.25
IO-05	5/31/1996	A	934.82	36.28	898.54
IO-05	6/28/1996	A	934.82	37.44	897.38
IO-05	7/31/1996	A	934.82	39.45	895.37
IO-05	8/30/1996	A	934.82	42.4	892.42
IO-05	9/28/1996	A	934.82	39.2	895.62
IO-05	10/30/1996	A	934.82	38.11	896.71
IO-05	1/16/1997	A	934.82	35.16	899.66
IO-05	4/29/1997	A	934.82	35.86	898.96
IO-05	7/29/1997	A	934.82	42.48	892.34
IO-05	1/30/1998	A	934.82	36	898.82
IO-05	5/8/1998	A	934.82	35.6	899.22
IO-05	7/30/1998	A	934.82	37.6	897.22
IO-05	10/29/1998	A	934.82	36.57	898.25
IO-05	1/29/1999	A	934.82	35.25	899.57
IO-05	4/29/1999	A	934.82	35.7	899.12

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-05	8/5/1999	A	934.82	39.7	895.12
IO-05	10/13/1999	A	934.82	42	892.82
IO-05	2/9/2000	A	934.82	35.67	899.15
IO-05	5/3/2000	A	934.82	35.95	898.87
IO-05	8/3/2000	A	934.82	43.1	891.72
IO-05	10/25/2000	A	934.82	44	890.82
IO-05	2/1/2001	A	934.82	36.85	897.97
IO-05	5/25/2001	A	934.82	38.05	896.77
IO-05	8/1/2001	A	934.82	43.4	891.42
IO-05	10/31/2001	A	934.82	43.4	891.42
IO-05	1/31/2002	A	934.82	39.15	895.67
IO-05	5/14/2002	A	934.82	39.3	895.52
IO-05	8/1/2002	A	934.82	46.25	888.57
IO-05	11/1/2002	A	934.82	45.9	888.92
IO-05	1/31/2003	A	934.82	39.4	895.42
IO-05	4/30/2003	A	934.82	38.87	895.95
IO-05	8/8/2003	A	934.82	44.15	890.67
IO-05	10/30/2003	A	934.82	45.7	889.12
IO-05	1/29/2004	A	934.82	39.05	895.77
IO-05	4/30/2004	A	934.82	38.55	896.27
IO-05	7/30/2004	A	934.82	49.9	884.92
IO-05	11/2/2004	A	934.82	46.35	888.47
IO-05	1/28/2005	A	934.82	39.2	895.62
IO-05	5/6/2005	A	934.82	37.7	897.12
IO-05	7/27/2005	A	934.82	40.55	894.27
IO-05	10/28/2005	A	934.82	46.5	888.32
IO-05	1/27/2006	A	934.82	39.1	895.72
IO-05	5/4/2006	A	934.82	36.1	898.72
IO-05	7/26/2006	A	934.82	49.5	885.32
IO-05	10/31/2006	A	934.82	37.5	897.32
IO-05	1/30/2007	A	934.82	35.85	898.97
IO-05	5/2/2007	A	934.82	36.8	898.02
IO-05	8/1/2007	A	934.82	38.75	896.07
IO-05	10/9/2007	A	934.82	39.24	895.58
IO-05	1/7/2008	A	934.82	44.12	890.7
IO-05	4/14/2008	A	934.82	36.23	898.59
IO-05	8/4/2008	A	934.82	36.65	898.17
IO-05	11/17/2008	A	934.82	37.39	897.43
IO-05	2/16/2009	A	934.82	35.4	899.42
IO-05	5/18/2009	A	934.82	36.25	898.57
IO-05	8/24/2009	A	936.88	38.45	898.43
IO-05	11/17/2009	A	936.88	37.85	899.03
IO-05	2/1/2010	A	936.88	36.58	900.3
IO-05	5/4/2010	A	936.88	35.93	900.95
IO-05	8/23/2010	A	936.88	37.67	899.21
IO-05	11/29/2010	A	936.88	37.42	899.46
IO-05	2/3/2011	A	936.88	36.55	900.33
IO-05	5/3/2011	A	936.88	36.1	900.78
IO-05	8/1/2011	A	936.88	38.75	898.13
IO-05	11/2/2011	A	936.88	37.73	899.15
IO-05	2/1/2012	A	936.347	36.63	899.717
IO-05	5/1/2012	A	936.347	38.07	898.277
IO-05	8/1/2012	A	936.347	37.59	898.757

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-05	11/1/2012	A	936.347	38.3	898.047
IO-05	2/4/2013	A	936.347	37.12	899.227
IO-05	5/1/2013	A	936.347	37.55	898.797
IO-05	8/5/2013	A	936.88	38.66	898.22
IO-05	11/4/2013	A	936.88	38.4	898.48
IO-06	2/16/1990	A	940.59	44.04	896.55
IO-06	2/23/1990	A	940.59	43.59	897
IO-06	3/1/1990	A	940.59	44.14	896.45
IO-06	3/9/1990	A	940.59	44.34	896.25
IO-06	3/16/1990	A	942.45	46.1	896.35
IO-06	3/21/1990	A	942.45	46.7	895.75
IO-06	4/3/1990	A	942.45	47.05	895.4
IO-06	4/17/1990	A	942.45	46.35	896.1
IO-06	5/22/1990	A	942.45	47.25	895.2
IO-06	6/19/1990	A	942.45	48.35	894.1
IO-06	7/17/1990	A	942.45	50.5	891.95
IO-06	8/16/1990	A	942.45	48.6	893.85
IO-06	9/22/1990	A	942.45	45.8	896.65
IO-06	10/17/1990	A	942.45	45.2	897.25
IO-06	11/25/1990	A	942.45	46.2	896.25
IO-06	12/14/1990	A	942.45	44.3	898.15
IO-06	1/23/1991	A	942.45	41.2	901.25
IO-06	2/16/1991	A	942.45	42.7	899.75
IO-06	3/17/1991	A	942.45	43.45	899
IO-06	4/22/1991	A	942.45	44.7	897.75
IO-06	5/19/1991	A	942.45	44.9	897.55
IO-06	6/19/1991	A	942.45	47.35	895.1
IO-06	7/21/1991	A	942.45	49.75	892.7
IO-06	8/18/1991	A	942.45	49.2	893.25
IO-06	9/24/1991	A	942.45	50.1	892.35
IO-06	10/31/1991	A	942.45	52	890.45
IO-06	11/17/1991	A	942.45	50.85	891.6
IO-06	2/5/1992	A	942.45	46.5	895.95
IO-06	2/21/1992	A	942.45	43.83	898.62
IO-06	3/30/1992	A	940.59	45.2	895.39
IO-06	5/14/1992	A	940.59	44.8	895.79
IO-06	7/22/1992	A	940.59	48.5	892.09
IO-06	7/31/1992	A	940.59	48.3	892.29
IO-06	8/24/1992	A	940.59	49	891.59
IO-06	10/12/1992	A	940.59	45.4	895.19
IO-06	10/27/1992	A	940.59	45.3	895.29
IO-06	10/27/1992	A	940.59	45.3	895.29
IO-06	11/23/1992	A	940.59	44.1	896.49
IO-06	1/8/1993	A	940.59	42.4	898.19
IO-06	2/4/1993	A	940.59	40.8	899.79
IO-06	3/11/1993	A	940.59	39.25	901.34
IO-06	4/15/1993	A	940.59	40.7	899.89
IO-06	5/18/1993	A	940.59	43.2	897.39
IO-06	6/11/1993	A	940.59	42.6	897.99
IO-06	7/13/1993	A	940.59	44	896.59
IO-06	8/9/1993	A	940.59	44.8	895.79
IO-06	9/24/1993	A	940.59	43.5	897.09
IO-06	10/28/1993	A	940.59	42.7	897.89

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-06	11/23/1993	A	940.59	42.1	898.49
IO-06	12/14/1993	A	940.59	41.6	898.99
IO-06	1/27/1994	A	940.59	41	899.59
IO-06	2/25/1994	A	940.59	41.3	899.29
IO-06	3/4/1994	A	940.59	42	898.59
IO-06	3/21/1994	A	940.59	42.1	898.49
IO-06	3/30/1994	A	940.59	41.9	898.69
IO-06	4/13/1994	A	940.59	42.5	898.09
IO-06	4/27/1994	A	940.59	43.2	897.39
IO-06	5/25/1994	A	940.59	43.7	896.89
IO-06	6/2/1994	A	940.59	43.4	897.19
IO-06	7/21/1994	A	940.59	47.5	893.09
IO-06	8/25/1994	A	940.59	49.8	890.79
IO-06	9/23/1994	A	940.59	48.3	892.29
IO-06	10/12/1994	A	940.59	47.1	893.49
IO-06	11/18/1994	A	940.59	44.6	895.99
IO-06	12/30/1994	A	940.59	43.2	897.39
IO-06	1/31/1995	A	940.59	42.4	898.19
IO-06	2/24/1995	A	940.59	42.4	898.19
IO-06	3/31/1995	A	940.59	42.7	897.89
IO-06	4/21/1995	A	940.59	43.4	897.19
IO-06	5/26/1995	A	940.59	42.9	897.69
IO-06	6/23/1995	A	940.59	44	896.59
IO-06	7/27/1995	A	940.59	46.8	893.79
IO-06	8/30/1995	A	940.59	46.91	893.68
IO-06	9/29/1995	A	940.59	45.8	894.79
IO-06	10/27/1995	A	940.59	45.15	895.44
IO-06	11/29/1995	A	940.59	43.76	896.83
IO-06	12/30/1995	A	940.59	43.09	897.5
IO-06	1/31/1996	A	940.59	42.81	897.78
IO-06	2/20/1996	A	940.59	42.72	897.87
IO-06	3/30/1996	A	940.59	43.1	897.49
IO-06	4/29/1996	A	940.59	43.85	896.74
IO-06	5/31/1996	A	940.59	44.75	895.84
IO-06	6/28/1996	A	940.59	47.03	893.56
IO-06	7/31/1996	A	940.59	51.13	889.46
IO-06	8/30/1996	A	940.59	53.1	887.49
IO-06	9/28/1996	A	940.59	49.09	891.5
IO-06	10/30/1996	A	940.59	47.15	893.44
IO-06	1/16/1997	A	940.59	43.55	897.04
IO-06	4/29/1997	A	940.59	44.27	896.32
IO-06	7/29/1997	A	940.59	53.74	886.85
IO-06	1/30/1998	A	940.59	44.95	895.64
IO-06	5/8/1998	A	940.59	43.95	896.64
IO-06	7/30/1998	A	940.59	46.6	893.99
IO-06	10/29/1998	A	940.59	44.7	895.89
IO-06	1/29/1999	A	940.59	43.2	897.39
IO-06	4/29/1999	A	940.59	43	897.59
IO-06	8/5/1999	A	940.59	49	891.59
IO-06	10/13/1999	A	940.59	50.35	890.24
IO-06	2/9/2000	A	940.59	44.3	896.29
IO-06	5/3/2000	A	940.59	44.4	896.19
IO-06	8/3/2000	A	940.59	52.5	888.09

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-06	10/25/2000	A	940.59	53.3	887.29
IO-06	1/31/2001	A	940.59	44.65	895.94
IO-06	5/25/2001	A	940.59	46.15	894.44
IO-06	8/1/2001	A	940.59	51.8	888.79
IO-06	10/31/2001	A	940.59	52.9	887.69
IO-06	1/31/2002	A	940.59	46.4	894.19
IO-06	5/14/2002	A	940.59	48.2	892.39
IO-06	8/1/2002	A	940.59	57.2	883.39
IO-06	11/1/2002	A	940.59	56.9	883.69
IO-06	1/31/2003	A	940.59	48.95	891.64
IO-06	4/30/2003	A	940.59	48	892.59
IO-06	8/8/2003	A	940.59	55.7	884.89
IO-06	10/30/2003	A	940.59	57	883.59
IO-06	1/29/2004	A	940.59	48.38	892.21
IO-06	4/30/2004	A	940.59	47.5	893.09
IO-06	7/30/2004	A	940.59	58.32	882.27
IO-06	11/2/2004	A	940.59	57.17	883.42
IO-06	1/28/2005	A	940.59	47.8	892.79
IO-06	5/6/2005	A	940.59	46.55	894.04
IO-06	7/27/2005	A	940.59	47.4	893.19
IO-06	10/28/2005	A	940.59	48.2	892.39
IO-06	1/27/2006	A	940.59	45.95	894.64
IO-06	5/4/2006	A	940.59	45.3	895.29
IO-06	7/26/2006	A	940.59	57.6	882.99
IO-06	10/31/2006	A	940.59	42.5	898.09
IO-06	1/30/2007	A	940.59	41.6	898.99
IO-06	5/2/2007	A	940.59	43.9	896.69
IO-06	8/1/2007	A	940.59	53.85	886.74
IO-06	10/9/2007	A	940.59	58.49	882.1
IO-06	1/7/2008	A	940.59	54.53	886.06
IO-06	4/14/2008	A	940.59	49.2	891.39
IO-06	8/1/2008	A	940.59	55.52	885.07
IO-06	11/17/2008	A	940.59	56.25	884.34
IO-06	2/16/2009	A	940.59	49.95	890.64
IO-06	5/18/2009	A	940.59	50.41	890.18
IO-06	8/24/2009	A	942.65	58.5	884.15
IO-06	11/17/2009	A	942.65	58.21	884.44
IO-06	2/1/2010	A	942.65	51.9	890.75
IO-06	5/4/2010	A	942.65	47.91	894.74
IO-06	8/23/2010	A	942.65	53.71	888.94
IO-06	11/29/2010	A	942.65	54.46	888.19
IO-06	2/3/2011	A	942.65	51.1	891.55
IO-06	5/3/2011	A	942.65	48.3	894.35
IO-06	8/1/2011	A	942.65	58.5	884.15
IO-06	11/2/2011	A	942.65	62.26	880.39
IO-06	2/1/2012	A	942.171	55	887.171
IO-06	5/1/2012	A	942.171	54.71	887.461
IO-06	8/1/2012	A	942.171	61.6	880.571
IO-06	11/1/2012	A	942.171	62.48	879.691
IO-06	2/4/2013	A	942.171	55.26	886.911
IO-06	5/1/2013	A	942.171	49.93	892.241
IO-06	8/5/2013	A	942.65	61.34	881.31
IO-06	11/4/2013	A	942.65	62.98	879.67

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-07	3/30/1992	A	936.45	38.2	898.25
IO-07	5/14/1992	A	936.45	38.8	897.65
IO-07	7/22/1992	A	936.45	39.6	896.85
IO-07	7/31/1992	A	936.45	39.6	896.85
IO-07	8/24/1992	A	936.45	42.1	894.35
IO-07	10/12/1992	A	936.45	39.2	897.25
IO-07	10/27/1992	A	936.45	39	897.45
IO-07	11/23/1992	A	936.45	38.5	897.95
IO-07	1/8/1993	A	936.45	38.4	898.05
IO-07	2/4/1993	A	936.45	36.2	900.25
IO-07	3/11/1993	A	936.45	32.6	903.85
IO-07	4/15/1993	A	936.45	36.5	899.95
IO-07	5/18/1993	A	936.45	38.4	898.05
IO-07	6/11/1993	A	936.45	37.9	898.55
IO-07	7/13/1993	A	936.45	37.9	898.55
IO-07	8/9/1993	A	936.45	38.3	898.15
IO-07	9/24/1993	A	936.45	38.3	898.15
IO-07	10/28/1993	A	936.45	38.2	898.25
IO-07	11/23/1993	A	936.45	38	898.45
IO-07	12/14/1993	A	936.45	37.7	898.75
IO-07	1/26/1994	A	936.45	37.4	899.05
IO-07	2/25/1994	A	936.45	37.6	898.85
IO-07	3/4/1994	A	936.45	38	898.45
IO-07	3/21/1994	A	936.45	38.1	898.35
IO-07	3/30/1994	A	936.45	37.9	898.55
IO-07	4/13/1994	A	936.45	38.1	898.35
IO-07	4/27/1994	A	936.45	38.4	898.05
IO-07	5/25/1994	A	936.45	38.9	897.55
IO-07	6/2/1994	A	936.45	38.6	897.85
IO-07	7/21/1994	A	936.45	39.7	896.75
IO-07	8/25/1994	A	936.45	40.1	896.35
IO-07	9/23/1994	A	936.45	39.9	896.55
IO-07	10/12/1994	A	936.45	39.6	896.85
IO-07	11/18/1994	A	936.45	39.3	897.15
IO-07	12/30/1994	A	936.45	38.4	898.05
IO-07	1/31/1995	A	936.45	38.2	898.25
IO-07	2/24/1995	A	936.45	38.3	898.15
IO-07	3/31/1995	A	936.45	38.4	898.05
IO-07	4/21/1995	A	936.45	38.6	897.85
IO-07	5/26/1995	A	936.45	38.4	898.05
IO-07	6/23/1995	A	936.45	38.77	897.68
IO-07	7/27/1995	A	936.45	39.43	897.02
IO-07	8/30/1995	A	936.45	39.37	897.08
IO-07	9/29/1995	A	936.45	39.55	896.9
IO-07	10/27/1995	A	936.45	43.09	893.36
IO-07	11/29/1995	A	936.45	41.3	895.15
IO-07	12/30/1995	A	936.45	40.7	895.75
IO-07	1/31/1996	A	936.45	40.14	896.31
IO-07	2/20/1996	A	936.45	40	896.45
IO-07	3/30/1996	A	936.45	40.28	896.17
IO-07	4/29/1996	A	936.45	41.46	894.99
IO-07	5/31/1996	A	936.45	42.4	894.05
IO-07	6/28/1996	A	936.45	44.31	892.14

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-07	7/31/1996	A	936.45	46.95	889.5
IO-07	8/30/1996	A	936.45	48.38	888.07
IO-07	9/28/1996	A	936.45	46.85	889.6
IO-07	10/30/1996	A	936.45	45.25	891.2
IO-07	1/16/1997	A	936.45	40.88	895.57
IO-07	4/29/1997	A	936.45	41.48	894.97
IO-07	7/29/1997	A	936.45	48.3	888.15
IO-07	1/30/1998	A	936.45	41.77	894.68
IO-07	5/8/1998	A	936.45	40.85	895.6
IO-07	7/29/1998	A	936.45	43.9	892.55
IO-07	10/29/1998	A	936.45	42.5	893.95
IO-07	1/29/1999	A	936.45	40.47	895.98
IO-07	4/29/1999	A	936.45	40.75	895.7
IO-07	8/5/1999	A	936.45	46	890.45
IO-07	10/13/1999	A	936.45	48.1	888.35
IO-07	2/9/2000	A	936.45	41.65	894.8
IO-07	5/3/2000	A	936.45	41.8	894.65
IO-07	8/3/2000	A	936.45	48.4	888.05
IO-07	10/25/2000	A	936.45	50.65	885.8
IO-07	2/1/2001	A	936.45	42.5	893.95
IO-07	5/25/2001	A	936.45	43.3	893.15
IO-07	8/1/2001	A	936.45	48.55	887.9
IO-07	10/31/2001	A	936.45	50.4	886.05
IO-07	1/31/2002	A	936.45	44.55	891.9
IO-07	5/14/2002	A	936.45	45.72	890.73
IO-07	8/1/2002	A	936.45	52.52	883.93
IO-07	11/1/2002	A	936.45	54.7	881.75
IO-07	1/31/2003	A	936.45	47.6	888.85
IO-07	4/30/2003	A	936.45	45.6	890.85
IO-07	8/8/2003	A	936.45	52.05	884.4
IO-07	10/30/2003	A	936.45	54	882.45
IO-07	1/29/2004	A	936.45	47	889.45
IO-07	4/30/2004	A	936.45	45	891.45
IO-07	7/30/2004	A	936.45	55	881.45
IO-07	11/2/2004	A	936.45	54.7	881.75
IO-07	1/28/2005	A	936.45	47.4	889.05
IO-07	5/6/2005	A	936.45	44.3	892.15
IO-07	7/27/2005	A	936.45	48	888.45
IO-07	10/28/2005	A	936.45	48.9	887.55
IO-07	1/27/2006	A	936.45	44.82	891.63
IO-07	5/4/2006	A	936.45	43.8	892.65
IO-07	7/26/2006	A	936.45	52.2	884.25
IO-07	10/31/2006	A	936.45	38.8	897.65
IO-07	1/30/2007	A	936.45	39	897.45
IO-07	5/2/2007	A	936.45	39.5	896.95
IO-07	8/1/2007	A	936.45	39.9	896.55
IO-07	10/9/2007	A	936.45	40.23	896.22
IO-07	1/8/2008	A	936.45	47.15	889.3
IO-07	4/14/2008	A	936.45	39.84	896.61
IO-07	8/1/2008	A	936.45	39.63	896.82
IO-07	11/17/2008	A	936.45	39.73	896.72
IO-07	2/16/2009	A	936.45	39.45	897
IO-07	5/18/2009	A	936.45	39.72	896.73

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-07	8/24/2009	A	938.51	40.21	898.3
IO-07	11/17/2009	A	938.51	40.1	898.41
IO-07	2/1/2010	A	938.51	39.52	898.99
IO-07	5/4/2010	A	938.51	39.6	898.91
IO-07	8/23/2010	A	938.51	40.17	898.34
IO-07	11/29/2010	A	938.51	40.05	898.46
IO-07	2/3/2011	A	938.51	46.05	892.46
IO-07	5/3/2011	A	938.51	45.7	892.81
IO-07	8/1/2011	A	938.51	48	890.51
IO-07	11/2/2011	A	938.51		
IO-07	2/1/2012	A	937.997	49.97	888.027
IO-07	5/1/2012	A	937.997	40.11	897.887
IO-07	8/1/2012	A	937.997	41.59	896.407
IO-07	11/1/2012	A	937.997	42.05	895.947
IO-07	2/4/2013	A	937.997	41.28	896.717
IO-07	5/1/2013	A	937.997	41.13	896.867
IO-07	8/5/2013	A	938.51	42.35	896.16
IO-07	11/4/2013	A	938.51	42.42	896.09
IO-08	2/16/1990	A	943.88	46.4	897.48
IO-08	2/23/1990	A	943.88	46.15	897.73
IO-08	3/1/1990	A	943.88	46.75	897.13
IO-08	3/9/1990	A	943.88	46.95	896.93
IO-08	3/16/1990	A	944.73	48.2	896.53
IO-08	3/21/1990	A	944.73	49	895.73
IO-08	4/3/1990	A	944.73	50	894.73
IO-08	4/17/1990	A	944.73	48.85	895.88
IO-08	5/22/1990	A	944.73	49.85	894.88
IO-08	6/19/1990	A	944.73	52.2	892.53
IO-08	7/17/1990	A	944.73	52.55	892.18
IO-08	8/16/1990	A	944.73	52.75	891.98
IO-08	9/22/1990	A	944.73	49.3	895.43
IO-08	10/18/1990	A	944.73	48.35	896.38
IO-08	11/25/1990	A	944.73	48.15	896.58
IO-08	12/14/1990	A	944.73	47.95	896.78
IO-08	1/23/1991	A	944.73	47.5	897.23
IO-08	2/16/1991	A	944.73	46.85	897.88
IO-08	3/17/1991	A	944.73	46.95	897.78
IO-08	4/22/1991	A	944.73	48.85	895.88
IO-08	5/19/1991	A	944.73	48.3	896.43
IO-08	6/19/1991	A	944.73	52.6	892.13
IO-08	7/21/1991	A	944.73	56.25	888.48
IO-08	8/18/1991	A	944.73	57.2	887.53
IO-08	9/24/1991	A	944.73	54.55	890.18
IO-08	10/31/1991	A	944.73	53.15	891.58
IO-08	11/17/1991	A	944.73	52.2	892.53
IO-08	2/5/1992	A	944.73	48.5	896.23
IO-08	2/21/1992	A	944.73	47.67	897.06
IO-08	3/30/1992	A	943.88	47.35	896.53
IO-08	5/14/1992	A	943.88	47.6	896.28
IO-08	7/22/1992	A	943.88	52.2	891.68
IO-08	7/31/1992	A	943.88	52.3	891.58
IO-08	8/24/1992	A	943.88	50.95	892.93
IO-08	10/12/1992	A	943.88	47.9	895.98

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-08	10/27/1992	A	943.88	47.7	896.18
IO-08	11/23/1992	A	943.88	46.7	897.18
IO-08	1/8/1993	A	943.88	45.3	898.58
IO-08	2/4/1993	A	943.88	43.5	900.38
IO-08	3/11/1993	A	943.88	41.9	901.98
IO-08	4/15/1993	A	943.88	43.8	900.08
IO-08	5/18/1993	A	943.88	45.4	898.48
IO-08	6/11/1993	A	943.88	45.7	898.18
IO-08	7/13/1993	A	943.88	48.4	895.48
IO-08	8/9/1993	A	943.88	49.1	894.78
IO-08	9/24/1993	A	943.88	46.5	897.38
IO-08	10/28/1993	A	943.88	45.1	898.78
IO-08	11/23/1993	A	943.88	44.5	899.38
IO-08	12/14/1993	A	943.88	44.2	899.68
IO-08	1/27/1994	A	943.88	43.8	900.08
IO-08	2/25/1994	A	943.88	44.3	899.58
IO-08	3/4/1994	A	943.88	44.9	898.98
IO-08	3/21/1994	A	943.88	45.4	898.48
IO-08	3/31/1994	A	943.88	44.7	899.18
IO-08	4/13/1994	A	943.88	40.6	903.28
IO-08	4/27/1994	A	943.88	46.7	897.18
IO-08	5/25/1994	A	943.88	46.6	897.28
IO-08	6/2/1994	A	943.88	46.4	897.48
IO-08	7/21/1994	A	943.88	53	890.88
IO-08	8/25/1994	A	943.88	55.2	888.68
IO-08	9/23/1994	A	943.88	52	891.88
IO-08	10/12/1994	A	943.88	50.4	893.48
IO-08	11/18/1994	A	943.88	48	895.88
IO-08	12/30/1994	A	943.88	46.3	897.58
IO-08	1/31/1995	A	943.88	45.3	898.58
IO-08	2/24/1995	A	943.88	45.4	898.48
IO-08	3/31/1995	A	943.88	45.9	897.98
IO-08	4/21/1995	A	943.88	46.3	897.58
IO-08	5/26/1995	A	943.88	45.9	897.98
IO-08	6/23/1995	A	943.88	48.25	895.63
IO-08	7/27/1995	A	943.88	52.72	891.16
IO-08	8/30/1995	A	943.88	50.92	892.96
IO-08	9/29/1995	A	943.88	48.97	894.91
IO-08	10/27/1995	A	943.88	47.75	896.13
IO-08	11/29/1995	A	943.88	46.16	897.72
IO-08	12/30/1995	A	943.88	45.75	898.13
IO-08	1/31/1996	A	943.88	45.15	898.73
IO-08	2/20/1996	A	943.88	45.1	898.78
IO-08	3/30/1996	A	943.88	46.16	897.72
IO-08	4/29/1996	A	943.88	47.04	896.84
IO-08	5/31/1996	A	943.88	47.57	896.31
IO-08	6/28/1996	A	943.88	51.02	892.86
IO-08	7/31/1996	A	943.88	53.87	890.01
IO-08	8/30/1996	A	943.88	54.77	889.11
IO-08	9/28/1996	A	943.88	51.08	892.8
IO-08	10/30/1996	A	943.88	49.3	894.58
IO-08	1/15/1997	A	943.88	45.85	898.03
IO-08	4/29/1997	A	943.88	48.65	895.23

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-08	7/29/1997	A	943.88	56.08	887.8
IO-08	1/30/1998	A	943.88	47.96	895.92
IO-08	5/8/1998	A	943.88	47.2	896.68
IO-08	7/29/1998	A	943.88	49.95	893.93
IO-08	10/29/1998	A	943.88	47.47	896.41
IO-08	1/28/1999	A	943.88	46.08	897.8
IO-08	4/29/1999	A	943.88	47.15	896.73
IO-08	8/5/1999	A	943.88	53.4	890.48
IO-08	10/13/1999	A	943.88	52.75	891.13
IO-08	2/9/2000	A	943.88	46.47	897.41
IO-08	5/3/2000	A	943.88	47.9	895.98
IO-08	8/3/2000	A	943.88	55.9	887.98
IO-08	10/25/2000	A	943.88	54.2	889.68
IO-08	1/31/2001	A	943.88	47.42	896.46
IO-08	5/25/2001	A	943.88	49.1	894.78
IO-08	8/1/2001	A	943.88	55.8	888.08
IO-08	10/31/2001	A	943.88	54	889.88
IO-08	1/31/2002	A	943.88	49.57	894.31
IO-08	5/14/2002	A	943.88	51.5	892.38
IO-08	8/1/2002	A	943.88	58.6	885.28
IO-08	11/1/2002	A	943.88	57.05	886.83
IO-08	1/31/2003	A	943.88	51.6	892.28
IO-08	4/30/2003	A	943.88	51.5	892.38
IO-08	8/8/2003	A	943.88	58.35	885.53
IO-08	10/30/2003	A	943.88	55.7	888.18
IO-08	1/29/2004	A	943.88	50.1	893.78
IO-08	4/30/2004	A	943.88	50.17	893.71
IO-08	7/30/2004	A	943.88	61.4	882.48
IO-08	11/2/2004	A	943.88	56.45	887.43
IO-08	1/28/2005	A	943.88	50.15	893.73
IO-08	5/6/2005	A	943.88	49.65	894.23
IO-08	7/26/2005	A	943.88	53.7	890.18
IO-08	10/28/2005	A	943.88	52	891.88
IO-08	1/27/2006	A	943.88	49.45	894.43
IO-08	5/4/2006	A	943.88	49.3	894.58
IO-08	7/26/2006	A	943.88	57.1	886.78
IO-08	10/31/2006	A	943.88	54.6	889.28
IO-08	1/30/2007	A	943.88	51	892.88
IO-08	5/2/2007	A	943.88	53	890.88
IO-08	8/1/2007	A	943.88	57.1	886.78
IO-08	10/9/2007	A	943.88	64.47	879.41
IO-08	1/7/2008	A	943.88	57.21	886.67
IO-08	4/14/2008	A	943.88	52.42	891.46
IO-08	8/1/2008	A	943.88	58.14	885.74
IO-08	11/17/2008	A	943.88	61.35	882.53
IO-08	2/16/2009	A	943.88	54	889.88
IO-08	5/18/2009	A	943.88	54	889.88
IO-08	8/24/2009	A	945.94	64.58	881.36
IO-08	11/17/2009	A	945.94	62.6	883.34
IO-08	2/1/2010	A	945.94	55.3	890.64
IO-08	5/4/2010	A	945.94	51.68	894.26
IO-08	8/23/2010	A	945.94	56.26	889.68
IO-08	11/29/2010	A	945.94	58.41	887.53

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-08	2/3/2011	A	945.94	52.82	893.12
IO-08	5/3/2011	A	945.94	52.4	893.54
IO-08	8/1/2011	A	945.94	56.9	889.04
IO-08	11/2/2011	A	945.94	63.93	882.01
IO-08	2/1/2012	A	945.518	57.9	887.618
IO-08	5/1/2012	A	945.518	57.9	887.618
IO-08	8/1/2012	A	945.518	66.13	879.388
IO-08	11/1/2012	A	945.518	65.34	880.178
IO-08	2/4/2013	A	945.518	58.44	887.078
IO-08	5/1/2013	A	945.518	55.52	889.998
IO-08	8/5/2013	A	945.94	67.03	878.91
IO-08	11/4/2013	A	945.94	66.56	879.38
IO-09	2/16/1990	A	940.94	37.99	902.95
IO-09	2/23/1990	A	940.94	39.89	901.05
IO-09	3/1/1990	A	940.94	41.69	899.25
IO-09	3/9/1990	A	940.94	41.19	899.75
IO-09	3/16/1990	A	941.75	40.9	900.85
IO-09	3/21/1990	A	941.75	42.15	899.6
IO-09	4/3/1990	A	941.75	38.7	903.05
IO-09	4/17/1990	A	941.75	37.85	903.9
IO-09	5/22/1990	A	941.75	40.5	901.25
IO-09	6/19/1990	A	941.75	41.2	900.55
IO-09	7/17/1990	A	941.75	41.7	900.05
IO-09	8/16/1990	A	941.75	40.7	901.05
IO-09	9/22/1990	A	941.75	39	902.75
IO-09	10/18/1990	A	941.75	38.45	903.3
IO-09	11/25/1990	A	941.75	41.5	900.25
IO-09	12/14/1990	A	941.75	38.95	902.8
IO-09	1/23/1991	A	941.75	37.4	904.35
IO-09	2/16/1991	A	941.75	37.05	904.7
IO-09	3/17/1991	A	941.75	37.8	903.95
IO-09	4/22/1991	A	941.75	38.35	903.4
IO-09	5/19/1991	A	941.75	38.4	903.35
IO-09	6/19/1991	A	941.75	41.55	900.2
IO-09	7/21/1991	A	941.75	43.4	898.35
IO-09	8/18/1991	A	941.75	44.4	897.35
IO-09	9/24/1991	A	941.75	43.4	898.35
IO-09	10/31/1991	A	941.75	47.9	893.85
IO-09	11/17/1991	A	941.75	47.65	894.1
IO-09	2/21/1992	A	941.75	40.08	901.67
IO-09	3/30/1992	A	940.94	41.85	899.09
IO-09	5/14/1992	A	940.94	42.1	898.84
IO-09	7/23/1992	A	940.94	44.4	896.54
IO-09	7/31/1992	A	940.94	44.3	896.64
IO-09	8/24/1992	A	940.94	44.55	896.39
IO-09	10/12/1992	A	940.94	43	897.94
IO-09	10/27/1992	A	940.94	42.7	898.24
IO-09	11/23/1992	A	940.94	41.9	899.04
IO-09	1/8/1993	A	940.94	40.4	900.54
IO-09	2/4/1993	A	940.94	39	901.94
IO-09	3/11/1993	A	940.94	37.8	903.14
IO-09	4/15/1993	A	940.94	37.6	903.34
IO-09	5/18/1993	A	940.94	39.3	901.64

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-09	6/11/1993	A	940.94	38.8	902.14
IO-09	8/9/1993	A	940.94	40.2	900.74
IO-09	9/24/1993	A	940.94	40	900.94
IO-09	10/28/1993	A	940.94	39.4	901.54
IO-09	11/23/1993	A	940.94	38.7	902.24
IO-09	12/14/1993	A	940.94	38.1	902.84
IO-09	1/27/1994	A	940.94	37.5	903.44
IO-09	2/25/1994	A	940.94	37.9	903.04
IO-09	3/4/1994	A	940.94	38.4	902.54
IO-09	3/21/1994	A	940.94	38.4	902.54
IO-09	3/31/1994	A	940.94	38.5	902.44
IO-09	4/13/1994	A	940.94	38.7	902.24
IO-09	4/27/1994	A	940.94	39.1	901.84
IO-09	5/25/1994	A	940.94	39.7	901.24
IO-09	6/2/1994	A	940.94	39.6	901.34
IO-09	7/21/1994	A	940.94	41.9	899.04
IO-09	8/25/1994	A	940.94	43.4	897.54
IO-09	9/23/1994	A	940.94	43.2	897.74
IO-09	10/12/1994	A	940.94	42.5	898.44
IO-09	11/18/1994	A	940.94	41.1	899.84
IO-09	12/30/1994	A	940.94	39.7	901.24
IO-09	1/31/1995	A	940.94	39.2	901.74
IO-09	2/24/1995	A	940.94	39.1	901.84
IO-09	3/31/1995	A	940.94	39.1	901.84
IO-09	4/21/1995	A	940.49	39.8	900.69
IO-09	5/26/1995	A	940.49	39.3	901.19
IO-09	6/23/1995	A	940.49	39.8	900.69
IO-09	7/27/1995	A	940.49	41.18	899.31
IO-09	8/30/1995	A	940.49	42.13	898.36
IO-09	9/29/1995	A	940.49	41.52	898.97
IO-09	10/27/1995	A	940.49	40.9	899.59
IO-09	11/29/1995	A	940.49	39.75	900.74
IO-09	12/30/1995	A	940.49	39.11	901.38
IO-09	1/31/1996	A	940.49	38.96	901.53
IO-09	2/20/1996	A	940.49	38.92	901.57
IO-09	3/30/1996	A	940.49	39.08	901.41
IO-09	4/29/1996	A	940.49	39.3	901.19
IO-09	5/31/1996	A	940.49	40.28	900.21
IO-09	6/28/1996	A	940.49	41.4	899.09
IO-09	7/31/1996	A	940.49	43.83	896.66
IO-09	8/30/1996	A	940.49	45.28	895.21
IO-09	9/28/1996	A	940.49	43.84	896.65
IO-09	10/30/1996	A	940.49	42.8	897.69
IO-09	1/15/1997	A	940.49	39.65	900.84
IO-09	4/29/1997	A	940.49	39.62	900.87
IO-09	7/29/1997	A	940.49	45.14	895.35
IO-09	1/30/1998	A	940.49	41.35	899.14
IO-09	5/8/1998	A	940.49	40.4	900.09
IO-09	7/29/1998	A	940.49	42.2	898.29
IO-09	10/29/1998	A	940.49	41.2	899.29
IO-09	1/29/1999	A	940.49	39.57	900.92
IO-09	4/29/1999	A	940.49	38.97	901.52
IO-09	8/5/1999	A	940.49	43.67	896.82

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-09	10/13/1999	A	940.49	45.35	895.14
IO-09	2/9/2000	A	940.49	40.65	899.84
IO-09	5/3/2000	A	940.49	40.9	899.59
IO-09	8/3/2000	A	940.49	45.53	894.96
IO-09	10/25/2000	A	940.49	47	893.49
IO-09	1/31/2001	A	940.49	41.7	898.79
IO-09	5/25/2001	A	940.49	42.3	898.19
IO-09	8/1/2001	A	940.49	45.7	894.79
IO-09	10/31/2001	A	940.49	46.7	893.79
IO-09	1/31/2002	A	940.49	43.7	896.79
IO-09	5/14/2002	A	940.49	43.7	896.79
IO-09	8/1/2002	A	940.49	48.95	891.54
IO-09	11/1/2002	A	940.49	48.8	891.69
IO-09	1/31/2003	A	940.49	45	895.49
IO-09	4/30/2003	A	940.49	44.25	896.24
IO-09	8/8/2003	A	940.49	48.3	892.19
IO-09	10/30/2003	A	940.49	49.85	890.64
IO-09	1/29/2004	A	940.49	44.8	895.69
IO-09	4/30/2004	A	940.49	44.25	896.24
IO-09	7/30/2004	A	940.49	52.1	888.39
IO-09	11/2/2004	A	940.49	50.1	890.39
IO-09	1/28/2005	A	940.49	45.05	895.44
IO-09	5/6/2005	A	940.49	42.9	897.59
IO-09	7/26/2005	A	940.49	44.35	896.14
IO-09	10/28/2005	A	940.49	45.02	895.47
IO-09	1/27/2006	A	940.49	43.25	897.24
IO-09	5/4/2006	A	940.49	42.75	897.74
IO-09	7/26/2006	A	940.49	51	889.49
IO-09	10/31/2006	A	940.49	48.15	892.34
IO-09	1/30/2007	A	940.49	45.3	895.19
IO-09	5/2/2007	A	940.49	45	895.49
IO-09	8/1/2007	A	940.49	49.9	890.59
IO-09	10/9/2007	A	940.49	52.78	887.71
IO-09	1/8/2008	A	940.49	51	889.49
IO-09	4/14/2008	A	940.49	47.32	893.17
IO-09	8/1/2008	A	940.49	49.61	890.88
IO-09	11/17/2008	A	940.49	51.33	889.16
IO-09	2/16/2009	A	940.49	47.9	892.59
IO-09	5/18/2009	A	940.49	47.49	893
IO-09	8/24/2009	A	943	52.23	890.77
IO-09	11/17/2009	A	943	52.96	890.04
IO-09	2/1/2010	A	943	49.2	893.8
IO-09	5/4/2010	A	943	45.76	897.24
IO-09	8/23/2010	A	943	48.35	894.65
IO-09	11/29/2010	A	943	50.4	892.6
IO-09	2/3/2011	A	943	47.28	895.72
IO-09	5/3/2011	A	943	44.33	898.67
IO-09	8/1/2011	A	943	50.11	892.89
IO-09	11/2/2011	A	943	52.44	890.56
IO-09	2/1/2012	A	942.532	49.84	892.692
IO-09	5/1/2012	A	942.532	49.98	892.552
IO-09	8/1/2012	A	942.532	52.52	890.012
IO-09	11/1/2012	A	942.532	54.19	888.342

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-09	2/4/2013	A	942.532	50.26	892.272
IO-09	5/1/2013	A	942.532	47.96	894.572
IO-09	8/5/2013	A	943	53.19	889.81
IO-09	11/4/2013	A	943	54.7	888.3
IO-10	2/16/1990	A	940.96	43.07	897.89
IO-10	2/23/1990	A	940.96	42.87	898.09
IO-10	3/1/1990	A	940.96	43.37	897.59
IO-10	3/9/1990	A	940.96	43.67	897.29
IO-10	3/16/1990	A	941.54	44.85	896.69
IO-10	3/21/1990	A	941.54	45.75	895.79
IO-10	4/3/1990	A	941.54	47.3	894.24
IO-10	4/17/1990	A	941.54	45.7	895.84
IO-10	5/22/1990	A	941.54	46.75	894.79
IO-10	6/19/1990	A	941.54	49.7	891.84
IO-10	7/17/1990	A	941.54	49.8	891.74
IO-10	8/16/1990	A	941.54	50	891.54
IO-10	9/22/1990	A	941.54	45.65	895.89
IO-10	10/17/1990	A	941.54	44.95	896.59
IO-10	11/25/1990	A	941.54	46.4	895.14
IO-10	12/14/1990	A	941.54	44.4	897.14
IO-10	1/23/1991	A	941.54	44.1	897.44
IO-10	2/16/1991	A	941.54	43.6	897.94
IO-10	3/17/1991	A	941.54	43.65	897.89
IO-10	4/22/1991	A	941.54	46.1	895.44
IO-10	5/19/1991	A	941.54	45	896.54
IO-10	6/19/1991	A	941.54	50.1	891.44
IO-10	7/21/1991	A	941.54	54	887.54
IO-10	8/18/1991	A	941.54	54.55	886.99
IO-10	9/24/1991	A	941.54	51.2	890.34
IO-10	10/31/1991	A	941.54	49.25	892.29
IO-10	11/17/1991	A	941.54	48.35	893.19
IO-10	2/5/1992	A	941.54	45.2	896.34
IO-10	2/21/1992	A	941.54	43.67	897.87
IO-10	3/26/1992	A	940.96	44.3	896.66
IO-10	5/14/1992	A	940.96	44.25	896.71
IO-10	7/23/1992	A	940.96	50	890.96
IO-10	7/31/1992	A	940.96	50	890.96
IO-10	8/24/1992	A	940.96	47.9	893.06
IO-10	10/12/1992	A	940.96	44.5	896.46
IO-10	10/27/1992	A	940.96	44.3	896.66
IO-10	11/23/1992	A	940.96	43.4	897.56
IO-10	1/8/1993	A	940.96	39.6	901.36
IO-10	2/4/1993	A	940.96	39.2	901.76
IO-10	3/11/1993	A	940.96	37.75	903.21
IO-10	4/15/1993	A	940.96	38.1	902.86
IO-10	5/17/1993	A	940.96	39.4	901.56
IO-10	6/11/1993	A	940.96	39.6	901.36
IO-10	7/13/1993	A	940.96	41.8	899.16
IO-10	8/9/1993	A	940.96	42.7	898.26
IO-10	9/24/1993	A	940.96	41.2	899.76
IO-10	10/28/1993	A	940.96	39.8	901.16
IO-10	11/23/1993	A	940.96	39.1	901.86
IO-10	12/14/1993	A	940.96	38.8	902.16

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-10	1/27/1994	A	940.96	38.4	902.56
IO-10	2/25/1994	A	940.96	38.8	902.16
IO-10	3/21/1994	A	940.96	39.6	901.36
IO-10	3/27/1994	A	940.96	39.4	901.56
IO-10	3/31/1994	A	940.96	39.3	901.66
IO-10	4/13/1994	A	940.96	40.2	900.76
IO-10	4/27/1994	A	940.96	40.7	900.26
IO-10	5/25/1994	A	940.96	40.6	900.36
IO-10	6/2/1994	A	940.96	40.7	900.26
IO-10	7/21/1994	A	940.96	46.3	894.66
IO-10	8/25/1994	A	940.96	47.6	893.36
IO-10	9/22/1994	A	940.96	45	895.96
IO-10	10/12/1994	A	940.96	44	896.96
IO-10	11/18/1994	A	940.96	42.2	898.76
IO-10	12/30/1994	A	940.96	40.9	900.06
IO-10	1/31/1995	A	940.96	40.1	900.86
IO-10	2/24/1995	A	940.96	40	900.96
IO-10	3/31/1995	A	940.96	40.2	900.76
IO-10	4/21/1995	A	940.96	40.7	900.26
IO-10	5/26/1995	A	940.96	40.4	900.56
IO-10	6/23/1995	A	940.96	41.97	898.99
IO-10	7/27/1995	A	940.96	45.62	895.34
IO-10	8/30/1995	A	940.96	44.62	896.34
IO-10	9/29/1995	A	940.96	43	897.96
IO-10	10/27/1995	A	940.96	41.97	898.99
IO-10	11/29/1995	A	940.96	40.8	900.16
IO-10	12/30/1995	A	940.96	40.38	900.58
IO-10	1/31/1996	A	940.96	39.98	900.98
IO-10	2/20/1996	A	940.96	39.95	901.01
IO-10	3/30/1996	A	940.96	40.7	900.26
IO-10	4/29/1996	A	940.96	41.5	899.46
IO-10	5/31/1996	A	940.96	41.95	899.01
IO-10	6/28/1996	A	940.96	44.63	896.33
IO-10	7/31/1996	A	940.96	47.17	893.79
IO-10	8/30/1996	A	940.96	48.25	892.71
IO-10	9/28/1996	A	940.96	45.42	895.54
IO-10	10/30/1996	A	940.96	44.05	896.91
IO-10	1/15/1997	A	940.96	41	899.96
IO-10	4/29/1997	A	940.96	43	897.96
IO-10	7/29/1997	A	940.96	48.98	891.98
IO-10	1/30/1998	A	940.96	42.83	898.13
IO-10	5/8/1998	A	940.96	42.05	898.91
IO-10	7/29/1998	A	940.96	44.05	896.91
IO-10	10/29/1998	A	940.96	42.15	898.81
IO-10	1/28/1999	A	940.96	40.65	900.31
IO-10	4/29/1999	A	940.96	41.5	899.46
IO-10	8/5/1999	A	940.96	46.8	894.16
IO-10	10/13/1999	A	940.96	50.5	890.46
IO-10	2/9/2000	A	940.96	41.5	899.46
IO-10	5/3/2000	A	940.96	41.95	899.01
IO-10	8/3/2000	A	940.96	48.82	892.14
IO-10	10/25/2000	A	940.96	47.9	893.06
IO-10	1/31/2001	A	940.96	42.4	898.56

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-10	5/25/2001	A	940.96	43.2	897.76
IO-10	8/1/2001	A	940.96	48.6	892.36
IO-10	10/31/2001	A	940.96	47.6	893.36
IO-10	1/31/2002	A	940.96	44.2	896.76
IO-10	5/14/2002	A	940.96	45.17	895.79
IO-10	8/1/2002	A	940.96	52.23	888.73
IO-10	11/1/2002	A	940.96	50.15	890.81
IO-10	1/31/2003	A	940.96	46	894.96
IO-10	4/30/2003	A	940.96	45.6	895.36
IO-10	8/8/2003	A	940.96	51.5	889.46
IO-10	10/30/2003	A	940.96	51.2	889.76
IO-10	1/29/2004	A	940.96	45.95	895.01
IO-10	4/30/2004	A	940.96	45.7	895.26
IO-10	7/30/2004	A	940.96	54.4	886.56
IO-10	11/2/2004	A	940.96	51.25	889.71
IO-10	1/28/2005	A	940.96	45.6	895.36
IO-10	5/6/2005	A	940.96	44.2	896.76
IO-10	7/26/2005	A	940.96	48.05	892.91
IO-10	10/28/2005	A	940.96	46.85	894.11
IO-10	1/27/2006	A	940.96	44.43	896.53
IO-10	5/4/2006	A	940.96	44.1	896.86
IO-10	7/26/2006	A	940.96	51.95	889.01
IO-10	10/31/2006	A	940.96	48.75	892.21
IO-10	1/30/2007	A	940.96	45.8	895.16
IO-10	5/2/2007	A	940.96	47	893.96
IO-10	8/1/2007	A	940.96	52.7	888.26
IO-10	10/9/2007	A	940.96	52.12	888.84
IO-10	1/7/2008	A	940.96	50.85	890.11
IO-10	4/14/2008	A	940.96	47.78	893.18
IO-10	8/1/2008	A	940.96	51.89	889.07
IO-10	11/17/2008	A	940.96	51.83	889.13
IO-10	2/16/2009	A	940.96	47.95	893.01
IO-10	5/18/2009	A	940.96	48	892.96
IO-10	8/24/2009	A	943.02	54.15	888.87
IO-10	11/17/2009	A	943.02	53.9	889.12
IO-10	2/1/2010	A	943.02	48.9	894.12
IO-10	5/7/2010	A	943.02	43.08	899.94
IO-10	8/23/2010	A	943.02	49	894.02
IO-10	11/29/2010	A	943.02	50.81	892.21
IO-10	2/3/2011	A	943.02	47	896.02
IO-10	5/3/2011	A	943.02	44.65	898.37
IO-10	8/1/2011	A	943.02	51.73	891.29
IO-10	11/2/2011	A	943.02	49.8	893.22
IO-10	2/1/2012	A	942.434	50.16	892.274
IO-10	5/1/2012	A	942.434	50.01	892.424
IO-10	8/1/2012	A	942.434	54.39	888.044
IO-10	11/1/2012	A	942.434	55.21	887.224
IO-10	2/4/2013	A	942.434	50.21	892.224
IO-10	5/1/2013	A	942.434	48.77	893.664
IO-10	8/5/2013	A	943.02	56.45	886.57
IO-10	11/4/2013	A	943.02	56.11	886.91
IO-101	4/5/1995	C	961.08	52.85	908.23
IO-101	4/12/1995	C	961.08	54.9	906.18

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-101	4/18/1995	C	961.08	52.43	908.65
IO-101	4/25/1995	C	961.08	52.15	908.93
IO-101	5/4/1995	C	961.08	51.35	909.73
IO-101	5/16/1995	C	961.08	51.16	909.92
IO-101	5/25/1995	C	961.08	52.92	908.16
IO-101	6/2/1995	C	961.08	55.8	905.28
IO-101	6/6/1995	C	961.08	56.05	905.03
IO-101	6/15/1995	C	961.08	59.49	901.59
IO-101	6/23/1995	C	961.08	58.05	903.03
IO-101	6/29/1995	C	961.08	61.6	899.48
IO-101	7/7/1995	C	961.08	63.8	897.28
IO-101	7/21/1995	C	961.08	65	896.08
IO-101	7/28/1995	C	961.08	67.67	893.41
IO-101	8/2/1995	C	961.08	65.93	895.15
IO-101	8/11/1995	C	961.08	67.57	893.51
IO-101	8/15/1995	C	961.08	64.75	896.33
IO-101	8/23/1995	C	961.08	59.15	901.93
IO-101	8/31/1995	C	961.08	62.77	898.31
IO-101	9/6/1995	C	961.08	59.58	901.5
IO-101	9/13/1995	C	961.08	56.03	905.05
IO-101	9/22/1995	C	961.08	56.35	904.73
IO-101	9/28/1995	C	961.08	54.01	907.07
IO-101	10/6/1995	C	961.08	53.78	907.3
IO-101	10/31/1995	C	961.08	52.77	908.31
IO-101	11/30/1995	C	961.08	51.55	909.53
IO-101	12/30/1995	C	961.08	51.75	909.33
IO-101	1/31/1996	C	961.08	51.65	909.43
IO-101	2/20/1996	C	961.08	51.7	909.38
IO-101	3/30/1996	C	961.08	56.82	904.26
IO-101	4/29/1996	C	961.08	58.35	902.73
IO-101	5/31/1996	C	961.08	60.52	900.56
IO-101	6/28/1996	C	961.08	65.86	895.22
IO-101	7/30/1996	C	961.08	69.65	891.43
IO-101	8/30/1996	C	961.08	69.38	891.7
IO-101	9/28/1996	C	961.08	58.16	902.92
IO-101	10/29/1996	C	961.08	57.05	904.03
IO-101	1/16/1997	C	961.08	51.75	909.33
IO-101	4/28/1997	C	961.08	65.27	895.81
IO-101	7/29/1997	C	961.08	72.61	888.47
IO-101	10/22/1997	C	961.08	62.25	898.83
IO-101	1/29/1998	C	961.08	59.35	901.73
IO-101	5/8/1998	C	961.08	58.6	902.48
IO-101	7/28/1998	C	961.08	61.95	899.13
IO-101	10/29/1998	C	961.08	55.7	905.38
IO-101	1/28/1999	C	961.08	53.77	907.31
IO-101	4/28/1999	C	961.08	61.23	899.85
IO-101	8/4/1999	C	961.08	67.67	893.41
IO-101	10/12/1999	C	961.08	60.7	900.38
IO-101	2/9/2000	C	961.08	58.4	902.68
IO-101	5/2/2000	C	961.08	61.05	900.03
IO-101	8/2/2000	C	961.08	70.68	890.4
IO-101	10/25/2000	C	961.08	61.1	899.98
IO-101	1/30/2001	C	961.08	57.02	904.06

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-101	5/24/2001	C	961.08	60.3	900.78
IO-101	7/31/2001	C	961.08	67.3	893.78
IO-101	10/29/2001	C	961.08	61.9	899.18
IO-101	1/30/2002	C	961.08	59.55	901.53
IO-101	5/13/2002	C	961.08	64.6	896.48
IO-101	7/31/2002	C	961.08	75.52	885.56
IO-101	10/30/2002	C	961.08	65.9	895.18
IO-101	1/30/2003	C	961.08	62.65	898.43
IO-101	4/30/2003	C	961.08	64.7	896.38
IO-101	8/7/2003	C	961.08	71	890.08
IO-101	10/28/2003	C	961.08	67.52	893.56
IO-101	1/28/2004	C	961.08	63.5	897.58
IO-101	4/28/2004	C	961.08	68.33	892.75
IO-101	7/29/2004	C	961.08	78.65	882.43
IO-101	11/1/2004	C	961.08	69.45	891.63
IO-101	1/27/2005	C	961.08	63.7	897.38
IO-101	5/6/2005	C	961.08	67.3	893.78
IO-101	7/27/2005	C	961.08	74.1	886.98
IO-101	10/26/2005	C	961.08	66.37	894.71
IO-101	1/26/2006	C	961.08	65.42	895.66
IO-101	5/2/2006	C	961.08	68.8	892.28
IO-101	7/25/2006	C	961.08	75.25	885.83
IO-101	10/31/2006	C	961.08	69	892.08
IO-101	1/29/2007	C	961.08	67.05	894.03
IO-101	5/1/2007	C	961.08	60.1	900.98
IO-101	7/31/2007	C	961.08	68.8	892.28
IO-101	12/2/2011	C	960.9	69.94	890.96
IO-101	3/2/2012	C	962.607	67.58	895.027
IO-101	4/2/2012	C	962.607	70.9	891.707
IO-101	6/1/2012	C	962.607	72.74	889.867
IO-101	7/2/2012	C	962.607	79.2	883.407
IO-101	8/2/2012	C	962.607	79.99	882.617
IO-101	9/4/2012	C	962.607	80.26	882.347
IO-101	10/1/2012	C	962.607	77.11	885.497
IO-101	11/5/2012	C	962.607	72.9	889.707
IO-101	12/3/2012	C	962.607	71.02	891.587
IO-101	5/1/2013	C	962.607	73.25	889.357
IO-102	4/5/1995	C	961.07	52.74	908.33
IO-102	4/12/1995	C	961.07	54.85	906.22
IO-102	4/18/1995	C	961.07	52.55	908.52
IO-102	4/25/1995	C	961.07	52.27	908.8
IO-102	5/4/1995	C	961.07	51.45	909.62
IO-102	5/16/1995	C	961.07	51.17	909.9
IO-102	5/25/1995	C	961.07	53.05	908.02
IO-102	6/2/1995	C	961.07	55.85	905.22
IO-102	6/6/1995	C	961.07	56.14	904.93
IO-102	6/15/1995	C	961.07	59.61	901.46
IO-102	6/23/1995	C	961.07	58.23	902.84
IO-102	6/29/1995	C	961.07	61.87	899.2
IO-102	7/7/1995	C	961.07	63.67	897.4
IO-102	7/21/1995	C	961.07	65.35	895.72
IO-102	7/28/1995	C	961.07	67.92	893.15
IO-102	8/2/1995	C	961.07	66.08	894.99

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-102	8/11/1995	C	961.07	67.66	893.41
IO-102	8/15/1995	C	961.07	64.8	896.27
IO-102	8/23/1995	C	961.07	59.25	901.82
IO-102	8/31/1995	C	961.07	62.71	898.36
IO-102	9/6/1995	C	961.07	59.59	901.48
IO-102	9/13/1995	C	961.07	56.12	904.95
IO-102	9/22/1995	C	961.07	56.54	904.53
IO-102	9/28/1995	C	961.07	54.19	906.88
IO-102	10/6/1995	C	961.07	54	907.07
IO-102	10/31/1995	C	961.07	53	908.07
IO-102	11/30/1995	C	961.07	51.57	909.5
IO-102	12/30/1995	C	961.07	51.85	909.22
IO-102	1/31/1996	C	961.07	51.7	909.37
IO-102	2/20/1996	C	961.07	51.85	909.22
IO-102	3/30/1996	C	961.07	56.97	904.1
IO-102	4/29/1996	C	961.07	58.35	902.72
IO-102	5/31/1996	C	961.07	60.2	900.87
IO-102	6/28/1996	C	961.07	66.03	895.04
IO-102	7/30/1996	C	961.07	69.53	891.54
IO-102	8/30/1996	C	961.07	69.3	891.77
IO-102	9/28/1996	C	961.07	58.05	903.02
IO-102	10/29/1996	C	961.07	57	904.07
IO-102	1/16/1997	C	961.07	55.52	905.55
IO-102	4/28/1997	C	961.07	64.95	896.12
IO-102	7/29/1997	C	961.07	72.5	888.57
IO-102	10/22/1997	C	961.07	62	899.07
IO-102	1/29/1998	C	961.07	59.27	901.8
IO-102	5/8/1998	C	961.07	59.44	901.63
IO-102	7/28/1998	C	961.07	62.03	899.04
IO-102	10/29/1998	C	961.07	56.02	905.05
IO-102	1/28/1999	C	961.07	54.48	906.59
IO-102	4/28/1999	C	961.07	61.45	899.62
IO-102	8/4/1999	C	961.07	67.84	893.23
IO-102	10/12/1999	C	961.07	61	900.07
IO-102	2/9/2000	C	961.07	58.5	902.57
IO-102	5/2/2000	C	961.07	61	900.07
IO-102	8/2/2000	C	961.07	70.68	890.39
IO-102	10/25/2000	C	961.07	60.9	900.17
IO-102	1/30/2001	C	961.07	56.75	904.32
IO-102	5/24/2001	C	961.07	60.13	900.94
IO-102	7/31/2001	C	961.07	67	894.07
IO-102	10/29/2001	C	961.07	61.8	899.27
IO-102	1/30/2002	C	961.07	59.55	901.52
IO-102	5/13/2002	C	961.07	64.35	896.72
IO-102	7/31/2002	C	961.07	75.37	885.7
IO-102	10/30/2002	C	961.07	65.55	895.52
IO-102	1/30/2003	C	961.07	62.55	898.52
IO-102	4/30/2003	C	961.07	64.35	896.72
IO-102	8/7/2003	C	961.07	70.8	890.27
IO-102	10/28/2003	C	961.07	67.1	893.97
IO-102	1/28/2004	C	961.07	63.4	897.67
IO-102	4/28/2004	C	961.07	67.97	893.1
IO-102	7/29/2004	C	961.07	78.55	882.52

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-102	11/1/2004	C	961.07	69.3	891.77
IO-102	1/27/2005	C	961.07	63.4	897.67
IO-102	5/6/2005	C	961.07	66.75	894.32
IO-102	7/27/2005	C	961.07	73.4	887.67
IO-102	10/26/2005	C	961.07	66	895.07
IO-102	1/26/2006	C	961.07	64.92	896.15
IO-102	5/2/2006	C	961.07	68.38	892.69
IO-102	7/25/2006	C	961.07	74.75	886.32
IO-102	10/31/2006	C	961.07	68.55	892.52
IO-102	1/29/2007	C	961.07	66.85	894.22
IO-102	5/1/2007	C	961.07	69.75	891.32
IO-102	7/31/2007	C	961.07	78.4	882.67
IO-102	12/2/2011	C	961.22	67.3	893.92
IO-102	3/2/2012	C	962.584	66.08	896.504
IO-102	4/2/2012	C	962.584	66.22	896.364
IO-102	6/1/2012	C	962.584	73.22	889.364
IO-102	7/2/2012	C	962.584	78.88	883.704
IO-102	8/2/2012	C	962.584	79.38	883.204
IO-102	9/4/2012	C	962.584	79.8	882.784
IO-102	10/1/2012	C	962.584	76.69	885.894
IO-102	11/5/2012	C	962.584	72.49	890.094
IO-102	12/3/2012	C	962.584	70.72	891.864
IO-102	5/1/2013	C	962.584	73.02	889.564
IO-12	3/30/1992	A	939.75	39	900.75
IO-12	5/14/1992	A	939.75	40.5	899.25
IO-12	7/23/1992	A	939.75	41.8	897.95
IO-12	7/31/1992	A	939.75	42.2	897.55
IO-12	8/24/1992	A	939.75	42.8	896.95
IO-12	10/12/1992	A	939.75	40.4	899.35
IO-12	10/27/1992	A	939.75	40.2	899.55
IO-12	11/23/1992	A	939.75	39.5	900.25
IO-12	1/8/1993	A	939.75	38.3	901.45
IO-12	2/4/1993	A	939.75	36.5	903.25
IO-12	3/11/1993	A	939.75	34.9	904.85
IO-12	4/15/1993	A	939.75	34.6	905.15
IO-12	5/17/1993	A	939.75	35.5	904.25
IO-12	5/18/1993	A	939.75	35.5	904.25
IO-12	6/11/1993	A	939.75	35.5	904.25
IO-12	7/13/1993	A	939.75	36	903.75
IO-12	8/9/1993	A	939.75	38.3	901.45
IO-12	9/24/1993	A	939.75	37.3	902.45
IO-12	10/28/1993	A	939.75	36.1	903.65
IO-12	11/23/1993	A	939.75	35.4	904.35
IO-12	12/14/1993	A	939.75	35	904.75
IO-12	1/27/1994	A	939.75	34.4	905.35
IO-12	2/25/1994	A	939.75	35.5	904.25
IO-12	3/21/1994	A	939.75	35.8	903.95
IO-12	3/24/1994	A	939.75	35.8	903.95
IO-12	3/31/1994	A	939.75	35.8	903.95
IO-12	4/13/1994	A	939.75	36.1	903.65
IO-12	4/27/1994	A	939.75	36.3	903.45
IO-12	5/25/1994	A	939.75	37	902.75
IO-12	6/2/1994	A	939.75	36.9	902.85

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-12	7/21/1994	A	939.75	39.9	899.85
IO-12	8/25/1994	A	939.75	41.1	898.65
IO-12	9/23/1994	A	939.75	40.8	898.95
IO-12	10/12/1994	A	939.75	40.3	899.45
IO-12	11/18/1994	A	939.75	39.1	900.65
IO-12	12/30/1994	A	939.75	37.9	901.85
IO-12	1/31/1995	A	939.75	37.3	902.45
IO-12	2/24/1995	A	939.75	36.9	902.85
IO-12	3/31/1995	A	939.75	36.6	903.15
IO-12	4/21/1995	A	939.75	37	902.75
IO-12	5/26/1995	A	939.75	36.6	903.15
IO-12	6/23/1995	A	939.75	37.08	902.67
IO-12	7/27/1995	A	939.75	38.6	901.15
IO-12	8/30/1995	A	939.75	39.41	900.34
IO-12	9/29/1995	A	939.75	38.86	900.89
IO-12	10/27/1995	A	939.75	38.02	901.73
IO-12	11/29/1995	A	939.75	37	902.75
IO-12	12/30/1995	A	939.75	36.52	903.23
IO-12	1/31/1996	A	939.75	36.26	903.49
IO-12	2/20/1996	A	939.75	36.21	903.54
IO-12	3/30/1996	A	939.75	36.35	903.4
IO-12	4/29/1996	A	939.75	37.15	902.6
IO-12	5/31/1996	A	939.75	37.66	902.09
IO-12	6/28/1996	A	939.75	38.65	901.1
IO-12	7/31/1996	A	939.75	40.42	899.33
IO-12	8/30/1996	A	939.75	41.4	898.35
IO-12	9/28/1996	A	939.75	40.26	899.49
IO-12	10/30/1996	A	939.75	39.52	900.23
IO-12	1/15/1997	A	939.75	37.57	902.18
IO-12	4/29/1997	A	939.75	37.92	901.83
IO-12	7/29/1997	A	939.75	41.11	898.64
IO-12	1/30/1998	A	939.75	38.21	901.54
IO-12	5/8/1998	A	939.75	37.55	902.2
IO-12	7/29/1998	A	939.75	38.95	900.8
IO-12	10/29/1998	A	939.75	38.08	901.67
IO-12	1/28/1999	A	939.75	36.53	903.22
IO-12	4/29/1999	A	939.75	36.1	903.65
IO-12	8/5/1999	A	939.75	40.4	899.35
IO-12	10/13/1999	A	939.75	40.4	899.35
IO-12	2/9/2000	A	939.75	36.6	903.15
IO-12	5/3/2000	A	939.75	36.8	902.95
IO-12	8/3/2000	A	939.75	39.72	900.03
IO-12	10/25/2000	A	939.75	41.5	898.25
IO-12	1/31/2001	A	939.75	37.65	902.1
IO-12	5/25/2001	A	939.75	38	901.75
IO-12	8/1/2001	A	939.75	39.7	900.05
IO-12	10/30/2001	A	939.75	40.75	899
IO-12	1/31/2002	A	939.75	39.3	900.45
IO-12	5/14/2002	A	939.75	39.3	900.45
IO-12	8/1/2002	A	939.75	40.15	899.6
IO-12	11/1/2002	A	939.75	44.9	894.85
IO-12	1/31/2003	A	939.75	41.55	898.2
IO-12	4/30/2003	A	939.75	41.05	898.7

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-12	8/8/2003	A	939.75	44.2	895.55
IO-12	10/29/2003	A	939.75	45.5	894.25
IO-12	1/29/2004	A	939.75	41.8	897.95
IO-12	4/30/2004	A	939.75	41.85	897.9
IO-12	7/30/2004	A	939.75	47.72	892.03
IO-12	11/2/2004	A	939.75	46.4	893.35
IO-12	1/28/2005	A	939.75	42.5	897.25
IO-12	5/6/2005	A	939.75	41	898.75
IO-12	7/26/2005	A	939.75	42.95	896.8
IO-12	10/28/2005	A	939.75	43	896.75
IO-12	1/27/2006	A	939.75	41.25	898.5
IO-12	5/4/2006	A	939.75	40.3	899.45
IO-12	7/26/2006	A	939.75	47.25	892.5
IO-12	10/31/2006	A	939.75	40.1	899.65
IO-12	1/30/2007	A	939.75	39.5	900.25
IO-12	5/2/2007	A	939.75	39.75	900
IO-12	8/1/2007	A	939.75	42.65	897.1
IO-12	10/9/2007	A	939.75	42.14	897.61
IO-12	1/7/2008	A	939.75	48.09	891.66
IO-12	4/14/2008	A	939.75	42.33	897.42
IO-12	8/1/2008	A	939.75	42.03	897.72
IO-12	11/17/2008	A	939.75	41.71	898.04
IO-12	2/16/2009	A	939.75	41.12	898.63
IO-12	5/18/2009	A	939.75	41.2	898.55
IO-12	8/24/2009	A	941.81	40.71	901.1
IO-12	11/17/2009	A	941.81	43.78	898.03
IO-12	2/1/2010	A	941.81	42.13	899.68
IO-12	5/4/2010	A	941.81	40.7	901.11
IO-12	8/23/2010	A	941.81	42	899.81
IO-12	11/29/2010	A	941.81	42.19	899.62
IO-12	2/3/2011	A	941.81	41.12	900.69
IO-12	5/3/2011	A	941.81	39.5	902.31
IO-12	8/1/2011	A	941.81	42.98	898.83
IO-12	11/2/2011	A	941.81	42.72	899.09
IO-12	2/1/2012	A	941.35	40.83	900.52
IO-12	5/1/2012	A	941.35	41.32	900.03
IO-12	8/1/2012	A	941.35	42.58	898.77
IO-12	11/1/2012	A	941.35	44.31	897.04
IO-12	2/4/2013	A	941.35	42.77	898.58
IO-12	5/1/2013	A	941.35	41.49	899.86
IO-12	8/5/2013	A	941.81	40.32	901.49
IO-12	11/4/2013	A	941.81	44.2	897.61
IO-13	3/30/1992	A	948.93	48.65	900.28
IO-13	5/14/1992	A	948.93	49.6	899.33
IO-13	7/23/1992	A	948.93	51.6	897.33
IO-13	7/31/1992	A	948.93	51.7	897.23
IO-13	8/24/1992	A	948.93	52	896.93
IO-13	10/12/1992	A	948.93	49.4	899.53
IO-13	10/27/1992	A	948.93	49.1	899.83
IO-13	11/23/1992	A	948.93	48.3	900.63
IO-13	1/8/1993	A	948.93	47.3	901.63
IO-13	2/4/1993	A	948.93	46.1	902.83
IO-13	3/11/1993	A	948.93	44.7	904.23

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-13	4/15/1993	A	948.93	44.2	904.73
IO-13	5/17/1993	A	948.93	44.9	904.03
IO-13	6/11/1993	A	948.93	45	903.93
IO-13	7/13/1993	A	948.93	46.5	902.43
IO-13	8/9/1993	A	948.93	47.5	901.43
IO-13	9/24/1993	A	948.93	47.7	901.23
IO-13	10/28/1993	A	948.93	48.5	900.43
IO-13	11/23/1993	A	948.93	45.9	903.03
IO-13	12/14/1993	A	948.93	45.4	903.53
IO-13	1/27/1994	A	948.93	45	903.93
IO-13	2/25/1994	A	948.93	45.1	903.83
IO-13	3/21/1994	A	948.93	45.5	903.43
IO-13	3/27/1994	A	948.93	45.6	903.33
IO-13	3/31/1994	A	948.93	45.5	903.43
IO-13	4/13/1994	A	948.93	45.8	903.13
IO-13	4/27/1994	A	948.93	46.2	902.73
IO-13	5/25/1994	A	948.93	46.6	902.33
IO-13	6/3/1994	A	948.93	46.6	902.33
IO-13	7/21/1994	A	948.93	47.8	901.13
IO-13	8/25/1994	A	948.93	48.9	900.03
IO-13	9/23/1994	A	948.93	48.9	900.03
IO-13	10/12/1994	A	948.93	48.7	900.23
IO-13	11/18/1994	A	948.93	47.5	901.43
IO-13	12/30/1994	A	948.93	46.5	902.43
IO-13	1/31/1995	A	948.93	45.9	903.03
IO-13	2/24/1995	A	948.93	45.7	903.23
IO-13	3/31/1995	A	948.93	45.4	903.53
IO-13	4/21/1995	A	948.93	45.9	903.03
IO-13	5/26/1995	A	948.93	45.5	903.43
IO-13	6/23/1995	A	948.93	46.04	902.89
IO-13	7/27/1995	A	948.93	47.68	901.25
IO-13	8/30/1995	A	948.93	48.46	900.47
IO-13	9/29/1995	A	948.93	57.86	891.07
IO-13	10/27/1995	A	948.93	46.58	902.35
IO-13	11/28/1995	A	948.93	45.64	903.29
IO-13	12/30/1995	A	948.93	45.28	903.65
IO-13	1/31/1996	A	948.93	45	903.93
IO-13	2/20/1996	A	948.93	44.9	904.03
IO-13	3/30/1996	A	948.93	45	903.93
IO-13	4/29/1996	A	948.93	45.95	902.98
IO-13	5/31/1996	A	948.93	46.35	902.58
IO-13	6/28/1996	A	948.93	47.37	901.56
IO-13	7/31/1996	A	948.93	48.95	899.98
IO-13	8/30/1996	A	948.93	49.71	899.22
IO-13	9/28/1996	A	948.93	48.5	900.43
IO-13	10/30/1996	A	948.93	47.92	901.01
IO-13	1/15/1997	A	948.93	46.32	902.61
IO-13	4/29/1997	A	948.93	46.8	902.13
IO-13	7/29/1997	A	948.93	38.94	909.99
IO-13	1/30/1998	A	948.93	46.8	902.13
IO-13	5/8/1998	A	948.93	46.22	902.71
IO-13	7/29/1998	A	948.93	47.5	901.43
IO-13	10/29/1998	A	948.93	46.7	902.23

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-13	1/28/1999	A	948.93	45.23	903.7
IO-13	4/29/1999	A	948.93	46.13	902.8
IO-13	8/5/1999	A	948.93	49.45	899.48
IO-13	10/13/1999	A	948.93	50.1	898.83
IO-13	2/9/2000	A	948.93	46.5	902.43
IO-13	5/2/2000	A	948.93	46.65	902.28
IO-13	8/3/2000	A	948.93	49.95	898.98
IO-13	10/25/2000	A	948.93	51	897.93
IO-13	1/31/2001	A	948.93	47.62	901.31
IO-13	5/25/2001	A	948.93	48	900.93
IO-13	8/1/2001	A	948.93	50	898.93
IO-13	10/30/2001	A	948.93	50.47	898.46
IO-13	1/31/2002	A	948.93	49.15	899.78
IO-13	5/14/2002	A	948.93	49.1	899.83
IO-13	8/1/2002	A	948.93	52.2	896.73
IO-13	11/1/2002	A	948.93	53.25	895.68
IO-13	1/31/2003	A	948.93	49.65	899.28
IO-13	4/30/2003	A	948.93	49.3	899.63
IO-13	8/8/2003	A	948.93	50.9	898.03
IO-13	10/29/2003	A	948.93	51.9	897.03
IO-13	1/29/2004	A	948.93	49.15	899.78
IO-13	4/30/2004	A	948.93	49.7	899.23
IO-13	7/30/2004	A	948.93	54.15	894.78
IO-13	11/2/2004	A	948.93	52.35	896.58
IO-13	1/28/2005	A	948.93	49.3	899.63
IO-13	5/6/2005	A	948.93	48.7	900.23
IO-13	7/26/2005	A	948.93	50.6	898.33
IO-13	10/28/2005	A	948.93	50	898.93
IO-13	1/27/2006	A	948.93	48.85	900.08
IO-13	5/4/2006	A	948.93	48.8	900.13
IO-13	7/26/2006	A	948.93	55.4	893.53
IO-13	10/31/2006	A	948.93	52.3	896.63
IO-13	1/30/2007	A	948.93	51.4	897.53
IO-13	5/2/2007	A	948.93	52.25	896.68
IO-13	8/1/2007	A	948.93	55.1	893.83
IO-13	10/9/2007	A	948.93	57.78	891.15
IO-13	1/7/2008	A	948.93	56.64	892.29
IO-13	4/14/2008	A	948.93	54.29	894.64
IO-13	8/1/2008	A	948.93	53.74	895.19
IO-13	11/17/2008	A	948.93	54.9	894.03
IO-13	2/16/2009	A	948.93	53.15	895.78
IO-13	5/18/2009	A	948.93	53.15	895.78
IO-13	8/24/2009	A	950.99	56.62	894.37
IO-13	11/17/2009	A	950.99	57.19	893.8
IO-13	2/1/2010	A	950.99	54.74	896.25
IO-13	5/4/2010	A	950.99	52.75	898.24
IO-13	8/23/2010	A	950.99	54.21	896.78
IO-13	11/29/2010	A	950.99	55.75	895.24
IO-13	2/3/2011	A	950.99	53.47	897.52
IO-13	5/3/2011	A	950.99	50.79	900.2
IO-13	8/1/2011	A	950.99	54.95	896.04
IO-13	11/2/2011	A	950.99	33.4	917.59
IO-13	2/1/2012	A	950.549	54.97	895.579

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-13	5/1/2012	A	950.549	56	894.549
IO-13	8/1/2012	A	950.549	56.37	894.179
IO-13	11/1/2012	A	950.549	59.49	891.059
IO-13	2/4/2013	A	950.549	56.74	893.809
IO-13	5/1/2013	A	950.549	54.39	896.159
IO-13	8/5/2013	A	950.99	58.68	892.31
IO-13	11/4/2013	A	950.99	60	890.99
IO-14	3/30/1992	A	932.12	32.55	899.57
IO-14	5/15/1992	A	932.12	28.75	903.37
IO-14	7/22/1992	A	932.12	32.2	899.92
IO-14	7/31/1992	A	932.12	32.4	899.72
IO-14	8/24/1992	A	932.12	32.45	899.67
IO-14	10/2/1992	A	932.12	32.4	899.72
IO-14	10/27/1992	A	932.12	32.1	900.02
IO-14	11/23/1992	A	932.12	30.7	901.42
IO-14	1/5/1993	A	932.12	29.9	902.22
IO-14	2/4/1993	A	932.12	28.2	903.92
IO-14	3/11/1993	A	932.12	26.75	905.37
IO-14	4/15/1993	A	932.12	27.1	905.02
IO-14	5/18/1993	A	932.12	29.2	902.92
IO-14	6/11/1993	A	932.12	28.3	903.82
IO-14	7/13/1993	A	932.12	29.1	903.02
IO-14	8/9/1993	A	932.12	29.8	902.32
IO-14	9/24/1993	A	932.12	29.8	902.32
IO-14	10/28/1993	A	932.12	30.1	902.02
IO-14	11/23/1993	A	932.12	29.9	902.22
IO-14	12/14/1993	A	932.12	29.6	902.52
IO-14	1/26/1994	A	932.12	28.9	903.22
IO-14	2/25/1994	A	932.12	28.6	903.52
IO-14	3/21/1994	A	932.12	29.1	903.02
IO-14	3/24/1994	A	932.12	29	903.12
IO-14	3/30/1994	A	932.12	29	903.12
IO-14	4/13/1994	A	932.12	29.5	902.62
IO-14	4/27/1994	A	932.12	30.2	901.92
IO-14	5/25/1994	A	932.12	31	901.12
IO-14	6/2/1994	A	932.12	30.9	901.22
IO-14	7/21/1994	A	932.12	34.6	897.52
IO-14	8/25/1994	A	932.12	37	895.12
IO-14	9/23/1994	A	932.12	36.3	895.82
IO-14	10/12/1994	A	932.12	36.2	895.92
IO-14	11/18/1994	A	932.12	33.8	898.32
IO-14	12/30/1994	A	932.12	31.1	901.02
IO-14	1/31/1995	A	932.12	30	902.12
IO-14	2/24/1995	A	932.12	29.7	902.42
IO-14	3/31/1995	A	932.12	29.9	902.22
IO-14	4/21/1995	A	932.12	30.7	901.42
IO-14	5/26/1995	A	932.12	30	902.12
IO-14	6/23/1995	A	932.12	30.94	901.18
IO-14	7/27/1995	A	932.12	33.95	898.17
IO-14	8/30/1995	A	932.12	35.39	896.73
IO-14	9/29/1995	A	932.12	34.56	897.56
IO-14	10/27/1995	A	932.12	31.55	900.57
IO-14	11/29/1995	A	932.12	29.85	902.27

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-14	12/30/1995	A	932.12	29.52	902.6
IO-14	1/31/1996	A	932.12	28.37	903.75
IO-14	2/20/1996	A	932.12	28.3	903.82
IO-14	3/30/1996	A	932.12	28.95	903.17
IO-14	4/29/1996	A	932.12	30	902.12
IO-14	5/31/1996	A	932.12	30.55	901.57
IO-14	6/28/1996	A	932.12	32.15	899.97
IO-14	7/31/1996	A	932.12	34.33	897.79
IO-14	8/30/1996	A	932.12	35.52	896.6
IO-14	9/28/1996	A	932.12	33.57	898.55
IO-14	10/30/1996	A	932.12	32.48	899.64
IO-14	1/16/1997	A	932.12	19.77	912.35
IO-14	4/29/1997	A	932.12	30.66	901.46
IO-14	7/29/1997	A	932.12	34.25	897.87
IO-14	1/30/1998	A	932.12	31.8	900.32
IO-14	5/8/1998	A	932.12	31.6	900.52
IO-14	7/30/1998	A	932.12	33.7	898.42
IO-14	10/29/1998	A	932.12	32.52	899.6
IO-14	1/29/1999	A	932.12	31.2	900.92
IO-14	4/29/1999	A	932.12	31.93	900.19
IO-14	8/5/1999	A	932.12	36.65	895.47
IO-14	10/13/1999	A	932.12	37.7	894.42
IO-14	2/9/2000	A	932.12	31.93	900.19
IO-14	5/3/2000	A	932.12	31.95	900.17
IO-14	8/3/2000	A	932.12	37.9	894.22
IO-14	10/25/2000	A	932.12	39	893.12
IO-14	2/1/2001	A	932.12	33.07	899.05
IO-14	5/25/2001	A	932.12	33.75	898.37
IO-14	8/1/2001	A	932.12	37.95	894.17
IO-14	10/31/2001	A	932.12	38.45	893.67
IO-14	2/1/2002	A	932.12	35.35	896.77
IO-14	5/14/2002	A	932.12	35.25	896.87
IO-14	8/1/2002	A	932.12	40.05	892.07
IO-14	11/1/2002	A	932.12	41	891.12
IO-14	1/31/2003	A	932.12	36.1	896.02
IO-14	4/29/2003	A	932.12	35.1	897.02
IO-14	8/8/2003	A	932.12	39.1	893.02
IO-14	10/30/2003	A	932.12	38.65	893.47
IO-14	1/29/2004	A	932.12	35.55	896.57
IO-14	4/30/2004	A	932.12	35.1	897.02
IO-14	7/30/2004	A	932.12	39.75	892.37
IO-14	11/2/2004	A	932.12	38.65	893.47
IO-14	1/28/2005	A	932.12	36	896.12
IO-14	5/6/2005	A	932.12	34.2	897.92
IO-14	7/27/2005	A	932.12	36.85	895.27
IO-14	10/28/2005	A	932.12	37.7	894.42
IO-14	1/27/2006	A	932.12	35.5	896.62
IO-14	5/4/2006	A	932.12	34.9	897.22
IO-14	7/26/2006	A	932.12	46.05	886.07
IO-14	10/31/2006	A	932.12	37.7	894.42
IO-14	1/30/2007	A	932.12	35.3	896.82
IO-14	5/2/2007	A	932.12	35.9	896.22
IO-14	8/1/2007	A	932.12	40	892.12

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-14	10/11/2007	A	932.12	40.56	891.56
IO-14	1/8/2008	A	932.12	41.14	890.98
IO-14	4/14/2008	A	932.12	36.24	895.88
IO-14	8/1/2008	A	932.12	38.03	894.09
IO-14	11/17/2008	A	932.12	39.06	893.06
IO-14	2/16/2009	A	932.12	36.5	895.62
IO-14	5/18/2009	A	932.12	36.2	895.92
IO-14	8/24/2009	A	934.18	39.65	894.53
IO-14	11/17/2009	A	934.18	39.75	894.43
IO-14	2/1/2010	A	934.18	37.8	896.38
IO-14	5/4/2010	A	934.18	35.43	898.75
IO-14	8/23/2010	A	934.18	38.62	895.56
IO-14	11/29/2010	A	934.18	38.88	895.3
IO-14	2/3/2011	A	934.18	37.07	897.11
IO-14	5/3/2011	A	934.18	35.85	898.33
IO-14	8/1/2011	A	934.18	40.02	894.16
IO-14	11/2/2011	A	934.18	30	904.18
IO-14	2/1/2012	A	933.719	38.3	895.419
IO-14	5/1/2012	A	933.719	39.21	894.509
IO-14	8/1/2012	A	933.719	40.31	893.409
IO-14	11/1/2012	A	933.719	39.97	893.749
IO-14	2/4/2013	A	933.719	38.06	895.659
IO-14	5/1/2013	A	933.719	37.67	896.049
IO-14	8/5/2013	A	934.18	41.76	892.42
IO-14	11/4/2013	A	934.18	39.82	894.36
IO-16	5/14/1992	A	932.97	30.15	902.82
IO-16	7/22/1992	A	932.97	32.7	900.27
IO-16	7/31/1992	A	932.97	32.8	900.17
IO-16	8/24/1992	A	932.97	33.6	899.37
IO-16	10/2/1992	A	932.97	32.2	900.77
IO-16	10/27/1992	A	932.97	31.9	901.07
IO-16	11/23/1992	A	932.97	30.4	902.57
IO-16	1/5/1993	A	932.97	29.5	903.47
IO-16	2/4/1993	A	932.97	28.6	904.37
IO-16	3/11/1993	A	932.97	27.25	905.72
IO-16	4/15/1993	A	932.97	28.2	904.77
IO-16	5/18/1993	A	932.97	30.3	902.67
IO-16	6/11/1993	A	932.97	29.2	903.77
IO-16	7/13/1993	A	932.97	29.7	903.27
IO-16	8/9/1993	A	932.97	30	902.97
IO-16	9/24/1993	A	932.97	29.4	903.57
IO-16	10/28/1993	A	932.97	29.7	903.27
IO-16	11/23/1993	A	932.97	29.3	903.67
IO-16	12/14/1993	A	932.97	29.2	903.77
IO-16	1/26/1994	A	932.97	28.4	904.57
IO-16	2/25/1994	A	932.97	28.9	904.07
IO-16	3/21/1994	A	932.97	29.2	903.77
IO-16	3/24/1994	A	932.97	29.1	903.87
IO-16	3/30/1994	A	932.97	29.1	903.87
IO-16	4/13/1994	A	932.97	29.2	903.77
IO-16	4/27/1994	A	932.97	29.5	903.47
IO-16	5/25/1994	A	932.97	30.7	902.27
IO-16	6/2/1994	A	932.97	30.1	902.87

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-16	7/21/1994	A	932.97	32.3	900.67
IO-16	8/25/1994	A	932.97	33.8	899.17
IO-16	9/23/1994	A	932.97	33.8	899.17
IO-16	10/12/1994	A	932.97	33.2	899.77
IO-16	11/18/1994	A	932.97	32.1	900.87
IO-16	12/30/1994	A	932.97	29.8	903.17
IO-16	1/31/1995	A	932.97	29.1	903.87
IO-16	2/24/1995	A	932.97	29.2	903.77
IO-16	3/31/1995	A	932.97	29.4	903.57
IO-16	4/21/1995	A	932.97	30	902.97
IO-16	5/26/1995	A	932.97	29.4	903.57
IO-16	6/23/1995	A	932.97	29.96	903.01
IO-16	7/27/1995	A	932.97	31.91	901.06
IO-16	8/30/1995	A	932.97	32.38	900.59
IO-16	9/29/1995	A	932.97	32.54	900.43
IO-16	1/31/1996	A	932.97	29.27	903.7
IO-16	2/20/1996	A	932.97	29.36	903.61
IO-16	3/30/1996	A	932.97	29.75	903.22
IO-16	4/29/1996	A	932.97	30.75	902.22
IO-16	5/31/1996	A	932.97	31.04	901.93
IO-16	6/28/1996	A	932.97	31.92	901.05
IO-16	7/31/1996	A	932.97	33.3	899.67
IO-16	8/30/1996	A	932.97	33.32	899.65
IO-16	9/28/1996	A	932.97	32.44	900.53
IO-16	10/30/1996	A	932.97	31.9	901.07
IO-16	1/16/1997	A	932.97	30.18	902.79
IO-16	4/29/1997	A	932.97	30.82	902.15
IO-16	7/29/1997	A	932.97	32.32	900.65
IO-16	1/30/1998	A	932.97	30.35	902.62
IO-16	5/8/1998	A	932.97	30.27	902.7
IO-16	7/30/1998	A	932.97	31.63	901.34
IO-16	10/29/1998	A	932.97	31	901.97
IO-16	1/29/1999	A	932.97	30.1	902.87
IO-16	4/29/1999	A	932.97	30.8	902.17
IO-16	8/5/1999	A	932.97	35.92	897.05
IO-16	10/13/1999	A	932.97	34.6	898.37
IO-16	2/9/2000	A	932.97	30.55	902.42
IO-16	5/3/2000	A	932.97	30.85	902.12
IO-16	8/3/2000	A	932.97	33.9	899.07
IO-16	10/25/2000	A	932.97	35.8	897.17
IO-16	2/1/2001	A	932.97	31.7	901.27
IO-16	5/25/2001	A	932.97	32.7	900.27
IO-16	8/1/2001	A	932.97	34.3	898.67
IO-16	10/31/2001	A	932.97	35	897.97
IO-16	1/31/2002	A	932.97	33.9	899.07
IO-16	5/14/2002	A	932.97	33.87	899.1
IO-16	8/1/2002	A	932.97	34.05	898.92
IO-16	11/1/2002	A	932.97	46.8	886.17
IO-16	1/31/2003	A	932.97	33.1	899.87
IO-16	4/30/2003	A	932.97	33.2	899.77
IO-16	8/8/2003	A	932.97	36	896.97
IO-16	10/30/2003	A	932.97	33.8	899.17
IO-16	1/29/2004	A	932.97	32.97	900

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-16	4/30/2004	A	932.97	33.57	899.4
IO-16	7/30/2004	A	932.97	34	898.97
IO-16	11/2/2004	A	932.97	33.8	899.17
IO-16	1/28/2005	A	932.97	33	899.97
IO-16	5/6/2005	A	932.97	32.5	900.47
IO-16	7/27/2005	A	932.97	33.7	899.27
IO-16	10/28/2005	A	932.97	34.3	898.67
IO-16	1/27/2006	A	932.97	33.55	899.42
IO-16	5/4/2006	A	932.97	36.3	896.67
IO-16	7/26/2006	A	932.97	49.55	883.42
IO-16	10/31/2006	A	932.97	40.45	892.52
IO-16	1/30/2007	A	932.97	35.05	897.92
IO-16	5/2/2007	A	932.97	36.15	896.82
IO-16	8/1/2007	A	932.97	41.3	891.67
IO-16	10/9/2007	A	932.97	42.26	890.71
IO-16	1/7/2008	A	932.97	41.89	891.08
IO-16	4/14/2008	A	932.97	33.58	899.39
IO-16	8/4/2008	A	932.97	20.89	912.08
IO-16	11/17/2008	A	932.97	34.97	898
IO-16	2/16/2009	A	932.97	33.2	899.77
IO-16	5/18/2009	A	932.97	33.6	899.37
IO-16	8/24/2009	A	935.03	35.5	899.53
IO-16	11/17/2009	A	935.03	35.95	899.08
IO-16	2/1/2010	A	935.03	34.42	900.61
IO-16	5/4/2010	A	935.03	33.46	901.57
IO-16	8/23/2010	A	935.03	35.42	899.61
IO-16	11/29/2010	A	935.03	35.55	899.48
IO-16	2/3/2011	A	935.03	34.07	900.96
IO-16	5/3/2011	A	935.03	33.53	901.5
IO-16	8/1/2011	A	935.03	37.51	897.52
IO-16	11/2/2011	A	935.003	35.83	899.17
IO-16	2/1/2012	A	934.561	34.2	900.361
IO-16	5/1/2012	A	934.561	36.03	898.531
IO-16	8/1/2012	A	934.561	35.72	898.841
IO-16	11/1/2012	A	934.561	38.27	896.291
IO-16	2/4/2013	A	934.561	34.92	899.641
IO-16	5/1/2013	A	934.561	34.11	900.451
IO-16	8/5/2013	A	935.03	34.59	900.44
IO-16	11/4/2013	A	935.03	36.9	898.13
IO-17	3/30/1992	A	943.79	42.2	901.59
IO-17	5/14/1992	A	943.79	44.1	899.69
IO-17	7/23/1992	A	943.79	44.3	899.49
IO-17	7/31/1992	A	943.79	44.4	899.39
IO-17	8/24/1992	A	943.79	46.9	896.89
IO-17	10/12/1992	A	943.79	43.6	900.19
IO-17	10/27/1992	A	943.79	42.8	900.99
IO-17	11/23/1992	A	943.79	42.5	901.29
IO-17	1/8/1993	A	943.79	42.8	900.99
IO-17	2/4/1993	A	943.79	40.6	903.19
IO-17	3/11/1993	A	943.79	39.6	904.19
IO-17	4/15/1993	A	943.79	40.1	903.69
IO-17	5/18/1993	A	943.79	41.35	902.44
IO-17	6/11/1993	A	943.79	40.9	902.89

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-17	7/13/1993	A	943.79	40.6	903.19
IO-17	8/9/1993	A	943.79	40.5	903.29
IO-17	9/24/1993	A	943.79	39.6	904.19
IO-17	10/28/1993	A	943.79	40.3	903.49
IO-17	11/23/1993	A	943.79	39.7	904.09
IO-17	12/14/1993	A	943.79	39.3	904.49
IO-17	1/27/1994	A	943.79	38.3	905.49
IO-17	2/25/1994	A	943.79	39.1	904.69
IO-17	3/21/1994	A	943.79	39.7	904.09
IO-17	3/24/1994	A	943.79	39.5	904.29
IO-17	3/30/1994	A	943.79	39.7	904.09
IO-17	4/13/1994	A	943.79	39.5	904.29
IO-17	4/27/1994	A	943.79	39.4	904.39
IO-17	5/25/1994	A	943.79	40.7	903.09
IO-17	6/2/1994	A	943.79	40	903.79
IO-17	7/21/1994	A	943.79	41.4	902.39
IO-17	8/25/1994	A	943.79	42.4	901.39
IO-17	9/23/1994	A	943.79	43.1	900.69
IO-17	10/12/1994	A	943.79	42.1	901.69
IO-17	11/18/1994	A	943.79	42.2	901.59
IO-17	12/30/1994	A	943.79	39.7	904.09
IO-17	1/31/1995	A	943.79	39.9	903.89
IO-17	2/24/1995	A	943.79	40.1	903.69
IO-17	3/31/1995	A	943.79	40.2	903.59
IO-17	4/21/1995	A	943.79	40.6	903.19
IO-17	5/26/1995	A	943.79	39.7	904.09
IO-17	6/23/1995	A	943.79	40.01	903.78
IO-17	7/27/1995	A	943.79	41.02	902.77
IO-17	8/30/1995	A	943.79	41.2	902.59
IO-17	9/29/1995	A	943.79	41.48	902.31
IO-17	1/31/1996	A	943.79	40	903.79
IO-17	2/20/1996	A	943.79	40	903.79
IO-17	3/30/1996	A	943.79	40.25	903.54
IO-17	4/29/1996	A	943.79	40.29	903.5
IO-17	5/31/1996	A	943.79	40.87	902.92
IO-17	6/28/1996	A	943.79	42.65	901.14
IO-17	7/31/1996	A	943.79	44.53	899.26
IO-17	8/30/1996	A	943.79	45.9	897.89
IO-17	9/28/1996	A	943.79	41.6	902.19
IO-17	10/30/1996	A	943.79	41.27	902.52
IO-17	1/16/1997	A	943.79	40.38	903.41
IO-17	4/29/1997	A	943.79	40.06	903.73
IO-17	7/29/1997	A	943.79	41.91	901.88
IO-17	1/30/1998	A	943.79	40.84	902.95
IO-17	5/8/1998	A	943.79	40	903.79
IO-17	7/30/1998	A	943.79	40.9	902.89
IO-17	10/29/1998	A	943.79	40.35	903.44
IO-17	1/29/1999	A	943.79	39.65	904.14
IO-17	4/29/1999	A	943.79	39.3	904.49
IO-17	8/5/1999	A	943.79	46.5	897.29
IO-17	10/13/1999	A	943.79	43.3	900.49
IO-17	2/9/2000	A	943.79	40.55	903.24
IO-17	5/3/2000	A	943.79	40.95	902.84

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-17	8/3/2000	A	943.79	43.95	899.84
IO-17	10/25/2000	A	943.79	45.3	898.49
IO-17	1/31/2001	A	943.79	41.2	902.59
IO-17	5/25/2001	A	943.79	42.67	901.12
IO-17	8/1/2001	A	943.79	44.1	899.69
IO-17	10/31/2001	A	943.79	44.8	898.99
IO-17	1/31/2002	A	943.79	43.55	900.24
IO-17	5/14/2002	A	943.79	43.65	900.14
IO-17	8/1/2002	A	943.79	44.35	899.44
IO-17	11/1/2002	A	943.79	49.9	893.89
IO-17	1/31/2003	A	943.79	43.37	900.42
IO-17	4/30/2003	A	943.79	42.38	901.41
IO-17	8/8/2003	A	943.79	43.55	900.24
IO-17	10/30/2003	A	943.79	41.85	901.94
IO-17	1/29/2004	A	943.79	41.55	902.24
IO-17	4/30/2004	A	943.79	43.15	900.64
IO-17	7/30/2004	A	943.79	43.2	900.59
IO-17	11/2/2004	A	943.79	42.4	901.39
IO-17	1/28/2005	A	943.79	41.85	901.94
IO-17	5/6/2005	A	943.79	41.4	902.39
IO-17	7/26/2005	A	943.79	42.4	901.39
IO-17	10/28/2005	A	943.79	42.05	901.74
IO-17	1/27/2006	A	943.79	42.4	901.39
IO-17	5/4/2006	A	943.79	42.42	901.37
IO-17	7/26/2006	A	943.79	58.7	885.09
IO-17	10/31/2006	A	943.79	51.25	892.54
IO-17	1/30/2007	A	943.79	47.65	896.14
IO-17	5/2/2007	A	943.79	47.85	895.94
IO-17	8/1/2007	A	943.79	53	890.79
IO-17	10/9/2007	A	943.79	56.04	887.75
IO-17	1/7/2008	A	943.79	56.48	887.31
IO-17	4/14/2008	A	943.79	51.27	892.52
IO-17	8/1/2008	A	943.79	53.07	890.72
IO-17	11/17/2008	A	943.79	54.95	888.84
IO-17	2/16/2009	A	943.79	50.5	893.29
IO-17	5/18/2009	A	943.79	50.5	893.29
IO-17	8/24/2009	A	945.85	57.86	887.99
IO-17	11/17/2009	A	945.85	58.63	887.22
IO-17	2/1/2010	A	945.85	51.75	894.1
IO-17	5/4/2010	A	945.85	48.98	896.87
IO-17	8/23/2010	A	945.85	52.31	893.54
IO-17	11/29/2010	A	945.85	53.97	891.88
IO-17	2/3/2011	A	945.85	51	894.85
IO-17	5/3/2011	A	945.85	47.9	897.95
IO-17	8/1/2011	A	945.85	55.68	890.17
IO-17	11/2/2011	A	945.85	59.08	886.77
IO-17	2/1/2012	A	945.318	53.3	892.018
IO-17	5/1/2012	A	945.318	54.75	890.568
IO-17	8/1/2012	A	945.318	59.68	885.638
IO-17	11/1/2012	A	945.318	62.06	883.258
IO-17	2/4/2013	A	945.318	53.8	891.518
IO-17	5/1/2013	A	945.318	47.87	897.448
IO-17	8/5/2013	A	945.85	59.83	886.02

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-17	11/4/2013	A	945.85	60.82	885.03
IO-18	3/30/1992	A	954.54	54.55	899.99
IO-18	5/14/1992	A	954.54	54.85	899.69
IO-18	7/23/1992	A	954.54	56.6	897.94
IO-18	7/31/1992	A	954.54	56.7	897.84
IO-18	8/24/1992	A	954.54	57.6	896.94
IO-18	10/12/1992	A	954.54	55.5	899.04
IO-18	10/27/1992	A	954.54	55.2	899.34
IO-18	11/23/1992	A	954.54	54.7	899.84
IO-18	1/29/1993	A	954.54	53.7	900.84
IO-18	2/4/1993	A	954.54	42.4	912.14
IO-18	3/11/1993	A	954.54	50.95	903.59
IO-18	4/15/1993	A	954.54	50.4	904.14
IO-18	5/18/1993	A	954.54	50.8	903.74
IO-18	6/11/1993	A	954.54	50.9	903.64
IO-18	7/13/1993	A	954.54	51.8	902.74
IO-18	8/9/1993	A	954.54	52.7	901.84
IO-18	9/24/1993	A	954.54	52.9	901.64
IO-18	10/28/1993	A	954.54	51.7	902.84
IO-18	11/23/1993	A	954.54	50.3	904.24
IO-18	12/14/1993	A	954.54	50	904.54
IO-18	1/27/1994	A	954.54	49.5	905.04
IO-18	2/25/1994	A	954.54	49.6	904.94
IO-18	3/21/1994	A	954.54	50	904.54
IO-18	3/27/1994	A	954.54	50	904.54
IO-18	3/31/1994	A	954.54	49.9	904.64
IO-18	4/13/1994	A	954.54	50	954.04
IO-18	4/27/1994	A	954.54	50.3	904.24
IO-18	5/25/1994	A	954.54	51	903.54
IO-18	6/3/1994	A	954.54	50.8	903.74
IO-18	7/21/1994	A	954.54	53.2	901.34
IO-18	8/25/1994	A	954.54	54.3	900.24
IO-18	9/23/1994	A	954.54	54	900.54
IO-18	10/12/1994	A	954.54	53.5	901.04
IO-18	11/18/1994	A	954.54	52.5	902.04
IO-18	12/30/1994	A	954.54	51.5	903.04
IO-18	1/31/1995	A	954.54	51	903.54
IO-18	2/24/1995	A	954.54	50.9	903.64
IO-18	3/31/1995	A	954.54	50.5	904.04
IO-18	4/21/1995	A	954.54	50.9	903.64
IO-18	5/26/1995	A	954.54	50.4	904.14
IO-18	6/23/1995	A	954.54	50.95	903.59
IO-18	7/27/1995	A	954.54	52.5	902.04
IO-18	8/30/1995	A	954.54	53.22	901.32
IO-18	9/29/1995	A	954.54	52.77	901.77
IO-18	1/31/1996	A	954.54	50.21	904.33
IO-18	2/20/1996	A	954.54	50.15	904.39
IO-18	3/30/1996	A	954.54	50.23	904.31
IO-18	4/29/1996	A	954.54	51.15	903.39
IO-18	5/31/1996	A	954.54	51.55	902.99
IO-18	6/28/1996	A	954.54	52.53	902.01
IO-18	7/31/1996	A	954.54	54.02	900.52
IO-18	8/30/1996	A	954.54	54.58	899.96

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-18	9/28/1996	A	954.54	53.55	900.99
IO-18	10/30/1996	A	954.54	53.02	901.52
IO-18	1/15/1997	A	954.54	51.7	902.84
IO-18	4/29/1997	A	954.54	51.95	902.59
IO-18	7/29/1997	A	954.54	54.03	900.51
IO-18	1/30/1998	A	954.54	52	902.54
IO-18	5/8/1998	A	954.54	51.4	903.14
IO-18	7/29/1998	A	954.54	52.5	902.04
IO-18	10/29/1998	A	954.54	51.8	902.74
IO-18	1/28/1999	A	954.54	50.5	904.04
IO-18	4/29/1999	A	954.54	51.45	903.09
IO-18	8/5/1999	A	954.54	54.62	899.92
IO-18	10/13/1999	A	954.54	55.2	899.34
IO-18	2/9/2000	A	954.54	51.8	902.74
IO-18	5/2/2000	A	954.54	52	902.54
IO-18	8/3/2000	A	954.54	55.2	899.34
IO-18	10/25/2000	A	954.54	56.3	898.24
IO-18	1/31/2001	A	954.54	52.97	901.57
IO-18	5/25/2001	A	954.54	53.2	901.34
IO-18	8/1/2001	A	954.54	55.1	899.44
IO-18	10/30/2001	A	954.54	55.6	898.94
IO-18	1/31/2002	A	954.54	54.5	900.04
IO-18	5/14/2002	A	954.54	54.35	900.19
IO-18	8/1/2002	A	954.54	57.2	897.34
IO-18	11/1/2002	A	954.54	58.15	896.39
IO-18	1/31/2003	A	954.54	54.75	899.79
IO-18	4/30/2003	A	954.54	54.45	900.09
IO-18	8/8/2003	A	954.54	56.2	898.34
IO-18	10/29/2003	A	954.54	56.85	897.69
IO-18	1/29/2004	A	954.54	54.65	899.89
IO-18	4/30/2004	A	954.54	55	899.54
IO-18	7/30/2004	A	954.54	58.95	895.59
IO-18	11/2/2004	A	954.54	57.25	897.29
IO-18	1/28/2005	A	954.54	54.8	899.74
IO-18	5/6/2005	A	954.54	54.1	900.44
IO-18	7/26/2005	A	954.54	56.25	898.29
IO-18	10/28/2005	A	954.54	55.4	899.14
IO-18	1/27/2006	A	954.54	54.4	900.14
IO-18	5/4/2006	A	954.54	53.55	900.99
IO-18	7/26/2006	A	954.54	59.6	894.94
IO-18	10/31/2006	A	954.54	56.35	898.19
IO-18	1/30/2007	A	954.54	56.25	898.29
IO-18	5/2/2007	A	954.54	58	896.54
IO-18	8/1/2007	A	954.54	59.35	895.19
IO-18	10/9/2007	A	954.54	60.4	894.14
IO-18	1/7/2008	A	954.54	61.43	893.11
IO-18	4/14/2008	A	954.54	59.75	894.79
IO-18	8/1/2008	A	954.54	57.4	897.14
IO-18	11/17/2008	A	954.54	58.4	896.14
IO-18	2/16/2009	A	954.54	57.35	897.19
IO-18	5/18/2009	A	954.54	57.5	897.04
IO-18	8/24/2009	A	956.6	60.3	896.3
IO-18	11/17/2009	A	956.6	60.65	895.95

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
IO-18	2/1/2010	A	956.6	60.53	896.07
IO-18	5/4/2010	A	956.6	57.76	898.84
IO-18	8/23/2010	A	956.6	58.74	897.86
IO-18	11/29/2010	A	956.6	60.9	895.7
IO-18	2/3/2011	A	956.6	58.65	897.95
IO-18	5/3/2011	A	956.6	56.33	900.27
IO-18	8/1/2011	A	956.6	59.65	896.95
IO-18	11/2/2011	A	956.6	36.5	920.1
IO-18	2/1/2012	A	956.128	58.65	897.478
IO-18	5/1/2012	A	956.128	61.28	894.848
IO-18	8/1/2012	A	956.128	60.36	895.768
IO-18	11/1/2012	A	956.128	65.08	891.048
IO-18	2/4/2013	A	956.128	62.89	893.238
IO-18	5/1/2013	A	956.128	59.76	896.368
IO-18	8/5/2013	A	956.6	64.15	892.45
IO-18	11/4/2013	A	956.6		
NE-01	6/19/1990	A	942.45	48.82	893.63
NE-01	7/18/1990	A	942.45	51.47	890.98
NE-01	8/17/1990	A	942.45	52.62	889.83
NE-01	9/22/1990	A	942.45	49.22	893.23
NE-01	10/18/1990	A	941.48	47.2	894.28
NE-01	11/24/1990	A	941.48	46.4	895.08
NE-01	12/18/1990	A	941.48	45.6	895.88
NE-01	1/23/1991	A	941.48	46.6	894.88
NE-01	10/31/1991	A	941.48	48.1	893.38
NE-01	11/17/1991	A	941.48	47.25	894.23
NE-01	1/21/1992	A	941.48	46.5	894.98
NE-01	2/23/1992	A	941.48	45.25	896.23
NE-01	3/30/1992	A	942.45	46.95	895.5
NE-01	5/15/1992	A	942.45	47.8	894.65
NE-01	7/13/1992	A	942.45	51	891.45
NE-01	7/31/1992	A	942.45	52	890.45
NE-01	12/15/1992	A	942.45	47.5	894.95
NE-01	1/12/1993	A	942.45	44.5	897.95
NE-01	1/26/1993	A	942.45	44	898.45
NE-01	2/2/1993	A	942.45	43.6	898.85
NE-01	2/4/1993	A	942.45	43.5	898.95
NE-01	2/16/1993	A	942.45	42.8	899.65
NE-01	2/23/1993	A	942.45	42.4	900.05
NE-01	3/9/1993	A	942.45	42	900.45
NE-01	3/15/1993	A	942.45	42	900.45
NE-01	3/25/1993	A	942.45	42.3	900.15
NE-01	3/30/1993	A	942.45	42	900.45
NE-01	4/6/1993	A	942.45	42	900.45
NE-01	4/13/1993	A	942.45	42.5	899.95
NE-01	5/18/1993	A	942.45	43	899.45
NE-01	5/25/1993	A	942.45	43.5	898.95
NE-01	6/1/1993	A	942.45	43.2	899.25
NE-01	7/13/1993	A	942.45	46.5	895.95
NE-01	7/20/1993	A	942.45	46.6	895.85
NE-01	7/27/1993	A	942.45	42.1	900.35
NE-01	8/3/1993	A	942.45	47.6	894.85
NE-01	3/27/1994	A	942.45	47.6	894.85

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
NE-01	3/31/1994	A	942.45	43.2	899.25
NE-01	4/14/1994	A	942.45	44.4	898.05
NE-01	5/26/1994	A	942.45	44.4	898.05
NE-01	7/21/1994	A	942.45	50.2	892.25
NE-01	8/25/1994	A	942.45	54.1	888.35
NE-01	9/23/1994	A	942.45	51.1	891.35
NE-01	10/11/1994	A	942.45	49.9	892.55
NE-01	11/18/1994	A	942.45	46	896.45
NE-01	12/29/1994	A	942.45	44.9	897.55
NE-01	1/31/1995	A	942.45	43.6	898.85
NE-01	2/24/1995	A	942.45	43.6	898.85
NE-01	3/31/1995	A	942.45	43.5	898.95
NE-01	10/27/1995	A	942.45	45.9	896.55
NE-01	11/29/1995	A	942.45	44.3	898.15
NE-01	12/30/1995	A	942.45	44.15	898.3
NE-02	5/22/1990	A	942.04	58.17	883.87
NE-02	6/19/1990	A	942.04	58.67	883.37
NE-02	7/18/1990	A	942.04	59.22	882.82
NE-02	8/17/1990	A	942.04	62.97	879.07
NE-02	9/23/1990	A	942.04	55.12	886.92
NE-02	10/21/1990	A	941.07	53.85	887.22
NE-02	11/24/1990	A	941.07	52	889.07
NE-02	12/18/1990	A	941.07	50.2	890.87
NE-02	1/23/1991	A	941.07	54	887.07
NE-02	10/31/1991	A	941.07	46.75	894.32
NE-02	11/17/1991	A	941.07	45.9	895.17
NE-02	2/23/1992	A	941.07	43.08	897.99
NE-02	3/30/1992	A	942.04	34.75	907.29
NE-02	5/15/1992	A	942.04	34.5	907.54
NE-02	7/13/1992	A	942.04	34.4	907.64
NE-02	7/31/1992	A	942.04	57.7	884.34
NE-02	1/29/1993	A	942.04	34.4	907.64
NE-02	2/4/1993	A	942.04	34.4	907.64
NE-02	3/15/1993	A	942.04	34.4	907.64
NE-02	3/25/1993	A	942.04	34.5	907.54
NE-02	3/30/1993	A	942.04	34.5	907.54
NE-02	4/6/1993	A	942.04	34.4	907.64
NE-02	4/13/1993	A	942.04	34.5	907.54
NE-02	4/20/1993	A	942.04	35.4	906.64
NE-02	5/18/1993	A	942.04	34.4	907.64
NE-02	5/25/1993	A	942.04	34.4	907.64
NE-02	6/1/1993	A	942.04	34.4	907.64
NE-02	7/13/1993	A	942.04	34.4	907.64
NE-02	7/20/1993	A	942.04	34.4	907.64
NE-02	7/27/1993	A	942.04	34.5	907.54
NE-02	8/3/1993	A	942.04	34.5	907.54
NE-02	8/10/1993	A	942.04	34.4	907.64
NE-02	8/17/1993	A	942.04	34.5	907.54
NE-02	8/24/1993	A	942.04	34.4	907.64
NE-02	9/21/1993	A	942.04	34.4	907.64
NE-02	9/28/1993	A	942.04	34.4	907.64
NE-02	10/5/1993	A	942.04	34.4	907.64
NE-02	10/19/1993	A	942.04	34.5	907.54

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
NE-02	10/26/1993	A	942.04	34.4	907.64
NE-02	11/2/1993	A	942.04	34.4	907.64
NE-02	11/9/1993	A	942.04	34.3	907.74
NE-02	11/16/1993	A	942.04	34.4	907.64
NE-02	11/30/1993	A	942.04	34.4	907.64
NE-02	12/20/1993	A	942.04	34.5	907.54
NE-02	2/15/1994	A	942.04	34.4	907.64
NE-02	3/4/1994	A	942.04	34.4	907.64
NE-02	3/27/1994	A	942.04	34.4	907.64
NE-02	3/31/1994	A	942.04	34.4	907.64
NE-02	4/14/1994	A	942.04	34.4	907.64
NE-02	5/26/1994	A	942.04	47.8	894.24
NE-02	6/3/1994	A	942.04	48	894.04
NE-02	7/21/1994	A	942.04	52.4	889.64
NE-02	8/25/1994	A	942.04	55.3	886.74
NE-02	9/23/1994	A	942.04	53	889.04
NE-02	10/11/1994	A	942.04	52	890.04
NE-02	11/18/1994	A	942.04	49.2	892.84
NE-02	12/29/1994	A	942.04	48	894.04
NE-02	1/31/1995	A	942.04	46.9	895.14
NE-02	2/24/1995	A	942.04	47.3	894.74
NE-02	3/31/1995	A	942.04	47.1	894.94
NE-02	10/27/1995	A	942.04	48.6	893.44
NE-02	11/29/1995	A	942.04	46.05	895.99
NE-02	12/30/1995	A	942.04	49.05	892.99
NE-02	8/14/2008	A	942.04	65.66	876.38
NE-02	2/23/2010	A	944.1	54.44	889.66
NE-02	5/12/2010	A	944.1	53.2	890.9
NE-03	5/22/1990	A	942.46	56.27	886.19
NE-03	6/19/1990	A	942.46	58.47	883.99
NE-03	7/18/1990	A	942.46	59.07	883.39
NE-03	8/17/1990	A	942.46	67.62	874.84
NE-03	9/23/1990	A	942.46	45.52	896.94
NE-03	10/18/1990	A	942.46	59.02	883.44
NE-03	11/24/1990	A	942.46	45.67	896.79
NE-03	12/18/1990	A	942.46	55.47	886.99
NE-03	1/23/1991	A	942.46	55.97	886.49
NE-03	10/31/1991	A	942.46	46.77	895.69
NE-03	11/17/1991	A	941.69	45.35	896.34
NE-03	1/21/1992	A	941.69	53.5	888.19
NE-03	2/23/1992	A	941.69	51.13	890.56
NE-03	3/30/1992	A	942.46	55.85	886.61
NE-03	5/15/1992	A	942.46	57.1	885.36
NE-03	7/13/1992	A	942.46	59	883.46
NE-03	7/31/1992	A	942.46	61.2	881.26
NE-03	12/15/1992	A	942.46	60.6	881.86
NE-03	1/12/1993	A	942.46	42	900.46
NE-03	2/4/1993	A	942.46	40	902.46
NE-03	2/16/1993	A	942.46	39.2	903.26
NE-03	5/18/1993	A	942.46	47.7	894.76
NE-03	5/25/1993	A	942.46	51.3	891.16
NE-03	6/1/1993	A	942.46	51.2	891.26
NE-03	7/13/1993	A	942.46	55.5	886.96

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
NE-03	7/20/1993	A	942.46	56.2	886.26
NE-03	7/27/1993	A	942.46	57	885.46
NE-03	8/3/1993	A	942.46	57.3	885.16
NE-03	8/10/1993	A	942.46	57.5	884.96
NE-03	8/17/1993	A	942.46	58.7	883.76
NE-03	8/24/1993	A	942.46	59.3	883.16
NE-03	8/31/1993	A	942.46	57.6	884.86
NE-03	9/21/1993	A	942.46	57.8	884.66
NE-03	9/28/1993	A	942.46	57.3	885.16
NE-03	10/5/1993	A	942.46	57.4	885.06
NE-03	10/19/1993	A	942.46	51.8	890.66
NE-03	10/26/1993	A	942.46	51.3	891.16
NE-03	11/2/1993	A	942.46	52	890.46
NE-03	11/9/1993	A	942.46	51.6	890.86
NE-03	11/16/1993	A	942.46	51.8	890.66
NE-03	11/30/1993	A	942.46	38.8	903.66
NE-03	12/20/1993	A	942.46	48.6	893.86
NE-03	2/15/1994	A	942.46	45.7	896.76
NE-03	3/4/1994	A	942.46	46	896.46
NE-03	3/31/1994	A	942.46	46	896.46
NE-03	4/14/1994	A	942.46	49.7	892.76
NE-03	5/26/1994	A	942.46	50.6	891.86
NE-03	6/3/1994	A	942.46	50.6	891.86
NE-03	7/21/1994	A	942.46	54.6	887.86
NE-03	8/25/1994	A	942.46	58.4	884.06
NE-03	9/23/1994	A	942.46	56.5	885.96
NE-03	10/11/1994	A	942.46	55.3	887.16
NE-03	11/18/1994	A	942.46	52.9	889.56
NE-03	12/29/1994	A	942.46	51.9	890.56
NE-03	1/31/1995	A	942.46	50.8	891.66
NE-03	2/24/1995	A	942.46	50.3	892.16
NE-03	2/24/1995	A	942.46	50.9	891.56
NE-03	3/31/1995	A	942.46	50.3	892.16
NE-03	10/27/1995	A	942.46	62.65	879.81
NE-03	11/29/1995	A	942.46	51.57	890.89
NE-03	12/30/1995	A	942.46	51.55	890.91
NE-03	8/14/2008	A	942.46	54.95	887.51
NE-03	2/23/2010	A	944.52	57.25	887.27
NE-03	5/12/2010	A	944.52	54.88	889.64
NE-04	5/22/1990	A	944.83	57.34	887.49
NE-04	6/19/1990	A	944.83	52.57	892.26
NE-04	7/18/1990	A	944.83	57.87	886.96
NE-04	8/17/1990	A	944.83	47.12	897.71
NE-04	9/23/1990	A	944.83	58.07	886.76
NE-04	10/18/1990	A	944.83	76.52	868.31
NE-04	11/24/1990	A	944.83	46.42	898.41
NE-04	1/23/1991	A	944.83	65.62	879.21
NE-04	10/31/1991	A	944.83	47.27	897.56
NE-04	11/17/1991	A	944.83	46.62	898.21
NE-04	1/21/1992	A	944.83	53.42	891.41
NE-04	2/23/1992	A	944.83	61.17	883.66
NE-04	3/30/1992	A	944.83	63	881.83
NE-04	5/15/1992	A	944.83	80.1	864.73

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
NE-04	7/13/1992	A	944.83	58.2	886.63
NE-04	7/31/1992	A	944.83	61.2	883.63
NE-04	12/15/1992	A	944.83	57.5	887.33
NE-04	2/4/1993	A	944.83	50.2	894.63
NE-04	2/23/1993	A	944.83	50.2	894.63
NE-04	3/9/1993	A	944.83	48.4	896.43
NE-04	3/15/1993	A	944.83	48.3	896.53
NE-04	3/25/1993	A	944.83	47.6	897.23
NE-04	4/6/1993	A	944.83	47	897.83
NE-04	4/13/1993	A	944.83	47.5	897.33
NE-04	4/20/1993	A	944.83	47.4	897.43
NE-04	5/18/1993	A	944.83	45.9	898.93
NE-04	5/25/1993	A	944.83	46.2	898.63
NE-04	6/1/1993	A	944.83	46.4	898.43
NE-04	11/2/1993	A	944.83	15.5	929.33
NE-04	11/9/1993	A	944.83	6.8	938.03
NE-04	11/16/1993	A	944.83	9.3	935.53
NE-04	12/20/1993	A	944.83	47.5	897.33
NE-04	2/15/1994	A	944.83	47.8	897.03
NE-04	3/4/1994	A	944.83	47.3	897.53
NE-04	3/27/1994	A	944.83	47.3	897.53
NE-04	3/31/1994	A	944.83	47.4	897.43
NE-04	4/14/1994	A	944.83	47.7	897.13
NE-04	5/26/1994	A	944.83	50.5	894.33
NE-04	6/3/1994	A	944.83	50.9	893.93
NE-04	7/21/1994	A	944.83	55.4	889.43
NE-04	8/25/1994	A	944.83	57.6	887.23
NE-04	9/23/1994	A	944.83	59.2	885.63
NE-04	10/11/1994	A	944.83	43.8	901.03
NE-04	11/18/1994	A	944.83	55.9	888.93
NE-04	12/29/1994	A	944.83	52.5	892.33
NE-04	1/31/1995	A	944.83	55.8	889.03
NE-04	2/24/1995	A	944.83	42.4	902.43
NE-04	3/31/1995	A	944.83	51.5	893.33
NE-04	10/27/1995	A	944.83	50.8	894.03
NE-04	11/29/1995	A	944.83	49.7	895.13
NE-04	12/30/1995	A	944.83	48.3	896.53
NE-04	8/14/2008	A	944.83	55.55	889.28
NE-04	2/23/2010	A	946.89	57.11	889.78
NE-04	5/12/2010	A	946.89	55.27	891.62
NE-05	5/22/1990	A	948.27	67.47	880.8
NE-05	6/19/1990	A	948.27	47.06	901.21
NE-05	7/18/1990	A	948.27	58.06	890.21
NE-05	8/17/1990	A	948.27	62.86	885.41
NE-05	9/23/1990	A	948.27	59.01	889.26
NE-05	10/18/1990	A	946.91	46.45	900.46
NE-05	11/24/1990	A	946.91	47.3	899.61
NE-05	12/18/1990	A	946.91	61.1	885.81
NE-05	1/23/1991	A	946.91	67.3	879.61
NE-05	10/31/1991	A	946.91	48.1	898.81
NE-05	11/17/1991	A	946.91	47.65	899.26
NE-05	1/21/1992	A	946.91	61	885.91
NE-05	2/23/1992	A	946.91	62.21	884.7

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
NE-05	3/30/1992	A	948.27	45.4	902.87
NE-05	4/22/1992	A	948.27	45.4	902.87
NE-05	5/15/1992	A	948.27	71.3	876.97
NE-05	7/13/1992	A	948.27	58.5	889.77
NE-05	7/31/1992	A	948.27	55	893.27
NE-05	12/15/1992	A	948.27	66.2	882.07
NE-05	1/12/1993	A	948.27	61.2	887.07
NE-05	1/26/1993	A	948.27	61	887.27
NE-05	2/2/1993	A	948.27	61	887.27
NE-05	2/4/1993	A	948.27	60.2	888.07
NE-05	2/16/1993	A	948.27	43.7	904.57
NE-05	3/9/1993	A	948.27	53.8	894.47
NE-05	3/15/1993	A	948.27	56.9	891.37
NE-05	3/25/1993	A	948.27	55.5	892.77
NE-05	3/30/1993	A	948.27	55.5	892.77
NE-05	4/6/1993	A	948.27	55	893.27
NE-05	4/13/1993	A	948.27	56	892.27
NE-05	4/20/1993	A	948.27	59.4	888.87
NE-05	5/18/1993	A	948.27	56.4	891.87
NE-05	5/25/1993	A	948.27	57.7	890.57
NE-05	6/1/1993	A	948.27	57.5	890.77
NE-05	7/13/1993	A	948.27	56.6	891.67
NE-05	7/20/1993	A	948.27	58	890.27
NE-05	7/27/1993	A	948.27	59.6	888.67
NE-05	8/3/1993	A	948.27	60.7	887.57
NE-05	8/10/1993	A	948.27	62	886.27
NE-05	8/17/1993	A	948.27	63.6	884.67
NE-05	8/24/1993	A	948.27	64.5	883.77
NE-05	8/31/1993	A	948.27	64.3	883.97
NE-05	9/21/1993	A	948.27	58.8	889.47
NE-05	9/28/1993	A	948.27	59.2	889.07
NE-05	10/5/1993	A	948.27	60.7	887.57
NE-05	10/19/1993	A	948.27	58.5	889.77
NE-05	10/26/1993	A	948.27	59	889.27
NE-05	11/2/1993	A	948.27	55.5	892.77
NE-05	11/9/1993	A	948.27	50.5	897.77
NE-05	11/16/1993	A	948.27	42	906.27
NE-05	11/30/1993	A	948.27	58	890.27
NE-05	12/20/1993	A	948.27	53.7	894.57
NE-05	2/15/1994	A	948.27	78.1	870.17
NE-05	3/4/1994	A	948.27	78.2	870.07
NE-05	3/27/1994	A	948.27	73.9	874.37
NE-05	3/31/1994	A	948.27	73.8	874.47
NE-05	4/14/1994	A	948.27	71.3	876.97
NE-05	5/26/1994	A	948.27	78.4	869.87
NE-05	6/3/1994	A	948.27	77.9	870.37
NE-05	7/21/1994	A	948.27	76.9	871.37
NE-05	8/25/1994	A	948.27	75	873.27
NE-05	9/23/1994	A	948.27	76	872.27
NE-05	10/11/1994	A	948.27	72	876.27
NE-05	11/18/1994	A	948.27	64.1	884.17
NE-05	12/29/1994	A	948.27	72	876.27
NE-05	1/31/1995	A	948.27	68.9	879.37

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
NE-05	2/24/1995	A	948.27	70.7	877.57
NE-05	3/31/1995	A	948.27	68.1	880.17
NE-05	10/27/1995	A	948.27	70.3	877.97
NE-05	11/29/1995	A	948.27	72.8	875.47
NE-05	12/30/1995	A	948.27	69.9	878.37
NE-05	8/14/2008	A	948.27	74.25	874.02
NE-05	2/23/2010	A	950.33	60.5	889.83
NE-05	5/13/2010	A	950.33	58.48	891.85
NEW-01	1/23/1990	A	937.81	38.23	899.58
NEW-01	1/24/1990	A	937.81	38.18	899.63
NEW-01	1/25/1990	A	937.81	38.13	899.68
NEW-01	1/26/1990	A	937.81	37.98	899.83
NEW-01	1/29/1990	A	937.81	38.18	899.63
NEW-01	1/30/1990	A	937.81	38.33	899.48
NEW-01	1/31/1990	A	937.81	38.93	898.88
NEW-01	2/1/1990	A	937.81	38.83	898.98
NEW-01	2/2/1990	A	937.81	39.33	898.48
NEW-01	2/8/1990	A	937.81	38.38	899.43
NEW-01	2/23/1990	A	937.81	37.73	900.08
NEW-01	3/1/1990	A	937.81	38.53	899.28
NEW-01	3/9/1990	A	937.81	38.68	899.13
NEW-01	3/16/1990	A	937.81	39.18	898.63
NEW-01	3/21/1990	A	937.81	39.38	898.43
NEW-01	4/4/1990	A	937.81	40.7	897.11
NEW-01	4/17/1990	A	937.81	40.2	897.61
NEW-01	5/22/1990	A	937.81	43	894.81
NEW-01	6/19/1990	A	937.81	43	894.81
NEW-01	7/17/1990	A	937.81	45.1	892.71
NEW-01	8/16/1990	A	937.81	44.4	893.41
NEW-01	9/22/1990	A	937.81	40.23	897.58
NEW-01	10/17/1990	A	937.81	39.63	898.18
NEW-01	11/24/1990	A	937.81	38.93	898.88
NEW-01	12/14/1990	A	937.81	38.88	898.93
NEW-01	1/18/1991	A	937.81	39.03	898.78
NEW-01	2/16/1991	A	937.81	38.53	899.28
NEW-01	3/17/1991	A	937.81	38.48	899.33
NEW-01	4/22/1991	A	937.81	40.28	897.53
NEW-01	5/19/1991	A	937.81	39.43	898.38
NEW-01	6/19/1991	A	937.81	43.78	894.03
NEW-01	7/21/1991	A	937.81	47.98	889.83
NEW-01	8/18/1991	A	937.81	48.78	889.03
NEW-01	9/24/1991	A	937.81	45.78	892.03
NEW-01	10/31/1991	A	937.81	43.18	894.63
NEW-01	11/17/1991	A	937.81	42.13	895.68
NEW-01	1/19/1992	A	937.81	38.93	898.88
NEW-01	3/30/1992	A	937.81	37.4	900.41
NEW-01	4/22/1992	A	937.81	36.9	900.91
NEW-01	5/15/1992	A	937.81	38.2	899.61
NEW-01	6/27/1992	A	937.81	42.8	895.01
NEW-01	7/31/1992	A	937.81	43.1	894.71
NEW-01	8/24/1992	A	937.81	41.35	896.46
NEW-01	10/9/1992	A	937.81	38.3	899.51
NEW-01	10/28/1992	A	937.81	38	899.81

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
NEW-01	11/23/1992	A	937.81	37	900.81
NEW-01	12/17/1992	A	937.81	36.4	901.41
NEW-01	2/4/1993	A	937.81	33	904.81
NEW-01	3/12/1993	A	937.81	31.8	906.01
NEW-01	4/15/1993	A	937.81	34.3	903.51
NEW-01	5/18/1993	A	937.81	35.7	902.11
NEW-01	6/11/1993	A	937.81	36.6	901.21
NEW-01	6/21/1993	A	937.81	36.1	901.71
NEW-01	7/13/1993	A	937.81	39.2	898.61
NEW-01	8/9/1993	A	937.81	40.3	897.51
NEW-01	9/24/1993	A	937.81	37.6	900.21
NEW-01	10/28/1993	A	937.81	35.9	901.91
NEW-01	11/24/1993	A	937.81	35.3	902.51
NEW-01	12/14/1993	A	937.81	35.4	902.41
NEW-01	1/11/1994	A	937.81	35.1	902.71
NEW-01	1/28/1994	A	937.81	35.2	902.61
NEW-01	2/16/1994	A	937.81	38.13	899.68
NEW-01	2/25/1994	A	937.81	35.9	901.91
NEW-01	3/21/1994	A	937.81	37	900.81
NEW-01	4/27/1994	A	937.81	38.8	899.01
NEW-01	5/25/1994	A	937.81	38.1	899.71
NEW-01	6/3/1994	A	937.81	38.3	899.51
NEW-01	7/21/1994	A	937.81	44.6	893.21
NEW-01	8/25/1994	A	937.81	47.7	890.11
NEW-01	9/23/1994	A	937.81	43.7	894.11
NEW-01	10/12/1994	A	937.81	42	895.81
NEW-01	11/18/1994	A	937.81	39.3	898.51
NEW-01	12/30/1994	A	937.81	37.9	899.91
NEW-01	1/30/1995	A	937.81	36.2	901.61
NEW-01	2/23/1995	A	937.81	36.3	901.51
NEW-01	3/30/1995	A	937.81	36.7	901.11
NEW-01	4/21/1995	A	937.81	37.4	900.41
NEW-01	5/26/1995	A	937.81	37.4	900.41
NEW-01	6/23/1995	A	937.81	39.88	897.93
NEW-01	7/27/1995	A	937.81	45.93	891.88
NEW-01	8/30/1995	A	937.81	43.45	894.36
NEW-01	9/29/1995	A	937.81	41	896.81
NEW-01	10/27/1995	A	937.81	39.41	898.4
NEW-01	11/29/1995	A	937.81	37.57	900.24
NEW-01	12/30/1995	A	937.81	37.7	900.11
NEW-01	1/31/1996	A	937.81	36.95	900.86
NEW-01	2/20/1996	A	937.81	36.85	900.96
NEW-01	3/30/1996	A	937.81	38.95	898.86
NEW-01	4/30/1996	A	937.81	40.35	897.46
NEW-01	5/31/1996	A	937.81	40.2	897.61
NEW-01	6/28/1996	A	937.81	44.51	893.3
NEW-01	7/31/1996	A	937.81	46.95	890.86
NEW-01	8/30/1996	A	937.81	48	889.81
NEW-01	9/28/1996	A	937.81	43.2	894.61
NEW-01	10/30/1996	A	937.81	41.38	896.43
NEW-01	1/16/1997	A	937.81	38.45	899.36
NEW-01	4/30/1997	A	937.81	41.9	895.91
NEW-01	7/29/1997	A	937.81	49.5	888.31

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
NEW-01	1/30/1998	A	937.81	41.1	896.71
NEW-01	5/8/1998	A	937.81	40.2	897.61
NEW-01	7/30/1998	A	937.81	42.9	894.91
NEW-01	10/29/1998	A	937.81	39.95	897.86
NEW-01	1/29/1999	A	937.81	39.4	898.41
NEW-01	4/29/1999	A	937.81	41.63	896.18
NEW-01	8/5/1999	A	937.81	47.5	890.31
NEW-01	10/13/1999	A	937.81	45.3	892.51
NEW-01	2/9/2000	A	937.81	40	897.81
NEW-01	2/21/2000	A	937.81	41.5	896.31
NEW-01	5/3/2000	A	937.81	41	896.81
NEW-01	8/3/2000	A	937.81	49	888.81
NEW-01	10/25/2000	A	937.81	46.2	891.61
NEW-01	2/1/2001	A	937.81	39.77	898.04
NEW-01	5/25/2001	A	937.81	41.7	896.11
NEW-01	8/1/2001	A	937.81	49	888.81
NEW-01	10/31/2001	A	937.81	45.5	892.31
NEW-01	5/14/2002	A	937.81	44.2	893.61
NEW-01	8/1/2002	A	937.81	52.45	885.36
NEW-01	11/1/2002	A	937.81	48.8	889.01
NEW-01	1/31/2003	A	937.81	44.1	893.71
NEW-01	5/1/2003	A	937.81	44.1	893.71
NEW-01	8/8/2003	A	937.81	51.4	886.41
NEW-01	10/30/2003	A	937.81	48.65	889.16
NEW-01	1/29/2004	A	937.81	44.1	893.71
NEW-01	4/30/2004	A	937.81	44.3	893.51
NEW-01	7/30/2004	A	937.81	53.55	884.26
NEW-01	11/2/2004	A	937.81	49.7	888.11
NEW-01	1/28/2005	A	937.81	43.2	894.61
NEW-01	5/6/2005	A	937.81	43.55	894.26
NEW-01	7/28/2005	A	937.81	49	888.81
NEW-01	10/28/2005	A	937.81	45.6	892.21
NEW-01	1/27/2006	A	937.81	42.7	895.11
NEW-01	5/3/2006	A	937.81	43.4	894.41
NEW-01	7/27/2006	A	937.81	51.2	886.61
NEW-01	10/31/2006	A	937.81	47.2	890.61
NEW-01	1/31/2007	A	937.81	43.7	894.11
NEW-01	5/1/2007	A	937.81	47.1	890.71
NEW-01	8/1/2007	A	937.81	53.7	884.11
NEW-01	10/9/2007	A	937.81	54.58	883.23
NEW-01	1/7/2008	A	937.81	46.52	891.29
NEW-01	4/14/2008	A	937.81	45.46	892.35
NEW-01	8/4/2008	A	937.81	52.48	885.33
NEW-01	11/17/2008	A	937.81	50.42	887.39
NEW-01	2/16/2009	A	937.81	45.36	892.45
NEW-01	5/18/2009	A	937.81	46.6	891.21
NEW-01	8/24/2009	A	939.87	54.2	885.67
NEW-01	11/17/2009	A	939.87	51.64	888.23
NEW-01	2/2/2010	A	939.87	64.37	875.5
NEW-01	5/5/2010	A	939.87	44.19	895.68
NEW-01	8/23/2010	A	939.87	51.2	888.67
NEW-01	11/29/2010	A	939.87	47.79	892.08
NEW-01	2/3/2011	A	939.87	44.7	895.17

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
NEW-01	5/3/2011	A	939.87	45.9	893.97
NEW-01	8/1/2011	A	939.87	54.06	885.81
NEW-01	11/1/2011	A	939.87	52.62	887.25
NEW-01	2/1/2012	A	938.922	48.4	890.522
NEW-01	5/1/2012	A	938.922	48.95	889.972
NEW-01	8/3/2012	A	938.922	55.99	882.932
NEW-01	11/1/2012	A	938.922	53.56	885.362
NEW-01	2/5/2013	A	938.922	48.02	890.902
NEW-01	5/1/2013	A	938.922	49.89	889.032
NEW-01	8/6/2013	A	939.87	57.9	881.97
NEW-01	11/4/2013	A	939.87	55.55	884.32
NEW-02	1/22/1990	A	937.81	44.2	898.74
NEW-02	1/23/1990	A	937.81	44.35	898.59
NEW-02	1/24/1990	A	937.81	44.25	898.69
NEW-02	1/25/1990	A	937.81	44.15	898.79
NEW-02	1/26/1990	A	937.81	43.9	899.04
NEW-02	1/29/1990	A	937.81	43.9	899.04
NEW-02	1/30/1990	A	937.81	44.3	898.64
NEW-02	1/31/1990	A	937.81	44.35	898.59
NEW-02	2/1/1990	A	937.81	44.4	898.54
NEW-02	2/2/1990	A	937.81	44.75	898.19
NEW-02	2/8/1990	A	937.81	44.1	898.84
NEW-02	2/16/1990	A	937.81	43.9	899.04
NEW-02	2/23/1990	A	937.81	42.7	900.24
NEW-02	3/1/1990	A	937.81	43.25	899.69
NEW-02	3/9/1990	A	937.81	42.9	900.04
NEW-02	3/16/1990	A	937.81	44.3	898.64
NEW-02	3/21/1990	A	937.81	43.55	899.39
NEW-02	4/4/1990	A	937.81	46.1	896.84
NEW-02	4/17/1990	A	937.81	45.9	897.04
NEW-02	5/22/1990	A	937.81	46.5	896.44
NEW-02	6/19/1990	A	937.81	48.6	894.34
NEW-02	7/17/1990	A	937.81	49.3	893.64
NEW-02	8/17/1990	A	937.81	49.5	893.44
NEW-02	9/22/1990	A	937.81	46.4	896.54
NEW-02	10/17/1990	A	937.81	44.7	898.24
NEW-02	11/24/1990	A	937.81	43.1	899.84
NEW-02	12/14/1990	A	937.81	44.6	898.34
NEW-02	1/18/1991	A	937.81	43.6	899.34
NEW-02	2/17/1991	A	937.81	44.5	898.44
NEW-02	3/17/1991	A	937.81	44.25	898.69
NEW-02	4/22/1991	A	937.81	46.1	896.84
NEW-02	5/19/1991	A	937.81	45.2	897.74
NEW-02	6/19/1991	A	937.81	48.05	894.89
NEW-02	7/21/1991	A	937.81	52.3	890.64
NEW-02	8/18/1991	A	937.81	53.7	889.24
NEW-02	9/24/1991	A	937.81	51.35	891.59
NEW-02	1/29/1993	A	943.21	40	903.21
NEW-02	5/18/1993	A	937.81	41	902.21
NEW-02	6/11/1993	A	937.81	41.9	901.31
NEW-02	7/14/1993	A	937.81	44.5	898.71
NEW-02	8/11/1993	A	937.81	45.7	897.51
NEW-02	9/24/1993	A	937.81	43.2	900.01

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
NEW-02	10/28/1993	A	937.81	41.7	901.51
NEW-02	11/24/1993	A	937.81	41.4	901.81
NEW-02	12/14/1993	A	937.81	41	902.21
NEW-02	1/28/1994	A	937.81	41	902.21
NEW-02	2/25/1994	A	937.81	41.1	902.11
NEW-02	3/21/1994	A	937.81	42.1	901.11
NEW-02	4/27/1994	A	937.81	43.6	899.61
NEW-02	5/25/1994	A	937.81	43.1	900.11
NEW-02	6/3/1994	A	937.81	43.4	899.81
NEW-02	7/21/1994	A	937.81	48.7	894.51
NEW-02	4/21/1995	A	943.21	42.9	900.31
NEW-03	1/23/1990	A	953.13	50.28	902.85
NEW-03	1/24/1990	A	953.13	50.28	902.85
NEW-03	1/25/1990	A	953.13	50.28	902.85
NEW-03	1/26/1990	A	953.13	50.23	902.9
NEW-03	1/29/1990	A	953.13	50.13	903
NEW-03	1/30/1990	A	953.13	50	903.13
NEW-03	1/31/1990	A	953.13	50	903.13
NEW-03	2/1/1990	A	953.13	50	903.13
NEW-03	2/2/1990	A	953.13	50.15	902.98
NEW-03	2/8/1990	A	953.13	50	903.13
NEW-03	2/16/1990	A	953.13	50.1	903.03
NEW-03	2/23/1990	A	953.13	49.8	903.33
NEW-03	3/1/1990	A	953.13	49.7	903.43
NEW-03	3/9/1990	A	953.13	49.25	903.88
NEW-03	3/16/1990	A	953.13	49.9	903.23
NEW-03	3/21/1990	A	953.13	49.35	903.78
NEW-03	4/4/1990	A	953.13	50.2	902.93
NEW-03	4/17/1990	A	953.13	50.9	902.23
NEW-03	5/22/1990	A	953.13	51.15	901.98
NEW-03	6/19/1990	A	953.13	51.1	902.03
NEW-03	7/17/1990	A	953.13	52.75	900.38
NEW-03	8/17/1990	A	953.13	53.4	899.73
NEW-03	9/22/1990	A	953.13	53	900.13
NEW-03	10/17/1990	A	953.13	51.85	901.28
NEW-03	11/24/1990	A	953.13	51	902.13
NEW-03	12/17/1990	A	953.13	53.9	899.23
NEW-03	1/18/1991	A	953.13	50.7	902.43
NEW-03	2/17/1991	A	953.13	51.25	901.88
NEW-03	3/17/1991	A	953.13	50.9	902.23
NEW-03	4/22/1991	A	953.13	51.15	901.98
NEW-03	5/19/1991	A	953.13	51.7	901.43
NEW-03	6/19/1991	A	953.13	51.8	901.33
NEW-03	7/21/1991	A	953.13	53.3	899.83
NEW-03	8/18/1991	A	953.13	54.6	898.53
NEW-03	9/24/1991	A	953.13	55.13	898
NEW-03	10/31/1991	A	953.13	53.48	899.65
NEW-03	11/17/1991	A	953.13	52.88	900.25
NEW-03	1/19/1992	A	953.13	51.98	901.15
NEW-03	2/23/1992	A	953.13	51.79	901.34
NEW-03	3/30/1992	A	953.13	50.4	902.73
NEW-03	4/23/1992	A	953.13	50.4	902.73
NEW-03	5/15/1992	A	953.13	51.1	902.03

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
NEW-03	6/27/1992	A	953.13	50.9	902.23
NEW-03	7/31/1992	A	953.13	52.2	900.93
NEW-03	8/24/1992	A	953.13	52.2	900.93
NEW-03	10/9/1992	A	953.13	51.3	901.83
NEW-03	10/28/1992	A	953.13	51.2	901.93
NEW-03	11/23/1992	A	953.13	50.7	902.43
NEW-03	1/5/1993	A	953.13	50.3	902.83
NEW-03	2/4/1993	A	953.13	49	904.13
NEW-03	3/23/1993	A	953.13	47	906.13
NEW-03	4/15/1993	A	953.13	47	906.13
NEW-03	5/18/1993	A	953.13	46.3	906.83
NEW-03	6/11/1993	A	953.13	46.5	906.63
NEW-03	6/18/1993	A	953.13	46.6	906.53
NEW-03	7/13/1993	A	953.13	46.8	906.33
NEW-03	8/9/1993	A	953.13	47.7	905.43
NEW-03	9/24/1993	A	953.13	48.2	904.93
NEW-03	10/28/1993	A	953.13	47.5	905.63
NEW-03	11/24/1993	A	953.13	47.2	905.93
NEW-03	12/14/1993	A	953.13	46.7	906.43
NEW-03	1/28/1994	A	953.13	47.6	905.53
NEW-03	2/25/1994	A	953.13	47.5	905.63
NEW-03	3/21/1994	A	953.13	47.6	905.53
NEW-03	4/27/1994	A	953.13	48.6	904.53
NEW-03	5/25/1994	A	953.13	49.1	904.03
NEW-03	6/3/1994	A	953.13	49.2	903.93
NEW-03	7/21/1994	A	953.13	51.4	901.73
NEW-03	8/25/1994	A	953.13	53.8	899.33
NEW-03	9/23/1994	A	953.13	53.1	900.03
NEW-03	10/12/1994	A	953.13	52.2	900.93
NEW-03	11/18/1994	A	953.13	52.1	901.03
NEW-03	12/30/1994	A	953.13	52	901.13
NEW-03	1/30/1995	A	953.13	51.2	901.93
NEW-03	2/23/1995	A	953.13	50.5	902.63
NEW-03	3/30/1995	A	953.13	49.7	903.43
NEW-03	4/21/1995	A	953.13	50	903.13
NEW-03	5/26/1995	A	953.13	49.8	903.33
NEW-03	6/23/1995	A	953.13	50.18	902.95
NEW-03	7/27/1995	A	953.13	51.91	901.22
NEW-03	8/30/1995	A	953.13	52.9	900.23
NEW-03	9/29/1995	A	953.13	52.41	900.72
NEW-03	10/27/1995	A	953.13	52.1	901.03
NEW-03	11/29/1995	A	953.13	51.03	902.1
NEW-03	12/30/1995	A	953.13	50.69	902.44
NEW-03	1/31/1996	A	953.13	50.25	902.88
NEW-03	2/20/1996	A	953.13	50.25	902.88
NEW-03	3/30/1996	A	953.13	50	903.13
NEW-03	4/30/1996	A	953.13	51.17	901.96
NEW-03	5/31/1996	A	953.13	51.45	901.68
NEW-03	6/28/1996	A	953.13	53.2	899.93
NEW-03	7/31/1996	A	953.13	53.9	899.23
NEW-03	8/30/1996	A	953.13	50.95	902.18
NEW-03	9/28/1996	A	953.13	54.62	898.51
NEW-03	10/30/1996	A	953.13	54.05	899.08

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
NEW-03	1/16/1997	A	953.13	52.05	901.08
NEW-03	4/30/1997	A	953.13	52.6	900.53
NEW-03	7/29/1997	A	953.13	56.8	896.33
NEW-03	1/30/1998	A	953.13	54.28	898.85
NEW-03	5/8/1998	A	953.13	52.73	900.4
NEW-03	7/30/1998	A	953.13	53.25	899.88
NEW-03	10/29/1998	A	953.13	50.7	902.43
NEW-03	1/29/1999	A	953.13	51.95	901.18
NEW-03	4/29/1999	A	953.13	54.27	898.86
NEW-03	8/5/1999	A	953.13	54.9	898.23
NEW-03	10/14/1999	A	953.13	55.2	897.93
NEW-03	2/9/2000	A	953.13	53.35	899.78
NEW-03	2/23/2000	A	953.13	54.55	898.58
NEW-03	5/3/2000	A	953.13	53.6	899.53
NEW-03	8/3/2000	A	953.13	55.9	897.23
NEW-03	10/25/2000	A	953.13	57	896.13
NEW-03	2/1/2001	A	953.13	54.4	898.73
NEW-03	5/25/2001	A	953.13	53.1	900.03
NEW-03	8/1/2001	A	953.13	55.05	898.08
NEW-03	10/31/2001	A	953.13	56.2	896.93
NEW-03	5/14/2002	A	953.13	55.2	897.93
NEW-03	8/1/2002	A	953.13	57.8	895.33
NEW-03	11/1/2002	A	953.13	58.85	894.28
NEW-03	1/31/2003	A	953.13	57	896.13
NEW-03	5/1/2003	A	953.13	56	897.13
NEW-03	8/8/2003	A	953.13	59.95	893.18
NEW-03	10/30/2003	A	953.13	51.2	901.93
NEW-03	1/29/2004	A	953.13	58.45	894.68
NEW-03	4/30/2004	A	953.13	57.8	895.33
NEW-03	7/30/2004	A	953.13	59.1	894.03
NEW-03	11/2/2004	A	953.13	61.8	891.33
NEW-03	1/28/2005	A	953.13	58.8	894.33
NEW-03	5/6/2005	A	953.13	57.15	895.98
NEW-03	7/27/2005	A	953.13	58.35	894.78
NEW-03	10/28/2005	A	953.13	48.1	905.03
NEW-03	1/27/2006	A	953.13	56.7	896.43
NEW-03	5/4/2006	A	953.13	55.9	897.23
NEW-03	7/27/2006	A	953.13	56	897.13
NEW-03	10/31/2006	A	953.13	59	894.13
NEW-03	1/31/2007	A	953.13	58.05	895.08
NEW-03	5/1/2007	A	953.13	58.6	894.53
NEW-03	8/1/2007	A	953.13	62.8	890.33
NEW-03	10/10/2007	A	953.13	63.29	889.84
NEW-03	1/7/2008	A	953.13	60.2	892.93
NEW-03	4/14/2008	A	953.13	59.8	893.33
NEW-03	8/4/2008	A	953.13	62.23	890.9
NEW-03	11/17/2008	A	953.13	62.75	890.38
NEW-03	2/16/2009	A	953.13	60.41	892.72
NEW-03	5/18/2009	A	953.13	60.71	892.42
NEW-03	8/26/2009	A	955.19	63.3	891.89
NEW-03	11/18/2009	A	955.19	63.97	891.22
NEW-03	2/5/2010	A	955.19	62	893.19
NEW-03	5/7/2010	A	955.19	59.49	895.7

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
NEW-03	8/23/2010	A	955.19	61.07	894.12
NEW-03	11/29/2010	A	955.19	60.86	894.33
NEW-03	2/3/2011	A	955.19	59.82	895.37
NEW-03	5/3/2011	A	955.19	59.68	895.51
NEW-03	8/1/2011	A	955.19	62.58	892.61
NEW-03	11/2/2011	A	955.19	77.26	877.93
NEW-03	2/1/2012	A	946.19	62.19	884
NEW-03	5/1/2012	A	954.458	61.18	893.278
NEW-03	8/3/2012	A	954.458	63.71	890.748
NEW-03	11/1/2012	A	954.458	64.49	889.968
NEW-03	2/5/2013	A	954.458	62.65	891.808
NEW-03	5/1/2013	A	954.458	62.24	892.218
NEW-03	8/6/2013	A	955.19	65.29	889.9
NEW-03	11/4/2013	A	955.19	66.13	889.06
NEW-04	1/23/1990	A	957.19	55.98	901.21
NEW-04	1/24/1990	A	957.19	55.98	901.21
NEW-04	1/25/1990	A	957.19	55.98	901.21
NEW-04	1/26/1990	A	957.19	55.98	901.21
NEW-04	1/29/1990	A	957.19	56.1	901.09
NEW-04	1/30/1990	A	957.19	56	901.19
NEW-04	1/31/1990	A	957.19	56.1	901.09
NEW-04	2/1/1990	A	957.19	56.1	901.09
NEW-04	2/2/1990	A	957.19	56.1	901.09
NEW-04	2/8/1990	A	957.19	56.05	901.14
NEW-04	2/16/1990	A	957.19	56	901.19
NEW-04	2/23/1990	A	957.19	55.85	901.34
NEW-04	3/1/1990	A	957.19	55.75	901.44
NEW-04	3/9/1990	A	957.19	55.6	901.59
NEW-04	3/16/1990	A	957.19	55.6	901.59
NEW-04	3/21/1990	A	957.19	55.6	901.59
NEW-04	4/4/1990	A	957.19	55.95	901.24
NEW-04	4/14/1990	A	957.19	56.35	900.84
NEW-04	5/22/1990	A	957.19	56.8	900.39
NEW-04	6/19/1990	A	957.19	57.35	899.84
NEW-04	7/17/1990	A	957.19	58.55	898.64
NEW-04	8/16/1990	A	957.19	58.5	898.69
NEW-04	9/22/1990	A	957.19	57.4	899.79
NEW-04	10/17/1990	A	957.19	56.7	900.49
NEW-04	11/24/1990	A	957.19	56.1	901.09
NEW-04	1/18/1991	A	957.19	61.9	895.29
NEW-04	2/16/1991	A	957.19	56.25	900.94
NEW-04	3/16/1991	A	957.19	56.35	900.84
NEW-04	4/22/1991	A	957.19	56.65	900.54
NEW-04	5/19/1991	A	957.19	57.15	900.04
NEW-04	6/19/1991	A	957.19	57.75	899.44
NEW-04	7/21/1991	A	957.19	59.1	898.09
NEW-04	8/18/1991	A	957.19	60.6	896.59
NEW-04	9/23/1991	A	957.19	60.65	896.54
NEW-04	10/31/1991	A	957.19	59.65	897.54
NEW-04	11/17/1991	A	957.19	59.3	897.89
NEW-04	1/19/1992	A	957.19	58.2	898.99
NEW-04	2/21/1992	A	957.19	57.67	899.52
NEW-04	3/30/1992	A	957.19	56.8	900.39

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
NEW-04	4/23/1992	A	957.19	56.9	900.29
NEW-04	5/14/1992	A	957.19	57	900.19
NEW-04	6/29/1992	A	957.19	57.5	899.69
NEW-04	7/31/1992	A	957.19	58.7	898.49
NEW-04	8/24/1992	A	957.19	59.05	898.14
NEW-04	10/9/1992	A	957.19	57.8	899.39
NEW-04	10/27/1992	A	957.19	57.5	899.69
NEW-04	11/23/1992	A	957.19	57	900.19
NEW-04	12/18/1992	A	957.19	56.6	900.59
NEW-04	2/4/1993	A	957.19	55	902.19
NEW-04	3/11/1993	A	957.19	53.59	903.6
NEW-04	4/15/1993	A	957.19	53	904.19
NEW-04	5/18/1993	A	957.19	53.2	903.99
NEW-04	6/11/1993	A	957.19	53.2	903.99
NEW-04	6/28/1993	A	957.19	46.5	910.69
NEW-04	7/13/1993	A	957.19	53.8	903.39
NEW-04	8/9/1993	A	957.19	54.6	902.59
NEW-04	9/24/1993	A	957.19	54.8	902.39
NEW-04	10/28/1993	A	957.19	53.6	903.59
NEW-04	11/23/1993	A	957.19	53.2	903.99
NEW-04	12/14/1993	A	957.19	52.8	904.39
NEW-04	1/27/1994	A	957.19	52.5	904.69
NEW-04	2/25/1994	A	957.19	52.5	904.69
NEW-04	3/21/1994	A	957.19	52.7	904.49
NEW-04	4/27/1994	A	957.19	53.2	903.99
NEW-04	5/25/1994	A	957.19	53.6	903.59
NEW-04	6/3/1994	A	957.19	53.6	903.59
NEW-04	7/21/1994	A	957.19	55.9	901.29
NEW-04	8/25/1994	A	957.19	57	900.19
NEW-04	9/23/1994	A	957.19	56.5	900.69
NEW-04	10/12/1994	A	957.19	56.1	901.09
NEW-04	11/18/1994	A	957.19	55.2	901.99
NEW-04	12/30/1994	A	957.19	54.6	902.59
NEW-04	1/30/1995	A	957.19	54.1	903.09
NEW-04	2/23/1995	A	957.19	53.8	903.39
NEW-04	3/31/1995	A	957.19	53.5	903.69
NEW-04	4/21/1995	A	957.19	53.7	903.49
NEW-04	5/26/1995	A	957.19	53.4	903.79
NEW-04	6/23/1995	A	957.19	53.82	903.37
NEW-04	7/27/1995	A	957.19	55.2	901.99
NEW-04	8/30/1995	A	957.19	56.04	901.15
NEW-04	9/29/1995	A	957.19	55.51	901.68
NEW-04	10/27/1995	A	957.19	54.72	902.47
NEW-04	11/28/1995	A	957.19	54	903.19
NEW-04	12/30/1995	A	957.19	53.75	903.44
NEW-04	1/31/1996	A	957.19	53.48	903.71
NEW-04	2/20/1996	A	957.19	53.4	903.79
NEW-04	3/30/1996	A	957.19	53.38	903.81
NEW-04	4/29/1996	A	957.19	54.17	903.02
NEW-04	5/31/1996	A	957.19	54.6	902.59
NEW-04	6/28/1996	A	957.19	55.5	901.69
NEW-04	7/31/1996	A	957.19	57.05	900.14
NEW-04	8/30/1996	A	957.19	57.82	899.37

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
NEW-04	9/28/1996	A	957.19	56.95	900.24
NEW-04	10/30/1996	A	957.19	56.37	900.82
NEW-04	1/15/1997	A	957.19	54.8	902.39
NEW-04	4/29/1997	A	957.19	55	902.19
NEW-04	7/29/1997	A	957.19	57.97	899.22
NEW-04	1/30/1998	A	957.19	55.7	901.49
NEW-04	5/8/1998	A	957.19	54.8	902.39
NEW-04	7/29/1998	A	957.19	55.7	901.49
NEW-04	10/29/1998	A	957.19	55.05	902.14
NEW-04	1/28/1999	A	957.19	53.8	903.39
NEW-04	4/29/1999	A	957.19	0	957.19
NEW-04	8/5/1999	A	957.19	57.1	900.09
NEW-04	10/13/1999	A	957.19	58.2	898.99
NEW-04	2/9/2000	A	957.19	55	902.19
NEW-04	2/23/2000	A	957.19	57.25	899.94
NEW-04	5/2/2000	A	957.19	55.1	902.09
NEW-04	8/3/2000	A	957.19	58	899.19
NEW-04	10/25/2000	A	957.19	58.95	898.24
NEW-04	1/31/2001	A	957.19	56.3	900.89
NEW-04	5/25/2001	A	957.19	56.1	901.09
NEW-04	8/1/2001	A	957.19	59.1	898.09
NEW-04	10/30/2001	A	957.19	58.4	898.79
NEW-04	5/20/2002	A	957.19	57.4	899.79
NEW-04	8/1/2002	A	957.19	60.2	896.99
NEW-04	10/31/2002	A	957.19	60.25	896.94
NEW-04	1/31/2003	A	957.19	58.3	898.89
NEW-04	4/30/2003	A	957.19	57.8	899.39
NEW-04	8/8/2003	A	957.19	60	897.19
NEW-04	10/29/2003	A	957.19	60.9	896.29
NEW-04	1/29/2004	A	957.19	58.65	898.54
NEW-04	4/29/2004	A	957.19	58.35	898.84
NEW-04	7/30/2004	A	957.19	61.8	895.39
NEW-04	11/2/2004	A	957.19	61.35	895.84
NEW-04	1/28/2005	A	957.19	59	898.19
NEW-04	5/6/2005	A	957.19	57.95	899.24
NEW-04	7/26/2005	A	957.19	59.35	897.84
NEW-04	10/28/2005	A	957.19	59.3	897.89
NEW-04	1/27/2006	A	957.19	57.9	899.29
NEW-04	5/4/2006	A	957.19	57.3	899.89
NEW-04	7/26/2006	A	957.19	51.3	905.89
NEW-04	10/31/2006	A	957.19	59.9	897.29
NEW-04	1/30/2007	A	957.19	59.6	897.59
NEW-04	5/2/2007	A	957.19	60.5	896.69
NEW-04	8/1/2007	A	957.19	62.8	894.39
NEW-04	10/9/2007	A	957.19	63.2	893.99
NEW-04	4/13/2008	A	957.19	62.06	895.13
NEW-04	11/4/2013	A	959.25	67.73	891.52
NEW-08-X	10/9/1992	A	950.77	50.1	900.67
NEW-08-X	10/28/1992	A	950.77	49.8	900.97
NEW-08-X	11/23/1992	A	950.77	48.9	901.87
NEW-08-X	12/19/1992	A	950.77	48.5	902.27
NEW-08-X	2/4/1993	A	950.77	44.4	906.37
NEW-08-X	3/16/1993	A	950.77	43.5	907.27

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
NEW-08-X	4/15/1993	A	950.77	45.9	904.87
NEW-08-X	5/18/1993	A	950.77	47.6	903.17
NEW-08-X	6/11/1993	A	950.77	48.3	902.47
NEW-08-X	6/28/1993	A	950.77	49.2	901.57
NEW-08-X	7/14/1993	A	950.77	50.5	900.27
NEW-08-X	8/11/1993	A	950.77	52	898.77
NEW-08-X	9/24/1993	A	950.77	50.1	900.67
NEW-08-X	10/28/1993	A	950.77	48.2	902.57
NEW-08-X	11/23/1993	A	950.77	47.6	903.17
NEW-08-X	12/14/1993	A	950.77	47.7	903.07
NEW-08-X	1/26/1994	A	950.77	47.7	903.07
NEW-08-X	2/25/1994	A	950.77	48.4	902.37
NEW-08-X	3/23/1994	A	950.77	49	901.77
NEW-08-X	4/27/1994	A	950.77	51.4	899.37
NEW-08-X	5/26/1994	A	950.77	50.9	899.87
NEW-08-X	6/1/1994	A	950.77	50.6	900.17
NEW-08-X	7/22/1994	A	950.77	56.4	894.37
NEW-08-X	8/24/1994	A	950.77	58.4	892.37
NEW-08-X	9/22/1994	A	950.77	56.4	894.37
NEW-08-X	10/13/1994	A	950.77	54.9	895.87
NEW-08-X	11/18/1994	A	950.77	52.1	898.67
NEW-08-X	12/30/1994	A	950.77	50.6	900.17
NEW-08-X	1/30/1995	A	950.77	48.8	901.97
NEW-08-X	2/23/1995	A	950.77	48.7	902.07
NEW-08-X	3/30/1995	A	950.77	48.8	901.97
NEW-08-X	4/21/1995	A	950.77	49.9	900.87
NEW-08-X	5/26/1995	A	950.77	49.6	901.17
NEW-08-X	6/23/1995	A	950.77	52.05	898.72
NEW-08-X	7/27/1995	A	950.77	57	893.77
NEW-08-X	8/30/1995	A	950.77	55.55	895.22
NEW-08-X	9/29/1995	A	950.77	53.95	896.82
NEW-08-X	10/27/1995	A	950.77	52.37	898.4
NEW-08-X	11/28/1995	A	950.77	50.18	900.59
NEW-08-X	12/30/1995	A	950.77	50.75	900.02
NEW-09	6/28/1992	A	955.97	53.9	902.07
NEW-09	8/26/1992	A	955.97	53	902.97
NEW-09	10/9/1992	A	955.97	52.6	903.37
NEW-09	10/28/1992	A	955.97	52.5	903.47
NEW-09	11/23/1992	A	955.97	51.9	904.07
NEW-09	12/19/1992	A	955.97	51.5	904.47
NEW-09	2/4/1993	A	955.97	48	907.97
NEW-09	3/16/1993	A	955.97	46.3	909.67
NEW-09	4/15/1993	A	955.97	47.4	908.57
NEW-09	5/18/1993	A	955.97	49	906.97
NEW-09	6/11/1993	A	955.97	49.7	906.27
NEW-09	6/29/1993	A	955.97	50.7	905.27
NEW-09	7/14/1993	A	955.97	51.9	904.07
NEW-09	8/11/1993	A	955.97	53.4	902.57
NEW-09	9/24/1993	A	955.97	52.1	903.87
NEW-09	10/28/1993	A	955.97	50.9	905.07
NEW-09	11/23/1993	A	955.97	50.3	905.67
NEW-09	1/26/1994	A	955.97	50.5	905.47
NEW-09	2/25/1994	A	955.97	50.7	905.27

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
NEW-09	3/23/1994	A	955.97	51.3	904.67
NEW-09	4/27/1994	A	955.97	53.5	902.47
NEW-09	5/26/1994	A	955.97	53.5	902.47
NEW-09	6/1/1994	A	955.97	53.2	902.77
NEW-09	7/22/1994	A	955.97	58	897.97
NEW-09	7/22/1994	A	955.97	58	897.97
NEW-09	8/24/1994	A	955.97	59.9	896.07
NEW-09	9/22/1994	A	955.97	57.6	898.37
NEW-09	10/13/1994	A	955.97	56.8	899.17
NEW-09	11/18/1994	A	955.97	55.1	900.87
NEW-09	12/30/1994	A	955.97	53.9	902.07
NEW-09	1/30/1995	A	955.97	52.1	903.87
NEW-09	2/23/1995	A	955.97	51.7	904.27
NEW-09	3/30/1995	A	955.97	51.2	904.77
NEW-09	4/21/1995	A	955.97	52.7	903.27
NEW-09	5/26/1995	A	955.97	51.8	904.17
NEW-09	6/23/1995	A	955.97	53.72	902.25
NEW-09	7/27/1995	A	955.97	57.22	898.75
NEW-09	8/30/1995	A	955.97	55.3	900.67
NEW-09	9/29/1995	A	955.97	54.98	900.99
NEW-09	10/27/1995	A	955.97	54.35	901.62
NEW-09	11/28/1995	A	955.97	53.07	902.9
NEW-09	12/30/1995	A	955.97	53.4	902.57
NEW-09	1/31/1996	A	955.97	52.95	903.02
NEW-09	2/20/1996	A	955.97	52.92	903.05
NEW-09	3/30/1996	A	955.97	53.77	902.2
NEW-09	4/29/1996	A	955.97	55.3	900.67
NEW-09	5/30/1996	A	955.97	54.95	901.02
NEW-09	6/28/1996	A	955.97	57.8	898.17
NEW-09	7/31/1996	A	955.97	59.4	896.57
NEW-09	8/30/1996	A	955.97	60.2	895.77
NEW-09	9/28/1996	A	955.97	57.55	898.42
NEW-09	10/29/1996	A	955.97	57.05	898.92
NEW-09	1/16/1997	A	955.97	54.55	901.42
NEW-09	4/28/1997	A	955.97	57.17	898.8
NEW-09	7/29/1997	A	955.97	60.6	895.37
NEW-09	1/29/1998	A	955.97	56.25	899.72
NEW-09	5/8/1998	A	955.97	53.97	902
NEW-09	7/28/1998	A	955.97	57.1	898.87
NEW-09	10/29/1998	A	955.97	54.6	901.37
NEW-09	1/28/1999	A	955.97	54.55	901.42
NEW-09	4/28/1999	A	955.97	56.05	899.92
NEW-09	8/4/1999	A	955.97	60.3	895.67
NEW-09	10/13/1999	A	955.97	59.5	896.47
NEW-09	2/9/2000	A	955.97	55.56	900.41
NEW-09	5/2/2000	A	955.97	56.17	899.8
NEW-09	8/2/2000	A	955.97	62.7	893.27
NEW-09	10/25/2000	A	955.97	62.25	893.72
NEW-09	1/30/2001	A	955.97	55.8	900.17
NEW-09	5/24/2001	A	955.97	56.5	899.47
NEW-09	7/30/2001	A	955.97	61.9	894.07
NEW-09	10/29/2001	A	955.97	60.75	895.22
NEW-09	1/30/2002	A	955.97	57.9	898.07

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
NEW-09	5/13/2002	A	955.97	59.5	896.47
NEW-09	7/30/2002	A	955.97	64.88	891.09
NEW-09	10/30/2002	A	955.97	63.4	892.57
NEW-09	1/30/2003	A	955.97	59.5	896.47
NEW-09	4/30/2003	A	955.97	59.9	896.07
NEW-09	8/8/2003	A	955.97	65.1	890.87
NEW-09	10/28/2003	A	955.97	64.1	891.87
NEW-09	1/28/2004	A	955.97	59.8	896.17
NEW-09	4/29/2004	A	955.97	59.8	896.17
NEW-09	7/30/2004	A	955.97	65.6	890.37
NEW-09	11/3/2004	A	955.97	65.3	890.67
NEW-09	1/27/2005	A	955.97	59.4	896.57
NEW-09	5/5/2005	A	955.97	58.1	897.87
NEW-09	7/27/2005	A	955.97	51.85	904.12
NEW-09	10/26/2005	A	955.97	59.7	896.27
NEW-09	1/27/2006	A	955.97	58.6	897.37
NEW-09	5/3/2006	A	955.97	58.2	897.77
NEW-09	7/26/2006	A	955.97	63.2	892.77
NEW-09	10/30/2006	A	955.97	62.4	893.57
NEW-09	1/30/2007	A	955.97	59.75	896.22
NEW-09	4/30/2007	A	955.97	61.77	894.2
NEW-09	7/31/2007	A	955.97	66.9	889.07
NEW-09	5/1/2008	A	955.97	59.9	896.07
NEW-09	2/4/2013	A	958.03	63.68	894.35
NEW-09	5/2/2013	A	958.03	63.7	894.33
NEW-09	8/6/2013	A	958.03	69.52	888.51
NEW-09	11/5/2013	A	958.03	69.1	888.93
PLA-04-X	1/12/1993	MFU	958	52.6	905.4
PMW-01	1/28/1994	A	962.34	52.98	909.36
PMW-01	2/25/1994	A	962.34	53.19	909.15
PMW-01	3/22/1994	A	962.34	52.8	909.54
PMW-01	4/28/1994	A	962.34	53.64	908.7
PMW-01	5/31/1994	A	962.34	53.58	908.76
PMW-01	6/14/1994	A	962.34	53.91	908.43
PMW-01	7/27/1994	A	962.34	56.8	905.54
PMW-01	8/30/1994	A	962.34	56.98	905.36
PMW-01	9/28/1994	A	962.34	56.8	905.54
PMW-01	10/19/1994	A	962.34	56.76	905.58
PMW-01	11/30/1994	A	962.34	57.15	905.19
PMW-01	12/20/1994	A	962.34	57.06	905.28
PMW-01	1/3/1995	A	962.34	56.8	905.54
PMW-01	2/28/1995	A	962.34	56.39	905.95
PMW-01	4/25/1995	A	962.34	55.31	907.03
PMW-01	5/31/1995	A	962.34	55.41	906.93
PMW-01	6/14/1995	A	962.34	55.16	907.18
PMW-01	1/17/2011	A	962.34	67.81	894.53
PMW-02	1/28/1994	A	962.8	52.81	909.99
PMW-02	2/25/1994	A	962.8	53.04	909.76
PMW-02	3/22/1994	A	962.8	52.62	910.18
PMW-02	5/31/1994	A	962.8	53.22	909.58
PMW-02	6/14/1994	A	962.8	53.5	909.3
PMW-02	7/27/1994	A	962.8	55.79	907.01
PMW-02	8/30/1994	A	962.8	56.71	906.09

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
PMW-02	9/28/1994	A	962.8	56.62	906.18
PMW-02	10/19/1994	A	962.8	56.54	906.26
PMW-02	11/30/1994	A	962.8	56.74	906.06
PMW-02	12/20/1994	A	962.8	56.79	906.01
PMW-02	1/30/1995	A	962.8	56.69	906.11
PMW-02	2/28/1995	A	962.8	55.97	906.83
PMW-02	3/9/1995	A	962.8	55.9	906.9
PMW-02	4/25/1995	A	962.8	55.08	907.72
PMW-02	5/31/1995	A	962.8	55.25	907.55
PMW-02	6/14/1995	A	962.8	55.19	907.61
PMW-02	6/28/2001	A	962.8	59.29	903.51
PMW-02	1/17/2011	A	962.8	67.64	895.16
PMW-03	9/24/1992	A	962.43	57.15	905.28
PMW-03	1/28/1994	A	962.43	53.06	909.37
PMW-03	2/25/1994	A	962.43	53.3	909.13
PMW-03	3/22/1994	A	962.43	52.9	909.53
PMW-03	4/28/1994	A	962.43	53.55	908.88
PMW-03	5/31/1994	A	962.43	53.55	908.88
PMW-03	6/14/1994	A	962.43	53.81	908.62
PMW-03	7/27/1994	A	962.43	55.89	906.54
PMW-03	8/30/1994	A	962.43	56.78	905.65
PMW-03	9/28/1994	A	962.43	56.68	905.75
PMW-03	10/19/1994	A	962.43	56.5	905.93
PMW-03	11/30/1994	A	962.43	56.91	905.52
PMW-03	1/30/1995	A	962.43	56.64	905.79
PMW-03	2/28/1995	A	962.43	56.15	906.28
PMW-03	3/8/1995	A	962.43	56	906.43
PMW-03	4/25/1995	A	962.43	55.18	907.25
PMW-03	5/1/1995	A	962.43	55.33	907.1
PMW-03	6/14/1995	A	962.43	55.15	907.28
PMW-03	3/19/2001	A	962.43	60.03	902.4
PMW-03	1/17/2011	A	962.43	67.73	894.7
PMW-04	9/24/1992	A	963.83	58.32	905.32
PMW-04	1/28/1994	A	963.83	54.09	909.74
PMW-04	2/25/1994	A	963.83	54.32	909.51
PMW-04	3/22/1994	A	963.83	53.8	910.03
PMW-04	4/28/1994	A	963.83	54.6	909.23
PMW-04	5/31/1994	A	963.83	54.59	909.24
PMW-04	6/14/1994	A	963.83	54.86	908.97
PMW-04	7/27/1994	A	963.83	56.26	907.57
PMW-04	8/30/1994	A	963.83	57.62	906.21
PMW-04	9/27/1994	A	963.83	57.77	906.06
PMW-04	10/19/1994	A	963.83	57.61	906.22
PMW-04	11/30/1994	A	963.83	57.95	905.88
PMW-04	12/20/1994	A	963.83	57.88	905.95
PMW-04	1/30/1995	A	963.83	57.81	906.02
PMW-04	2/28/1995	A	963.83	57.2	906.63
PMW-04	3/9/1995	A	963.83	57.1	906.73
PMW-04	4/25/1995	A	963.83	56.21	907.62
PMW-04	5/31/1995	A	963.83	56.44	907.39
PMW-04	6/14/1995	A	963.83	56.12	907.71
PMW-04	3/19/2001	A	963.83	61.22	902.61
PMW-04	1/17/2011	A	963.83	69.01	894.82

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
PMW-05	9/24/1992	A	961.19	56.41	903.91
PMW-05	1/28/1994	A	961.19	51.44	909.75
PMW-05	2/25/1994	A	961.19	51.6	909.59
PMW-05	3/22/1994	A	961.19	51.29	909.9
PMW-05	4/28/1994	A	961.19	51.91	909.28
PMW-05	5/31/1994	A	961.19	51.92	909.27
PMW-05	6/14/1994	A	961.19	52.3	908.89
PMW-05	7/27/1994	A	961.19	54.37	906.82
PMW-05	8/30/1994	A	961.19	55.43	905.76
PMW-05	9/28/1994	A	961.19	55.31	905.88
PMW-05	10/19/1994	A	961.19	55.15	906.04
PMW-05	11/30/1994	A	961.19	55.42	905.77
PMW-05	12/20/1994	A	961.19	55.33	905.86
PMW-05	1/30/1995	A	961.19	55.21	905.98
PMW-05	2/28/1995	A	961.19	54.63	906.56
PMW-05	3/9/1995	A	961.19	54.43	906.76
PMW-05	4/25/1995	A	961.19	53.63	907.56
PMW-05	5/31/1995	A	961.19	53.64	907.55
PMW-05	6/14/1995	A	961.19	53.5	907.69
PMW-05	3/19/2001	A	961.19	58.68	902.51
PMW-05	1/17/2011	A	961.1	66.32	894.78
PMW-06	9/24/1992	A	960.46	52.89	905.81
PMW-06	1/28/1994	A	960.46	48.95	911.51
PMW-06	2/25/1994	A	960.46	49.04	911.42
PMW-06	3/22/1994	A	960.46	48.73	911.73
PMW-06	4/28/1994	A	960.46	49.59	910.87
PMW-06	5/31/1994	A	960.46	49.58	910.88
PMW-06	6/14/1994	A	960.46	49.85	910.61
PMW-06	7/27/1994	A	960.46	52.15	908.31
PMW-06	8/30/1994	A	960.46	53.1	907.36
PMW-06	9/28/1994	A	960.46	52.95	907.51
PMW-06	10/19/1994	A	960.46	52.72	907.74
PMW-06	11/30/1994	A	960.46	55	905.46
PMW-06	12/20/1994	A	960.46	54.86	905.6
PMW-06	1/30/1995	A	960.46	52.86	907.6
PMW-06	2/28/1995	A	960.46	54.18	906.28
PMW-06	3/9/1995	A	960.46	54.03	906.43
PMW-06	4/25/1995	A	960.46	53.11	907.35
PMW-06	5/31/1995	A	960.46	53.17	907.29
PMW-06	6/14/1995	A	960.46	52.94	907.52
PMW-06	3/19/2001	A	960.46	56.3	904.16
PMW-06	1/17/2011	A	960.49	65.83	894.89
PMW-07	9/24/1992	A	960.59	56.35	904.14
PMW-07	1/28/1994	A	960.59	50.64	909.95
PMW-07	2/25/1994	A	960.59	50.81	909.78
PMW-07	3/22/1994	A	960.59	50.42	910.17
PMW-07	4/28/1994	A	960.59	50.63	909.96
PMW-07	5/31/1994	A	960.59	51.2	909.39
PMW-07	6/14/1994	A	960.59	51.41	909.18
PMW-07	7/27/1994	A	960.59	52	908.59
PMW-07	8/30/1994	A	960.59	54.11	906.48
PMW-07	9/28/1994	A	960.59	54.23	906.36
PMW-07	10/19/1994	A	960.59	54.36	906.23

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
PMW-07	11/30/1994	A	960.59	54.75	905.84
PMW-07	12/20/1994	A	960.59	54.7	905.89
PMW-07	1/30/1995	A	960.59	53.58	907.01
PMW-07	2/28/1995	A	960.59	54.97	905.62
PMW-07	3/9/1995	A	960.59	53.68	906.91
PMW-07	4/25/1995	A	960.59	52.77	907.82
PMW-07	5/31/1995	A	960.59	52.99	907.6
PMW-07	6/14/1995	A	960.59	52.84	907.75
PMW-07	3/19/2001	A	960.59	58	902.59
PMW-07	1/17/2011	A	962.05	67.14	894.91
PMW-08	9/24/1992	A	959.07	52.72	906.35
PMW-08	1/28/1994	A	959.07	48.86	910.21
PMW-08	2/25/1994	A	959.07	48.93	910.14
PMW-08	3/22/1994	A	959.07	48.71	910.36
PMW-08	4/28/1994	A	959.07	49.58	909.49
PMW-08	5/31/1994	A	959.07	49.49	909.58
PMW-08	6/14/1994	A	959.07	49.96	909.11
PMW-08	7/27/1994	A	959.07	52.18	906.89
PMW-08	8/30/1994	A	959.07	53.25	905.82
PMW-08	9/27/1994	A	959.07	53.15	905.92
PMW-08	10/19/1994	A	959.07	52.85	906.22
PMW-08	11/30/1994	A	959.07	53.38	905.69
PMW-08	12/20/1994	A	959.07	53.35	905.72
PMW-08	1/30/1995	A	959.07	53.18	905.89
PMW-08	2/28/1995	A	959.07	52.59	906.48
PMW-08	3/8/1995	A	959.07	52.6	906.47
PMW-08	4/25/1995	A	959.07	51.54	907.53
PMW-08	5/31/1995	A	959.07	51.33	907.74
PMW-08	6/14/1995	A	959.07	51.32	907.75
PMW-08	6/25/1999	A	959.07	56.1	902.97
PMW-08	10/13/1999	A	959.07	56.65	902.42
PMW-08	3/29/2000	A	959.07	56.22	902.85
PMW-08	9/27/2000	A	959.07	58.53	900.54
PMW-08	3/19/2001	A	959.07	56.6	902.47
PMW-08	1/17/2011	A	959.07	64.18	894.89
PMW-09	1/28/1994	A	964.52	54.3	910.22
PMW-09	2/25/1994	A	964.52	54.45	910.07
PMW-09	3/22/1994	A	964.52	54.06	910.46
PMW-09	4/28/1994	A	964.52	54.51	910.01
PMW-09	5/31/1994	A	964.52	54.6	909.92
PMW-09	6/14/1994	A	964.52	53.93	910.59
PMW-09	7/27/1994	A	964.52	57.39	907.13
PMW-09	8/30/1994	A	964.52	58.33	906.19
PMW-09	9/28/1994	A	964.52	58.37	906.15
PMW-09	10/19/1994	A	964.52	58.11	906.41
PMW-09	11/30/1994	A	964.52	58.44	906.08
PMW-09	12/20/1994	A	964.52	58.41	906.11
PMW-09	1/30/1995	A	964.52	58.27	906.25
PMW-09	2/28/1995	A	964.52	57.71	906.81
PMW-09	3/9/1995	A	964.52	57.65	906.87
PMW-09	4/25/1995	A	964.52	56.64	907.88
PMW-09	5/31/1995	A	964.52	56.69	907.83
PMW-09	6/14/1995	A	964.52	56.66	907.86

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
PMW-09	3/19/2001	A	964.52	61.75	902.77
PMW-09	1/17/2011	A	964.52	69.59	894.93
PMW-10	9/24/1992	A	960.43	53.54	905.58
PMW-10	1/28/1994	A	960.43	51.01	909.42
PMW-10	2/25/1994	A	960.43	51.1	909.33
PMW-10	3/22/1994	A	960.43	50.78	909.65
PMW-10	4/28/1994	A	960.43	51.53	908.9
PMW-10	5/31/1994	A	960.43	51.53	908.9
PMW-10	6/14/1994	A	960.43	51.89	908.54
PMW-10	7/27/1994	A	960.43	54.03	906.4
PMW-10	8/30/1994	A	960.43	55.07	905.36
PMW-10	9/28/1994	A	960.43	55.02	905.41
PMW-10	10/19/1994	A	960.43	54.73	905.7
PMW-10	11/30/1994	A	960.43	55.27	905.16
PMW-10	12/20/1994	A	960.43	52.87	907.56
PMW-10	1/30/1995	A	960.43	55	905.43
PMW-10	2/28/1995	A	960.43	54.5	905.93
PMW-10	3/9/1995	A	960.43	54.28	906.15
PMW-10	4/25/1995	A	960.43	53.5	906.93
PMW-10	5/31/1995	A	960.43	53.29	907.14
PMW-10	6/14/1995	A	960.43	53.22	907.21
PMW-10	3/19/2001	A	960.43	58.2	902.23
PMW-10	1/17/2011	A	960.8	66.06	894.74
PMW-11	1/28/1994	A	962.7	53.01	909.69
PMW-11	2/25/1994	A	962.7	53.28	909.42
PMW-11	3/22/1994	A	962.7	52.89	909.81
PMW-11	4/28/1994	A	962.7	53.39	909.31
PMW-11	5/31/1994	A	962.7	53.42	909.28
PMW-11	6/14/1994	A	962.7	53.64	909.06
PMW-11	7/27/1994	A	962.7	55.25	907.45
PMW-11	8/30/1994	A	962.7	56.52	906.18
PMW-11	9/28/1994	A	962.7	56.59	906.11
PMW-11	10/19/1994	A	962.7	56.42	906.28
PMW-11	11/30/1994	A	962.7	56.84	905.86
PMW-11	12/20/1994	A	962.7	56.89	905.81
PMW-11	1/30/1995	A	962.7	56.87	905.83
PMW-11	2/28/1995	A	962.7	56.12	906.58
PMW-11	3/9/1995	A	962.7	55.95	906.75
PMW-11	4/25/1995	A	962.7	55.13	907.57
PMW-11	5/31/1995	A	962.7	55.24	907.46
PMW-11	1/17/2011	A	962.7	61.08	901.62
PMW-12	9/24/1992	A	964.45	58.79	905.97
PMW-12	1/28/1994	A	964.45	54.21	910.49
PMW-12	2/25/1994	A	964.45	54.45	910.25
PMW-12	3/22/1994	A	964.45	54.11	910.59
PMW-12	4/28/1994	A	964.45	54.63	910.07
PMW-12	5/31/1994	A	964.45	54.62	910.08
PMW-12	6/14/1994	A	964.45	54.74	909.96
PMW-12	7/27/1994	A	964.45	53.73	910.97
PMW-12	8/30/1994	A	964.45	58.52	906.18
PMW-12	9/27/1994	A	964.45	58.38	906.32
PMW-12	10/19/1994	A	964.45	58.29	906.41
PMW-12	11/30/1994	A	964.45	58.67	906.03

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
PMW-12	12/20/1994	A	964.45	58.59	906.11
PMW-12	1/30/1995	A	964.45	58.38	906.32
PMW-12	2/28/1995	A	964.45	57.89	906.81
PMW-12	3/9/1995	A	964.45	57.74	906.96
PMW-12	4/25/1995	A	964.45	56.89	907.81
PMW-12	5/31/1995	A	964.45	56.88	907.82
PMW-12	6/14/1995	A	964.45	56.89	907.81
PMW-12	3/19/2001	A	964.45	61.62	902.83
PMW-12	1/17/2011	A	964.4	69.44	894.96
PMW-13	9/24/1992	A	963.77	58.7	905.11
PMW-13	1/28/1994	A	963.77	54.4	909.37
PMW-13	2/25/1994	A	963.77	54.64	909.13
PMW-13	3/22/1994	A	963.77	54.28	909.49
PMW-13	4/28/1994	A	963.77	54.8	908.97
PMW-13	5/31/1994	A	963.77	54.79	908.98
PMW-13	6/14/1994	A	963.77	54.9	908.87
PMW-13	7/27/1994	A	963.77	56.61	907.16
PMW-13	8/30/1994	A	963.77	57.72	906.05
PMW-13	9/27/1994	A	963.77	57.79	905.98
PMW-13	10/19/1994	A	963.77	57.6	906.17
PMW-13	11/30/1994	A	963.77	57.96	905.81
PMW-13	12/20/1994	A	963.77	57.94	905.83
PMW-13	1/30/1995	A	963.77	57.82	905.95
PMW-13	2/28/1995	A	963.77	57.4	906.37
PMW-13	3/8/1995	A	963.77	57.31	906.46
PMW-13	4/25/1995	A	963.77	56.47	907.3
PMW-13	5/31/1995	A	963.77	56.59	907.18
PMW-13	6/14/1995	A	963.77	56.58	907.19
PMW-13	6/25/1999	A	963.77	60.38	903.39
PMW-13	10/13/1999	A	963.77	61.01	902.76
PMW-13	3/29/2000	A	963.77	60.84	902.93
PMW-13	9/27/2000	A	963.77	62.9	900.87
PMW-13	3/19/2001	A	963.77	61.45	902.32
PMW-13	1/17/2011	A	963.77	69.09	894.68
PMW-14	9/24/1992	A	959.57	55.56	904.3
PMW-14	1/28/1994	A	959.57	50.06	909.51
PMW-14	2/25/1994	A	959.57	50.28	909.29
PMW-14	3/22/1994	A	959.57	49.86	909.71
PMW-14	4/28/1994	A	959.57	50.77	908.8
PMW-14	5/31/1994	A	959.57	50.6	908.97
PMW-14	6/14/1994	A	959.57	50.96	908.61
PMW-14	7/27/1994	A	959.57	52.23	907.34
PMW-14	8/30/1994	A	959.57	54	905.57
PMW-14	9/28/1994	A	959.57	56.38	903.19
PMW-14	10/19/1994	A	959.57	53.61	905.96
PMW-14	11/30/1994	A	959.57	54.03	905.54
PMW-14	12/20/1994	A	959.57	54.06	905.51
PMW-14	1/30/1995	A	959.57	53.95	905.62
PMW-14	2/28/1995	A	959.57	53.24	906.33
PMW-14	3/9/1995	A	959.57	53.09	906.48
PMW-14	4/25/1995	A	959.57	52.27	907.3
PMW-14	5/31/1995	A	959.57	52.41	907.16
PMW-14	10/13/1999	A	959.57	57.15	902.42

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
PMW-14	2/24/2000	A	959.57	56.96	902.61
PMW-14	3/29/2000	A	959.57	56.82	902.75
PMW-14	9/27/2000	A	959.57	59.04	900.53
PMW-14	3/19/2001	A	959.57	57.31	902.26
PMW-14	1/17/2011	A	960.01	65.34	894.67
PMW-15	9/24/1992	A	957.15	51.56	905.59
PMW-15	1/28/1994	A	957.15	47.78	909.37
PMW-15	2/25/1994	A	957.15	47.99	909.16
PMW-15	3/22/1994	A	957.15	47.55	909.6
PMW-15	4/28/1994	A	957.15	48.44	908.71
PMW-15	5/31/1994	A	957.15	48.34	908.81
PMW-15	6/14/1994	A	957.15	48.78	908.37
PMW-15	7/27/1994	A	957.15	50.83	906.32
PMW-15	8/30/1994	A	957.15	52	905.15
PMW-15	9/27/1994	A	957.15	51.65	905.5
PMW-15	10/19/1994	A	957.15	51.53	905.62
PMW-15	11/30/1994	A	957.15	52.04	905.11
PMW-15	12/20/1994	A	957.15	52.07	905.08
PMW-15	1/30/1995	A	957.15	51.73	905.42
PMW-15	2/28/1995	A	957.15	51.25	905.9
PMW-15	3/8/1995	A	957.15	51.08	906.07
PMW-15	4/25/1995	A	957.15	50.17	906.98
PMW-15	5/31/1995	A	957.15	50.19	906.96
PMW-15	6/14/1995	A	957.15	50.03	907.12
PMW-15	6/25/1999	A	957.15	54.15	903
PMW-15	10/13/1999	A	957.15	54.96	902.19
PMW-15	3/29/2000	A	957.15	54.6	902.55
PMW-15	9/27/2000	A	957.15	56.92	900.23
PMW-15	3/19/2001	A	957.15	55.12	902.03
PMW-15	1/17/2011	A	958.19	63.65	894.54
PMW-16	9/24/1992	A	961.86	56.8	905.06
PMW-16	1/28/1994	A	961.86	52.77	909.09
PMW-16	2/25/1994	A	961.86	52.9	908.96
PMW-16	3/22/1994	A	961.86	52.55	909.31
PMW-16	4/28/1994	A	961.86	53.3	908.56
PMW-16	5/31/1994	A	961.86	53.2	908.66
PMW-16	6/14/1994	A	961.86	53.65	908.21
PMW-16	7/27/1994	A	961.86	55.57	906.29
PMW-16	8/30/1994	A	961.86	56.63	905.23
PMW-16	9/27/1994	A	961.86	56.55	905.31
PMW-16	10/19/1994	A	961.86	56.28	905.58
PMW-16	11/30/1994	A	961.86	56.67	905.19
PMW-16	12/20/1994	A	961.86	56.69	905.17
PMW-16	1/30/1995	A	961.86	56.42	905.44
PMW-16	2/28/1995	A	961.86	55.9	905.96
PMW-16	3/8/1995	A	961.86	55.78	906.08
PMW-16	4/25/1995	A	961.86	54.97	906.89
PMW-16	5/31/1995	A	961.86	55.14	906.72
PMW-16	6/14/1995	A	961.86	50.03	911.83
PMW-16	3/19/2001	A	961.86	59.7	902.16
PMW-16	1/17/2011	A	961.86	67.3	894.56
PMW-17	1/28/1994	A	965.85	55.97	909.88
PMW-17	2/25/1994	A	965.85	56.15	909.7

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
PMW-17	3/22/1994	A	965.85	55.83	910.02
PMW-17	4/28/1994	A	965.85	56.15	909.7
PMW-17	5/31/1994	A	965.85	56.16	909.69
PMW-17	6/14/1994	A	965.85	56.29	909.56
PMW-17	7/27/1994	A	965.85	56.78	909.07
PMW-17	8/30/1994	A	965.85	58.74	907.11
PMW-17	9/27/1994	A	965.85	59.7	906.15
PMW-17	10/19/1994	A	965.85	59.57	906.28
PMW-17	11/30/1994	A	965.85	59.95	905.9
PMW-17	12/20/1994	A	965.85	59.99	905.86
PMW-17	1/30/1995	A	965.85	59.78	906.07
PMW-17	2/28/1995	A	965.85	59.15	906.7
PMW-17	3/8/1995	A	965.85	58.91	906.94
PMW-17	4/25/1995	A	965.85	58.06	907.79
PMW-17	5/31/1995	A	965.85	57.98	907.87
PMW-17	6/14/1995	A	965.85	58.92	906.93
PMW-17	3/19/2001	A	965.85	63.16	902.69
PMW-17	1/17/2011	A	965.85	70.98	894.87
PMW-18	1/28/1994	A	966.24	55.9	910.34
PMW-18	2/25/1994	A	966.24	55.97	910.27
PMW-18	3/22/1994	A	966.24	55.6	910.64
PMW-18	4/28/1994	A	966.24	56.23	910.01
PMW-18	5/31/1994	A	966.24	56.2	910.04
PMW-18	6/14/1994	A	966.24	56.45	909.79
PMW-18	7/27/1994	A	966.24	58.39	907.85
PMW-18	8/30/1994	A	966.24	59.59	906.65
PMW-18	9/27/1994	A	966.24	59.62	906.62
PMW-18	10/19/1994	A	966.24	59.44	906.8
PMW-18	11/30/1994	A	966.24	59.98	906.26
PMW-18	12/20/1994	A	966.24	59.85	906.39
PMW-18	1/30/1995	A	966.24	59.81	906.43
PMW-18	2/28/1995	A	966.24	59.11	907.13
PMW-18	3/8/1995	A	966.24	59.13	907.11
PMW-18	4/25/1995	A	966.24	58.15	908.09
PMW-18	5/31/1995	A	966.24	57.95	908.29
PMW-18	6/14/1995	A	966.24	57.95	908.29
PMW-18	3/19/2001	A	966.24	63.08	903.16
PMW-18	1/17/2011	A	966.24	71.16	895.08
PMW-19	1/28/1994	A	962.45	51.68	910.77
PMW-19	2/25/1994	A	962.45	51.81	910.64
PMW-19	3/22/1994	A	962.45	51.57	910.88
PMW-19	4/28/1994	A	962.45	52.19	910.26
PMW-19	5/31/1994	A	962.45	52.22	910.23
PMW-19	6/14/1994	A	962.45	52.48	909.97
PMW-19	7/27/1994	A	962.45	54.89	907.56
PMW-19	8/30/1994	A	962.45	56.14	906.31
PMW-19	9/27/1994	A	962.45	56.18	906.27
PMW-19	10/19/1994	A	962.45	55.9	906.55
PMW-19	11/30/1994	A	962.45	56.38	906.07
PMW-19	12/20/1994	A	962.45	56.34	906.11
PMW-19	1/30/1995	A	962.45	56.07	906.38
PMW-19	2/28/1995	A	962.45	55.57	906.88
PMW-19	3/8/1995	A	962.45	55.44	907.01

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
PMW-19	4/25/1995	A	962.45	54.59	907.86
PMW-19	5/31/1995	A	962.45	54.29	908.16
PMW-19	6/14/1995	A	962.45	54.25	908.2
PMW-19	3/19/2001	A	962.45	59.47	902.98
PMW-19	1/17/2011	A	962.45	67.5	894.95
PMW-20D	1/28/1994	A	962.11	52.18	909.93
PMW-20D	2/25/1994	A	962.11	52.31	909.8
PMW-20D	3/22/1994	A	962.11	51.98	910.13
PMW-20D	4/28/1994	A	962.11	52.73	909.38
PMW-20D	5/31/1994	A	962.11	52.74	909.37
PMW-20D	6/14/1994	A	962.11	53.21	908.9
PMW-20D	7/27/1994	A	962.11	55.28	906.83
PMW-20D	8/30/1994	A	962.11	56.17	905.94
PMW-20D	9/27/1994	A	962.11	56.07	906.04
PMW-20D	10/19/1994	A	962.11	55.93	906.18
PMW-20D	11/30/1994	A	962.11	56.29	905.82
PMW-20D	12/20/1994	A	962.11	56.21	905.9
PMW-20D	1/30/1995	A	962.11	55.98	906.13
PMW-20D	2/28/1995	A	962.11	55.56	906.55
PMW-20D	3/8/1995	A	962.11	55.4	906.71
PMW-20D	4/25/1995	A	962.11	54.51	907.6
PMW-20D	5/31/1995	A	962.11	54.52	907.59
PMW-20D	6/14/1995	A	962.11	54.53	907.58
PMW-20D	6/28/2001	A	962.11	58.76	903.35
PMW-20D	1/17/2011	A	962.11	67.3	894.81
PMW-20S	1/28/1994	A	962.1	52.27	909.83
PMW-20S	2/25/1994	A	962.1	52.41	909.69
PMW-20S	3/22/1994	A	962.1	52.1	910
PMW-20S	4/28/1994	A	962.1	52.48	909.62
PMW-20S	5/31/1994	A	962.1	52.59	909.51
PMW-20S	6/14/1994	A	962.1	52.73	909.37
PMW-20S	7/27/1994	A	962.1	54.05	908.05
PMW-20S	8/30/1994	A	962.1	55.87	906.23
PMW-20S	9/27/1994	A	962.1	55.85	906.25
PMW-20S	10/19/1994	A	962.1	55.69	906.41
PMW-20S	11/30/1994	A	962.1	56.06	906.04
PMW-20S	12/20/1994	A	962.1	55.67	906.43
PMW-20S	1/30/1995	A	962.1	56.01	906.09
PMW-20S	2/28/1995	A	962.1	55.32	906.78
PMW-20S	3/8/1995	A	962.1	55.42	906.68
PMW-20S	4/25/1995	A	962.1	54.32	907.78
PMW-20S	5/31/1995	A	962.1	54.55	907.55
PMW-20S	6/14/1995	A	962.1	54.35	907.75
PMW-20S	6/28/2001	A	962.1	58.68	903.42
PZ-01	5/13/2002	A/B	898.33	87.97	986.3
PZ-01	7/30/2002	A/B	986.3	91.1	895.2
R.WOOD-01	1/14/1993	OTHER	951	56.5	894.5
R.WOOD-03	1/14/1993	OTHER	951	55.2	895.8
R2.9W3.3	1/26/1993	C	967	51.2	915.8
R2W5NNEW	1/26/1993	OTHER	983	58.4	924.6
R4W4N	1/26/1993	C	977.5	83.2	894.3
RAYNER-02	1/26/1993	A/C	942	54.85	887.15
RECMET-02	7/12/1991	BC	940	57.6	882.4

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
RECMET-02	1/27/1993	BC	940	45.6	894.4
RECMET-02	6/17/1993	BC	940	79	861
SB-06LC	10/25/1994	C	963.37	63.58	899.79
SB-06LC	10/27/1994	C	963.37	63.44	899.93
SB-06LC	11/1/1994	C	963.37	61.88	901.49
SB-06LC	11/4/1994	C	963.37	61.89	901.48
SB-06LC	11/8/1994	C	963.37	61.89	901.48
SB-06LC	11/11/1994	C	963.37	61.77	901.6
SB-06LC	11/15/1994	C	963.37	61.41	901.96
SB-06LC	11/18/1994	C	963.37	61.21	902.16
SB-06LC	11/21/1994	C	963.37	61.28	902.09
SB-06LC	11/23/1994	C	963.37	61.25	902.12
SB-06LC	11/29/1994	C	963.37	61.23	902.14
SB-06LC	12/2/1994	C	963.37	63.1	900.27
SB-06LC	12/9/1994	C	963.37	61.12	902.25
SB-06LC	12/13/1994	C	963.37	61.72	901.65
SB-06LC	12/20/1994	C	963.37	60.54	902.83
SB-06LC	12/27/1994	C	963.37	59.91	903.46
SB-06LC	1/3/1995	C	963.37	59.91	903.46
SB-06LC	1/10/1995	C	963.37	59.21	904.16
SB-06LC	1/17/1995	C	963.37	58.83	904.54
SB-06LC	1/24/1995	C	963.37	58.65	904.72
SB-06LC	1/31/1995	C	963.37	58.22	905.15
SB-06LC	2/8/1995	C	963.37	58.84	904.53
SB-06LC	2/13/1995	C	963.37	58.67	904.7
SB-06LC	2/22/1995	C	963.37	59.29	904.08
SB-06LC	3/2/1995	C	963.37	58.12	905.25
SB-06LC	3/10/1995	C	963.37	58.02	905.35
SB-06LC	3/15/1995	C	963.37	57.63	905.74
SB-06LC	4/5/1995	C	963.37	62.82	900.55
SB-06LC	4/14/1995	C	963.37	64.5	898.87
SB-06LC	4/18/1995	C	963.37	60.75	902.62
SB-06LC	4/25/1995	C	963.37	60.97	902.4
SB-06LC	5/3/1995	C	963.37	61.1	902.27
SB-06LC	5/16/1995	C	963.37	61.63	901.74
SB-06LC	5/25/1995	C	963.37	60.52	902.85
SB-06LC	6/2/1995	C	963.37	64.03	899.34
SB-06LC	6/6/1995	C	963.37	63.96	899.41
SB-06LC	6/15/1995	C	963.37	68.8	894.57
SB-06LC	6/22/1995	C	963.37	67.77	895.6
SB-06LC	6/29/1995	C	963.37	70.69	892.68
SB-06LC	7/7/1995	C	963.37	71.37	892
SB-06LC	7/21/1995	C	963.37	75.16	888.21
SB-06LC	7/28/1995	C	963.37	77.87	885.5
SB-06LC	8/2/1995	C	963.37	75.83	887.54
SB-06LC	8/10/1995	C	963.37	77.35	886.02
SB-06LC	8/15/1995	C	963.37	74.6	888.77
SB-06LC	8/23/1995	C	963.37	68.1	895.27
SB-06LC	8/31/1995	C	963.37	70.67	892.7
SB-06LC	9/6/1995	C	963.37	66.52	896.85
SB-06LC	9/13/1995	C	963.37	63.95	899.42
SB-06LC	9/22/1995	C	963.37	64.55	898.82
SB-06LC	9/28/1995	C	963.37	62.47	900.9

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
SB-06LC	10/6/1995	C	963.37	61.96	901.41
SB-06LC	3/30/1996	C	963.37	64.11	899.26
SB-06LC	6/28/1996	C	963.37	74.71	888.66
SB-06LC	9/28/1996	C	963.37	65.32	898.05
SB-06LC	1/15/1997	C	963.37	61.74	901.63
SB-06LC	4/29/1997	C	963.37	71.11	892.26
SB-06LC	7/29/1997	C	963.37	81.28	882.09
SB-06LC	10/23/1997	C	963.37	67.9	895.47
SB-06LC	1/30/1998	C	963.37	65.55	906
SB-06LC	5/8/1998	C	963.37	66.57	896.8
SB-06LC	7/29/1998	C	963.37	69.4	893.97
SB-06LC	10/29/1998	C	963.37	62.5	900.87
SB-06LC	1/28/1999	C	963.37	62.01	901.36
SB-06LC	4/28/1999	C	963.37	68.5	894.87
SB-06LC	8/5/1999	C	963.37	78.15	885.22
SB-06LC	10/12/1999	C	963.37	67.87	895.5
SB-06LC	2/9/2000	C	963.37	64.7	898.67
SB-06LC	5/2/2000	C	963.37	66.8	896.57
SB-06LC	8/3/2000	C	963.37	78.3	885.07
SB-06LC	10/25/2000	C	963.37	67.8	895.57
SB-06LC	1/31/2001	C	963.37	63.5	899.87
SB-06LC	5/24/2001	C	963.37	65.4	897.97
SB-06LC	8/1/2001	C	963.37	76.6	886.77
SB-06LC	10/30/2001	C	963.37	68.45	894.92
SB-06LC	1/31/2002	C	963.37	65.45	897.92
SB-06LC	5/14/2002	C	963.37	69.22	894.15
SB-06LC	7/31/2002	C	963.37	84.55	878.82
SB-06LC	10/31/2002	C	963.37	72.9	890.47
SB-06LC	1/31/2003	C	963.37	68.55	894.82
SB-06LC	4/30/2003	C	963.37	71	892.37
SB-06LC	8/8/2003	C	963.37	78.35	885.02
SB-06LC	10/29/2003	C	963.37	73.8	889.57
SB-06LC	1/29/2004	C	963.37	68.52	894.85
SB-06LC	4/29/2004	C	963.37	71.8	891.57
SB-06LC	7/30/2004	C	963.37	85.3	878.07
SB-06LC	11/2/2004	C	963.37	75.9	887.47
SB-06LC	1/28/2005	C	963.37	69.65	893.72
SB-06LC	5/6/2005	C	963.37	70.15	893.22
SB-06LC	7/26/2005	C	963.37	79.5	883.87
SB-06LC	10/27/2005	C	963.37	71.8	891.57
SB-06LC	1/27/2006	C	963.37	69.35	894.02
SB-06LC	5/4/2006	C	963.37	73	890.37
SB-06LC	7/26/2006	C	963.37	78.8	884.57
SB-06LC	10/31/2006	C	963.37	73.8	889.57
SB-06LC	1/30/2007	C	963.37	72.15	891.22
SB-06LC	5/2/2007	C	963.37	73.5	889.87
SB-06LC	8/1/2007	C	963.37	82.85	880.52
SB-06LC	10/9/2007	C	963.37	80.84	882.53
SB-06LC	1/8/2008	C	963.37	72.13	891.24
SB-06LC	4/14/2008	C	963.37	75.38	887.99
SB-06LC	8/1/2008	C	963.37	82.65	880.72
SB-06LC	11/17/2008	C	963.37	76.99	886.38
SB-06LC	2/19/2009	C	963.37	73.56	889.81

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
SB-06LC	5/18/2009	C	963.37	74.81	888.56
SB-06LC	8/24/2009	C	965.43	82.52	882.91
SB-06LC	9/21/2009	C	965.43	82.97	882.46
SB-06LC	10/19/2009	C	965.43	80.72	884.71
SB-06LC	11/17/2009	C	965.43	77.62	887.81
SB-06LC	2/3/2010	C	965.43	72.13	893.3
SB-06LC	5/3/2010	C	965.43	74	891.43
SB-06LC	8/23/2010	C	965.43	80.4	885.03
SB-06LC	11/29/2010	C	965.43	73.2	892.23
SB-06LC	2/3/2011	C	965.43	71.47	893.96
SB-06LC	5/2/2011	C	965.43	76.51	888.92
SB-06LC	8/1/2011	C	965.43	82.77	882.66
SB-06LC	11/1/2011	C	965.43	79.44	885.99
SB-06LC	2/1/2012	C	964.895	76.69	888.205
SB-06LC	5/1/2012	C	964.895	76.97	887.925
SB-06LC	8/1/2012	C	964.895	84.24	880.655
SB-06LC	11/1/2012	C	964.895	79.24	885.655
SB-06LC	2/4/2013	C	964.895	73.88	891.015
SB-06LC	5/1/2013	C	964.895	78.28	886.615
SB-06LC	8/5/2013	C	965.43	87.68	877.75
SB-06LC	11/4/2013	C	965.43	81.49	883.94
SB-06UC	10/25/1994	C	963.09	63.14	899.95
SB-06UC	10/27/1994	C	963.09	63	900.09
SB-06UC	11/1/1994	C	963.09	61.66	901.43
SB-06UC	11/4/1994	C	963.09	61.44	901.65
SB-06UC	11/8/1994	C	963.09	61.44	901.65
SB-06UC	11/11/1994	C	963.09	61.2	901.89
SB-06UC	11/15/1994	C	963.09	61.03	902.06
SB-06UC	11/18/1994	C	963.09	60.7	902.39
SB-06UC	11/21/1994	C	963.09	60.85	902.24
SB-06UC	11/23/1994	C	963.09	60.87	902.22
SB-06UC	11/29/1994	C	963.09	60.86	902.23
SB-06UC	12/2/1994	C	963.09	62.78	900.31
SB-06UC	12/9/1994	C	963.09	60.76	902.33
SB-06UC	12/13/1994	C	963.09	61.39	901.7
SB-06UC	12/20/1994	C	963.09	60.2	902.89
SB-06UC	12/27/1994	C	963.09	59.97	903.12
SB-06UC	1/3/1995	C	963.09	59.55	903.54
SB-06UC	1/10/1995	C	963.09	58.84	904.25
SB-06UC	1/17/1995	C	963.09	58.46	904.63
SB-06UC	1/24/1995	C	963.09	58.29	904.8
SB-06UC	1/31/1995	C	963.09	57.81	905.28
SB-06UC	2/8/1995	C	963.09	58.54	904.55
SB-06UC	2/13/1995	C	963.09	58.31	904.78
SB-06UC	2/22/1995	C	963.09	58.95	904.14
SB-06UC	3/2/1995	C	963.09	57.8	905.29
SB-06UC	3/10/1995	C	963.09	57.72	905.37
SB-06UC	3/15/1995	C	963.09	57.35	905.74
SB-06UC	4/5/1995	C	963.09	62.52	900.57
SB-06UC	4/14/1995	C	963.09	64.33	898.76
SB-06UC	4/18/1995	C	963.09	60.54	902.55
SB-06UC	4/25/1995	C	963.09	60.7	902.39
SB-06UC	5/3/1995	C	963.09	60.77	902.32

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
SB-06UC	5/16/1995	C	963.09	61.62	901.47
SB-06UC	5/25/1995	C	963.09	60.2	902.89
SB-06UC	6/2/1995	C	963.09	63.75	899.34
SB-06UC	6/6/1995	C	963.09	63.7	899.39
SB-06UC	6/15/1995	C	963.09	68.56	894.53
SB-06UC	6/22/1995	C	963.09	67.51	895.58
SB-06UC	6/29/1995	C	963.09	70.75	892.34
SB-06UC	7/7/1995	C	963.09	71.08	892.01
SB-06UC	7/21/1995	C	963.09	74.92	888.17
SB-06UC	7/28/1995	C	963.09	77.68	885.41
SB-06UC	8/2/1995	C	963.09	75.65	887.44
SB-06UC	8/10/1995	C	963.09	77.13	885.96
SB-06UC	8/15/1995	C	963.09	74.35	888.74
SB-06UC	8/23/1995	C	963.09	67.79	895.3
SB-06UC	8/31/1995	C	963.09	70.37	892.72
SB-06UC	9/6/1995	C	963.09	66.25	896.84
SB-06UC	9/13/1995	C	963.09	63.68	899.41
SB-06UC	9/22/1995	C	963.09	64.25	898.84
SB-06UC	9/28/1995	C	963.09	62.17	900.92
SB-06UC	10/6/1995	C	963.09	61.69	901.4
SB-06UC	3/30/1996	C	963.09	63.88	899.21
SB-06UC	6/28/1996	C	963.09	74.54	888.55
SB-06UC	9/28/1996	C	963.09	65	898.09
SB-06UC	1/15/1997	C	963.09	61.44	901.65
SB-06UC	4/29/1997	C	963.09	70.9	892.19
SB-06UC	7/29/1997	C	963.09	81.06	882.03
SB-06UC	10/23/1997	C	963.09	67.65	895.44
SB-06UC	1/30/1998	C	963.09	65.28	907.57
SB-06UC	11/17/2008	C	963.09	76.93	886.16
SB-06UC	9/21/2009	C	965.15	82.91	882.24
SB-06UC	10/19/2009	C	965.15	80.66	884.49
SB-07LC	10/25/1994	C	964.5	65.16	899.34
SB-07LC	10/27/1994	C	964.5	63.43	901.07
SB-07LC	11/1/1994	C	964.5	63.1	901.4
SB-07LC	11/4/1994	C	964.5	63.15	901.35
SB-07LC	11/8/1994	C	964.5	63.02	901.48
SB-07LC	11/11/1994	C	964.5	62.92	901.58
SB-07LC	11/15/1994	C	964.5	62.62	901.88
SB-07LC	11/18/1994	C	964.5	62.49	902.01
SB-07LC	11/21/1994	C	964.5	62.56	901.94
SB-07LC	11/23/1994	C	964.5	62.57	901.93
SB-07LC	11/29/1994	C	964.5	62.52	901.98
SB-07LC	12/2/1994	C	964.5	64.48	900.02
SB-07LC	12/9/1994	C	964.5	62.44	902.06
SB-07LC	12/13/1994	C	964.5	63.11	901.39
SB-07LC	12/20/1994	C	964.5	61.8	902.7
SB-07LC	12/27/1994	C	964.5	61.2	903.3
SB-07LC	1/3/1995	C	964.5	61.11	903.39
SB-07LC	1/10/1995	C	964.5	60.45	904.05
SB-07LC	1/17/1995	C	964.5	60.1	904.4
SB-07LC	1/24/1995	C	964.5	59.94	904.56
SB-07LC	1/31/1995	C	964.5	59.47	905.03
SB-07LC	2/8/1995	C	964.5	60.18	904.32

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
SB-07LC	2/13/1995	C	964.5	59.99	904.51
SB-07LC	2/22/1995	C	964.5	60.66	903.84
SB-07LC	3/2/1995	C	964.5	59.46	905.04
SB-07LC	3/10/1995	C	964.5	59.33	905.17
SB-07LC	3/15/1995	C	964.5	58.95	905.55
SB-07LC	4/5/1995	C	964.5	64.2	900.3
SB-07LC	4/14/1995	C	964.5	66.12	898.38
SB-07LC	4/18/1995	C	964.5	62.23	902.27
SB-07LC	4/25/1995	C	964.5	62.31	902.19
SB-07LC	5/3/1995	C	964.5	62.34	902.16
SB-07LC	5/16/1995	C	964.5	60.92	903.58
SB-07LC	5/25/1995	C	964.5	61.63	902.87
SB-07LC	6/2/1995	C	964.5	65.23	899.27
SB-07LC	6/6/1995	C	964.5	65.06	899.44
SB-07LC	6/15/1995	C	964.5	70.03	894.47
SB-07LC	6/22/1995	C	964.5	69.04	895.46
SB-07LC	6/30/1995	C	964.5	74.4	890.1
SB-07LC	7/7/1995	C	964.5	72.67	891.83
SB-07LC	7/21/1995	C	964.5	76.5	888
SB-07LC	7/28/1995	C	964.5	79.32	885.18
SB-07LC	8/2/1995	C	964.5	77.37	887.13
SB-07LC	8/10/1995	C	964.5	78.75	885.75
SB-07LC	8/15/1995	C	964.5	76.02	888.48
SB-07LC	8/23/1995	C	964.5	69.95	894.55
SB-07LC	8/31/1995	C	964.5	71.95	892.55
SB-07LC	9/6/1995	C	964.5	67.78	896.72
SB-07LC	9/13/1995	C	964.5	65.38	899.12
SB-07LC	9/22/1995	C	964.5	65.85	898.65
SB-07LC	9/28/1995	C	964.5	63.86	900.64
SB-07LC	10/6/1995	C	964.5	63.3	901.2
SB-07LC	3/30/1996	C	964.5	65.47	899.03
SB-07LC	6/28/1996	C	964.5	76.25	888.25
SB-07LC	9/28/1996	C	964.5	66.65	897.85
SB-07LC	1/15/1997	C	964.5	62.95	901.55
SB-07LC	4/29/1997	C	964.5	72.21	892.29
SB-07LC	7/29/1997	C	964.5	82.77	881.73
SB-07LC	10/23/1997	C	964.5	69.33	895.17
SB-07LC	1/30/1998	C	964.5	66.97	897.07
SB-07LC	5/8/1998	C	964.5	72.92	891.58
SB-07LC	7/29/1998	C	964.5	70.7	893.8
SB-07LC	10/29/1998	C	964.5	64.2	900.3
SB-07LC	1/28/1999	C	964.5	63.5	901
SB-07LC	4/28/1999	C	964.5	69.85	894.65
SB-07LC	8/5/1999	C	964.5	79.8	884.7
SB-07LC	10/12/1999	C	964.5	69.4	895.1
SB-07LC	2/9/2000	C	964.5	66.1	898.4
SB-07LC	5/2/2000	C	964.5	68	896.5
SB-07LC	8/3/2000	C	964.5	79.6	884.9
SB-07LC	10/25/2000	C	964.5	69.15	895.35
SB-07LC	1/31/2001	C	964.5	64.65	899.85
SB-07LC	5/24/2001	C	964.5	66.7	897.8
SB-07LC	8/1/2001	C	964.5	78.05	886.45
SB-07LC	10/30/2001	C	964.5	69.9	894.6

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
SB-07LC	1/31/2002	C	964.5	66.7	897.8
SB-07LC	5/14/2002	C	964.5	70.92	893.58
SB-07LC	7/31/2002	C	964.5	86.05	878.45
SB-07LC	10/31/2002	C	964.5	73	891.5
SB-07LC	1/31/2003	C	964.5	69.6	894.9
SB-07LC	4/30/2003	C	964.5	72.4	892.1
SB-07LC	8/8/2003	C	964.5	79.9	884.6
SB-07LC	10/29/2003	C	964.5	75	889.5
SB-07LC	1/29/2004	C	964.5	69.85	894.65
SB-07LC	4/29/2004	C	964.5	72.9	891.6
SB-07LC	7/30/2004	C	964.5	86.7	877.8
SB-07LC	11/2/2004	C	964.5	77.3	887.2
SB-07LC	1/28/2005	C	964.5	71.2	893.3
SB-07LC	5/6/2005	C	964.5	71.75	892.75
SB-07LC	7/26/2005	C	964.5	81.3	883.2
SB-07LC	10/27/2005	C	964.5	73.5	891
SB-07LC	1/27/2006	C	964.5	70.75	893.75
SB-07LC	5/4/2006	C	964.5	74.45	890.05
SB-07LC	7/26/2006	C	964.5	80.45	884.05
SB-07LC	10/31/2006	C	964.5	75.45	889.05
SB-07LC	1/30/2007	C	964.5	73.7	890.8
SB-07LC	5/2/2007	C	964.5	74.85	889.65
SB-07LC	8/1/2007	C	964.5	84.4	880.1
SB-07LC	10/9/2007	C	964.5	82.44	882.06
SB-07LC	1/8/2008	C	964.5	73.92	890.58
SB-07LC	4/14/2008	C	964.5	76.69	887.81
SB-07LC	8/1/2008	C	964.5	84.03	880.47
SB-07LC	11/17/2008	C	964.5	78.59	885.91
SB-07LC	2/16/2009	C	964.5	73.9	890.6
SB-07LC	5/18/2009	C	964.5	76.15	888.35
SB-07LC	8/24/2009	C	966.56	83.43	883.13
SB-07LC	9/21/2009	C	966.56	84.52	882.04
SB-07LC	10/19/2009	C	966.56	82.22	884.34
SB-07LC	11/17/2009	C	966.56	79.26	887.3
SB-07LC	2/1/2010	C	966.56	73.6	892.96
SB-07LC	5/3/2010	C	966.56	75.4	891.16
SB-07LC	8/23/2010	C	966.56	82.08	884.48
SB-07LC	11/29/2010	C	966.56	74.65	891.91
SB-07LC	2/3/2011	C	966.56	73	893.56
SB-07LC	5/2/2011	C	966.56	77.06	889.5
SB-07LC	8/1/2011	C	966.56	84.36	882.2
SB-07LC	11/1/2011	C	966.56	80.9	885.66
SB-07LC	2/1/2012	C	965.994	77.98	888.014
SB-07LC	5/1/2012	C	965.994	78.38	887.614
SB-07LC	8/3/2012	C	965.994	85.32	880.674
SB-07LC	11/1/2012	C	965.994	80.88	885.114
SB-07LC	2/4/2013	C	965.994	75.34	890.654
SB-07LC	5/1/2013	C	965.994	79.62	886.374
SB-07LC	8/5/2013	C	966.56	89.1	877.46
SB-07LC	11/4/2013	C	966.56	82.96	883.6
SB-07UC	10/25/1994	C	964.79	65.47	899.32
SB-07UC	10/27/1994	C	964.79	64.05	900.74
SB-07UC	11/1/1994	C	964.79	63.74	901.05

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
SB-07UC	11/4/1994	C	964.79	63.73	901.06
SB-07UC	11/8/1994	C	964.79	63.63	901.16
SB-07UC	11/11/1994	C	964.79	63.54	901.25
SB-07UC	11/15/1994	C	964.79	63.17	901.62
SB-07UC	11/18/1994	C	964.79	62.94	901.85
SB-07UC	11/21/1994	C	964.79	63.06	901.73
SB-07UC	11/23/1994	C	964.79	63.18	901.61
SB-07UC	11/29/1994	C	964.79	63.08	901.71
SB-07UC	12/2/1994	C	964.79	65.11	899.68
SB-07UC	12/9/1994	C	964.79	63.01	901.78
SB-07UC	12/13/1994	C	964.79	63.74	901.05
SB-07UC	12/20/1994	C	964.79	62.38	902.41
SB-07UC	12/27/1994	C	964.79	61.8	902.99
SB-07UC	1/3/1995	C	964.79	61.72	903.07
SB-07UC	1/10/1995	C	964.79	61.06	903.73
SB-07UC	1/17/1995	C	964.79	60.7	904.09
SB-07UC	1/24/1995	C	964.79	60.51	904.28
SB-07UC	1/31/1995	C	964.79	60.05	904.74
SB-07UC	2/8/1995	C	964.79	60.77	904.02
SB-07UC	2/13/1995	C	964.79	60.58	904.21
SB-07UC	2/22/1995	C	964.79	61.29	903.5
SB-07UC	3/2/1995	C	964.79	60.09	904.7
SB-07UC	3/10/1995	C	964.79	59.95	904.84
SB-07UC	3/15/1995	C	964.79	59.57	905.22
SB-07UC	4/5/1995	C	964.79	64.85	899.94
SB-07UC	4/14/1995	C	964.79	66.75	898.04
SB-07UC	4/18/1995	C	964.79	62.8	901.99
SB-07UC	4/25/1995	C	964.79	62.93	901.86
SB-07UC	5/3/1995	C	964.79	63	901.79
SB-07UC	5/16/1995	C	964.79	61.55	903.24
SB-07UC	5/25/1995	C	964.79	62.23	902.56
SB-07UC	6/2/1995	C	964.79	65.83	898.96
SB-07UC	6/6/1995	C	964.79	65.71	899.08
SB-07UC	6/15/1995	C	964.79	70.69	894.1
SB-07UC	6/22/1995	C	964.79	69.72	895.07
SB-07UC	6/29/1995	C	964.79	72.85	891.94
SB-07UC	7/7/1995	C	964.79	73.12	891.67
SB-07UC	7/21/1995	C	964.79	77.02	887.77
SB-07UC	7/28/1995	C	964.79	79.87	884.92
SB-07UC	8/2/1995	C	964.79	77.93	886.86
SB-07UC	8/10/1995	C	964.79	79.31	885.48
SB-07UC	8/15/1995	C	964.79	76.57	888.22
SB-07UC	8/23/1995	C	964.79	69.98	894.81
SB-07UC	8/31/1995	C	964.79	72.42	892.37
SB-07UC	9/6/1995	C	964.79	68.26	896.53
SB-07UC	9/13/1995	C	964.79	65.83	898.96
SB-07UC	9/22/1995	C	964.79	66.29	898.5
SB-07UC	9/28/1995	C	964.79	64.29	900.5
SB-07UC	10/6/1995	C	964.79	63.7	901.09
SB-07UC	3/30/1996	C	964.79	65.85	898.94
SB-07UC	6/28/1996	C	964.79	76.75	888.04
SB-07UC	9/28/1996	C	964.79	67	897.79
SB-07UC	1/15/1997	C	964.79	63.36	901.43

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
SB-07UC	4/29/1997	C	964.79	72.76	892.03
SB-07UC	7/29/1997	C	964.79	83.39	881.4
SB-07UC	10/23/1997	C	964.79	69.8	894.99
SB-07UC	1/30/1998	C	964.79	67.43	897.44
SB-07UC	8/1/2008	C	964.79	84.49	880.3
SB-07UC	11/17/2008	C	964.79	79.15	885.64
SB-08LC	10/25/1994	C	965.96	65.05	900.91
SB-08LC	10/27/1994	C	965.96	64.85	901.11
SB-08LC	11/1/1994	C	965.96	63.39	902.57
SB-08LC	11/4/1994	C	965.96	63.33	902.63
SB-08LC	11/8/1994	C	965.96	63.41	902.55
SB-08LC	11/11/1994	C	965.96	63.25	902.71
SB-08LC	11/15/1994	C	965.96	62.9	903.06
SB-08LC	11/18/1994	C	965.96	62.63	903.33
SB-08LC	11/21/1994	C	965.96	62.8	903.16
SB-08LC	11/23/1994	C	965.96	62.81	903.15
SB-08LC	11/29/1994	C	965.96	62.75	903.21
SB-08LC	12/2/1994	C	965.96	64.72	901.24
SB-08LC	12/9/1994	C	965.96	62.68	903.28
SB-08LC	12/13/1994	C	965.96	63.1	902.86
SB-08LC	12/20/1994	C	965.96	62.1	903.86
SB-08LC	12/27/1994	C	965.96	61.54	904.42
SB-08LC	1/3/1995	C	965.96	61.45	904.51
SB-08LC	1/10/1995	C	965.96	60.63	905.33
SB-08LC	1/17/1995	C	965.96	60.4	905.56
SB-08LC	1/24/1995	C	965.96	60.2	905.76
SB-08LC	1/31/1995	C	965.96	59.71	906.25
SB-08LC	2/8/1995	C	965.96	60.4	905.56
SB-08LC	2/13/1995	C	965.96	60.25	905.71
SB-08LC	2/22/1995	C	965.96	60.81	905.15
SB-08LC	3/2/1995	C	965.96	59.6	906.36
SB-08LC	3/10/1995	C	965.96	59.6	906.36
SB-08LC	3/15/1995	C	965.96	59.25	906.71
SB-08LC	4/5/1995	C	965.96	64.71	901.25
SB-08LC	4/14/1995	C	965.96	66.65	899.31
SB-08LC	4/18/1995	C	965.96	62.93	903.03
SB-08LC	4/25/1995	C	965.96	62.6	903.36
SB-08LC	5/3/1995	C	965.96	62.72	903.24
SB-08LC	5/16/1995	C	965.96	59.59	906.37
SB-08LC	5/25/1995	C	965.96	62.35	903.61
SB-08LC	6/2/1995	C	965.96	65.86	900.1
SB-08LC	6/6/1995	C	965.96	65.95	900.01
SB-08LC	6/15/1995	C	965.96	70.72	895.24
SB-08LC	6/22/1995	C	965.96	69.68	896.28
SB-08LC	6/30/1995	C	965.96	74.82	891.14
SB-08LC	7/7/1995	C	965.96	73.2	892.76
SB-08LC	7/21/1995	C	965.96	77.04	888.92
SB-08LC	7/28/1995	C	965.96	79.75	886.21
SB-08LC	8/2/1995	C	965.96	77.77	888.19
SB-08LC	8/10/1995	C	965.96	79.22	886.74
SB-08LC	8/15/1995	C	965.96	76.45	889.51
SB-08LC	8/23/1995	C	965.96	69.78	896.18
SB-08LC	8/31/1995	C	965.96	72.45	893.51

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
SB-08LC	9/6/1995	C	965.96	68.38	897.58
SB-08LC	9/13/1995	C	965.96	65.73	900.23
SB-08LC	9/22/1995	C	965.96	66.23	899.73
SB-08LC	9/28/1995	C	965.96	64.14	901.82
SB-08LC	10/6/1995	C	965.96	63.65	902.31
SB-08LC	3/30/1996	C	965.96	66	899.96
SB-08LC	6/28/1996	C	965.96	76.55	889.41
SB-08LC	9/28/1996	C	965.96	67.05	898.91
SB-08LC	1/15/1997	C	965.96	63.48	902.48
SB-08LC	4/29/1997	C	965.96	73.09	892.87
SB-08LC	7/29/1997	C	965.96	83.11	882.85
SB-08LC	10/23/1997	C	965.96	69.73	896.23
SB-08LC	1/30/1998	C	965.96	67.35	898.26
SB-08LC	5/8/1998	C	965.96	68.47	897.49
SB-08LC	7/29/1998	C	965.96	71.35	894.61
SB-08LC	10/29/1998	C	965.96	64.55	901.41
SB-08LC	1/28/1999	C	965.96	63.93	902.03
SB-08LC	4/28/1999	C	965.96	70.57	895.39
SB-08LC	8/5/1999	C	965.96	80.2	885.76
SB-08LC	10/12/1999	C	965.96	69.8	896.16
SB-08LC	2/9/2000	C	965.96	66.7	899.26
SB-08LC	5/2/2000	C	965.96	68.85	897.11
SB-08LC	8/3/2000	C	965.96	80.2	885.76
SB-08LC	10/25/2000	C	965.96	69.45	896.51
SB-08LC	1/31/2001	C	965.96	65.23	900.73
SB-08LC	5/24/2001	C	965.96	67.8	898.16
SB-08LC	8/1/2001	C	965.96	78.4	887.56
SB-08LC	10/30/2001	C	965.96	70.2	895.76
SB-08LC	1/31/2002	C	965.96	67.27	898.69
SB-08LC	5/14/2002	C	965.96	71.65	894.31
SB-08LC	7/31/2002	C	965.96	86.32	879.64
SB-08LC	10/31/2002	C	965.96	73.73	892.23
SB-08LC	1/31/2003	C	965.96	70.45	895.51
SB-08LC	4/30/2003	C	965.96	72.95	893.01
SB-08LC	8/8/2003	C	965.96	80.3	885.66
SB-08LC	10/29/2003	C	965.96	75.65	890.31
SB-08LC	1/29/2004	C	965.96	70.45	895.51
SB-08LC	4/29/2004	C	965.96	74.1	891.86
SB-08LC	7/30/2004	C	965.96	87.4	878.56
SB-08LC	11/2/2004	C	965.96	77.75	888.21
SB-08LC	1/28/2005	C	965.96	72.2	893.76
SB-08LC	5/6/2005	C	965.96	72.75	893.21
SB-08LC	7/26/2005	C	965.96	82.1	883.86
SB-08LC	10/27/2005	C	965.96	74.25	891.71
SB-08LC	1/27/2006	C	965.96	72	893.96
SB-08LC	5/4/2006	C	965.96	75.8	890.16
SB-08LC	7/26/2006	C	965.96	81.6	884.36
SB-08LC	10/31/2006	C	965.96	76.4	889.56
SB-08LC	1/30/2007	C	965.96	74.7	891.26
SB-08LC	5/2/2007	C	965.96	76.4	889.56
SB-08LC	8/1/2007	C	965.96	85.65	880.31
SB-08LC	10/9/2007	C	965.96	83.32	882.64
SB-08LC	1/8/2008	C	965.96	74.61	891.35

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
SB-08LC	4/14/2008	C	965.96	79.97	885.99
SB-08LC	8/1/2008	C	965.96	85.61	880.35
SB-08LC	11/17/2008	C	965.96	79.58	886.38
SB-08LC	2/19/2009	C	965.96	75.65	890.31
SB-08LC	5/19/2009	C	965.96	77.65	888.31
SB-08LC	8/24/2009	C	968.02	84.91	883.11
SB-08LC	9/21/2009	C	968.02	85.66	882.36
SB-08LC	10/19/2009	C	968.02	83.44	884.58
SB-08LC	11/19/2009	C	968.02	79.81	888.21
SB-08LC	2/3/2010	C	968.02	74.86	893.16
SB-08LC	5/3/2010	C	968.02	76.75	891.27
SB-08LC	8/23/2010	C	968.02	83.6	884.42
SB-08LC	11/29/2010	C	968.02	75.9	892.12
SB-08LC	2/3/2011	C	968.02	74.1	893.92
SB-08LC	5/2/2011	C	968.02	78.58	889.44
SB-08LC	8/1/2011	C	968.02	85.42	882.6
SB-08LC	11/1/2011	C	968.02	81.93	886.09
SB-08LC	12/2/2011	C	967.46	78.56	888.9
SB-08LC	2/1/2012	C	967.46	79.44	888.02
SB-08LC	3/2/2012	C	967.46	76.59	890.87
SB-08LC	4/2/2012	C	967.46	79.42	888.04
SB-08LC	5/1/2012	C	967.46	79.61	887.85
SB-08LC	6/1/2012	C	967.46	80.47	886.99
SB-08LC	7/2/2012	C	967.46	86.02	881.44
SB-08LC	8/1/2012	C	967.46	86.94	880.52
SB-08LC	9/4/2012	C	967.46	87.61	879.85
SB-08LC	10/1/2012	C	967.46	84.56	882.9
SB-08LC	11/1/2012	C	967.46	81.71	885.75
SB-08LC	12/3/2012	C	967.46	80.02	887.44
SB-08LC	2/4/2013	C	967.46	76.41	891.05
SB-08LC	5/1/2013	C	967.46	81.02	886.44
SB-08LC	8/5/2013	C	968.02	90.37	877.65
SB-08LC	11/4/2013	C	968.02	84	884.02
SB-08UC	10/25/1994	C	966.17	65.33	900.84
SB-08UC	10/27/1994	C	966.17	65.23	900.94
SB-08UC	11/1/1994	C	966.17	63.68	902.49
SB-08UC	11/4/1994	C	966.17	63.74	902.43
SB-08UC	11/8/1994	C	966.17	63.7	902.47
SB-08UC	11/11/1994	C	966.17	63.64	902.53
SB-08UC	11/15/1994	C	966.17	63.11	903.06
SB-08UC	11/18/1994	C	966.17	62.86	903.31
SB-08UC	11/21/1994	C	966.17	63.11	903.06
SB-08UC	11/23/1994	C	966.17	63.07	903.1
SB-08UC	11/29/1994	C	966.17	63.06	903.11
SB-08UC	12/2/1994	C	966.17	65.06	901.11
SB-08UC	12/9/1994	C	966.17	63	903.17
SB-08UC	12/13/1994	C	966.17	63.43	902.74
SB-08UC	12/20/1994	C	966.17	62.39	903.78
SB-08UC	12/27/1994	C	966.17	61.77	904.4
SB-08UC	12/27/1994	C	966.17	61.77	904.4
SB-08UC	1/3/1995	C	966.17	61.68	904.49
SB-08UC	1/10/1995	C	966.17	60.92	905.25
SB-08UC	1/17/1995	C	966.17	60.6	905.57

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
SB-08UC	1/24/1995	C	966.17	60.46	905.71
SB-08UC	1/31/1995	C	966.17	60.1	906.07
SB-08UC	2/8/1995	C	966.17	60.74	905.43
SB-08UC	2/13/1995	C	966.17	60.58	905.59
SB-08UC	2/22/1995	C	966.17	61.11	905.06
SB-08UC	3/2/1995	C	966.17	59.9	906.27
SB-08UC	3/10/1995	C	966.17	59.9	906.27
SB-08UC	3/15/1995	C	966.17	59.53	906.64
SB-08UC	4/5/1995	C	966.17	64.37	901.8
SB-08UC	4/14/1995	C	966.17	67.02	899.15
SB-08UC	4/18/1995	C	966.17	63.25	902.92
SB-08UC	4/25/1995	C	966.17	62.91	903.26
SB-08UC	5/3/1995	C	966.17	63.05	903.12
SB-08UC	5/16/1995	C	966.17	59.31	906.86
SB-08UC	5/25/1995	C	966.17	62.65	903.52
SB-08UC	6/2/1995	C	966.17	66.2	899.97
SB-08UC	6/6/1995	C	966.17	66.27	899.9
SB-08UC	6/15/1995	C	966.17	71.06	895.11
SB-08UC	6/22/1995	C	966.17	70.03	896.14
SB-08UC	6/30/1995	C	966.17	75.21	890.96
SB-08UC	7/7/1995	C	966.17	73.48	892.69
SB-08UC	7/21/1995	C	966.17	77.4	888.77
SB-08UC	7/28/1995	C	966.17	80.13	886.04
SB-08UC	8/2/1995	C	966.17	78.12	888.05
SB-08UC	8/10/1995	C	966.17	79.59	886.58
SB-08UC	8/15/1995	C	966.17	76.8	889.37
SB-08UC	8/23/1995	C	966.17	70.1	896.07
SB-08UC	8/31/1995	C	966.17	72.77	893.4
SB-08UC	9/6/1995	C	966.17	68.72	897.45
SB-08UC	9/13/1995	C	966.17	66.03	900.14
SB-08UC	9/22/1995	C	966.17	66.55	899.62
SB-08UC	9/28/1995	C	966.17	64.42	901.75
SB-08UC	10/6/1995	C	966.17	63.96	902.21
SB-08UC	3/30/1996	C	966.17	66.37	899.8
SB-08UC	6/28/1996	C	966.17	76.87	889.3
SB-08UC	9/28/1996	C	966.17	67.35	898.82
SB-08UC	1/15/1997	C	966.17	63.77	902.4
SB-08UC	4/29/1997	C	966.17	73.5	892.67
SB-08UC	7/29/1997	C	966.17	83.49	882.68
SB-08UC	10/23/1997	C	966.17	70.05	896.12
SB-08UC	1/30/1998	C	966.17	67.7	896.27
SB-08UC	11/17/2008	C	966.17	79.91	886.26
SB-08UC	9/21/2009	C	968.23	86.07	882.16
SB-08UC	10/19/2009	C	968.23	83.88	884.35
SB-09LC	10/27/1994	C	966.47	66.45	900.02
SB-09LC	11/1/1994	C	966.47	65.94	900.53
SB-09LC	11/4/1994	C	966.47	66.05	900.42
SB-09LC	11/8/1994	C	966.47	65.98	900.49
SB-09LC	11/11/1994	C	966.47	66.19	900.28
SB-09LC	11/15/1994	C	966.47	65.5	900.97
SB-09LC	11/18/1994	C	966.47	65.32	901.15
SB-09LC	11/21/1994	C	966.47	65.39	901.08
SB-09LC	11/23/1994	C	966.47	68.5	897.97

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
SB-09LC	11/25/1994	C	966.47	67.52	898.95
SB-09LC	11/29/1994	C	966.47	65.41	901.06
SB-09LC	12/2/1994	C	966.47	67.77	898.7
SB-09LC	12/9/1994	C	966.47	65.35	901.12
SB-09LC	12/13/1994	C	966.47	66.34	900.13
SB-09LC	12/20/1994	C	966.47	64.74	901.73
SB-09LC	12/27/1994	C	966.47	64.11	902.36
SB-09LC	1/3/1995	C	966.47	64.1	902.37
SB-09LC	1/9/1995	C	966.47	64.9	901.57
SB-09LC	1/10/1995	C	966.47	63.51	902.96
SB-09LC	1/17/1995	C	966.47	63.06	903.41
SB-09LC	1/24/1995	C	966.47	62.91	903.56
SB-09LC	1/31/1995	C	966.47	62.47	904
SB-09LC	2/8/1995	C	966.47	63.15	903.32
SB-09LC	2/13/1995	C	966.47	62.98	903.49
SB-09LC	2/22/1995	C	966.47	63.87	902.6
SB-09LC	3/2/1995	C	966.47	62.51	903.96
SB-09LC	3/10/1995	C	966.47	62.41	904.06
SB-09LC	3/15/1995	C	966.47	62	904.47
SB-09LC	4/5/1995	C	966.47	67.62	898.85
SB-09LC	4/14/1995	C	966.47	68.73	897.74
SB-09LC	4/18/1995	C	966.47	64.5	901.97
SB-09LC	4/25/1995	C	966.47	65.51	900.96
SB-09LC	5/3/1995	C	966.47	65.59	900.88
SB-09LC	5/16/1995	C	966.47	64.04	902.43
SB-09LC	5/25/1995	C	966.47	64.36	902.11
SB-09LC	6/2/1995	C	966.47	68.42	898.05
SB-09LC	6/6/1995	C	966.47	68.1	898.37
SB-09LC	6/15/1995	C	966.47	73.32	893.15
SB-09LC	6/22/1995	C	966.47	72.32	894.15
SB-09LC	6/30/1995	C	966.47	77.72	888.75
SB-09LC	7/7/1995	C	966.47	75.86	890.61
SB-09LC	7/21/1995	C	966.47	80.23	886.24
SB-09LC	7/28/1995	C	966.47	83.17	883.3
SB-09LC	8/2/1995	C	966.47	81.13	885.34
SB-09LC	8/10/1995	C	966.47	84.47	882
SB-09LC	8/15/1995	C	966.47	79.7	886.77
SB-09LC	8/23/1995	C	966.47	72.74	893.73
SB-09LC	8/31/1995	C	966.47	75.26	891.21
SB-09LC	9/6/1995	C	966.47	70.95	895.52
SB-09LC	9/13/1995	C	966.47	68.42	898.05
SB-09LC	9/22/1995	C	966.47	68.83	897.64
SB-09LC	9/28/1995	C	966.47	66.87	899.6
SB-09LC	10/6/1995	C	966.47	66.3	900.17
SB-09LC	3/30/1996	C	966.47	68.45	898.02
SB-09LC	6/28/1996	C	966.47	79.81	886.66
SB-09LC	9/28/1996	C	966.47	69.53	896.94
SB-09LC	1/15/1997	C	966.47	65.85	900.62
SB-09LC	4/29/1997	C	966.47	75.75	890.72
SB-09LC	7/29/1997	C	966.47	86.47	880
SB-09LC	10/23/1997	C	966.47	72.4	894.07
SB-09LC	1/30/1998	C	966.47	69.9	895.97
SB-09LC	5/8/1998	C	966.47	71.05	895.42

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
SB-09LC	7/29/1998	C	966.47	74.15	892.32
SB-09LC	10/29/1998	C	966.47	67.2	899.27
SB-09LC	1/28/1999	C	966.47	66.38	900.09
SB-09LC	4/28/1999	C	966.47	73.15	893.32
SB-09LC	8/5/1999	C	966.47	83.4	883.07
SB-09LC	10/12/1999	C	966.47	72.45	894.02
SB-09LC	2/9/2000	C	966.47	69.1	897.37
SB-09LC	5/2/2000	C	966.47	71	895.47
SB-09LC	8/3/2000	C	966.47	82.75	883.72
SB-09LC	10/25/2000	C	966.47	71.95	894.52
SB-09LC	1/31/2001	C	966.47	66.9	899.57
SB-09LC	5/25/2001	C	966.47	71.5	894.97
SB-09LC	8/1/2001	C	966.47	81.65	884.82
SB-09LC	10/30/2001	C	966.47	72.9	893.57
SB-09LC	1/31/2002	C	966.47	69.45	897.02
SB-09LC	5/14/2002	C	966.47	73.5	892.97
SB-09LC	7/31/2002	C	966.47	89.65	876.82
SB-09LC	10/31/2002	C	966.47	75.6	890.87
SB-09LC	1/31/2003	C	966.47	72.15	894.32
SB-09LC	4/30/2003	C	966.47	75.4	891.07
SB-09LC	8/8/2003	C	966.47	83	883.47
SB-09LC	10/29/2003	C	966.47	77.8	888.67
SB-09LC	1/29/2004	C	966.47	72.55	893.92
SB-09LC	4/29/2004	C	966.47	72.57	893.9
SB-09LC	7/30/2004	C	966.47	90.1	876.37
SB-09LC	11/2/2004	C	966.47	80.4	886.07
SB-09LC	1/28/2005	C	966.47	74.27	892.2
SB-09LC	5/6/2005	C	966.47	75.1	891.37
SB-09LC	7/26/2005	C	966.47	85.12	881.35
SB-09LC	10/27/2005	C	966.47	76.8	889.67
SB-09LC	1/27/2006	C	966.47	73.9	892.57
SB-09LC	5/4/2006	C	966.47	77.8	888.67
SB-09LC	7/26/2006	C	966.47	83.7	882.77
SB-09LC	10/31/2006	C	966.47	78.72	887.75
SB-09LC	1/30/2007	C	966.47	76.75	889.72
SB-09LC	5/2/2007	C	966.47	77.55	888.92
SB-09LC	8/1/2007	C	966.47	87.5	878.97
SB-09LC	10/9/2007	C	966.47	85.34	881.13
SB-09LC	1/8/2008	C	966.47	76.94	889.53
SB-09LC	4/14/2008	C	966.47	79.9	886.57
SB-09LC	8/1/2008	C	966.47	87.1	879.37
SB-09LC	11/17/2008	C	966.47	82.09	884.38
SB-09LC	2/16/2009	C	966.47	77.04	889.43
SB-09LC	5/18/2009	C	966.47	78.9	887.57
SB-09LC	8/24/2009	C	968.53	88.81	879.72
SB-09LC	9/21/2009	C	968.53	87.43	881.1
SB-09LC	10/19/2009	C	968.53	85.3	883.23
SB-09LC	11/18/2009	C	968.53	81.95	886.58
SB-09LC	2/2/2010	C	968.53	76.5	892.03
SB-09LC	5/3/2010	C	968.53	78.15	890.38
SB-09LC	8/23/2010	C	968.53	84.97	883.56
SB-09LC	11/29/2010	C	968.53	77.37	891.16
SB-09LC	2/3/2011	C	968.53	75.83	892.7

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
SB-09LC	5/2/2011	C	968.53	79.95	888.58
SB-09LC	8/1/2011	C	968.53	87.32	881.21
SB-09LC	11/1/2011	C	968.53	83.85	884.68
SB-09LC	2/1/2012	C	967.975	80.63	887.345
SB-09LC	5/1/2012	C	967.975	81.15	886.825
SB-09LC	8/3/2012	C	967.975	88.28	879.695
SB-09LC	11/1/2012	C	967.975	83.78	884.195
SB-09LC	2/4/2013	C	967.975	78.12	889.855
SB-09LC	5/1/2013	C	967.975	82.36	885.615
SB-09LC	8/5/2013	C	968.53	91.96	876.57
SB-09LC	11/4/2013	C	968.53	85.72	882.81
SB-09UC	10/27/1994	C	966.87	66.85	900.02
SB-09UC	11/1/1994	C	966.87	66.4	900.47
SB-09UC	11/4/1994	C	966.87	66.43	900.44
SB-09UC	11/8/1994	C	966.87	66.47	900.4
SB-09UC	11/11/1994	C	966.87	65.82	901.05
SB-09UC	11/15/1994	C	966.87	65.95	900.92
SB-09UC	11/18/1994	C	966.87	65.62	901.25
SB-09UC	11/21/1994	C	966.87	65.66	901.21
SB-09UC	11/23/1994	C	966.87	65.89	900.98
SB-09UC	11/25/1994	C	966.87	72.09	894.78
SB-09UC	11/29/1994	C	966.87	65.76	901.11
SB-09UC	12/2/1994	C	966.87	67.21	899.66
SB-09UC	12/9/1994	C	966.87	65.72	901.15
SB-09UC	12/13/1994	C	966.87	66.76	900.11
SB-09UC	12/20/1994	C	966.87	65.07	901.8
SB-09UC	12/27/1994	C	966.87	64.5	902.37
SB-09UC	1/3/1995	C	966.87	64.4	902.47
SB-09UC	1/9/1995	C	966.87	65.1	901.77
SB-09UC	1/10/1995	C	966.87	63.84	903.03
SB-09UC	1/17/1995	C	966.87	64.61	902.26
SB-09UC	1/24/1995	C	966.87	63.31	903.56
SB-09UC	1/31/1995	C	966.87	57.93	908.94
SB-09UC	2/8/1995	C	966.87	63.52	903.35
SB-09UC	2/13/1995	C	966.87	63.38	903.49
SB-09UC	2/22/1995	C	966.87	64.31	902.56
SB-09UC	3/2/1995	C	966.87	62.92	903.95
SB-09UC	3/10/1995	C	966.87	62.8	904.07
SB-09UC	3/15/1995	C	966.87	62.41	904.46
SB-09UC	4/5/1995	C	966.87	68.05	898.82
SB-09UC	4/14/1995	C	966.87	69.32	897.55
SB-09UC	4/18/1995	C	966.87	65.03	901.84
SB-09UC	4/25/1995	C	966.87	65.9	900.97
SB-09UC	5/3/1995	C	966.87	66	900.87
SB-09UC	5/16/1995	C	966.87	64.47	902.4
SB-09UC	5/25/1995	C	966.87	64.75	902.12
SB-09UC	6/2/1995	C	966.87	68.85	898.02
SB-09UC	6/6/1995	C	966.87	68.55	898.32
SB-09UC	6/15/1995	C	966.87	73.77	893.1
SB-09UC	6/22/1995	C	966.87	72.79	894.08
SB-09UC	6/30/1995	C	966.87	78.21	888.66
SB-09UC	7/7/1995	C	966.87	76.32	890.55
SB-09UC	7/21/1995	C	966.87	80.75	886.12

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
SB-09UC	7/28/1995	C	966.87	83.71	883.16
SB-09UC	8/2/1995	C	966.87	81.67	885.2
SB-09UC	8/10/1995	C	966.87	84.91	881.96
SB-09UC	8/15/1995	C	966.87	80.2	886.67
SB-09UC	8/23/1995	C	966.87	73.19	893.68
SB-09UC	8/31/1995	C	966.87	75.72	891.15
SB-09UC	9/6/1995	C	966.87	71.36	895.51
SB-09UC	9/13/1995	C	966.87	68.82	898.05
SB-09UC	9/22/1995	C	966.87	69.23	897.64
SB-09UC	9/28/1995	C	966.87	61.27	905.6
SB-09UC	10/6/1995	C	966.87	66.7	900.17
SB-09UC	3/30/1996	C	966.87	68.91	897.96
SB-09UC	6/28/1996	C	966.87	80.3	886.57
SB-09UC	9/28/1996	C	966.87	69.92	896.95
SB-09UC	1/15/1997	C	966.87	66.25	900.62
SB-09UC	4/29/1997	C	966.87	76.21	890.66
SB-09UC	7/29/1997	C	966.87	87.37	879.5
SB-09UC	10/23/1997	C	966.87	73.12	893.75
SB-09UC	1/30/1998	C	966.87	70.5	893.27
SB-09UC	8/1/2008	C	966.87	87.78	879.09
SB-09UC	11/17/2008	C	966.87	82.56	884.31
SB-09UC	9/21/2009	C	968.93	88.02	880.91
SB-09UC	10/19/2009	C	968.93	85.9	883.03
SB-09UC	8/8/2012	C	968.385	89.5	878.885
SB-10LC	10/27/1994	C	969.55	69.72	899.83
SB-10LC	11/1/1994	C	969.55	68.35	901.2
SB-10LC	11/4/1994	C	969.55	69.34	900.21
SB-10LC	11/8/1994	C	969.55	69.21	900.34
SB-10LC	11/11/1994	C	969.55	68.88	900.67
SB-10LC	11/15/1994	C	969.55	68.88	900.67
SB-10LC	11/18/1994	C	969.55	68.77	900.78
SB-10LC	11/21/1994	C	969.55	68.74	900.81
SB-10LC	11/23/1994	C	969.55	68.94	900.61
SB-10LC	11/25/1994	C	969.55	70.86	898.69
SB-10LC	11/29/1994	C	969.55	68.81	900.74
SB-10LC	12/2/1994	C	969.55	71.4	898.15
SB-10LC	12/9/1994	C	969.55	68.73	900.82
SB-10LC	12/13/1994	C	969.55	69.77	899.78
SB-10LC	12/20/1994	C	969.55	68	901.55
SB-10LC	1/3/1995	C	969.55	67.38	902.17
SB-10LC	1/9/1995	C	969.55	68.1	901.45
SB-10LC	1/10/1995	C	969.55	66.88	902.67
SB-10LC	1/17/1995	C	969.55	66.45	903.1
SB-10LC	1/24/1995	C	969.55	66.28	903.27
SB-10LC	1/31/1995	C	969.55	65.84	903.71
SB-10LC	2/8/1995	C	969.55	66.58	902.97
SB-10LC	2/13/1995	C	969.55	66.35	903.2
SB-10LC	2/22/1995	C	969.55	87.48	882.07
SB-10LC	3/2/1995	C	969.55	65.93	903.62
SB-10LC	3/10/1995	C	969.55	65.82	903.73
SB-10LC	3/15/1995	C	969.55	65.42	904.13
SB-10LC	4/5/1995	C	969.55	71.27	898.28
SB-10LC	4/14/1995	C	969.55	72.69	896.86

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
SB-10LC	4/18/1995	C	969.55	68.09	901.46
SB-10LC	4/25/1995	C	969.55	68.95	900.6
SB-10LC	5/3/1995	C	969.55	69.03	900.52
SB-10LC	5/16/1995	C	969.55	67.47	902.08
SB-10LC	5/25/1995	C	969.55	67.56	901.99
SB-10LC	6/2/1995	C	969.55	72.14	897.41
SB-10LC	6/6/1995	C	969.55	71.57	897.98
SB-10LC	6/15/1995	C	969.55	77.06	892.49
SB-10LC	6/22/1995	C	969.55	76.09	893.46
SB-10LC	6/30/1995	C	969.55	81.37	888.18
SB-10LC	7/7/1995	C	969.55	79.55	890
SB-10LC	7/21/1995	C	969.55	84.18	885.37
SB-10LC	7/28/1995	C	969.55	87.3	882.25
SB-10LC	8/2/1995	C	969.55	85.37	884.18
SB-10LC	8/10/1995	C	969.55	88.62	880.93
SB-10LC	8/15/1995	C	969.55	83.62	885.93
SB-10LC	8/23/1995	C	969.55	76.36	893.19
SB-10LC	8/31/1995	C	969.55	79.03	890.52
SB-10LC	9/6/1995	C	969.55	74.37	895.18
SB-10LC	9/13/1995	C	969.55	71.87	897.68
SB-10LC	9/22/1995	C	969.55	72.17	897.38
SB-10LC	9/28/1995	C	969.55	70.25	899.3
SB-10LC	10/6/1995	C	969.55	69.68	899.87
SB-10LC	3/30/1996	C	969.55	71.98	897.57
SB-10LC	6/28/1996	C	969.55	83.87	885.68
SB-10LC	9/28/1996	C	969.55	72.9	896.65
SB-10LC	1/15/1997	C	969.55	69.15	900.4
SB-10LC	4/29/1997	C	969.55	79.5	890.05
SB-10LC	7/29/1997	C	969.55	90.89	878.66
SB-10LC	10/23/1997	C	969.55	76.25	893.3
SB-10LC	1/30/1998	C	969.55	73.6	912.25
SB-10LC	5/8/1998	C	969.55	74.85	894.7
SB-10LC	7/29/1998	C	969.55	78.1	891.45
SB-10LC	10/29/1998	C	969.55	71	898.55
SB-10LC	1/28/1999	C	969.55	70.13	899.42
SB-10LC	4/28/1999	C	969.55	77.1	892.45
SB-10LC	8/5/1999	C	969.55	87.72	881.83
SB-10LC	10/12/1999	C	969.55	76.25	893.3
SB-10LC	2/9/2000	C	969.55	72.75	896.8
SB-10LC	5/2/2000	C	969.55	74.55	895
SB-10LC	8/3/2000	C	969.55	87.15	882.4
SB-10LC	10/25/2000	C	969.55	75.4	894.15
SB-10LC	1/31/2001	C	969.55	70.6	898.95
SB-10LC	5/25/2001	C	969.55	75	894.55
SB-10LC	8/1/2001	C	969.55	85.7	883.85
SB-10LC	10/30/2001	C	969.55	76.45	893.1
SB-10LC	1/31/2002	C	969.55	73.05	896.5
SB-10LC	5/14/2002	C	969.55	76.92	892.63
SB-10LC	7/31/2002	C	969.55	94.3	875.25
SB-10LC	10/31/2002	C	969.55	79	890.55
SB-10LC	1/31/2003	C	969.55	75.6	893.95
SB-10LC	4/30/2003	C	969.55	79.45	890.1
SB-10LC	8/8/2003	C	969.55	87.2	882.35

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
SB-10LC	10/29/2003	C	969.55	81.7	887.85
SB-10LC	1/29/2004	C	969.55	76.4	893.15
SB-10LC	4/29/2004	C	969.55	79.15	890.4
SB-10LC	7/30/2004	C	969.55	94.3	875.25
SB-10LC	11/2/2004	C	969.55	84.4	885.15
SB-10LC	1/28/2005	C	969.55	78.35	891.2
SB-10LC	5/6/2005	C	969.55	79.25	890.3
SB-10LC	7/26/2005	C	969.55	89.77	879.78
SB-10LC	10/27/2005	C	969.55	81	888.55
SB-10LC	1/27/2006	C	969.55	77.55	892
SB-10LC	5/4/2006	C	969.55	81.75	887.8
SB-10LC	7/26/2006	C	969.55	87.9	881.65
SB-10LC	10/31/2006	C	969.55	83	886.55
SB-10LC	1/30/2007	C	969.55	80.8	888.75
SB-10LC	5/2/2007	C	969.55	81.25	888.3
SB-10LC	8/1/2007	C	969.55	91.8	877.75
SB-10LC	10/9/2007	C	969.55	89.61	879.94
SB-10LC	1/8/2008	C	969.55	81.27	888.28
SB-10LC	4/14/2008	C	969.55	84.04	885.51
SB-10LC	8/1/2008	C	969.55	91.54	878.01
SB-10LC	11/17/2008	C	969.55	86.36	883.19
SB-10LC	2/16/2009	C	969.55	81.15	888.4
SB-10LC	5/18/2009	C	969.55	82.74	886.81
SB-10LC	8/24/2009	C	971.61	90.91	880.7
SB-10LC	9/21/2009	C	971.61	91.73	879.88
SB-10LC	10/19/2009	C	971.61	89.61	882
SB-10LC	11/19/2009	C	971.61	85.96	885.65
SB-10LC	2/2/2010	C	971.61	80.32	891.29
SB-10LC	5/3/2010	C	971.61	82.1	889.51
SB-10LC	8/23/2010	C	971.61	89.13	882.48
SB-10LC	11/29/2010	C	971.61	81.27	890.34
SB-10LC	2/3/2011	C	971.61	80.01	891.6
SB-10LC	5/2/2011	C	971.61	83.92	887.69
SB-10LC	8/1/2011	C	971.61	91.43	880.18
SB-10LC	11/1/2011	C	971.61	88.11	883.5
SB-10LC	2/1/2012	C	971.052	84.52	886.532
SB-10LC	5/1/2012	C	971.052	85.09	885.962
SB-10LC	8/3/2012	C	971.052	92.32	878.732
SB-10LC	11/1/2012	C	971.052	87.93	883.122
SB-10LC	2/4/2013	C	971.052	82.12	888.932
SB-10LC	5/1/2013	C	971.052	86.22	884.832
SB-10LC	8/5/2013	C	971.61	96.05	875.56
SB-10LC	11/4/2013	C	971.61	89.7	881.91
SB-11LC	10/27/1994	C	956.85	53.91	902.94
SB-11LC	11/1/1994	C	956.85	53.38	903.47
SB-11LC	11/4/1994	C	956.85	53.21	903.64
SB-11LC	11/8/1994	C	956.85	53.26	903.59
SB-11LC	11/11/1994	C	956.85	53.44	903.41
SB-11LC	11/11/1994	C	956.85	53.61	903.24
SB-11LC	11/15/1994	C	956.85	53	903.85
SB-11LC	11/18/1994	C	956.85	52.58	904.27
SB-11LC	11/21/1994	C	956.85	52.69	904.16
SB-11LC	11/23/1994	C	956.85	52.81	904.04

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
SB-11LC	11/25/1994	C	956.85	54.05	902.8
SB-11LC	11/29/1994	C	956.85	53.02	903.83
SB-11LC	12/2/1994	C	956.85	53.91	902.94
SB-11LC	12/9/1994	C	956.85	52.51	904.34
SB-11LC	12/13/1994	C	956.85	52.78	904.07
SB-11LC	12/20/1994	C	956.85	52.06	904.79
SB-11LC	12/27/1994	C	956.85	51.36	905.49
SB-11LC	1/3/1995	C	956.85	51.41	905.44
SB-11LC	1/10/1995	C	956.85	50.5	906.35
SB-11LC	1/17/1995	C	956.85	50.22	906.63
SB-11LC	1/24/1995	C	956.85	50.1	906.75
SB-11LC	1/31/1995	C	956.85	46.59	910.26
SB-11LC	2/8/1995	C	956.85	50.19	906.66
SB-11LC	2/13/1995	C	956.85	50.05	906.8
SB-11LC	2/22/1995	C	956.85	50.15	906.7
SB-11LC	3/2/1995	C	956.85	49.33	907.52
SB-11LC	3/10/1995	C	956.85	49.12	907.73
SB-11LC	3/15/1995	C	956.85	48.95	907.9
SB-11LC	3/30/1996	C	956.85	55.6	901.25
SB-11LC	6/28/1996	C	956.85	65.6	891.25
SB-11LC	9/28/1996	C	956.85	57	899.85
SB-11LC	1/15/1997	C	956.85	53.55	903.3
SB-11LC	4/29/1997	C	956.85	61.7	895.15
SB-11LC	7/29/1997	C	956.85	71.48	885.37
SB-11LC	10/22/1997	C	956.85	59.82	897.03
SB-11LC	1/30/1998	C	956.85	57.3	899.22
SB-11LC	5/8/1998	C	956.85	58	898.85
SB-11LC	7/29/1998	C	956.85	59.95	896.9
SB-11LC	10/29/1998	C	956.85	54.5	902.35
SB-11LC	1/29/1999	C	956.85	54.45	902.4
SB-11LC	4/28/1999	C	956.85	59.5	897.35
SB-11LC	8/4/1999	C	956.85	66.9	889.95
SB-11LC	10/12/1999	C	956.85	59.07	897.78
SB-11LC	2/9/2000	C	956.85	56.05	900.8
SB-11LC	5/2/2000	C	956.85	58.53	898.32
SB-11LC	8/3/2000	C	956.85	67.85	889
SB-11LC	10/25/2000	C	956.85	59.1	897.75
SB-11LC	1/31/2001	C	956.85	54.72	902.13
SB-11LC	5/24/2001	C	956.85	57.6	899.25
SB-11LC	7/31/2001	C	956.85	66.2	890.65
SB-11LC	10/30/2001	C	956.85	59.6	897.25
SB-11LC	1/31/2002	C	956.85	56.7	900.15
SB-11LC	5/14/2002	C	956.85	61.5	895.35
SB-11LC	7/31/2002	C	956.85	74.2	882.65
SB-11LC	10/31/2002	C	956.85	63.3	893.55
SB-11LC	1/31/2003	C	956.85	60.05	896.8
SB-11LC	4/29/2003	C	956.85	61.85	895
SB-11LC	8/8/2003	C	956.85	68.82	888.03
SB-11LC	10/29/2003	C	956.85	65.2	891.65
SB-11LC	1/29/2004	C	956.85	60.05	896.8
SB-11LC	4/29/2004	C	956.85	63.2	893.65
SB-11LC	7/30/2004	C	956.85	76.2	880.65
SB-11LC	11/2/2004	C	956.85	66.7	890.15

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
SB-11LC	1/28/2005	C	956.85	61.1	895.75
SB-11LC	5/6/2005	C	956.85	60.92	895.93
SB-11LC	7/26/2005	C	956.85	69.45	887.4
SB-11LC	10/27/2005	C	956.85	62.5	894.35
SB-11LC	1/27/2006	C	956.85	60.55	896.3
SB-11LC	5/3/2006	C	956.85	64.2	892.65
SB-11LC	7/26/2006	C	956.85	69.95	886.9
SB-11LC	10/31/2006	C	956.85	64.4	892.45
SB-11LC	1/30/2007	C	956.85	63.6	893.25
SB-11LC	5/2/2007	C	956.85	65.1	891.75
SB-11LC	8/1/2007	C	956.85	73.82	883.03
SB-11LC	10/10/2007	C	956.85	71.89	884.96
SB-11LC	1/10/2008	C	956.85	62.28	894.57
SB-11LC	4/14/2008	C	956.85	62.38	894.47
SB-11LC	8/4/2008	C	956.85	73.65	883.2
SB-11LC	11/17/2008	C	956.85	67.71	889.14
SB-11LC	2/17/2009	C	956.85	63.12	893.73
SB-11LC	5/19/2009	C	956.85	66.35	890.5
SB-11LC	8/25/2009	C	958.91	73.02	885.89
SB-11LC	9/21/2009	C	958.91	74.35	884.56
SB-11LC	11/18/2009	C	958.91	68.35	890.56
SB-11LC	2/2/2010	C	958.91	63.43	895.48
SB-11LC	5/4/2010	C	958.91	66.23	892.68
SB-11LC	8/24/2010	C	958.91	71.2	887.71
SB-11LC	11/29/2010	C	958.91	64.66	894.25
SB-11LC	2/3/2011	C	958.91	62.6	896.31
SB-11LC	5/2/2011	C	958.91	67.07	891.84
SB-11LC	8/1/2011	C	958.91	73.9	885.01
SB-11LC	11/1/2011	C	958.91	70.2	888.71
SB-11LC	2/1/2012	C	958.506	68.88	889.626
SB-11LC	5/1/2012	C	958.506	68.37	890.136
SB-11LC	8/2/2012	C	958.506	75.13	883.376
SB-11LC	11/1/2012	C	958.506	70.12	888.386
SB-11LC	2/4/2013	C	958.506	65.4	893.106
SB-11LC	5/1/2013	C	958.506	70.24	888.266
SB-11LC	8/6/2013	C	958.91	79.19	879.72
SB-11LC	11/4/2013	C	958.91	72.72	886.19
SB-11UC	10/27/1994	C	957.21	54.18	903.03
SB-11UC	11/1/1994	C	957.21	53.85	903.36
SB-11UC	11/4/1994	C	957.21	53.64	903.57
SB-11UC	11/8/1994	C	957.21	53.63	903.58
SB-11UC	11/15/1994	C	957.21	53.2	904.01
SB-11UC	11/18/1994	C	957.21	52.86	904.35
SB-11UC	11/21/1994	C	957.21	53.12	904.09
SB-11UC	11/23/1994	C	957.21	53.2	904.01
SB-11UC	11/25/1994	C	957.21	54.39	902.82
SB-11UC	11/29/1994	C	957.21	52.61	904.6
SB-11UC	12/2/1994	C	957.21	54.35	902.86
SB-11UC	12/9/1994	C	957.21	52.94	904.27
SB-11UC	12/13/1994	C	957.21	53.17	904.04
SB-11UC	12/20/1994	C	957.21	52.41	904.8
SB-11UC	12/27/1994	C	957.21	51.8	905.41
SB-11UC	1/3/1995	C	957.21	51.8	905.41

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
SB-11UC	1/10/1995	C	957.21	50.89	906.32
SB-11UC	1/17/1995	C	957.21	50.61	906.6
SB-11UC	1/24/1995	C	957.21	50.47	906.74
SB-11UC	1/31/1995	C	957.21	49.95	907.26
SB-11UC	2/8/1995	C	957.21	50.58	906.63
SB-11UC	2/13/1995	C	957.21	50.4	906.81
SB-11UC	2/22/1995	C	957.21	50.5	906.71
SB-11UC	3/2/1995	C	957.21	49.8	907.41
SB-11UC	3/10/1995	C	957.21	48.95	908.26
SB-11UC	3/15/1995	C	957.21	49.25	907.96
SB-11UC	3/30/1996	C	957.21	56	901.21
SB-11UC	6/28/1996	C	957.21	65.9	891.31
SB-11UC	9/28/1996	C	957.21	57.45	899.76
SB-11UC	1/15/1997	C	957.21	53.82	903.39
SB-11UC	4/29/1997	C	957.21	62.16	895.05
SB-11UC	7/29/1997	C	957.21	71.89	885.32
SB-11UC	10/22/1997	C	957.21	59.35	897.86
SB-11UC	1/30/1998	C	957.21	57.63	885.21
SB-11UC	11/17/2008	C	957.21	68.15	889.06
SB-12LC	10/27/1994	C	970.72	68.45	902.27
SB-12LC	11/1/1994	C	970.72	67.99	902.73
SB-12LC	11/4/1994	C	970.72	67.93	902.79
SB-12LC	11/8/1994	C	970.72	67.95	902.77
SB-12LC	11/11/1994	C	970.72	67.75	902.97
SB-12LC	11/15/1994	C	970.72	67.47	903.25
SB-12LC	11/18/1994	C	970.72	67.17	903.55
SB-12LC	11/21/1994	C	970.72	67.37	903.35
SB-12LC	11/23/1994	C	970.72	67.48	903.24
SB-12LC	11/25/1994	C	970.72	69.39	901.33
SB-12LC	11/29/1994	C	970.72	67.39	903.33
SB-12LC	12/2/1994	C	970.72	70.11	900.61
SB-12LC	12/9/1994	C	970.72	67.48	903.24
SB-12LC	12/9/1994	C	970.72	67.48	903.24
SB-12LC	12/13/1994	C	970.72	68.25	902.47
SB-12LC	12/20/1994	C	970.72	68.65	902.07
SB-12LC	12/27/1994	C	970.72	66.1	904.62
SB-12LC	1/3/1995	C	970.72	65.96	904.76
SB-12LC	1/10/1995	C	970.72	65.35	905.37
SB-12LC	1/17/1995	C	970.72	64.99	905.73
SB-12LC	1/24/1995	C	970.72	64.83	905.89
SB-12LC	1/31/1995	C	970.72	62.89	907.83
SB-12LC	2/8/1995	C	970.72	65.25	905.47
SB-12LC	2/13/1995	C	970.72	65.06	905.66
SB-12LC	2/22/1995	C	970.72	66.03	904.69
SB-12LC	3/2/1995	C	970.72	64.47	906.25
SB-12LC	3/10/1995	C	970.72	64.4	906.32
SB-12LC	3/15/1995	C	970.72	64.09	906.63
SB-12LC	4/5/1995	C	970.72	70.05	900.67
SB-12LC	4/14/1995	C	970.72	73.05	897.67
SB-12LC	4/18/1995	C	970.72	68.59	902.13
SB-12LC	4/25/1995	C	970.72	67.7	903.02
SB-12LC	5/3/1995	C	970.72	67.85	902.87
SB-12LC	5/16/1995	C	970.72	66.44	904.28

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
SB-12LC	5/25/1995	C	970.72	66.4	904.32
SB-12LC	6/2/1995	C	970.72	70.57	900.15
SB-12LC	6/6/1995	C	970.72	70.52	900.2
SB-12LC	6/15/1995	C	970.72	75.88	894.84
SB-12LC	6/22/1995	C	970.72	74.85	895.87
SB-12LC	6/30/1995	C	970.72	81.02	889.7
SB-12LC	7/7/1995	C	970.72	78.22	892.5
SB-12LC	7/21/1995	C	970.72	83.21	887.51
SB-12LC	7/28/1995	C	970.72	86.21	884.51
SB-12LC	8/2/1995	C	970.72	84.19	886.53
SB-12LC	8/10/1995	C	970.72	85.51	885.21
SB-12LC	8/15/1995	C	970.72	82.65	888.07
SB-12LC	8/23/1995	C	970.72	75.17	895.55
SB-12LC	8/31/1995	C	970.72	77.57	893.15
SB-12LC	9/6/1995	C	970.72	73.38	897.34
SB-12LC	9/13/1995	C	970.72	70.83	899.89
SB-12LC	9/22/1995	C	970.72	71.02	899.7
SB-12LC	9/28/1995	C	970.72	69.03	901.69
SB-12LC	10/6/1995	C	970.72	68.51	902.21
SB-12LC	3/30/1996	C	970.72	70.95	899.77
SB-12LC	6/28/1996	C	970.72	82.27	888.45
SB-12LC	9/28/1996	C	970.72	71.53	899.19
SB-12LC	1/15/1997	C	970.72	67.73	902.99
SB-12LC	4/29/1997	C	970.72	78.08	892.64
SB-12LC	7/29/1997	C	970.72	89.12	881.6
SB-12LC	10/23/1997	C	970.72	74.57	896.15
SB-12LC	1/30/1998	C	970.72	72	897.42
SB-12LC	5/8/1998	C	970.72	73.45	897.27
SB-12LC	7/29/1998	C	966.87	77.05	889.82
SB-12LC	10/29/1998	C	970.72	69.3	901.42
SB-12LC	1/28/1999	C	970.72	68.63	902.09
SB-12LC	4/28/1999	C	970.72	75.7	895.02
SB-12LC	8/5/1999	C	970.72	86.37	884.35
SB-12LC	10/12/1999	C	970.72	74.85	895.87
SB-12LC	2/9/2000	C	970.72	71.5	899.22
SB-12LC	5/2/2000	C	970.72	73.87	896.85
SB-12LC	8/3/2000	C	970.72	87.37	883.35
SB-12LC	10/25/2000	C	970.72	74.3	896.42
SB-12LC	1/31/2001	C	970.72	70.65	900.07
SB-12LC	5/25/2001	C	970.72	74.2	896.52
SB-12LC	8/1/2001	C	970.72	84.65	886.07
SB-12LC	10/30/2001	C	970.72	75.2	895.52
SB-12LC	1/31/2002	C	970.72	72.25	898.47
SB-12LC	5/14/2002	C	970.72	76.6	894.12
SB-12LC	7/31/2002	C	970.72	93.4	877.32
SB-12LC	10/31/2002	C	970.72	76.73	893.99
SB-12LC	1/31/2003	C	970.72	75.4	895.32
SB-12LC	4/30/2003	C	970.72	78.9	891.82
SB-12LC	8/8/2003	C	970.72	86.3	884.42
SB-12LC	10/29/2003	C	970.72	81	889.72
SB-12LC	1/29/2004	C	970.72	75.85	894.87
SB-12LC	4/29/2004	C	970.72	79.45	891.27
SB-12LC	7/30/2004	C	970.72	93	877.72

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
SB-12LC	11/2/2004	C	970.72	82.75	887.97
SB-12LC	1/28/2005	C	970.72	77.3	893.42
SB-12LC	5/6/2005	C	970.72	78	892.72
SB-12LC	7/26/2005	C	970.72	88.27	882.45
SB-12LC	10/27/2005	C	970.72	79.9	890.82
SB-12LC	1/27/2006	C	970.72	77.35	893.37
SB-12LC	5/4/2006	C	970.72	81.25	889.47
SB-12LC	7/26/2006	C	970.72	87.25	883.47
SB-12LC	10/31/2006	C	970.72	82.3	888.42
SB-12LC	1/30/2007	C	970.72	80.4	890.32
SB-12LC	5/2/2007	C	970.72	81.4	889.32
SB-12LC	8/1/2007	C	970.72	91.3	879.42
SB-12LC	10/9/2007	C	970.72	89.86	880.86
SB-12LC	1/8/2008	C	970.72	80.69	890.03
SB-12LC	4/14/2008	C	970.72	83.47	887.25
SB-12LC	8/4/2008	C	970.72	91.65	879.07
SB-12LC	11/17/2008	C	970.72	85.18	885.54
SB-12LC	2/16/2009	C	970.72	80.3	890.42
SB-12LC	5/18/2009	C	970.72	82.3	888.42
SB-12LC	8/24/2009	C	972.78	91.7	881.08
SB-12LC	9/21/2009	C	972.78	91.19	881.59
SB-12LC	10/19/2009	C	972.78	89.47	883.31
SB-12LC	11/18/2009	C	972.78	86.18	886.6
SB-12LC	2/1/2010	C	972.78	80.83	891.95
SB-12LC	5/3/2010	C	972.78	82.88	889.9
SB-12LC	8/23/2010	C	972.78	89.17	883.61
SB-12LC	11/29/2010	C	972.78	81.5	891.28
SB-12LC	2/3/2011	C	972.78	79.68	893.1
SB-12LC	5/2/2011	C	972.78	83.98	888.8
SB-12LC	8/1/2011	C	972.78	91.23	881.55
SB-12LC	11/1/2011	C	972.78	88.34	884.44
SB-12LC	2/1/2012	C	972.254	84.95	887.304
SB-12LC	5/1/2012	C	972.254	85.53	886.724
SB-12LC	8/3/2012	C	972.254	92.52	879.734
SB-12LC	11/1/2012	C	972.254	87.78	884.474
SB-12LC	2/4/2013	C	972.254	82.35	889.904
SB-12LC	5/1/2013	C	972.254	86.7	885.554
SB-12LC	8/5/2013	C	972.78	96.47	876.31
SB-12LC	11/4/2013	C	972.78	90.12	882.66
SB-13LC	10/27/1994	C	969.94	69.01	900.93
SB-13LC	11/1/1994	C	969.94	68.56	901.38
SB-13LC	11/4/1994	C	969.94	68.55	901.39
SB-13LC	11/8/1994	C	969.94	68.54	901.4
SB-13LC	11/11/1994	C	969.94	68.05	901.89
SB-13LC	11/15/1994	C	969.94	68.34	901.6
SB-13LC	11/18/1994	C	969.94	68.18	901.76
SB-13LC	11/21/1994	C	969.94	68.15	901.79
SB-13LC	11/23/1994	C	969.94	68.42	901.52
SB-13LC	11/25/1994	C	969.94	70.21	899.73
SB-13LC	11/29/1994	C	969.94	68.21	901.73
SB-13LC	12/2/1994	C	969.94	70.73	899.21
SB-13LC	12/9/1994	C	969.94	68.08	901.86
SB-13LC	12/9/1994	C	969.94	68.08	901.86

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
SB-13LC	12/13/1994	C	969.94	69.02	900.92
SB-13LC	12/20/1994	C	969.94	67.22	902.72
SB-13LC	12/27/1994	C	969.94	66.83	903.11
SB-13LC	1/3/1995	C	969.94	66.56	903.38
SB-13LC	1/10/1995	C	969.94	66.04	903.9
SB-13LC	1/17/1995	C	969.94	65.61	904.33
SB-13LC	1/24/1995	C	969.94	65.42	904.52
SB-13LC	1/31/1995	C	969.94	65.2	904.74
SB-13LC	2/8/1995	C	969.94	65.83	904.11
SB-13LC	2/13/1995	C	969.94	65.57	904.37
SB-13LC	2/22/1995	C	969.94	66.65	903.29
SB-13LC	3/2/1995	C	969.94	65.15	904.79
SB-13LC	3/10/1995	C	969.94	65.07	904.87
SB-13LC	3/15/1995	C	969.94	64.6	905.34
SB-13LC	4/5/1995	C	969.94	70.5	899.44
SB-13LC	4/14/1995	C	969.94	73.36	896.58
SB-13LC	4/18/1995	C	969.94	69	900.94
SB-13LC	4/25/1995	C	969.94	68.12	901.82
SB-13LC	5/3/1995	C	969.94	68.19	901.75
SB-13LC	5/16/1995	C	969.94	66.75	903.19
SB-13LC	5/25/1995	C	969.94	66.4	903.54
SB-13LC	6/2/1995	C	969.94	70.69	899.25
SB-13LC	6/6/1995	C	969.94	70.1	899.84
SB-13LC	6/15/1995	C	969.94	75.62	894.32
SB-13LC	6/22/1995	C	969.94	74.72	895.22
SB-13LC	6/30/1995	C	969.94	80.4	889.54
SB-13LC	7/7/1995	C	969.94	78.35	891.59
SB-13LC	7/21/1995	C	969.94	82.82	887.12
SB-13LC	7/28/1995	C	969.94	86.16	883.78
SB-13LC	8/2/1995	C	969.94	84.48	885.46
SB-13LC	8/10/1995	C	969.94	85.34	884.6
SB-13LC	8/15/1995	C	969.94	82.48	887.46
SB-13LC	8/23/1995	C	969.94	75.5	894.44
SB-13LC	8/31/1995	C	969.94	78.07	891.87
SB-13LC	9/6/1995	C	969.94	73.4	896.54
SB-13LC	9/13/1995	C	969.94	71.26	898.68
SB-13LC	9/22/1995	C	969.94	71.34	898.6
SB-13LC	9/28/1995	C	969.94	69.55	900.39
SB-13LC	10/6/1995	C	969.94	68.86	901.08
SB-13LC	3/30/1996	C	969.94	71.1	898.84
SB-13LC	6/28/1996	C	969.94	83.01	886.93
SB-13LC	9/28/1996	C	969.94	71.98	897.96
SB-13LC	1/15/1997	C	969.94	68.2	901.74
SB-13LC	4/29/1997	C	969.94	78.25	891.69
SB-13LC	7/29/1997	C	969.94	89.67	880.27
SB-13LC	10/23/1997	C	969.94	75.57	894.37
SB-13LC	1/30/1998	C	969.94	73.3	896.64
SB-13LC	5/8/1998	C	969.94	74.3	895.64
SB-13LC	7/29/1998	C	969.94	77.17	892.77
SB-13LC	10/29/1998	C	969.94	70.57	899.37
SB-13LC	1/28/1999	C	969.94	69.93	900.01
SB-13LC	4/28/1999	C	969.94	76.4	893.54
SB-13LC	8/5/1999	C	969.94	87.1	882.84

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
SB-13LC	10/12/1999	C	969.94	76	893.94
SB-13LC	2/9/2000	C	969.94	72.2	897.74
SB-13LC	5/2/2000	C	969.94	73.6	896.34
SB-13LC	8/3/2000	C	969.94	87.65	882.29
SB-13LC	10/25/2000	C	969.94	74.9	895.04
SB-13LC	1/31/2001	C	969.94	71.4	898.54
SB-13LC	5/25/2001	C	969.94	74.1	895.84
SB-13LC	8/1/2001	C	969.94	84.75	885.19
SB-13LC	10/30/2001	C	969.94	75.87	894.07
SB-13LC	1/31/2002	C	969.94	72.7	897.24
SB-13LC	5/14/2002	C	969.94	76.45	893.49
SB-13LC	7/31/2002	C	969.94	93.76	876.18
SB-13LC	10/31/2002	C	969.94	78.95	890.99
SB-13LC	1/31/2003	C	969.94	75.35	894.59
SB-13LC	4/30/2003	C	969.94	79.15	890.79
SB-13LC	8/8/2003	C	969.94	87.2	882.74
SB-13LC	10/29/2003	C	969.94	81.55	888.39
SB-13LC	1/29/2004	C	969.94	76.4	893.54
SB-13LC	4/29/2004	C	969.94	78.75	891.19
SB-13LC	7/30/2004	C	969.94	93.28	876.66
SB-13LC	11/2/2004	C	969.94	84.15	885.79
SB-13LC	1/28/2005	C	969.94	78.2	891.74
SB-13LC	5/6/2005	C	969.94	79.1	890.84
SB-13LC	7/26/2005	C	969.94	89.5	880.44
SB-13LC	10/27/2005	C	969.94	81.1	888.84
SB-13LC	1/27/2006	C	969.94	76.9	893.04
SB-13LC	5/4/2006	C	969.94	80.9	889.04
SB-13LC	7/27/2006	C	969.94	88	881.94
SB-13LC	10/31/2006	C	969.94	82.75	887.19
SB-13LC	1/30/2007	C	969.94	80.7	889.24
SB-13LC	5/2/2007	C	969.94	81.3	888.64
SB-13LC	8/1/2007	C	969.94	91.7	878.24
SB-13LC	10/9/2007	C	969.94	90.19	879.75
SB-13LC	1/8/2008	C	969.94	81.69	888.25
SB-13LC	4/14/2008	C	969.94	83.73	886.21
SB-13LC	8/1/2008	C	969.94	91.48	878.46
SB-13LC	11/17/2008	C	969.94	86.18	883.76
SB-13LC	2/16/2009	C	969.94	80.99	888.95
SB-13LC	5/18/2009	C	969.94	82.65	887.29
SB-13LC	8/24/2009	C	972	91	881
SB-13LC	9/21/2009	C	972	92.21	879.79
SB-13LC	10/19/2009	C	972	90.04	881.96
SB-13LC	11/17/2009	C	972	87.2	884.8
SB-13LC	2/1/2010	C	972	80.65	891.35
SB-13LC	5/3/2010	C	972	82.37	889.63
SB-13LC	8/23/2010	C	972	89.22	882.78
SB-13LC	11/29/2010	C	972	81.77	890.23
SB-13LC	2/3/2011	C	972	78.04	893.96
SB-13LC	5/2/2011	C	972	84.18	887.82
SB-13LC	8/1/2011	C	972	91.93	880.07
SB-13LC	11/1/2011	C	972	88.44	883.56
SB-13LC	2/1/2012	C	971.533	84.72	886.813
SB-13LC	5/1/2012	C	971.533	85.38	886.153

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
SB-13LC	8/3/2012	C	971.533	92.68	878.853
SB-13LC	11/1/2012	C	971.533	88.46	883.073
SB-13LC	2/4/2013	C	971.533	82.5	889.033
SB-13LC	5/1/2013	C	971.533	86.46	885.073
SB-13LC	8/5/2013	C	972	96.17	875.83
SB-13LC	11/4/2013	C	972	90.18	881.82
SB-16H-X	6/6/1995	A	961.22	56.41	904.81
SB-16H-X	6/15/1995	A	961.22	55.81	905.41
SB-16H-X	6/22/1995	A	961.22	55.93	905.29
SB-16H-X	6/30/1995	A	961.22	56.04	905.18
SB-16H-X	7/7/1995	A	961.22	56.22	905
SB-16H-X	7/21/1995	A	961.22	56.72	904.5
SB-16H-X	7/28/1995	A	961.22	56.93	904.29
SB-16H-X	8/2/1995	A	961.22	57.07	904.15
SB-16H-X	8/10/1995	A	961.22	57.42	903.8
SB-16H-X	8/15/1995	A	961.22	57.15	904.07
SB-16H-X	8/23/1995	A	961.22	56.66	904.56
SB-16H-X	8/31/1995	A	961.22	57.57	903.65
SB-16H-X	9/6/1995	A	961.22	57.7	903.52
SB-16H-X	9/13/1995	A	961.22	57.77	903.45
SB-16H-X	9/22/1995	A	961.22	57.72	903.5
SB-16H-X	9/28/1995	A	961.22	57.61	903.61
SB-16H-X	10/6/1995	A	961.22	57.48	903.74
SB-16H-X	1/31/1996	A	961.22	56.37	904.85
SB-16H-X	2/20/1996	A	961.22	56.6	904.62
SB-16H-X	3/30/1996	A	961.22	55.7	905.52
SB-16H-X	4/30/1996	A	961.22	56.7	904.52
SB-16H-X	5/31/1996	A	961.22	56.96	904.26
SB-16H-X	6/28/1996	A	961.22	57.4	903.82
SB-16H-X	7/31/1996	A	961.22	58.21	903.01
SB-16H-X	8/30/1996	A	961.22	58.58	902.64
SB-16H-X	9/28/1996	A	961.22	59.08	902.14
SB-16H-X	10/30/1996	A	961.22	59.15	902.07
SB-16H-X	1/15/1997	A	961.22	55.72	905.5
SB-16H-X	4/29/1997	A	961.22	57.52	903.7
SB-16H-X	7/29/1997	A	961.22	61	900.22
SB-16H-X	1/30/1998	A	961.22	60.45	900.77
SC-04A	1/27/1993	OTHER	991	96.1	894.9
UMW-01	8/31/1992	A	979.9	75.57	904.33
UMW-01	12/31/1992	A	979.9	72.99	906.91
UMW-01	1/31/2002	A	904.89	75.69	980.58
UMW-01	5/13/2002	A	903.21	77.37	980.58
UMW-01	7/31/2002	A	980.58	80.61	899.97
UMW-01	1/28/2005	A	981.89	84.84	897.05
UMW-01	5/3/2005	A	981.89	82.22	899.67
UMW-02	8/31/1992	A	948.18	81.97	866.21
UMW-02	12/31/1993	A	948.18	79.81	868.37
UMW-02	1/28/2005	A	986.11	91.54	894.57
UMW-02	5/3/2005	A	986.11	89.48	896.63
UMW-03	8/31/1992	A	983.66	81.67	901.99
UMW-03	12/31/1993	A	983.66	79.74	903.92
UMW-03	1/31/2002	A	901.18	82.66	983.84
UMW-03	5/13/2002	A	900.04	83.8	983.84

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
UMW-03	7/31/2002	A	983.84	86.33	897.51
UMW-03	1/28/2005	A	985.66	90.5	895.16
UMW-03	5/3/2005	A	985.66	88.44	897.22
UMW-04	8/31/1992	A	984.68	82.9	901.78
UMW-04	12/31/1993	A	984.68	80.85	903.83
UMW-04	1/31/2002	A	900.54	84.51	985.05
UMW-04	5/13/2002	A	899.36	85.69	985.05
UMW-04	7/31/2002	A	985.05	88.45	896.6
UMW-04	1/28/2005	A	986.72	92.26	894.46
UMW-04	5/3/2005	A	986.72	90.19	896.53
UMW-05	8/31/1992	C	983.97	84.64	899.33
UMW-05	12/31/1992	C	983.97	81.16	902.81
UMW-06	8/31/1992	C	983.6	84.43	899.17
UMW-06	12/31/1993	C	983.6	80.92	902.68
UMW-06	1/31/2002	C	899.76	84.61	984.37
UMW-06	5/13/2002	C	893.93	90.44	984.37
UMW-06	7/31/2002	C	984.37	102.36	882.01
UMW-06	1/28/2005	C	985.61	91.76	893.85
UMW-06	5/3/2005	C	985.61	93.68	891.93
UMW-07	8/31/1992	A	984.4	83.3	901.1
UMW-07	12/31/1993	A	984.4	80.75	903.65
UMW-07	1/31/2002	A	900.27	84.27	984.54
UMW-07	5/13/2002	A	899.05	85.49	984.54
UMW-07	7/31/2002	A	984.54	88.28	896.26
UMW-07	1/27/2005	A	986.3	91.56	894.74
UMW-07	5/3/2005	A	986.3	89.43	896.87
UMW-08	8/31/1992	A	985.6	83.46	902.14
UMW-08	12/31/1993	A	985.6	81.9	903.7
UMW-08	1/31/2002	A	901.47	84.06	985.53
UMW-08	5/13/2002	A	900.66	84.87	985.53
UMW-08	7/31/2002	A	985.53	87.23	898.3
UMW-08	1/28/2005	A	987.42	91.2	896.22
UMW-08	5/3/2005	A	987.42	89.27	898.15
UMW-09	8/31/1992	A	983.2	80.25	902.95
UMW-09	12/31/1993	A	983.2	77.6	905.6
UMW-09	1/31/2002	A	901.71	81.75	983.46
UMW-09	5/13/2002	A	900.01	83.45	983.46
UMW-09	7/31/2002	A	983.46	86.77	896.69
UMW-09	1/27/2005	A	985.15	89.86	895.29
UMW-09	5/3/2005	A	985.15	87.62	897.53
UMW-10	8/31/1992	C	979.8	79.41	900.39
UMW-10	12/31/1993	C	979.8	75.75	904.05
UMW-10	1/31/2002	C	899.48	80.51	979.99
UMW-10	5/13/2002	C	893.39	86.6	979.99
UMW-10	7/31/2002	C	979.99	98.05	881.94
UMW-10	1/28/2005	C	982	87.21	894.79
UMW-10	5/3/2005	C	982	89.27	892.73
UMW-11	8/31/1992	A	983.5	79.4	904.1
UMW-11	12/31/1993	A	983.5	81.34	902.16
UMW-11	1/31/2002	A	902.31	82.06	984.37
UMW-11	5/13/2002	A	902.19	82.18	984.37
UMW-11	7/31/2002	A	984.37	83.96	900.41
UMW-11	1/27/2005	A	985.75	87.59	898.16

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
UMW-11	5/3/2005	A	985.75	86.49	899.26
UMW-12	8/31/1992	A	983.6	85.8	897.8
UMW-12	12/31/1993	A	983.6	84.6	899
UMW-12	1/31/2002	A	898.27	85.62	983.89
UMW-12	5/13/2002	A	896.91	86.98	983.89
UMW-12	7/31/2002	A	983.89	89.69	894.2
UMW-12	1/27/2005	A	985.82	91.89	893.93
UMW-12	5/3/2005	A	985.82	90.48	895.34
UMW-13	9/1/1992	A	989.6	92.51	897.09
UMW-13	12/31/1993	A	989.6	94.75	894.85
UMW-13	1/31/2002	A	898.12	91.98	990.1
UMW-13	5/13/2002	A	897.94	92.16	990.1
UMW-13	7/31/2002	A	990.1	93.51	896.59
UMW-13	1/27/2005	A	991.74	96.1	895.64
UMW-13	5/3/2005	A	991.74	95.51	896.23
UMW-14	9/1/1992	C	989.8	95.63	894.17
UMW-14	12/31/1993	C	989.8	91.88	897.92
UMW-14	1/31/2002	C	895.44	94.79	990.23
UMW-14	5/13/2002	C	893.32	96.91	990.23
UMW-14	7/31/2002	C	990.23	110.98	879.25
UMW-14	1/27/2005	C	991.97	98.32	893.65
UMW-14	5/3/2005	C	991.97	101.15	890.82
UMW-15	8/31/1992	A	989.1	98.8	890.3
UMW-15	12/31/1993	A	989.1	97.18	891.92
UMW-15	1/31/2002	A	894.32	94.92	989.24
UMW-15	5/13/2002	A	893.73	95.51	989.24
UMW-15	7/30/2002	A	989.24	96.88	892.36
UMW-15	1/27/2005	A	991.04	98.85	892.19
UMW-15	5/3/2005	A	991.04	98.15	892.89
UMW-16	8/31/1992	A	1005.6	122.3	883.3
UMW-16	12/31/1993	A	1005.6	120.13	885.47
UMW-16	1/31/2002	A	888.94	116.62	1005.56
UMW-16	5/13/2002	A	888.13	117.43	1005.56
UMW-16	7/30/2002	A	1005.56	118.28	887.28
UMW-16	1/27/2005	A	1007.98	119.88	888.1
UMW-16	5/3/2005	A	1007.98	119.03	888.95
UMW-17	9/1/1992	A	991.5	103.92	887.58
UMW-17	12/31/1993	A	991.5	102.19	889.31
UMW-17	1/31/2002	A	894.79	97.07	991.86
UMW-17	5/13/2002	A	895.03	96.83	991.86
UMW-17	7/30/2002	A	991.86	97.02	894.84
UMW-17	1/28/2005	A	991.72	99.43	892.29
UMW-18	12/31/1992	A	990.6	98.25	892.35
UMW-18	1/31/2002	A	894.68	96.6	991.28
UMW-18	5/13/2002	A	893.4	97.88	991.28
UMW-18	7/30/2002	A	991.28	98.53	892.75
UMW-18	1/28/2005	A	992.48	102.66	889.82
UMW-19	8/31/1992	A	994.64	106.5	888.14
UMW-19	12/31/1993	A	994.64	105.43	889.21
UMW-19	1/31/2002	A	892.3	94.99	987.29
UMW-19	5/13/2002	A	891.81	95.48	987.29
UMW-19	7/30/2002	A	987.29	96.35	890.94
UMW-19	1/28/2005	A	989.22	98.66	890.56

TABLE C-2
HISTORICAL WATER LEVEL DATA
PHOENIX-GOODYEAR AIRPORT SOUTH
GOODYEAR, ARIZONA

Well	Measurement Date	Subunit	Measurement Point Elevation (Feet, NAVD 88)	Depth To Water (Feet)	Groundwater Elevation
UMW-19	5/4/2005	A	989.22	97.84	891.38
UMW-20	8/31/1992	C	983.55	85.37	898.18
UMW-20	12/31/1993	C	983.55	82.26	901.29
UMW-20	1/31/2002	C	897.63	86.02	983.65
UMW-20	5/13/2002	C	882.2	101.45	983.65
UMW-20	7/30/2002	C	983.65	102.85	880.8
UMW-20	1/28/2005	C	987.23	104.93	882.3
UMW-20	5/3/2005	C	987.23	108.89	878.34
UMW-21	8/31/1992	C	976.1	76.07	900.03
UMW-21	12/31/1993	C	976.1	71.6	904.5
UMW-21	1/31/2002	C	897.2	79.01	976.21
UMW-21	5/13/2002	C	892.84	83.37	976.21
UMW-21	7/30/2002	C	976.21	93.64	882.57
UMW-21	1/27/2005	C	978.27	82.18	896.09
UMW-21	5/3/2005	C	978.27	0	978.27
UMW-22	12/31/1992	A	983.79	84.27	899.52
UMW-22	1/31/2002	A	897.76	87.2	984.96
UMW-22	5/13/2002	A	896.39	88.57	984.96
UMW-22	7/31/2002	A	984.96	91.15	893.81
UMW-22	1/27/2005	A	986.75	93.26	893.49
UMW-22	5/3/2005	A	986.75	0	986.75
UMW-23	5/13/2002	C	893.49	91.3	984.79
UMW-23	7/31/2002	C	984.79	102.94	881.85
UMW-23	1/28/2005	C	986.75	93.04	893.71
UMW-23	5/3/2005	C	986.75	94.85	891.9
UMW-24	5/13/2002	A	874.12	137.6	1011.72
UMW-24	7/30/2002	A	1011.72	140.68	871.04
UMW-24	1/27/2005	A	1012.77	131.38	881.39
UMW-24	5/3/2005	A	1012.77	130.41	882.36
UMW-25	5/13/2002	A	892.15	108.88	1001.03
UMW-25	7/30/2002	A	1001.03	110.47	890.56
UMW-25	1/27/2005	A	1002.82	113.41	889.41
UMW-26	5/13/2002	C	889.52	108.79	998.31
UMW-26	7/30/2002	C	998.31	110.45	887.86
UMW-26	1/27/2005	C	1000.18	110.64	889.54
UMW-26	5/3/2005	C	1000.18	110.23	889.95
UMW-27	5/13/2002	A	901.29	74.2	975.49
UMW-27	7/31/2002	A	975.49	74.94	900.55
UMW-27	1/27/2005	A	977.18	80.31	896.87
UMW-27	5/3/2005	A	977.18	77.71	899.47
UMW-28	5/13/2002	C	892.72	85.71	978.43
UMW-28	7/30/2002	C	978.43	95.25	883.18
UMW-28	1/27/2005	C	980.5	86.25	894.25
UMW-28	5/3/2005	C	980.5	90.01	890.49
UMW-29	5/13/2002	C	892.61	91.68	984.29
UMW-29	7/31/2002	C	984.29	102.18	882.11
UMW-29	1/27/2005	C	986.31	92.72	893.59
UMW-29	5/3/2005	C	986.31	95.64	890.67

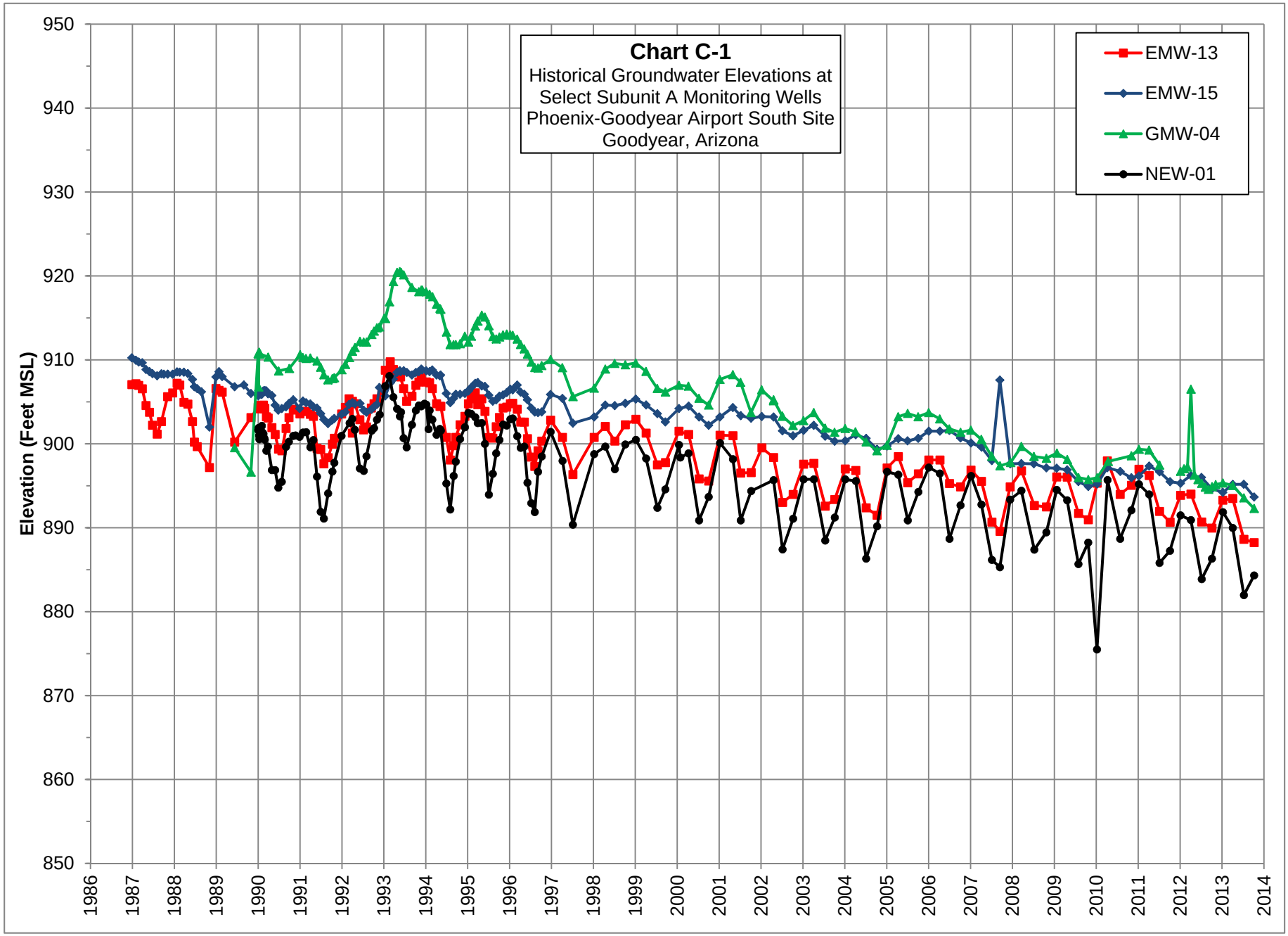


Chart C-1
Historical Groundwater Elevations at
Select Subunit A Monitoring Wells
Phoenix-Goodyear Airport South Site
Goodyear, Arizona
EMW-13
EMW-15
GMW-04
NEW-01
Elevation (Feet MSL)
950
940
930
920
910
900
890
880
870
860
850
1986
1987
1988
1989
1990
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014

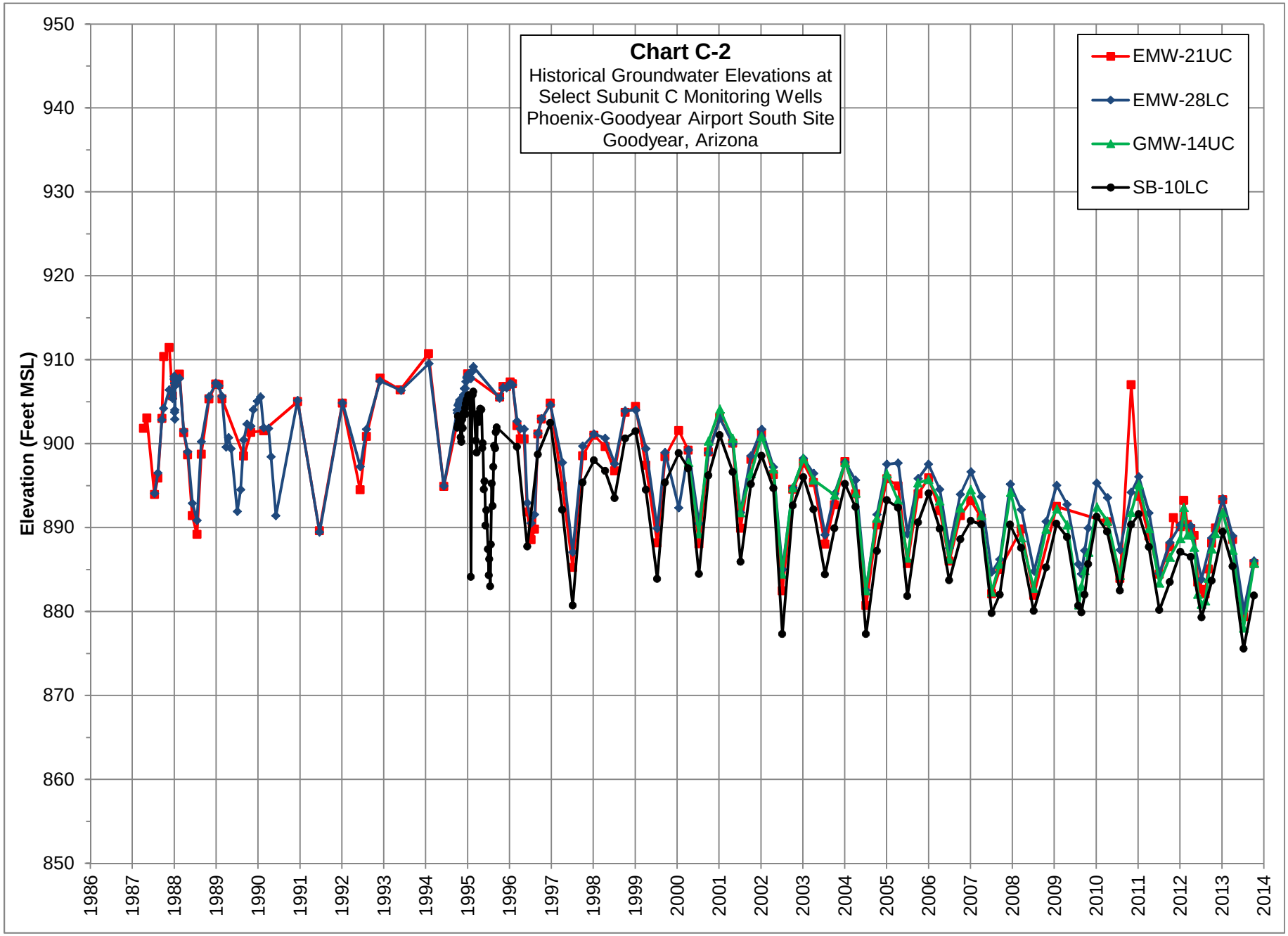


Chart C-2
Historical Groundwater Elevations at
Select Subunit C Monitoring Wells
Phoenix-Goodyear Airport South Site
Goodyear, Arizona
EMW-21UC
EMW-28LC
GMW-14UC
SB-10LC
Elevation (Feet MSL)
950
940
930
920
910
900
890
880
870
860
850
1986
1987
1988
1989
1990
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014

APPENDIX D

Data Validation Report

Draft

Appendix D
Technical Data Review for the Second Semi-Annual 2013 Groundwater Monitoring Event
PGA South Site, Goodyear, Arizona

1.0 INTRODUCTION

Groundwater and treatment system samples were collected in July, August, September, October, November, and December 2013 in accordance with the Comprehensive Groundwater Monitoring Plan (CGWMP). Samples were submitted to Arizona State approved laboratory Curtis and Tompkins, Ltd. (C&T) for volatile and metals (chromium) analyses. A copy of C&T most recent Arizona Department of Health Services (ADHS) Environmental Laboratory License is provided in Attachment A of this Appendix. C&T reported all data in level III equivalent data packages.

Table 1, below, provides a summary of the sample delivery groups (SDGs), sample dates and analyses that are included in the Second Semi-annual reporting activities.

Table 1 Second Semi-annual 2013 Analytical Report Summary

SDG #	Laboratory	Associated Sample Dates	Analysis Methods
246655	C&T	July 1, 2013	VOCs EPA 8260B; total and dissolved Cr EPA 6010B
247736	C&T	August 7, 2013	VOCs EPA 8260B; total and dissolved Cr EPA 6010B
247738	C&T	August 7, 2013	VOCs EPA 8260B; total and dissolved Cr EPA 6010B
247818	C&T	August 8, 2013	VOCs EPA 8260B; total and dissolved Cr EPA 6010B
247902	C&T	August 9-12, 2013	VOCs EPA 8260B; total and dissolved Cr EPA 6010B
248701	C&T	September 4, 2013	VOCs EPA 8260B; total and dissolved Cr EPA 6010B
249598	C&T	October 2, 2013	VOCs EPA 8260B; total and dissolved Cr EPA 6010B
250082	C&T	October 21, 2013	VOCs EPA 8260B; total and dissolved Cr EPA 6010B
250555	C&T	November 5, 2013	VOCs EPA 8260B; total and dissolved Cr EPA 6010B
250558	C&T	November 5, 2013	VOCs EPA 8260B; total and dissolved Cr EPA 6010B
250604	C&T	November 6, 2013	VOCs EPA 8260B; total and dissolved Cr EPA 6010B
251273	C&T	December 2, 2013	VOCs EPA 8260B; total and dissolved Cr EPA 6010B

Copies of all SDGs included in Table 1 have been provided in their entirety in Appendix A of the Second Semi-annual 2013 Groundwater Monitoring Report, PGA South Site. All SDGs were reviewed for the following:

- Completeness of the reports and forms
- Chain of custody (CoC)
- Sample hold time and preservation
- Trip, equipment and field blank contamination
- Method blank contamination
- Sample reporting limits
- Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) results

- Matrix Spike/Matrix Spike Duplicates (MS/MSD) results
- Field duplicate results
- Surrogate recoveries
- Laboratory equipment calibration
- Laboratory control charts
- Field control charts
- Verification of C&T Arizona certification

Sample data generated during the second semi-annual sampling activities was reviewed by the current PGA-South contractor Haley & Aldrich (and their subcontractor Los Alamos Technical Associates, Inc. [LATA]).

For evaluation purposes, analytical data results were qualified in accordance with the *USEPA Contract Laboratory Program National Functional Guidelines for Low Concentration Organic Data Review* and the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (hereafter collectively referred to as the National Functional Guidelines). Specific limits for data review are those stated within the *Phoenix Goodyear Airport South Superfund Site Quality Assurance Project Plan* (QAPP) dated October 2009.

Arizona Department of Environmental Quality (ADEQ) laboratory qualifications were used when qualifying data based on the data review and validation. Qualified sample results for the third and fourth quarter of 2013 are provided in Attachment B of this Appendix. Laboratory control charts for the third and fourth quarter of 2013 are provided in Attachment C. Field blank control charts for the third and fourth quarter of 2013 are provided in Attachment D.

2.0 DATA VALIDATION SUMMARY

2.1 Completeness

The data packages from C&T were complete, no deficiencies were noted.

2.2 Chain of Custody and Condition upon Receipt

The Haley & Aldrich data validation subcontractor (LATA) notes the following discrepancies based on the review of the third and fourth quarter data sets:

- GAC-102 and E-1102 were not listed on the CoC for SDG 247736; however a sample was received by the laboratory. The laboratory has included information in the data package indicating that they contacted and received permission from Haley & Aldrich to log and analyze the samples.
- The laboratory has also indicated that 1 of 3 vials for sample NE-03 was received broken in SDG 247736. Analysis for this sample proceeded with the two remaining vials.
- Sample E-12 was received with 2 of 3 vials broken. The laboratory analyzed the remaining vial.
- Collection times were not noted on the CoC for the samples included with SDG 249598. The laboratory has not indicated if the times recorded on the sample bottles were used.
- The sample IDs included on the CoC for SDG 250082 were updated based on direction from Haley & Aldrich in an email dated 10/22/2013. A copy of this email has been included with the data package.

The reviewer has not placed any additional qualifications on the data based on the items noted on the CoCs and condition upon receipt.

2.3 Sample Preservation and Holding Times

All samples were analyzed within the sample holding time criteria and had proper chemical preservation except as follows:

- SDG 247736: Sample NE-02 had headspace present in 2 of 3 vials upon receipt. The laboratory used the third vial with no headspace to run the analysis. No qualifications were required.
- SDG 247818: The VOA vials for sample EMW-11R were received with an elevated pH. The QAPP for this site would have the results rejected based on the preservation. However, VOC by 8260 allows for a 7 day hold time for unpreserved sample analysis. The sample was analyzed within 7 days (the hold time for an unpreserved sample). It is the reviewer's professional opinion that the data is usable and has placed no further qualifications on the data.

- SDG 248701: Sample GAC-02 Influent is noted by the analyst at the time of analysis as having head space. The results of this sample were qualified as estimated (J or UJ) and an ADEQ qualifier of Q2.
- SDG 250082: The laboratory has noted that additional acid preservation was added to the total chromium sample for GMW-14UC_237 at the time of receipt. No qualifications were applied to the data based on the additional preservative being added.

2.4 Equipment, Field, and Trip Blank Evaluation

Table 1 of Attachment B provides a summary analytes that were detected in the equipment blanks, field blanks, or trip blanks collected during the third and fourth quarter 2013 sampling events. It should be noted that there were no equipment or field blanks collected during the third or fourth quarter 2013 sampling events. Based on the guidance found in the QAPP for this project, qualifications are applied if the results are less than five times the blank concentration. The following samples were further qualified based on the trip blank detections:

- SDG 249598: Chloroform in sample E-07R, GAC-02 Effluent and GAC-02 Influent was qualified with a B4 based on the chloroform detection in the trip blank associated with this SDG.
- SDG 250604: Chloroform in samples E-102, GMW-02, GMW-15UC, GMW-17UC, GMW-19LC, and GMW-26LC was qualified with a B4 based on the chloroform detection in the trip blank associated with this SDG.

2.5 Method Blank and Continuing Calibration Blank Evaluation

Table 2 of Attachment B summarizes detections for method and continuing calibration blanks analyzed for VOCs or chromium in the third and fourth quarter of 2013. Qualifications, if any, were applied based on the validation criteria identified in the QAPP generated for this site. Positive detections noted for the method and continuing calibration blanks analyzed with the third and fourth quarter 2013 samples caused the following qualifications:

- SDG 247818: Bromomethane in samples GMW-13UC (sample and duplicate) and GMW-11UC were qualified with a B1 based on the detection of this analyte in method blank QC701792.
- SDG 247902: Bromomethane in sample GMW-16UC was qualified B1 based on the detection of this analyte in QC701792. Chloroform in samples EMW-15 and SB-06LC was qualified with a B1 based on the detection of this analyte in method blank QC701868.
- SDG 249598: Chloroform in samples E-07R, GAC-02 Effluent, GAC-02 Influent, and the trip blank collected on 10/02/2013 was qualified based on the detection of this analyte in method blank QC710524.
- SDG 250082: Chloroform in samples GMW-14UC_207 and GMW-14UC_217 was qualified based on the detection of this analyte in method blank QC713456.

- SDG 250604: Chromium in sample GMW-15UC was qualified based on the detection of chromium in the continuing calibration blanks associated with this sample.

All remaining sample results associated with a positive method or calibration blank detection were either non-detect, or greater than 5X the blank result, so no further qualifications were required.

2.6 Reporting Limits

Results that were reported with elevated detection limits due to dilutions are included in Table 3 of Attachment B. The laboratory has qualified the results with the appropriate ADEQ qualifier when a dilution is required. No further qualifications were applied to the data by the validator based on reporting limits.

2.7 Laboratory Control Sample (LCS/LCSD) Evaluations

All LCS/LCSD samples reviewed with the 2nd semi-annual 2013 data set met acceptance criteria. No qualifications were required based on the LCS/LCSD sample analyses.

2.8 Matrix Spike (MS/MSD) Evaluation

All MS/MSD samples reviewed with the 2nd semi-annual 2013 data set met acceptance criteria, except as follows:

- SDG 247736: The MS/MSD of sample NE-04 had a low recovery for trichloroethene. The parent sample result was qualified J and an ADEQ qualification of M2 was applied.

All remaining MS/MSD samples collected and analyzed during the third and fourth quarter met acceptable recovery limits.

2.9 Field Duplicate Evaluation

Table 4 of Attachment B summarizes field duplicate RPD results for data generated during the third and fourth quarter 2013. The QAPP states that a RPD value for field duplicates must be within 20%. The RPD limit for estimated results reported between the method detection limit and reporting limit is increased to 30%. Calculated RPDs that exceeded the applicable criterion are noted with an R1 flag.

2.10 Surrogate Evaluation

Table 5 of Attachment B summarizes sample results that were qualified based on a surrogate outlier. All surrogates considered to be outliers exceeded the upper acceptable limit.

Qualification based on surrogate recovery followed the guidance found in the National Functional Guidelines. When a surrogate exceeded acceptable recovery limits, positive results in the sample are qualified and non-detect results are not qualified.

2.11 Calibration Evaluation

Initial and continuing calibration analyses were compared to the criteria given in the QAPP for the PGA-South project. A summary of qualified results associated with initial and continuing calibrations is provided in Table 6 of Attachment B.

2.12 Control Charts

Laboratory control charts for the third and fourth quarter 2013 are provided in Attachment C. Control charts for the second half of 2013 based on field generated equipment blanks, field blanks, and trip blanks are presented in Attachment D. It should be noted that a field blank and an equipment blank were not collected during the third or fourth quarter of 2013.

3.0 Conclusion

Overall, the evaluation of field and laboratory data indicates no issues of a serious nature. A review of the quality control data associated with laboratory analyses results for the third and fourth quarters of 2013 indicates that the reported data are usable with the minor qualifications applied. All data were found to be of appropriate quality to support the data usability. The quality of the analytical data meets data review acceptance criteria in nearly every instance, and technical completeness in terms of usable data is 100%.

Appendix D

Attachment A
Arizona Department of Health Services Environmental Laboratory Certification

Arizona
Department of
Health Services

ENVIRONMENTAL LABORATORY LICENSE

Issued to:

Laboratory Director: **C. Bruce Godfrey, Ph.D**
Owner/Representative: **C. Bruce Godfrey, Ph.D**

Curtis and Tompkins, LTD
AZ0478

is in compliance with Environmental Laboratory's applicable standards for the State of Arizona and maintains on file a List of Parameters for which the laboratory is certified to perform analysis.

PERIOD OF LICENSURE FROM: 07/21/2013 TO: 07/20/2014

GREAT SEAL OF THE STATE OF ARIZONA
DITAT DEUS
1912

Steven D. Baker, Chief
Office of Laboratory Licensure & Certification
Bureau of State Laboratory Services

Arizona Department of Health Services
Office of Laboratory Licensure, Certification & Training
250 North 17th Avenue, Phoenix, AZ 85007

Friday, May 24 2013

AZ License: AZ0478

Lab Director: Dr. C. Bruce Godfrey

Lab Name: Curtis & Tompkins, LTD.
Phone: (510) 486-0900
Fax: (510) 486-0532

Program HW

Parameter	EPA Method	Billing Code	Cert Date
Aluminum	EPA 6010B	MTL3	05/28/98
Aluminum	EPA 6020	MTL1	06/03/02
Antimony	EPA 6010B	MTL3	05/28/98
Antimony	EPA 6020	MTL1	06/03/02
Arsenic	EPA 6010B	MTL3	05/28/98
Arsenic	EPA 6020	MTL1	06/03/02
Barium	EPA 6010B	MTL3	05/28/98
Barium	EPA 6020	MTL1	06/03/02
Beryllium	EPA 6010B	MTL3	05/28/98
Beryllium	EPA 6020	MTL1	06/03/02
C10-C32 Hydrocarbons	8015AZ1	OC4	08/07/98
Cadmium	EPA 6010B	MTL3	05/28/98
Cadmium	EPA 6020	MTL1	06/03/02
Calcium	EPA 6010B	MTL3	05/28/98
Chromium, Hexavalent	EPA 7196A	MTL4	02/06/04
Chromium, Total	EPA 6010B	MTL3	05/28/98
Chromium, Total	EPA 6020	MTL1	06/03/02
Cobalt	EPA 6010B	MTL3	05/28/98
Cobalt	EPA 6020	MTL1	06/03/02
Continuous Liquid-Liquid Extraction	EPA 3520C	PREP2	05/26/99
Copper	EPA 6010B	MTL3	05/28/98
Copper	EPA 6020	MTL1	06/03/02
Cyanide	EPA 9014	MISC2	01/29/08
Flashpoint Determination	EPA 1030	HAZ2	01/29/08
Ignitability (Flash Point)	EPA 1010A	HAZ2	01/29/08
Iron	EPA 6010B	MTL3	05/28/98
Lead	EPA 6010B	MTL3	05/28/98
Lead	EPA 6020	MTL1	06/03/02
Magnesium	EPA 6010B	MTL3	05/28/98
Manganese	EPA 6010B	MTL3	05/28/98
Manganese	EPA 6020	MTL1	06/03/02
Mercury	EPA 7470A	MTL5	01/29/08
Mercury	EPA 7471A	MTL5	05/28/98
Molybdenum	EPA 6010B	MTL3	05/28/98
Nickel	EPA 6010B	MTL3	05/28/98
Nickel	EPA 6020	MTL1	06/03/02
Nitroaromatics And Nitramines By Hplc	EPA 8330	OC4	07/03/06
Nonhalogenated Organics Using Gc/Fid	EPA 8015D	OC4	12/05/06
Organochlorine Pesticides By Gc	EPA 8081A	OC8	02/06/04

Arizona Department of Health Services
Office of Laboratory Licensure, Certification & Training
250 North 17th Avenue, Phoenix, AZ 85007

Friday, May 24 2013

AZ License: AZ0478 **Lab Name: Curtis & Tompkins, LTD.**

HIGH PERFORMANCE LIQUID CHROMATOGRAPH	2	01/25/11
ION CHROMATOGRAPH	1	07/09/04
INDUCTIVELY COUPLED PLASMA SPECTROMETER	1	09/18/97
INDUCTIVELY COUPLED PLASMA/MASS SPECTROMETER	1	06/03/02
MERCURY ANALYZER	1	06/12/00

Softwares
TARGET - GC/MS
PERKIN ELMER - ICP
LEEMAN HYDRA - MECURY ANALYZER
PEAKNET - IC
EZ CHROM - GC
CHEMSTATION-ICP/MS

Arizona Department of Health Services
Office of Laboratory Licensure, Certification & Training
250 North 17th Avenue, Phoenix, AZ 85007

Friday, May 24 2013

AZ License: AZ0478 **Lab Name: Curtis & Tompkins, LTD.**

Program HW

Parameter	EPA Method	Billing Code	Cert Date
Pahs	EPA 8310	OC4	05/28/98
Pcbs By Gc	EPA 8082	OC8	02/06/04
Potassium	EPA 6010B	MTL3	05/28/98
Pressurized Fluid Extraction	EPA 3545	PREP2	07/03/06
Sediments, Sludges And Soils	EPA 3050B	PREP1	06/07/01
Selenium	EPA 6010B	MTL3	05/28/98
Semivolatile Compounds By Gc/Ms	EPA 8270C	OC8	05/28/98
Silica Gel Cleanup	EPA 3630C	PREP2	05/28/98
Silver	EPA 6010B	MTL3	05/28/98
Silver	EPA 6020	MTL1	06/03/02
Sodium	EPA 6010B	MTL3	05/28/98
Tclp	EPA 1311	HAZ5	01/29/08
Thallium	EPA 6010B	MTL3	05/28/98
Thallium	EPA 6020	MTL1	06/03/02
Tin	EPA 6010B	MTL3	05/28/98
Total Metals	EPA 3010A	PREP1	07/07/01
Ultrasonic Extraction	EPA 3550B	PREP2	05/26/99
Vanadium	EPA 6010B	MTL3	05/28/98
Zinc	EPA 6010B	MTL3	05/28/98
Zinc	EPA 6020	MTL1	06/03/02

Total Licensed Parameters in this Program: 59

Program SDW

Parameter	EPA Method	Billing Code	Cert Date
Perchlorate	EPA 314.0	NIB1	05/19/04

Total Licensed Parameters in this Program: 1

Program WW

Parameter	EPA Method	Billing Code	Cert Date
Chloride	EPA 300.0	NIIIA1	01/29/08
Fluoride	EPA 300.0	NIIIA1	01/29/08
Nitrate	EPA 300.0	NIIIA1	01/29/08
Nitrate-Nitrite (As N)	EPA 300.0	NIIIA1	01/29/08
Residue, Filterable	SM 2540C	NIA2	01/29/08
Sulfate	EPA 300.0	NIIIA1	01/29/08

Total Licensed Parameters in this Program: 6

Instruments	Quantity	Date
GAS CHROMATOGRAPH	2	01/21/11
GAS CHROMATOGRAPH/MASS SPECTROMETER	2	01/12/10

Arizona Department of Health Services

ENVIRONMENTAL LABORATORY LICENSE

Issued to:

Laboratory Director: **C. Bruce Godfrey, Ph.D**
Owner/Representative: **C. Bruce Godfrey, Ph.D**

Curtis and Tompkins, LTD
AZ0747

is in compliance with Environmental Laboratory's applicable standards for the State of Arizona and maintains on file a List of Parameters for which the laboratory is certified to perform analysis.

PERIOD OF LICENSURE FROM: 07/21/2013 TO: 07/20/2014

GREAT SEAL OF THE STATE OF ARIZONA
DITAT DEUS
1912

Steven D. Baker, Chief
Office of Laboratory Licensure & Certification
Bureau of State Laboratory Services

Arizona Department of Health Services
Office of Laboratory Licensure, Certification & Training
250 North 17th Avenue, Phoenix, AZ 85007

Friday, May 24 2013

AZ License: AZ0747

Lab Director: Dr. C. Bruce Godfrey

Lab Name: Curtis and Tompkins, LTD
Phone: (510) 486-0900
Fax: (510) 486-0532

Program AIR

Parameter	EPA Method	Billing Code	Cert Date
Volatile Organic Compounds	METHOD TO-15	AIR17	03/19/09

Total Licensed Parameters in this Program: 1

Program HW

Parameter	EPA Method	Billing Code	Cert Date
Aromatic & Halogenated Vocs By Gc	EPA 8021B	OC8	02/28/11
Closed System Purge And Trap Extract. Vocs	EPA 5035A	PREP2	02/28/11
Nonhalogenated Organics Using Gc/Fid	EPA 8015D	OC4	02/28/11
Purge And Trap For Aqueous Samples	EPA 5030C	PREP2	02/28/11
Vocs By Gc/Ms	EPA 8260B	OC8	02/28/11

Total Licensed Parameters in this Program: 5

Instruments	Quantity	Date
GAS CHROMATOGRAPH	2	01/25/11
GAS CHROMATOGRAPH/MASS SPECTROMETER	2	01/12/10

Softwares
TURBOCHROM - GC
MILLENNIUM CHROMATOGRAPHY MANAGER - GC
VARIAN SATURN-GCMS

Appendix D

Attachment B
QA/QC Qualified Sample Results Tables

Attachment B Table 1. Equipment, Field and Trip Blank Detections
July 1, 2013 - December 31, 2013
PGA-South

Sample Type	Laboratory Sample Number	Sample Date	Analysis Method	Detected Analyte	Result	units	ADEQ Qualification
Trip Blank	249598-011	10/2/2013	EPA 8260B	Chloroform	0.1 J	ug/L	B1, E4
Trip Blank	250604-016	11/17/2013	EPA 8260B	Chloroform	0.1 J	ug/L	E4

E4 = Result value is estimated; result is below the method reporting limit.

Attachment B Table 2. Method and Calibration Blank Detections
July 1, 2013 - December 31, 2013
PGA-South

Sample Type	Laboratory Sample Number	Associated Laboratory Batch	Analysis Method	Detected Analyte	Result	units	ADEQ Qualification
Calibration Blank	CCB 11/15/13 13:54	204935	EPA 6010B	Chromium	1.412	UG/L	
Calibration Blank	CCB 11/15/13 16:13	204935	EPA 6010B	Chromium	1.805	UG/L	
Method Blank	QC716691	205201	EPA 6010B	Chromium, Dissolved	2.5 J	UG/L	E4
Method Blank	QC697037	200508	EPA 8260B	Carbon Disulfide	0.1 J	UG/L	E4
Method Blank	QC701332	201576	EPA 8260B	Chloromethane	0.4 J	UG/L	E4
Method Blank	QC701332	201576	EPA 8260B	Bromomethane	0.4 J	UG/L	E4
Method Blank	QC701402	201594	EPA 8260B	Bromomethane	0.1 J	UG/L	E4
Method Blank	QC701537	201624	EPA 8260B	Styrene	0.1 J	UG/L	E4
Method Blank	QC701537	201624	EPA 8260B	Hexachlorobutadiene	0.2 J	UG/L	E4
Method Blank	QC701762	201675	EPA 8260B	Bromomethane	0.3 J	UG/L	E4
Method Blank	QC701792	201683	EPA 8260B	Bromomethane	0.1 J	UG/L	E4
Method Blank	QC701868	201700	EPA 8260B	Chloroform	0.1 J	UG/L	E4
Method Blank	QC701954	201722	EPA 8260B	Chloroform	0.1 J	UG/L	E4
Method Blank	QC702053	201746	EPA 8260B	Chloroform	0.1 J	UG/L	E4
Method Blank	QC706167	202696	EPA 8260B	Hexachlorobutadiene	0.2 J	UG/L	E4
Method Blank	QC710524	203729	EPA 8260B	Chloroform	0.1 J	UG/L	E4
Method Blank	QC713456	204417	EPA 8260B	Chloroform	0.1 J	UG/L	E4
Method Blank	QC716595	205176	EPA 8260B	n-Propylbenzene	0.1 J	UG/L	E4
Method Blank	QC716595	205176	EPA 8260B	4-Chlorotoluene	0.1 J	UG/L	E4
Method Blank	QC716595	205176	EPA 8260B	1,3-Dichlorobenzene	0.1 J	UG/L	E4
Method Blank	QC716595	205176	EPA 8260B	1,4-Dichlorobenzene	0.1 J	UG/L	E4
Method Blank	QC716595	205176	EPA 8260B	Tetrachloroethene	0.1 J	UG/L	E4
Method Blank	QC716595	205176	EPA 8260B	n-Butylbenzene	0.2 J	UG/L	E4
Method Blank	QC716595	205176	EPA 8260B	1,2,3-Trichlorobenzene	0.2 J	UG/L	E4
Method Blank	QC716595	205176	EPA 8260B	1,2,4-Trichlorobenzene	0.2 J	UG/L	E4
Method Blank	QC716595	205176	EPA 8260B	Naphthalene	0.2 J	UG/L	E4
Method Blank	QC718768	205734	EPA 8260B	Tetrachloroethene	0.1 J	UG/L	E4
Method Blank	QC718768	205734	EPA 8260B	Trichloroethene	0.1 J	UG/L	E4
Method Blank	QC718768	205734	EPA 8260B	Dichlorodifluoromethane	0.1 J	UG/L	E4

E4 = Sample result is estimated; result is below the method reporting limit

Attachment B Table 3. Sample Qualifications Based on Dilutions
July 1, 2013 - December 31, 2013
PGA-South

Sample Name	Laboratory Sample Number	Sample Date	Analysis Method	Analyte	Result	units	ADEQ Qualification
E-12	246655-008	7/1/2013	EPA 8260B	Chlorobenzene	<1.0	UG/L	D2
E-12	246655-008	7/1/2013	EPA 8260B	1,2-Dichloroethane	<1.0	UG/L	D2
E-12	246655-008	7/1/2013	EPA 8260B	cis-1,3-Dichloropropene	<1.0	UG/L	D2
E-12	246655-008	7/1/2013	EPA 8260B	1,2-Dichloropropane	<1.0	UG/L	D2
E-12	246655-008	7/1/2013	EPA 8260B	Bromoform	<1.0	UG/L	D2
E-12	246655-008	7/1/2013	EPA 8260B	1,3-Dichlorobenzene	<1.0	UG/L	D2
E-12	246655-008	7/1/2013	EPA 8260B	1,2-Dichlorobenzene	<1.0	UG/L	D2
E-12	246655-008	7/1/2013	EPA 8260B	trans-1,3-Dichloropropene	<1.0	UG/L	D2
E-12	246655-008	7/1/2013	EPA 8260B	Dibromochloromethane	<1.0	UG/L	D2
E-12	246655-008	7/1/2013	EPA 8260B	1,4-Dichlorobenzene	<1.0	UG/L	D2
E-12	246655-008	7/1/2013	EPA 8260B	trans-1,2-Dichloroethene	<1.0	UG/L	D2
E-12	246655-008	7/1/2013	EPA 8260B	1,1-Dichloroethane	<1.0	UG/L	D2
E-12	246655-008	7/1/2013	EPA 8260B	Vinyl chloride	<1.0	UG/L	D2
E-12	246655-008	7/1/2013	EPA 8260B	Bromodichloromethane	<1.0	UG/L	D2
E-12	246655-008	7/1/2013	EPA 8260B	1,1,2-Trichloroethane	<1.0	UG/L	D2
E-12	246655-008	7/1/2013	EPA 8260B	Carbon tetrachloride	<1.0	UG/L	D2
E-12	246655-008	7/1/2013	EPA 8260B	1,1,2,2-Tetrachloroethane	<1.0	UG/L	D2
E-12	246655-008	7/1/2013	EPA 8260B	1,1,1-Trichloroethane	<1.0	UG/L	D2
E-12	246655-008	7/1/2013	EPA 8260B	1,1-Dichloroethene	1.1	UG/L	D2
E-12	246655-008	7/1/2013	EPA 8260B	Chloroform	1.2	UG/L	D2
E-12	246655-008	7/1/2013	EPA 8260B	cis-1,2-Dichloroethene	1.5	UG/L	D2
E-12	246655-008	7/1/2013	EPA 8260B	Chloromethane	<2.0	UG/L	D2
E-12	246655-008	7/1/2013	EPA 8260B	Chloroethane	<2.0	UG/L	D2
E-12	246655-008	7/1/2013	EPA 8260B	Bromomethane	<2.0	UG/L	D2, V9
E-12	246655-008	7/1/2013	EPA 8260B	Trichlorofluoromethane	<2.0	UG/L	D2
E-12	246655-008	7/1/2013	EPA 8260B	Tetrachloroethene	2.5	UG/L	D2
E-12	246655-008	7/1/2013	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	11	UG/L	D2
E-12	246655-008	7/1/2013	EPA 8260B	Methylene Chloride	<40	UG/L	D2
E-12	246655-008	7/1/2013	EPA 8260B	Trichloroethene	110	UG/L	D2

Attachment B Table 3. Sample Qualifications Based on Dilutions
July 1, 2013 - December 31, 2013
PGA-South

Sample Name	Laboratory Sample Number	Sample Date	Analysis Method	Analyte	Result	units	ADEQ Qualification
E-12	247738-008	8/7/2013	EPA 8260B	1,1-Dichloroethene	0.8 J	UG/L	D2, E4
E-12	247738-008	8/7/2013	EPA 8260B	Bromoform	<1.0	UG/L	D2
E-12	247738-008	8/7/2013	EPA 8260B	Vinyl chloride	<1.0	UG/L	D2
E-12	247738-008	8/7/2013	EPA 8260B	trans-1,3-Dichloropropene	<1.0	UG/L	D2
E-12	247738-008	8/7/2013	EPA 8260B	1,1,2-Trichloroethane	<1.0	UG/L	D2
E-12	247738-008	8/7/2013	EPA 8260B	1,1-Dichloroethane	<1.0	UG/L	D2
E-12	247738-008	8/7/2013	EPA 8260B	1,2-Dichlorobenzene	<1.0	UG/L	D2
E-12	247738-008	8/7/2013	EPA 8260B	1,1,2,2-Tetrachloroethane	<1.0	UG/L	D2, V9
E-12	247738-008	8/7/2013	EPA 8260B	1,4-Dichlorobenzene	<1.0	UG/L	D2
E-12	247738-008	8/7/2013	EPA 8260B	Carbon tetrachloride	<1.0	UG/L	D2
E-12	247738-008	8/7/2013	EPA 8260B	cis-1,3-Dichloropropene	<1.0	UG/L	D2
E-12	247738-008	8/7/2013	EPA 8260B	Bromodichloromethane	<1.0	UG/L	D2
E-12	247738-008	8/7/2013	EPA 8260B	1,2-Dichloropropane	<1.0	UG/L	D2
E-12	247738-008	8/7/2013	EPA 8260B	1,1,1-Trichloroethane	<1.0	UG/L	D2
E-12	247738-008	8/7/2013	EPA 8260B	trans-1,2-Dichloroethene	<1.0	UG/L	D2
E-12	247738-008	8/7/2013	EPA 8260B	Chlorobenzene	<1.0	UG/L	D2
E-12	247738-008	8/7/2013	EPA 8260B	Dibromochloromethane	<1.0	UG/L	D2
E-12	247738-008	8/7/2013	EPA 8260B	1,3-Dichlorobenzene	<1.0	UG/L	D2
E-12	247738-008	8/7/2013	EPA 8260B	1,2-Dichloroethane	<1.0	UG/L	D2
E-12	247738-008	8/7/2013	EPA 8260B	Chloroform	1.2 J	UG/L	D2, E4
E-12	247738-008	8/7/2013	EPA 8260B	cis-1,2-Dichloroethene	1.5	UG/L	D2
E-12	247738-008	8/7/2013	EPA 8260B	Trichlorofluoromethane	<2.0	UG/L	D2
E-12	247738-008	8/7/2013	EPA 8260B	Chloroethane	<2.0	UG/L	D2
E-12	247738-008	8/7/2013	EPA 8260B	Chloromethane	<2.0	UG/L	D2
E-12	247738-008	8/7/2013	EPA 8260B	Bromomethane	<2.0	UG/L	D2, V9
E-12	247738-008	8/7/2013	EPA 8260B	Tetrachloroethene	2.2	UG/L	D2
E-12	247738-008	8/7/2013	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	7	UG/L	D2
E-12	247738-008	8/7/2013	EPA 8260B	Methylene Chloride	<40	UG/L	D2, V9
E-12	247738-008	8/7/2013	EPA 8260B	Trichloroethene	100	UG/L	D2

Attachment B Table 3. Sample Qualifications Based on Dilutions
July 1, 2013 - December 31, 2013
PGA-South

Sample Name	Laboratory Sample Number	Sample Date	Analysis Method	Analyte	Result	units	ADEQ Qualification
EMW-08R	247818-008	8/8/2013	EPA 8260B	Trichloroethene	290	UG/L	D2
EMW-10R	247818-009	8/8/2013	EPA 8260B	Chloroform	0.8 J	UG/L	D2, E4
EMW-10R	247818-009	8/8/2013	EPA 8260B	1,2-Dichloroethane	<2.5	UG/L	D2
EMW-10R	247818-009	8/8/2013	EPA 8260B	1,1,2-Trichloroethane	<2.5	UG/L	D2
EMW-10R	247818-009	8/8/2013	EPA 8260B	cis-1,2-Dichloroethene	<2.5	UG/L	D2
EMW-10R	247818-009	8/8/2013	EPA 8260B	1,1,1-Trichloroethane	<2.5	UG/L	D2
EMW-10R	247818-009	8/8/2013	EPA 8260B	1,2-Dichlorobenzene	<2.5	UG/L	D2
EMW-10R	247818-009	8/8/2013	EPA 8260B	Chlorobenzene	<2.5	UG/L	D2
EMW-10R	247818-009	8/8/2013	EPA 8260B	1,1-Dichloroethene	<2.5	UG/L	D2
EMW-10R	247818-009	8/8/2013	EPA 8260B	Vinyl chloride	<2.5	UG/L	D2
EMW-10R	247818-009	8/8/2013	EPA 8260B	Dibromochloromethane	<2.5	UG/L	D2
EMW-10R	247818-009	8/8/2013	EPA 8260B	cis-1,3-Dichloropropene	<2.5	UG/L	D2
EMW-10R	247818-009	8/8/2013	EPA 8260B	Carbon tetrachloride	<2.5	UG/L	D2
EMW-10R	247818-009	8/8/2013	EPA 8260B	1,4-Dichlorobenzene	<2.5	UG/L	D2
EMW-10R	247818-009	8/8/2013	EPA 8260B	1,3-Dichlorobenzene	<2.5	UG/L	D2
EMW-10R	247818-009	8/8/2013	EPA 8260B	1,2-Dichloropropane	<2.5	UG/L	D2
EMW-10R	247818-009	8/8/2013	EPA 8260B	trans-1,3-Dichloropropene	<2.5	UG/L	D2
EMW-10R	247818-009	8/8/2013	EPA 8260B	Bromodichloromethane	<2.5	UG/L	D2
EMW-10R	247818-009	8/8/2013	EPA 8260B	trans-1,2-Dichloroethene	<2.5	UG/L	D2
EMW-10R	247818-009	8/8/2013	EPA 8260B	1,1,2,2-Tetrachloroethane	<2.5	UG/L	D2, V1
EMW-10R	247818-009	8/8/2013	EPA 8260B	1,1-Dichloroethane	<2.5	UG/L	D2
EMW-10R	247818-009	8/8/2013	EPA 8260B	Bromoform	<2.5	UG/L	D2
EMW-10R	247818-009	8/8/2013	EPA 8260B	Tetrachloroethene	3.8	UG/L	D2
EMW-10R	247818-009	8/8/2013	EPA 8260B	Chloroethane	<5.0	UG/L	D2
EMW-10R	247818-009	8/8/2013	EPA 8260B	Bromomethane	<5.0	UG/L	D2, V1
EMW-10R	247818-009	8/8/2013	EPA 8260B	Chloromethane	<5.0	UG/L	D2
EMW-10R	247818-009	8/8/2013	EPA 8260B	Trichlorofluoromethane	<5.0	UG/L	D2
EMW-10R	247818-009	8/8/2013	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	11	UG/L	D2
EMW-10R	247818-009	8/8/2013	EPA 8260B	Methylene Chloride	<100	UG/L	D2, V1

Attachment B Table 3. Sample Qualifications Based on Dilutions
July 1, 2013 - December 31, 2013
PGA-South

Sample Name	Laboratory Sample Number	Sample Date	Analysis Method	Analyte	Result	units	ADEQ Qualification
EMW-10R	247818-009	8/8/2013	EPA 8260B	Trichloroethene	430	UG/L	D2
GMW-11UC	247818-018	8/8/2013	EPA 8260B	Vinyl chloride	0.4 J	UG/L	D1, E4
GMW-11UC	247818-018	8/8/2013	EPA 8260B	Methylene Chloride	0.7 J	UG/L	D1, E4
GMW-11UC	247818-018	8/8/2013	EPA 8260B	1,2-Dichloroethane	<1.0	UG/L	D1
GMW-11UC	247818-018	8/8/2013	EPA 8260B	1,2-Dichlorobenzene	<1.0	UG/L	D1
GMW-11UC	247818-018	8/8/2013	EPA 8260B	1,1,2-Trichloroethane	<1.0	UG/L	D1
GMW-11UC	247818-018	8/8/2013	EPA 8260B	Bromoform	<1.0	UG/L	D1
GMW-11UC	247818-018	8/8/2013	EPA 8260B	Bromodichloromethane	<1.0	UG/L	D1
GMW-11UC	247818-018	8/8/2013	EPA 8260B	1,4-Dichlorobenzene	<1.0	UG/L	D1
GMW-11UC	247818-018	8/8/2013	EPA 8260B	cis-1,2-Dichloroethene	<1.0	UG/L	D1
GMW-11UC	247818-018	8/8/2013	EPA 8260B	cis-1,3-Dichloropropene	<1.0	UG/L	D1
GMW-11UC	247818-018	8/8/2013	EPA 8260B	Carbon tetrachloride	<1.0	UG/L	D1
GMW-11UC	247818-018	8/8/2013	EPA 8260B	1,3-Dichlorobenzene	<1.0	UG/L	D1
GMW-11UC	247818-018	8/8/2013	EPA 8260B	Chlorobenzene	<1.0	UG/L	D1
GMW-11UC	247818-018	8/8/2013	EPA 8260B	Tetrachloroethene	<1.0	UG/L	D1
GMW-11UC	247818-018	8/8/2013	EPA 8260B	1,2-Dichloropropane	<1.0	UG/L	D1
GMW-11UC	247818-018	8/8/2013	EPA 8260B	1,1-Dichloroethane	<1.0	UG/L	D1
GMW-11UC	247818-018	8/8/2013	EPA 8260B	trans-1,2-Dichloroethene	<1.0	UG/L	D1
GMW-11UC	247818-018	8/8/2013	EPA 8260B	trans-1,3-Dichloropropene	<1.0	UG/L	D1
GMW-11UC	247818-018	8/8/2013	EPA 8260B	1,1,2,2-Tetrachloroethane	<1.0	UG/L	D1
GMW-11UC	247818-018	8/8/2013	EPA 8260B	1,1,1-Trichloroethane	<1.0	UG/L	D1
GMW-11UC	247818-018	8/8/2013	EPA 8260B	1,1-Dichloroethene	<1.0	UG/L	D1
GMW-11UC	247818-018	8/8/2013	EPA 8260B	Dibromochloromethane	<1.0	UG/L	D1
GMW-11UC	247818-018	8/8/2013	EPA 8260B	Trichloroethene	1.1	UG/L	D1
GMW-11UC	247818-018	8/8/2013	EPA 8260B	Bromomethane	0.4 J	UG/L	B1, D1, E4
GMW-11UC	247818-018	8/8/2013	EPA 8260B	Trichlorofluoromethane	<2.0	UG/L	D1
GMW-11UC	247818-018	8/8/2013	EPA 8260B	Chloroform	<2.0	UG/L	D1
GMW-11UC	247818-018	8/8/2013	EPA 8260B	Chloromethane	<2.0	UG/L	D1
GMW-11UC	247818-018	8/8/2013	EPA 8260B	Chloroethane	<2.0	UG/L	D1, V1

Attachment B Table 3. Sample Qualifications Based on Dilutions
July 1, 2013 - December 31, 2013
PGA-South

Sample Name	Laboratory Sample Number	Sample Date	Analysis Method	Analyte	Result	units	ADEQ Qualification
GMW-11UC	247818-018	8/8/2013	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	<4.0	UG/L	D1, V1
NEW-03	247818-012	8/8/2013	EPA 8260B	Trichloroethene	79	UG/L	D2
GMW-25LC	247902-001	8/12/2013	EPA 6020	Chromium, Dissolved	18 J	UG/L	D2, N2
GMW-26LC	247902-002	8/12/2013	EPA 6020	Chromium, Dissolved	4.5	UG/L	D1
E-12	248701-008	9/4/2013	EPA 8260B	Carbon tetrachloride	0.2 J	UG/L	D1, E4
E-12	248701-008	9/4/2013	EPA 8260B	1,1-Dichloroethene	0.8 J	UG/L	D1, E4
E-12	248701-008	9/4/2013	EPA 8260B	1,1,2-Trichloroethane	<1.0	UG/L	D1
E-12	248701-008	9/4/2013	EPA 8260B	Bromodichloromethane	<1.0	UG/L	D1
E-12	248701-008	9/4/2013	EPA 8260B	Chlorobenzene	<1.0	UG/L	D1
E-12	248701-008	9/4/2013	EPA 8260B	1,2-Dichlorobenzene	<1.0	UG/L	D1
E-12	248701-008	9/4/2013	EPA 8260B	1,1-Dichloroethane	<1.0	UG/L	D1
E-12	248701-008	9/4/2013	EPA 8260B	Bromoform	<1.0	UG/L	D1
E-12	248701-008	9/4/2013	EPA 8260B	1,1,1-Trichloroethane	<1.0	UG/L	D1
E-12	248701-008	9/4/2013	EPA 8260B	Dibromochloromethane	<1.0	UG/L	D1
E-12	248701-008	9/4/2013	EPA 8260B	trans-1,2-Dichloroethene	<1.0	UG/L	D1
E-12	248701-008	9/4/2013	EPA 8260B	cis-1,3-Dichloropropene	<1.0	UG/L	D1
E-12	248701-008	9/4/2013	EPA 8260B	1,3-Dichlorobenzene	<1.0	UG/L	D1
E-12	248701-008	9/4/2013	EPA 8260B	1,4-Dichlorobenzene	<1.0	UG/L	D1
E-12	248701-008	9/4/2013	EPA 8260B	1,1,2,2-Tetrachloroethane	<1.0	UG/L	D1, V9
E-12	248701-008	9/4/2013	EPA 8260B	Vinyl chloride	<1.0	UG/L	D1
E-12	248701-008	9/4/2013	EPA 8260B	1,2-Dichloropropane	<1.0	UG/L	D1
E-12	248701-008	9/4/2013	EPA 8260B	1,2-Dichloroethane	<1.0	UG/L	D1
E-12	248701-008	9/4/2013	EPA 8260B	trans-1,3-Dichloropropene	<1.0	UG/L	D1
E-12	248701-008	9/4/2013	EPA 8260B	Chloroform	1.1 J	UG/L	D1, E4
E-12	248701-008	9/4/2013	EPA 8260B	cis-1,2-Dichloroethene	1.4	UG/L	D1
E-12	248701-008	9/4/2013	EPA 8260B	Chloromethane	<2.0	UG/L	D1, V9
E-12	248701-008	9/4/2013	EPA 8260B	Trichlorofluoromethane	<2.0	UG/L	D1
E-12	248701-008	9/4/2013	EPA 8260B	Chloroethane	<2.0	UG/L	D1
E-12	248701-008	9/4/2013	EPA 8260B	Bromomethane	<2.0	UG/L	D1, V1, V9

Attachment B Table 3. Sample Qualifications Based on Dilutions
July 1, 2013 - December 31, 2013
PGA-South

Sample Name	Laboratory Sample Number	Sample Date	Analysis Method	Analyte	Result	units	ADEQ Qualification
E-12	248701-008	9/4/2013	EPA 8260B	Tetrachloroethene	2.1	UG/L	D1
E-12	248701-008	9/4/2013	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	7.7 J	UG/L	D1, V1
E-12	248701-008	9/4/2013	EPA 8260B	Methylene Chloride	<40	UG/L	D1
E-12	248701-008	9/4/2013	EPA 8260B	Trichloroethene	90	UG/L	D1
E-12	249598-008	10/2/2013	EPA 8260B	Trichloroethene	77	UG/L	D1
GMW-13UC_195	250082-001	10/21/2013	EPA 8260B	Trichloroethene	81	UG/L	D1
E-12	250558-008	11/5/2013	EPA 8260B	Trichloroethene	85	UG/L	D1

< =analyte not detected above the listed reporting limit
B1 = Target analyte detected in method blank at or above the method reporting limit.
D1 = Sample required dilution due to matrix.
D2 = Sample required dilution due to high concentration of target analyte.
J or E4 = Concentration estimated. Analyte was detected below laboratory minimum reporting limit
N2 = See corrective action report.
V1 = CCV recovery was above method acceptance limits. This target analyte was notdetected in the sample.
V9 = CCV recovery was below method acceptance limits.

Attachment B Table 4. Duplicate Sample Comparison
July 1, 2013 - December 31, 2013
PGA-South

Sample ID	Sample Type	Sample Date	Laboratory Sample Number	Analyte	Result	Units	ADEQ Qualification	Calculated RPD (%)
E-17	Duplicate	7/1/2013	246655-010	1,1,1-Trichloroethane	<0.5	UG/L		
E-17	Sample	7/1/2013	246655-009	1,1,1-Trichloroethane	<0.5	UG/L		0.00
E-17	Duplicate	7/1/2013	246655-010	1,1,2,2-Tetrachloroethane	<0.5	UG/L		
E-17	Sample	7/1/2013	246655-009	1,1,2,2-Tetrachloroethane	<0.5	UG/L		0.00
E-17	Duplicate	7/1/2013	246655-010	1,1,2-Trichloro-1,2,2-trifluoroethane	5.90	UG/L		
E-17	Sample	7/1/2013	246655-009	1,1,2-Trichloro-1,2,2-trifluoroethane	6.50	UG/L		-9.68
E-17	Duplicate	7/1/2013	246655-010	1,1,2-Trichloroethane	<0.5	UG/L		
E-17	Sample	7/1/2013	246655-009	1,1,2-Trichloroethane	<0.5	UG/L		0.00
E-17	Duplicate	7/1/2013	246655-010	1,1-Dichloroethane	<0.5	UG/L		
E-17	Sample	7/1/2013	246655-009	1,1-Dichloroethane	<0.5	UG/L		0.00
E-17	Sample	7/1/2013	246655-009	1,1-Dichloroethene	1.60	UG/L		
E-17	Duplicate	7/1/2013	246655-010	1,1-Dichloroethene	1.70	UG/L		-6.06
E-17	Duplicate	7/1/2013	246655-010	1,2-Dichlorobenzene	<0.5	UG/L		
E-17	Sample	7/1/2013	246655-009	1,2-Dichlorobenzene	<0.5	UG/L		0.00
E-17	Duplicate	7/1/2013	246655-010	1,2-Dichloroethane	<0.5	UG/L		
E-17	Sample	7/1/2013	246655-009	1,2-Dichloroethane	<0.5	UG/L		0.00
E-17	Sample	7/1/2013	246655-009	1,2-Dichloroethane-d4	86.00	%REC		
E-17	Duplicate	7/1/2013	246655-010	1,2-Dichloroethane-d4	103.00	%REC		-17.99
E-17	Duplicate	7/1/2013	246655-010	1,2-Dichloropropane	<0.5	UG/L		
E-17	Sample	7/1/2013	246655-009	1,2-Dichloropropane	<0.5	UG/L		0.00
E-17	Duplicate	7/1/2013	246655-010	1,3-Dichlorobenzene	<0.5	UG/L		
E-17	Sample	7/1/2013	246655-009	1,3-Dichlorobenzene	<0.5	UG/L		0.00
E-17	Duplicate	7/1/2013	246655-010	1,4-Dichlorobenzene	<0.5	UG/L		
E-17	Sample	7/1/2013	246655-009	1,4-Dichlorobenzene	<0.5	UG/L		0.00
E-17	Duplicate	7/1/2013	246655-010	Bromodichloromethane	<0.5	UG/L		
E-17	Sample	7/1/2013	246655-009	Bromodichloromethane	<0.5	UG/L		0.00
E-17	Sample	7/1/2013	246655-009	Bromofluorobenzene	88.00	%REC		
E-17	Duplicate	7/1/2013	246655-010	Bromofluorobenzene	98.00	%REC		-10.75
E-17	Duplicate	7/1/2013	246655-010	Bromoform	<0.5	UG/L		
E-17	Sample	7/1/2013	246655-009	Bromoform	<0.5	UG/L		0.00
E-17	Duplicate	7/1/2013	246655-010	Bromomethane	<1.0	UG/L		
E-17	Sample	7/1/2013	246655-009	Bromomethane	<1.0	UG/L	V9	0.00
E-17	Duplicate	7/1/2013	246655-010	Carbon tetrachloride	0.3 J	UG/L	E4	
E-17	Sample	7/1/2013	246655-009	Carbon tetrachloride	0.4 J	UG/L	E4	-28.57
E-17	Duplicate	7/1/2013	246655-010	Chlorobenzene	<0.5	UG/L		
E-17	Sample	7/1/2013	246655-009	Chlorobenzene	<0.5	UG/L		0.00
E-17	Duplicate	7/1/2013	246655-010	Chloroethane	<1.0	UG/L		
E-17	Sample	7/1/2013	246655-009	Chloroethane	<1.0	UG/L		0.00
E-17	Sample	7/1/2013	246655-009	Chloroform	0.90	UG/L		
E-17	Duplicate	7/1/2013	246655-010	Chloroform	1.10	UG/L		-20.00
E-17	Duplicate	7/1/2013	246655-010	Chloromethane	<1.0	UG/L		
E-17	Sample	7/1/2013	246655-009	Chloromethane	<1.0	UG/L		0.00
E-17	Duplicate	7/1/2013	246655-010	Chromium	140.00	UG/L		
E-17	Sample	7/1/2013	246655-009	Chromium	140.00	UG/L		0.00
E-17	Duplicate	7/1/2013	246655-010	Chromium, Dissolved	130.00	UG/L		
E-17	Sample	7/1/2013	246655-009	Chromium, Dissolved	140.00	UG/L		-7.41
E-17	Duplicate	7/1/2013	246655-010	cis-1,2-Dichloroethene	<0.5	UG/L		
E-17	Sample	7/1/2013	246655-009	cis-1,2-Dichloroethene	<0.5	UG/L		0.00
E-17	Duplicate	7/1/2013	246655-010	cis-1,3-Dichloropropene	<0.5	UG/L		
E-17	Sample	7/1/2013	246655-009	cis-1,3-Dichloropropene	<0.5	UG/L		0.00
E-17	Duplicate	7/1/2013	246655-010	Dibromochloromethane	<0.5	UG/L		
E-17	Sample	7/1/2013	246655-009	Dibromochloromethane	<0.5	UG/L		0.00
E-17	Sample	7/1/2013	246655-009	Dibromofluoromethane	93.00	%REC		
E-17	Duplicate	7/1/2013	246655-010	Dibromofluoromethane	112.00	%REC		-18.54
E-17	Duplicate	7/1/2013	246655-010	Methylene Chloride	<20	UG/L		
E-17	Sample	7/1/2013	246655-009	Methylene Chloride	<20	UG/L		0.00
E-17	Duplicate	7/1/2013	246655-010	Tetrachloroethene	3.30	UG/L		
E-17	Sample	7/1/2013	246655-009	Tetrachloroethene	3.60	UG/L		-8.70
E-17	Sample	7/1/2013	246655-009	Toluene-d8	92.00	%REC		
E-17	Duplicate	7/1/2013	246655-010	Toluene-d8	104.00	%REC		-12.24
E-17	Duplicate	7/1/2013	246655-010	trans-1,2-Dichloroethene	<0.5	UG/L		
E-17	Sample	7/1/2013	246655-009	trans-1,2-Dichloroethene	<0.5	UG/L		0.00
E-17	Duplicate	7/1/2013	246655-010	trans-1,3-Dichloropropene	<0.5	UG/L		
E-17	Sample	7/1/2013	246655-009	trans-1,3-Dichloropropene	<0.5	UG/L		0.00
E-17	Sample	7/1/2013	246655-009	Trichloroethene	26.00	UG/L		
E-17	Duplicate	7/1/2013	246655-010	Trichloroethene	28.00	UG/L		-7.41
E-17	Duplicate	7/1/2013	246655-010	Trichlorofluoromethane	<1.0	UG/L		
E-17	Sample	7/1/2013	246655-009	Trichlorofluoromethane	<1.0	UG/L		0.00
E-17	Duplicate	7/1/2013	246655-010	Vinyl chloride	<0.5	UG/L		
E-17	Sample	7/1/2013	246655-009	Vinyl chloride	<0.5	UG/L		0.00

Attachment B Table 4. Duplicate Sample Comparison
July 1, 2013 - December 31, 2013
PGA-South

Sample ID	Sample Type	Sample Date	Laboratory Sample Number	Analyte	Result	Units	ADEQ Qualification	Calculated RPD (%)
E-102	Duplicate	8/7/2013	247736-011	1,1,1-Trichloroethane	<0.5	UG/L		
E-102	Sample	8/7/2013	247736-009	1,1,1-Trichloroethane	<0.5	UG/L		0.00
E-17	Duplicate	8/7/2013	247738-010	1,1,1-Trichloroethane	<0.5	UG/L		
E-17	Sample	8/7/2013	247738-009	1,1,1-Trichloroethane	<0.5	UG/L		0.00
GAC-02	Duplicate	8/7/2013	247736-010	1,1,1-Trichloroethane	<0.5	UG/L		
GAC-02	Sample	8/7/2013	247736-002	1,1,1-Trichloroethane	<0.5	UG/L		0.00
E-102	Duplicate	8/7/2013	247736-011	1,1,2,2-Tetrachloroethane	<0.5	UG/L		
E-102	Sample	8/7/2013	247736-009	1,1,2,2-Tetrachloroethane	<0.5	UG/L	V1	0.00
E-17	Duplicate	8/7/2013	247738-010	1,1,2,2-Tetrachloroethane	<0.5	UG/L		
E-17	Sample	8/7/2013	247738-009	1,1,2,2-Tetrachloroethane	<0.5	UG/L		0.00
GAC-02	Duplicate	8/7/2013	247736-010	1,1,2,2-Tetrachloroethane	<0.5	UG/L	V1	
GAC-02	Sample	8/7/2013	247736-002	1,1,2,2-Tetrachloroethane	<0.5	UG/L	V1	0.00
E-102	Duplicate	8/7/2013	247736-011	1,1,2-Trichloro-1,2,2-trifluoroethane	0.2 J	UG/L	E4, R1	
E-102	Sample	8/7/2013	247736-009	1,1,2-Trichloro-1,2,2-trifluoroethane	<2.0	UG/L	R1	-163.64
E-17	Duplicate	8/7/2013	247738-010	1,1,2-Trichloro-1,2,2-trifluoroethane	5.60	UG/L		
E-17	Sample	8/7/2013	247738-009	1,1,2-Trichloro-1,2,2-trifluoroethane	5.60	UG/L		0.00
GAC-02	Duplicate	8/7/2013	247736-010	1,1,2-Trichloro-1,2,2-trifluoroethane	<2.0	UG/L		
GAC-02	Sample	8/7/2013	247736-002	1,1,2-Trichloro-1,2,2-trifluoroethane	<2.0	UG/L		0.00
E-102	Duplicate	8/7/2013	247736-011	1,1,2-Trichloroethane	<0.5	UG/L		
E-102	Sample	8/7/2013	247736-009	1,1,2-Trichloroethane	<0.5	UG/L		0.00
E-17	Duplicate	8/7/2013	247738-010	1,1,2-Trichloroethane	<0.5	UG/L		
E-17	Sample	8/7/2013	247738-009	1,1,2-Trichloroethane	<0.5	UG/L		0.00
GAC-02	Duplicate	8/7/2013	247736-010	1,1,2-Trichloroethane	<0.5	UG/L		
GAC-02	Sample	8/7/2013	247736-002	1,1,2-Trichloroethane	<0.5	UG/L		0.00
E-102	Duplicate	8/7/2013	247736-011	1,1-Dichloroethane	<0.5	UG/L		
E-102	Sample	8/7/2013	247736-009	1,1-Dichloroethane	<0.5	UG/L	V1	0.00
E-17	Duplicate	8/7/2013	247738-010	1,1-Dichloroethane	<0.5	UG/L	V9	
E-17	Sample	8/7/2013	247738-009	1,1-Dichloroethane	<0.5	UG/L	V9	0.00
GAC-02	Duplicate	8/7/2013	247736-010	1,1-Dichloroethane	<0.5	UG/L	V1	
GAC-02	Sample	8/7/2013	247736-002	1,1-Dichloroethane	<0.5	UG/L	V1	0.00
E-102	Duplicate	8/7/2013	247736-011	1,1-Dichloroethene	<0.5	UG/L		
E-102	Sample	8/7/2013	247736-009	1,1-Dichloroethene	<0.5	UG/L		0.00
E-17	Sample	8/7/2013	247738-009	1,1-Dichloroethene	1.30	UG/L		
E-17	Duplicate	8/7/2013	247738-010	1,1-Dichloroethene	1.40	UG/L		-7.41
GAC-02	Duplicate	8/7/2013	247736-010	1,1-Dichloroethene	<0.5	UG/L		
GAC-02	Sample	8/7/2013	247736-002	1,1-Dichloroethene	<0.5	UG/L		0.00
E-102	Duplicate	8/7/2013	247736-011	1,2-Dichlorobenzene	<0.5	UG/L		
E-102	Sample	8/7/2013	247736-009	1,2-Dichlorobenzene	<0.5	UG/L		0.00
E-17	Duplicate	8/7/2013	247738-010	1,2-Dichlorobenzene	<0.5	UG/L		
E-17	Sample	8/7/2013	247738-009	1,2-Dichlorobenzene	<0.5	UG/L		0.00
GAC-02	Duplicate	8/7/2013	247736-010	1,2-Dichlorobenzene	<0.5	UG/L		
GAC-02	Sample	8/7/2013	247736-002	1,2-Dichlorobenzene	<0.5	UG/L		0.00
E-102	Duplicate	8/7/2013	247736-011	1,2-Dichloroethane	<0.5	UG/L		
E-102	Sample	8/7/2013	247736-009	1,2-Dichloroethane	<0.5	UG/L		0.00
E-17	Duplicate	8/7/2013	247738-010	1,2-Dichloroethane	<0.5	UG/L		
E-17	Sample	8/7/2013	247738-009	1,2-Dichloroethane	<0.5	UG/L		0.00
GAC-02	Duplicate	8/7/2013	247736-010	1,2-Dichloroethane	<0.5	UG/L		
GAC-02	Sample	8/7/2013	247736-002	1,2-Dichloroethane	<0.5	UG/L		0.00
E-102	Sample	8/7/2013	247736-009	1,2-Dichloroethane-d4	103.00	%REC		
E-102	Duplicate	8/7/2013	247736-011	1,2-Dichloroethane-d4	111.00	%REC		-7.48
E-17	Duplicate	8/7/2013	247738-010	1,2-Dichloroethane-d4	107.00	%REC		
E-17	Sample	8/7/2013	247738-009	1,2-Dichloroethane-d4	109.00	%REC		-1.85
GAC-02	Sample	8/7/2013	247736-002	1,2-Dichloroethane-d4	102.00	%REC		
GAC-02	Duplicate	8/7/2013	247736-010	1,2-Dichloroethane-d4	104.00	%REC		-1.94
E-102	Duplicate	8/7/2013	247736-011	1,2-Dichloropropane	<0.5	UG/L		
E-102	Sample	8/7/2013	247736-009	1,2-Dichloropropane	<0.5	UG/L		0.00
E-17	Duplicate	8/7/2013	247738-010	1,2-Dichloropropane	<0.5	UG/L		
E-17	Sample	8/7/2013	247738-009	1,2-Dichloropropane	<0.5	UG/L		0.00
GAC-02	Duplicate	8/7/2013	247736-010	1,2-Dichloropropane	<0.5	UG/L		
GAC-02	Sample	8/7/2013	247736-002	1,2-Dichloropropane	<0.5	UG/L		0.00
E-102	Duplicate	8/7/2013	247736-011	1,3-Dichlorobenzene	<0.5	UG/L		
E-102	Sample	8/7/2013	247736-009	1,3-Dichlorobenzene	<0.5	UG/L		0.00
E-17	Duplicate	8/7/2013	247738-010	1,3-Dichlorobenzene	<0.5	UG/L		
E-17	Sample	8/7/2013	247738-009	1,3-Dichlorobenzene	<0.5	UG/L		0.00
GAC-02	Duplicate	8/7/2013	247736-010	1,3-Dichlorobenzene	<0.5	UG/L		
GAC-02	Sample	8/7/2013	247736-002	1,3-Dichlorobenzene	<0.5	UG/L		0.00
E-102	Duplicate	8/7/2013	247736-011	1,4-Dichlorobenzene	<0.5	UG/L		
E-102	Sample	8/7/2013	247736-009	1,4-Dichlorobenzene	<0.5	UG/L		0.00
E-17	Duplicate	8/7/2013	247738-010	1,4-Dichlorobenzene	<0.5	UG/L		
E-17	Sample	8/7/2013	247738-009	1,4-Dichlorobenzene	<0.5	UG/L		0.00

Attachment B Table 4. Duplicate Sample Comparison
July 1, 2013 - December 31, 2013
PGA-South

Sample ID	Sample Type	Sample Date	Laboratory Sample Number	Analyte	Result	Units	ADEQ Qualification	Calculated RPD (%)
GAC-02	Duplicate	8/7/2013	247736-010	1,4-Dichlorobenzene	<0.5	UG/L		
GAC-02	Sample	8/7/2013	247736-002	1,4-Dichlorobenzene	<0.5	UG/L		0.00
E-102	Duplicate	8/7/2013	247736-011	Bromodichloromethane	<0.5	UG/L		
E-102	Sample	8/7/2013	247736-009	Bromodichloromethane	<0.5	UG/L		0.00
E-17	Duplicate	8/7/2013	247738-010	Bromodichloromethane	<0.5	UG/L		
E-17	Sample	8/7/2013	247738-009	Bromodichloromethane	<0.5	UG/L		0.00
GAC-02	Duplicate	8/7/2013	247736-010	Bromodichloromethane	<0.5	UG/L		
GAC-02	Sample	8/7/2013	247736-002	Bromodichloromethane	<0.5	UG/L		0.00
E-102	Sample	8/7/2013	247736-009	Bromofluorobenzene	92.00	%REC		
E-102	Duplicate	8/7/2013	247736-011	Bromofluorobenzene	103.00	%REC		-11.28
E-17	Sample	8/7/2013	247738-009	Bromofluorobenzene	92.00	%REC		
E-17	Duplicate	8/7/2013	247738-010	Bromofluorobenzene	93.00	%REC		-1.08
GAC-02	Sample	8/7/2013	247736-002	Bromofluorobenzene	90.00	%REC		
GAC-02	Duplicate	8/7/2013	247736-010	Bromofluorobenzene	94.00	%REC		-4.35
E-102	Sample	8/7/2013	247736-009	Bromoform	<0.5	UG/L		
E-102	Duplicate	8/7/2013	247736-011	Bromoform	<0.5	UG/L	V1	0.00
E-17	Duplicate	8/7/2013	247738-010	Bromoform	<0.5	UG/L		
E-17	Sample	8/7/2013	247738-009	Bromoform	<0.5	UG/L		0.00
GAC-02	Duplicate	8/7/2013	247736-010	Bromoform	<0.5	UG/L		
GAC-02	Sample	8/7/2013	247736-002	Bromoform	<0.5	UG/L		0.00
E-102	Duplicate	8/7/2013	247736-011	Bromomethane	<1.0	UG/L	V1	
E-102	Sample	8/7/2013	247736-009	Bromomethane	<1.0	UG/L	V1	0.00
E-17	Duplicate	8/7/2013	247738-010	Bromomethane	<1.0	UG/L	V9	
E-17	Sample	8/7/2013	247738-009	Bromomethane	<1.0	UG/L	V9	0.00
GAC-02	Duplicate	8/7/2013	247736-010	Bromomethane	<1.0	UG/L	V1	
GAC-02	Sample	8/7/2013	247736-002	Bromomethane	<1.0	UG/L	V1	0.00
E-102	Duplicate	8/7/2013	247736-011	Carbon tetrachloride	<0.5	UG/L		
E-102	Sample	8/7/2013	247736-009	Carbon tetrachloride	<0.5	UG/L		0.00
E-17	Duplicate	8/7/2013	247738-010	Carbon tetrachloride	0.4 J	UG/L	E4	
E-17	Sample	8/7/2013	247738-009	Carbon tetrachloride	0.4 J	UG/L	E4	0.00
GAC-02	Duplicate	8/7/2013	247736-010	Carbon tetrachloride	0.1 J	UG/L	E4	
GAC-02	Sample	8/7/2013	247736-002	Carbon tetrachloride	0.1 J	UG/L	E4	0.00
E-102	Duplicate	8/7/2013	247736-011	Chlorobenzene	<0.5	UG/L		
E-102	Sample	8/7/2013	247736-009	Chlorobenzene	<0.5	UG/L		0.00
E-17	Duplicate	8/7/2013	247738-010	Chlorobenzene	<0.5	UG/L		
E-17	Sample	8/7/2013	247738-009	Chlorobenzene	<0.5	UG/L		0.00
GAC-02	Duplicate	8/7/2013	247736-010	Chlorobenzene	<0.5	UG/L		
GAC-02	Sample	8/7/2013	247736-002	Chlorobenzene	<0.5	UG/L		0.00
E-102	Duplicate	8/7/2013	247736-011	Chloroethane	<1.0	UG/L		
E-102	Sample	8/7/2013	247736-009	Chloroethane	<1.0	UG/L		0.00
E-17	Duplicate	8/7/2013	247738-010	Chloroethane	<1.0	UG/L		
E-17	Sample	8/7/2013	247738-009	Chloroethane	<1.0	UG/L		0.00
GAC-02	Duplicate	8/7/2013	247736-010	Chloroethane	<1.0	UG/L		
GAC-02	Sample	8/7/2013	247736-002	Chloroethane	<1.0	UG/L		0.00
E-102	Sample	8/7/2013	247736-009	Chloroform	0.1 J	UG/L	E4, R1	
E-102	Duplicate	8/7/2013	247736-011	Chloroform	0.2 J	UG/L	E4, R1	-66.67
E-17	Sample	8/7/2013	247738-009	Chloroform	0.8 J	UG/L	E4	
E-17	Duplicate	8/7/2013	247738-010	Chloroform	0.9 J	UG/L	E4	-11.76
GAC-02	Duplicate	8/7/2013	247736-010	Chloroform	0.2 J	UG/L	E4	
GAC-02	Sample	8/7/2013	247736-002	Chloroform	0.2 J	UG/L	E4	0.00
E-102	Duplicate	8/7/2013	247736-011	Chloromethane	<1.0	UG/L		
E-102	Sample	8/7/2013	247736-009	Chloromethane	<1.0	UG/L		0.00
E-17	Duplicate	8/7/2013	247738-010	Chloromethane	<1.0	UG/L	V9	
E-17	Sample	8/7/2013	247738-009	Chloromethane	<1.0	UG/L	V9	0.00
GAC-02	Duplicate	8/7/2013	247736-010	Chloromethane	<1.0	UG/L		
GAC-02	Sample	8/7/2013	247736-002	Chloromethane	<1.0	UG/L		0.00
E-17	Duplicate	8/7/2013	247738-010	Chromium	140.00	UG/L		
E-17	Sample	8/7/2013	247738-009	Chromium	140.00	UG/L		0.00
GAC-02	Duplicate	8/7/2013	247736-010	Chromium	17.00	UG/L		
GAC-02	Sample	8/7/2013	247736-002	Chromium	18.00	UG/L		-5.71
E-17	Duplicate	8/7/2013	247738-010	Chromium, Dissolved	130.00	UG/L		
E-17	Sample	8/7/2013	247738-009	Chromium, Dissolved	130.00	UG/L		0.00
GAC-02	Sample	8/7/2013	247736-002	Chromium, Dissolved	13.00	UG/L		
GAC-02	Duplicate	8/7/2013	247736-010	Chromium, Dissolved	15.00	UG/L		-14.29
E-102	Duplicate	8/7/2013	247736-011	cis-1,2-Dichloroethene	<0.5	UG/L		
E-102	Sample	8/7/2013	247736-009	cis-1,2-Dichloroethene	<0.5	UG/L		0.00
E-17	Duplicate	8/7/2013	247738-010	cis-1,2-Dichloroethene	<0.5	UG/L		
E-17	Sample	8/7/2013	247738-009	cis-1,2-Dichloroethene	<0.5	UG/L		0.00
GAC-02	Duplicate	8/7/2013	247736-010	cis-1,2-Dichloroethene	<0.5	UG/L		
GAC-02	Sample	8/7/2013	247736-002	cis-1,2-Dichloroethene	<0.5	UG/L		0.00

Attachment B Table 4. Duplicate Sample Comparison
July 1, 2013 - December 31, 2013
PGA-South

Sample ID	Sample Type	Sample Date	Laboratory Sample Number	Analyte	Result	Units	ADEQ Qualification	Calculated RPD (%)
E-102	Sample	8/7/2013	247736-009	cis-1,3-Dichloropropene	<0.5	UG/L		
E-102	Duplicate	8/7/2013	247736-011	cis-1,3-Dichloropropene	<0.5	UG/L	V1	0.00
E-17	Duplicate	8/7/2013	247738-010	cis-1,3-Dichloropropene	<0.5	UG/L		
E-17	Sample	8/7/2013	247738-009	cis-1,3-Dichloropropene	<0.5	UG/L		0.00
GAC-02	Duplicate	8/7/2013	247736-010	cis-1,3-Dichloropropene	<0.5	UG/L		
GAC-02	Sample	8/7/2013	247736-002	cis-1,3-Dichloropropene	<0.5	UG/L		0.00
E-102	Duplicate	8/7/2013	247736-011	Dibromochloromethane	<0.5	UG/L		
E-102	Sample	8/7/2013	247736-009	Dibromochloromethane	<0.5	UG/L		0.00
E-17	Duplicate	8/7/2013	247738-010	Dibromochloromethane	<0.5	UG/L		
E-17	Sample	8/7/2013	247738-009	Dibromochloromethane	<0.5	UG/L		0.00
GAC-02	Duplicate	8/7/2013	247736-010	Dibromochloromethane	<0.5	UG/L		
GAC-02	Sample	8/7/2013	247736-002	Dibromochloromethane	<0.5	UG/L		0.00
E-102	Duplicate	8/7/2013	247736-011	Methylene Chloride	<20	UG/L		
E-102	Sample	8/7/2013	247736-009	Methylene Chloride	<20	UG/L		0.00
E-17	Duplicate	8/7/2013	247738-010	Methylene Chloride	<20	UG/L		
E-17	Sample	8/7/2013	247738-009	Methylene Chloride	<20	UG/L		0.00
GAC-02	Duplicate	8/7/2013	247736-010	Methylene Chloride	<20	UG/L		
GAC-02	Sample	8/7/2013	247736-002	Methylene Chloride	<20	UG/L		0.00
E-102	Duplicate	8/7/2013	247736-011	Tetrachloroethene	<0.5	UG/L		
E-102	Sample	8/7/2013	247736-009	Tetrachloroethene	<0.5	UG/L		0.00
E-17	Sample	8/7/2013	247738-009	Tetrachloroethene	3.50	UG/L		
E-17	Duplicate	8/7/2013	247738-010	Tetrachloroethene	3.70	UG/L		-5.56
GAC-02	Duplicate	8/7/2013	247736-010	Tetrachloroethene	<0.5	UG/L		
GAC-02	Sample	8/7/2013	247736-002	Tetrachloroethene	<0.5	UG/L		0.00
E-102	Sample	8/7/2013	247736-009	Toluene-d8	96.00	%REC		
E-102	Duplicate	8/7/2013	247736-011	Toluene-d8	98.00	%REC		-2.06
E-17	Sample	8/7/2013	247738-009	Toluene-d8	93.00	%REC		
E-17	Duplicate	8/7/2013	247738-010	Toluene-d8	94.00	%REC		-1.07
GAC-02	Duplicate	8/7/2013	247736-010	Toluene-d8	97.00	%REC		
GAC-02	Sample	8/7/2013	247736-002	Toluene-d8	97.00	%REC		0.00
E-102	Duplicate	8/7/2013	247736-011	trans-1,2-Dichloroethene	<0.5	UG/L		
E-102	Sample	8/7/2013	247736-009	trans-1,2-Dichloroethene	<0.5	UG/L		0.00
E-17	Duplicate	8/7/2013	247738-010	trans-1,2-Dichloroethene	<0.5	UG/L		
E-17	Sample	8/7/2013	247738-009	trans-1,2-Dichloroethene	<0.5	UG/L		0.00
GAC-02	Duplicate	8/7/2013	247736-010	trans-1,2-Dichloroethene	<0.5	UG/L		
GAC-02	Sample	8/7/2013	247736-002	trans-1,2-Dichloroethene	<0.5	UG/L		0.00
E-102	Duplicate	8/7/2013	247736-011	trans-1,3-Dichloropropene	<0.5	UG/L		
E-102	Sample	8/7/2013	247736-009	trans-1,3-Dichloropropene	<0.5	UG/L		0.00
E-17	Duplicate	8/7/2013	247738-010	trans-1,3-Dichloropropene	<0.5	UG/L		
E-17	Sample	8/7/2013	247738-009	trans-1,3-Dichloropropene	<0.5	UG/L		0.00
GAC-02	Duplicate	8/7/2013	247736-010	trans-1,3-Dichloropropene	<0.5	UG/L		
GAC-02	Sample	8/7/2013	247736-002	trans-1,3-Dichloropropene	<0.5	UG/L		0.00
E-102	Duplicate	8/7/2013	247736-011	Trichloroethene	3.10	UG/L		
E-102	Sample	8/7/2013	247736-009	Trichloroethene	3.10	UG/L		0.00
E-17	Duplicate	8/7/2013	247738-010	Trichloroethene	27.00	UG/L		
E-17	Sample	8/7/2013	247738-009	Trichloroethene	27.00	UG/L		0.00
GAC-02	Duplicate	8/7/2013	247736-010	Trichloroethene	3.80	UG/L		
GAC-02	Sample	8/7/2013	247736-002	Trichloroethene	4.60	UG/L		-19.05
E-102	Duplicate	8/7/2013	247736-011	Trichlorofluoromethane	<1.0	UG/L		
E-102	Sample	8/7/2013	247736-009	Trichlorofluoromethane	<1.0	UG/L		0.00
E-17	Duplicate	8/7/2013	247738-010	Trichlorofluoromethane	<1.0	UG/L		
E-17	Sample	8/7/2013	247738-009	Trichlorofluoromethane	<1.0	UG/L		0.00
GAC-02	Duplicate	8/7/2013	247736-010	Trichlorofluoromethane	<1.0	UG/L		
GAC-02	Sample	8/7/2013	247736-002	Trichlorofluoromethane	<1.0	UG/L		0.00
E-102	Duplicate	8/7/2013	247736-011	Vinyl chloride	<0.5	UG/L		
E-102	Sample	8/7/2013	247736-009	Vinyl chloride	<0.5	UG/L		0.00
E-17	Duplicate	8/7/2013	247738-010	Vinyl chloride	<0.5	UG/L		
E-17	Sample	8/7/2013	247738-009	Vinyl chloride	<0.5	UG/L		0.00
GAC-02	Duplicate	8/7/2013	247736-010	Vinyl chloride	<0.5	UG/L		
GAC-02	Sample	8/7/2013	247736-002	Vinyl chloride	<0.5	UG/L		0.00
EMW-03	Duplicate	8/8/2013	247818-021	1,1,1-Trichloroethane	<0.5	UG/L		
EMW-03	Sample	8/8/2013	247818-006	1,1,1-Trichloroethane	<0.5	UG/L		0.00
EMW-07R	Duplicate	8/8/2013	247818-023	1,1,1-Trichloroethane	<0.5	UG/L		
EMW-07R	Sample	8/8/2013	247818-020	1,1,1-Trichloroethane	<0.5	UG/L		0.00
GMW-13UC	Duplicate	8/8/2013	247818-022	1,1,1-Trichloroethane	<0.5	UG/L		
GMW-13UC	Sample	8/8/2013	247818-013	1,1,1-Trichloroethane	<0.5	UG/L		0.00
EMW-03	Duplicate	8/8/2013	247818-021	1,1,2,2-Tetrachloroethane	<0.5	UG/L		
EMW-03	Sample	8/8/2013	247818-006	1,1,2,2-Tetrachloroethane	<0.5	UG/L	V1	0.00
EMW-07R	Duplicate	8/8/2013	247818-023	1,1,2,2-Tetrachloroethane	<0.5	UG/L		
EMW-07R	Sample	8/8/2013	247818-020	1,1,2,2-Tetrachloroethane	<0.5	UG/L		0.00

Attachment B Table 4. Duplicate Sample Comparison
July 1, 2013 - December 31, 2013
PGA-South

Sample ID	Sample Type	Sample Date	Laboratory Sample Number	Analyte	Result	Units	ADEQ Qualification	Calculated RPD (%)
GMW-13UC	Duplicate	8/8/2013	247818-022	1,1,2,2-Tetrachloroethane	<0.5	UG/L		
GMW-13UC	Sample	8/8/2013	247818-013	1,1,2,2-Tetrachloroethane	<0.5	UG/L		0.00
EMW-03	Sample	8/8/2013	247818-006	1,1,2-Trichloro-1,2,2-trifluoroethane	0.6 J	UG/L	E4, R1	
EMW-03	Duplicate	8/8/2013	247818-021	1,1,2-Trichloro-1,2,2-trifluoroethane	0.8 J	UG/L	E4, R1, v1	-28.57
EMW-07R	Duplicate	8/8/2013	247818-023	1,1,2-Trichloro-1,2,2-trifluoroethane	<2.0	UG/L	V1	
EMW-07R	Sample	8/8/2013	247818-020	1,1,2-Trichloro-1,2,2-trifluoroethane	<2.0	UG/L	V1	0.00
GMW-13UC	Duplicate	8/8/2013	247818-022	1,1,2-Trichloro-1,2,2-trifluoroethane	2.6 J	UG/L	V1	
GMW-13UC	Sample	8/8/2013	247818-013	1,1,2-Trichloro-1,2,2-trifluoroethane	2.8 J	UG/L	V1	-7.41
EMW-03	Duplicate	8/8/2013	247818-021	1,1,2-Trichloroethane	<0.5	UG/L		
EMW-03	Sample	8/8/2013	247818-006	1,1,2-Trichloroethane	<0.5	UG/L		0.00
EMW-07R	Duplicate	8/8/2013	247818-023	1,1,2-Trichloroethane	<0.5	UG/L		
EMW-07R	Sample	8/8/2013	247818-020	1,1,2-Trichloroethane	<0.5	UG/L		0.00
GMW-13UC	Duplicate	8/8/2013	247818-022	1,1,2-Trichloroethane	<0.5	UG/L		
GMW-13UC	Sample	8/8/2013	247818-013	1,1,2-Trichloroethane	<0.5	UG/L		0.00
EMW-03	Duplicate	8/8/2013	247818-021	1,1-Dichloroethane	<0.5	UG/L		
EMW-03	Sample	8/8/2013	247818-006	1,1-Dichloroethane	<0.5	UG/L		0.00
EMW-07R	Duplicate	8/8/2013	247818-023	1,1-Dichloroethane	<0.5	UG/L		
EMW-07R	Sample	8/8/2013	247818-020	1,1-Dichloroethane	<0.5	UG/L		0.00
GMW-13UC	Duplicate	8/8/2013	247818-022	1,1-Dichloroethane	<0.5	UG/L		
GMW-13UC	Sample	8/8/2013	247818-013	1,1-Dichloroethane	<0.5	UG/L		0.00
EMW-03	Duplicate	8/8/2013	247818-021	1,1-Dichloroethene	0.8 J	UG/L	R1	
EMW-03	Sample	8/8/2013	247818-006	1,1-Dichloroethene	1.0 J	UG/L	R1	-22.22
EMW-07R	Duplicate	8/8/2013	247818-023	1,1-Dichloroethene	<0.5	UG/L		
EMW-07R	Sample	8/8/2013	247818-020	1,1-Dichloroethene	<0.5	UG/L		0.00
GMW-13UC	Duplicate	8/8/2013	247818-022	1,1-Dichloroethene	1.80	UG/L		
GMW-13UC	Sample	8/8/2013	247818-013	1,1-Dichloroethene	2.00	UG/L		-10.53
EMW-03	Duplicate	8/8/2013	247818-021	1,2-Dichlorobenzene	<0.5	UG/L		
EMW-03	Sample	8/8/2013	247818-006	1,2-Dichlorobenzene	<0.5	UG/L		0.00
EMW-07R	Duplicate	8/8/2013	247818-023	1,2-Dichlorobenzene	<0.5	UG/L		
EMW-07R	Sample	8/8/2013	247818-020	1,2-Dichlorobenzene	<0.5	UG/L		0.00
GMW-13UC	Duplicate	8/8/2013	247818-022	1,2-Dichlorobenzene	<0.5	UG/L		
GMW-13UC	Sample	8/8/2013	247818-013	1,2-Dichlorobenzene	<0.5	UG/L		0.00
EMW-03	Duplicate	8/8/2013	247818-021	1,2-Dichloroethane	<0.5	UG/L		
EMW-03	Sample	8/8/2013	247818-006	1,2-Dichloroethane	<0.5	UG/L		0.00
EMW-07R	Duplicate	8/8/2013	247818-023	1,2-Dichloroethane	<0.5	UG/L		
EMW-07R	Sample	8/8/2013	247818-020	1,2-Dichloroethane	<0.5	UG/L		0.00
GMW-13UC	Duplicate	8/8/2013	247818-022	1,2-Dichloroethane	0.4 J	UG/L	E4	
GMW-13UC	Sample	8/8/2013	247818-013	1,2-Dichloroethane	0.4 J	UG/L	E4	0.00
EMW-03	Sample	8/8/2013	247818-006	1,2-Dichloroethane-d4	97.00	%REC		
EMW-03	Duplicate	8/8/2013	247818-021	1,2-Dichloroethane-d4	112.00	%REC		-14.35
EMW-07R	Duplicate	8/8/2013	247818-023	1,2-Dichloroethane-d4	111.00	%REC		
EMW-07R	Sample	8/8/2013	247818-020	1,2-Dichloroethane-d4	112.00	%REC		-0.90
GMW-13UC	Sample	8/8/2013	247818-013	1,2-Dichloroethane-d4	109.00	%REC		
GMW-13UC	Duplicate	8/8/2013	247818-022	1,2-Dichloroethane-d4	112.00	%REC		-2.71
EMW-03	Duplicate	8/8/2013	247818-021	1,2-Dichloropropane	<0.5	UG/L		
EMW-03	Sample	8/8/2013	247818-006	1,2-Dichloropropane	<0.5	UG/L		0.00
EMW-07R	Duplicate	8/8/2013	247818-023	1,2-Dichloropropane	<0.5	UG/L		
EMW-07R	Sample	8/8/2013	247818-020	1,2-Dichloropropane	<0.5	UG/L		0.00
GMW-13UC	Duplicate	8/8/2013	247818-022	1,2-Dichloropropane	<0.5	UG/L		
GMW-13UC	Sample	8/8/2013	247818-013	1,2-Dichloropropane	<0.5	UG/L		0.00
EMW-03	Duplicate	8/8/2013	247818-021	1,3-Dichlorobenzene	<0.5	UG/L		
EMW-03	Sample	8/8/2013	247818-006	1,3-Dichlorobenzene	<0.5	UG/L		0.00
EMW-07R	Duplicate	8/8/2013	247818-023	1,3-Dichlorobenzene	<0.5	UG/L		
EMW-07R	Sample	8/8/2013	247818-020	1,3-Dichlorobenzene	<0.5	UG/L		0.00
GMW-13UC	Duplicate	8/8/2013	247818-022	1,3-Dichlorobenzene	<0.5	UG/L		
GMW-13UC	Sample	8/8/2013	247818-013	1,3-Dichlorobenzene	<0.5	UG/L		0.00
EMW-03	Duplicate	8/8/2013	247818-021	1,4-Dichlorobenzene	<0.5	UG/L		
EMW-03	Sample	8/8/2013	247818-006	1,4-Dichlorobenzene	<0.5	UG/L		0.00
EMW-07R	Duplicate	8/8/2013	247818-023	1,4-Dichlorobenzene	<0.5	UG/L		
EMW-07R	Sample	8/8/2013	247818-020	1,4-Dichlorobenzene	<0.5	UG/L		0.00
GMW-13UC	Duplicate	8/8/2013	247818-022	1,4-Dichlorobenzene	<0.5	UG/L		
GMW-13UC	Sample	8/8/2013	247818-013	1,4-Dichlorobenzene	<0.5	UG/L		0.00
EMW-03	Duplicate	8/8/2013	247818-021	Bromodichloromethane	<0.5	UG/L		
EMW-03	Sample	8/8/2013	247818-006	Bromodichloromethane	<0.5	UG/L		0.00
EMW-07R	Duplicate	8/8/2013	247818-023	Bromodichloromethane	<0.5	UG/L		
EMW-07R	Sample	8/8/2013	247818-020	Bromodichloromethane	<0.5	UG/L		0.00
GMW-13UC	Duplicate	8/8/2013	247818-022	Bromodichloromethane	<0.5	UG/L		
GMW-13UC	Sample	8/8/2013	247818-013	Bromodichloromethane	<0.5	UG/L		0.00
EMW-03	Sample	8/8/2013	247818-006	Bromofluorobenzene	92.00	%REC		
EMW-03	Duplicate	8/8/2013	247818-021	Bromofluorobenzene	101.00	%REC		-9.33

Attachment B Table 4. Duplicate Sample Comparison
July 1, 2013 - December 31, 2013
PGA-South

Sample ID	Sample Type	Sample Date	Laboratory Sample Number	Analyte	Result	Units	ADEQ Qualification	Calculated RPD (%)
EMW-07R	Sample	8/8/2013	247818-020	Bromofluorobenzene	101.00	%REC		
EMW-07R	Duplicate	8/8/2013	247818-023	Bromofluorobenzene	102.00	%REC		-0.99
GMW-13UC	Duplicate	8/8/2013	247818-022	Bromofluorobenzene	101.00	%REC		
GMW-13UC	Sample	8/8/2013	247818-013	Bromofluorobenzene	102.00	%REC		-0.99
EMW-03	Duplicate	8/8/2013	247818-021	Bromoform	<0.5	UG/L		
EMW-03	Sample	8/8/2013	247818-006	Bromoform	<0.5	UG/L		0.00
EMW-07R	Duplicate	8/8/2013	247818-023	Bromoform	<0.5	UG/L		
EMW-07R	Sample	8/8/2013	247818-020	Bromoform	<0.5	UG/L		0.00
GMW-13UC	Duplicate	8/8/2013	247818-022	Bromoform	<0.5	UG/L		
GMW-13UC	Sample	8/8/2013	247818-013	Bromoform	<0.5	UG/L		0.00
EMW-03	Duplicate	8/8/2013	247818-021	Bromomethane	<1.0	UG/L		
EMW-03	Sample	8/8/2013	247818-006	Bromomethane	<1.0	UG/L	V1	0.00
EMW-07R	Duplicate	8/8/2013	247818-023	Bromomethane	<1.0	UG/L		
EMW-07R	Sample	8/8/2013	247818-020	Bromomethane	<1.0	UG/L		0.00
GMW-13UC	Duplicate	8/8/2013	247818-022	Bromomethane	0.2 J	UG/L	B1, E4	
GMW-13UC	Sample	8/8/2013	247818-013	Bromomethane	0.2 J	UG/L	E4, B1	0.00
EMW-03	Duplicate	8/8/2013	247818-021	Carbon tetrachloride	<0.5	UG/L		
EMW-03	Sample	8/8/2013	247818-006	Carbon tetrachloride	<0.5	UG/L		0.00
EMW-07R	Duplicate	8/8/2013	247818-023	Carbon tetrachloride	<0.5	UG/L		
EMW-07R	Sample	8/8/2013	247818-020	Carbon tetrachloride	<0.5	UG/L		0.00
GMW-13UC	Duplicate	8/8/2013	247818-022	Carbon tetrachloride	2.30	UG/L		
GMW-13UC	Sample	8/8/2013	247818-013	Carbon tetrachloride	2.50	UG/L		-8.33
EMW-03	Duplicate	8/8/2013	247818-021	Chlorobenzene	<0.5	UG/L		
EMW-03	Sample	8/8/2013	247818-006	Chlorobenzene	<0.5	UG/L		0.00
EMW-07R	Duplicate	8/8/2013	247818-023	Chlorobenzene	<0.5	UG/L		
EMW-07R	Sample	8/8/2013	247818-020	Chlorobenzene	<0.5	UG/L		0.00
GMW-13UC	Duplicate	8/8/2013	247818-022	Chlorobenzene	<0.5	UG/L		
GMW-13UC	Sample	8/8/2013	247818-013	Chlorobenzene	<0.5	UG/L		0.00
EMW-03	Sample	8/8/2013	247818-006	Chloroethane	<1.0	UG/L		
EMW-03	Duplicate	8/8/2013	247818-021	Chloroethane	<1.0	UG/L	V1	0.00
EMW-07R	Duplicate	8/8/2013	247818-023	Chloroethane	<1.0	UG/L	V1	
EMW-07R	Sample	8/8/2013	247818-020	Chloroethane	<1.0	UG/L	V1	0.00
GMW-13UC	Duplicate	8/8/2013	247818-022	Chloroethane	<1.0	UG/L	V1	
GMW-13UC	Sample	8/8/2013	247818-013	Chloroethane	<1.0	UG/L	V1	0.00
EMW-03	Duplicate	8/8/2013	247818-021	Chloroform	<1.0	UG/L		
EMW-03	Sample	8/8/2013	247818-006	Chloroform	<1.0	UG/L		0.00
EMW-07R	Duplicate	8/8/2013	247818-023	Chloroform	0.2 J	UG/L	E4	
EMW-07R	Sample	8/8/2013	247818-020	Chloroform	0.2 J	UG/L	E4	0.00
GMW-13UC	Duplicate	8/8/2013	247818-022	Chloroform	1.20	UG/L		
GMW-13UC	Sample	8/8/2013	247818-013	Chloroform	1.20	UG/L		0.00
EMW-03	Duplicate	8/8/2013	247818-021	Chloromethane	<1.0	UG/L		
EMW-03	Sample	8/8/2013	247818-006	Chloromethane	<1.0	UG/L		0.00
EMW-07R	Duplicate	8/8/2013	247818-023	Chloromethane	<1.0	UG/L		
EMW-07R	Sample	8/8/2013	247818-020	Chloromethane	<1.0	UG/L		0.00
GMW-13UC	Duplicate	8/8/2013	247818-022	Chloromethane	<1.0	UG/L		
GMW-13UC	Sample	8/8/2013	247818-013	Chloromethane	<1.0	UG/L		0.00
EMW-03	Duplicate	8/8/2013	247818-021	Chromium	29.00	UG/L		
EMW-03	Sample	8/8/2013	247818-006	Chromium	32.00	UG/L		-9.84
GMW-13UC	Duplicate	8/8/2013	247818-022	Chromium	410.00	UG/L		
GMW-13UC	Sample	8/8/2013	247818-013	Chromium	450.00	UG/L		-9.30
EMW-03	Duplicate	8/8/2013	247818-021	Chromium, Dissolved	24.00	UG/L		
EMW-03	Sample	8/8/2013	247818-006	Chromium, Dissolved	24.00	UG/L		0.00
GMW-13UC	Duplicate	8/8/2013	247818-022	Chromium, Dissolved	360.00	UG/L		
GMW-13UC	Sample	8/8/2013	247818-013	Chromium, Dissolved	390.00	UG/L		-8.00
EMW-03	Duplicate	8/8/2013	247818-021	cis-1,2-Dichloroethene	0.2 J	UG/L	E4, R1	
EMW-03	Sample	8/8/2013	247818-006	cis-1,2-Dichloroethene	0.3 J	UG/L	E4, R1	-40.00
EMW-07R	Duplicate	8/8/2013	247818-023	cis-1,2-Dichloroethene	<0.5	UG/L		
EMW-07R	Sample	8/8/2013	247818-020	cis-1,2-Dichloroethene	<0.5	UG/L		0.00
GMW-13UC	Duplicate	8/8/2013	247818-022	cis-1,2-Dichloroethene	<0.5	UG/L		
GMW-13UC	Sample	8/8/2013	247818-013	cis-1,2-Dichloroethene	<0.5	UG/L		0.00
EMW-03	Duplicate	8/8/2013	247818-021	cis-1,3-Dichloropropene	<0.5	UG/L		
EMW-03	Sample	8/8/2013	247818-006	cis-1,3-Dichloropropene	<0.5	UG/L		0.00
EMW-07R	Duplicate	8/8/2013	247818-023	cis-1,3-Dichloropropene	<0.5	UG/L		
EMW-07R	Sample	8/8/2013	247818-020	cis-1,3-Dichloropropene	<0.5	UG/L		0.00
GMW-13UC	Duplicate	8/8/2013	247818-022	cis-1,3-Dichloropropene	<0.5	UG/L		
GMW-13UC	Sample	8/8/2013	247818-013	cis-1,3-Dichloropropene	<0.5	UG/L		0.00
EMW-03	Duplicate	8/8/2013	247818-021	Dibromochloromethane	<0.5	UG/L		
EMW-03	Sample	8/8/2013	247818-006	Dibromochloromethane	<0.5	UG/L		0.00
EMW-07R	Duplicate	8/8/2013	247818-023	Dibromochloromethane	<0.5	UG/L		
EMW-07R	Sample	8/8/2013	247818-020	Dibromochloromethane	<0.5	UG/L		0.00

Attachment B Table 4. Duplicate Sample Comparison
July 1, 2013 - December 31, 2013
PGA-South

Sample ID	Sample Type	Sample Date	Laboratory Sample Number	Analyte	Result	Units	ADEQ Qualification	Calculated RPD (%)
GMW-13UC	Duplicate	8/8/2013	247818-022	Dibromochloromethane	<0.5	UG/L		
GMW-13UC	Sample	8/8/2013	247818-013	Dibromochloromethane	<0.5	UG/L		0.00
EMW-03	Duplicate	8/8/2013	247818-021	Methylene Chloride	<20	UG/L		
EMW-03	Sample	8/8/2013	247818-006	Methylene Chloride	<20	UG/L		0.00
EMW-07R	Duplicate	8/8/2013	247818-023	Methylene Chloride	<20	UG/L		
EMW-07R	Sample	8/8/2013	247818-020	Methylene Chloride	<20	UG/L		0.00
GMW-13UC	Duplicate	8/8/2013	247818-022	Methylene Chloride	<20	UG/L		
GMW-13UC	Sample	8/8/2013	247818-013	Methylene Chloride	<20	UG/L		0.00
EMW-03	Duplicate	8/8/2013	247818-021	Tetrachloroethene	0.80	UG/L		
EMW-03	Sample	8/8/2013	247818-006	Tetrachloroethene	0.90	UG/L		-11.76
EMW-07R	Duplicate	8/8/2013	247818-023	Tetrachloroethene	0.70	UG/L		
EMW-07R	Sample	8/8/2013	247818-020	Tetrachloroethene	0.70	UG/L		0.00
GMW-13UC	Duplicate	8/8/2013	247818-022	Tetrachloroethene	0.2 J	UG/L	E4	
GMW-13UC	Sample	8/8/2013	247818-013	Tetrachloroethene	0.2 J	UG/L	E4	0.00
EMW-03	Sample	8/8/2013	247818-006	Toluene-d8	101.00	%REC		
EMW-03	Duplicate	8/8/2013	247818-021	Toluene-d8	102.00	%REC		-0.99
EMW-07R	Duplicate	8/8/2013	247818-023	Toluene-d8	102.00	%REC		
EMW-07R	Sample	8/8/2013	247818-020	Toluene-d8	102.00	%REC		0.00
GMW-13UC	Sample	8/8/2013	247818-013	Toluene-d8	101.00	%REC		
GMW-13UC	Duplicate	8/8/2013	247818-022	Toluene-d8	103.00	%REC		-1.96
EMW-03	Duplicate	8/8/2013	247818-021	trans-1,2-Dichloroethene	<0.5	UG/L		
EMW-03	Sample	8/8/2013	247818-006	trans-1,2-Dichloroethene	<0.5	UG/L		0.00
EMW-07R	Duplicate	8/8/2013	247818-023	trans-1,2-Dichloroethene	<0.5	UG/L		
EMW-07R	Sample	8/8/2013	247818-020	trans-1,2-Dichloroethene	<0.5	UG/L		0.00
GMW-13UC	Duplicate	8/8/2013	247818-022	trans-1,2-Dichloroethene	<0.5	UG/L		
GMW-13UC	Sample	8/8/2013	247818-013	trans-1,2-Dichloroethene	<0.5	UG/L		0.00
EMW-03	Duplicate	8/8/2013	247818-021	trans-1,3-Dichloropropene	<0.5	UG/L		
EMW-03	Sample	8/8/2013	247818-006	trans-1,3-Dichloropropene	<0.5	UG/L		0.00
EMW-07R	Duplicate	8/8/2013	247818-023	trans-1,3-Dichloropropene	<0.5	UG/L		
EMW-07R	Sample	8/8/2013	247818-020	trans-1,3-Dichloropropene	<0.5	UG/L		0.00
GMW-13UC	Duplicate	8/8/2013	247818-022	trans-1,3-Dichloropropene	<0.5	UG/L		
GMW-13UC	Sample	8/8/2013	247818-013	trans-1,3-Dichloropropene	<0.5	UG/L		0.00
EMW-03	Duplicate	8/8/2013	247818-021	Trichloroethene	1.60	UG/L		
EMW-03	Sample	8/8/2013	247818-006	Trichloroethene	1.70	UG/L		-6.06
EMW-07R	Duplicate	8/8/2013	247818-023	Trichloroethene	0.3 J	UG/L	E4	
EMW-07R	Sample	8/8/2013	247818-020	Trichloroethene	0.3 J	UG/L	E4	0.00
GMW-13UC	Duplicate	8/8/2013	247818-022	Trichloroethene	71.00	UG/L		
GMW-13UC	Sample	8/8/2013	247818-013	Trichloroethene	75.00	UG/L		-5.48
EMW-03	Duplicate	8/8/2013	247818-021	Trichlorofluoromethane	<1.0	UG/L		
EMW-03	Sample	8/8/2013	247818-006	Trichlorofluoromethane	<1.0	UG/L		0.00
EMW-07R	Duplicate	8/8/2013	247818-023	Trichlorofluoromethane	<1.0	UG/L		
EMW-07R	Sample	8/8/2013	247818-020	Trichlorofluoromethane	<1.0	UG/L		0.00
GMW-13UC	Duplicate	8/8/2013	247818-022	Trichlorofluoromethane	<1.0	UG/L		
GMW-13UC	Sample	8/8/2013	247818-013	Trichlorofluoromethane	<1.0	UG/L		0.00
EMW-03	Duplicate	8/8/2013	247818-021	Vinyl chloride	<0.5	UG/L		
EMW-03	Sample	8/8/2013	247818-006	Vinyl chloride	<0.5	UG/L		0.00
EMW-07R	Duplicate	8/8/2013	247818-023	Vinyl chloride	<0.5	UG/L		
EMW-07R	Sample	8/8/2013	247818-020	Vinyl chloride	<0.5	UG/L		0.00
GMW-13UC	Duplicate	8/8/2013	247818-022	Vinyl chloride	<0.5	UG/L		
GMW-13UC	Sample	8/8/2013	247818-013	Vinyl chloride	<0.5	UG/L		0.00
E-17	Duplicate	9/4/2013	248701-010	1,1,1-Trichloroethane	<0.5	UG/L		
E-17	Sample	9/4/2013	248701-009	1,1,1-Trichloroethane	<0.5	UG/L		0.00
E-17	Duplicate	9/4/2013	248701-010	1,1,2,2-Tetrachloroethane	<0.5	UG/L	V9	
E-17	Sample	9/4/2013	248701-009	1,1,2,2-Tetrachloroethane	<0.5	UG/L	V9	0.00
E-17	Duplicate	9/4/2013	248701-010	1,1,2-Trichloro-1,2,2-trifluoroethane	6.3 J	UG/L	V1	
E-17	Sample	9/4/2013	248701-009	1,1,2-Trichloro-1,2,2-trifluoroethane	6.5 J	UG/L	V1	-3.13
E-17	Duplicate	9/4/2013	248701-010	1,1,2-Trichloroethane	<0.5	UG/L		
E-17	Sample	9/4/2013	248701-009	1,1,2-Trichloroethane	<0.5	UG/L		0.00
E-17	Duplicate	9/4/2013	248701-010	1,1-Dichloroethane	<0.5	UG/L		
E-17	Sample	9/4/2013	248701-009	1,1-Dichloroethane	<0.5	UG/L		0.00
E-17	Duplicate	9/4/2013	248701-010	1,1-Dichloroethene	1.50	UG/L		
E-17	Sample	9/4/2013	248701-009	1,1-Dichloroethene	1.50	UG/L		0.00
E-17	Duplicate	9/4/2013	248701-010	1,2-Dichlorobenzene	<0.5	UG/L		
E-17	Sample	9/4/2013	248701-009	1,2-Dichlorobenzene	<0.5	UG/L		0.00
E-17	Duplicate	9/4/2013	248701-010	1,2-Dichloroethane	<0.5	UG/L		
E-17	Sample	9/4/2013	248701-009	1,2-Dichloroethane	<0.5	UG/L		0.00
E-17	Sample	9/4/2013	248701-009	1,2-Dichloroethane-d4	95.00	%REC		
E-17	Duplicate	9/4/2013	248701-010	1,2-Dichloroethane-d4	97.00	%REC		-2.08
E-17	Duplicate	9/4/2013	248701-010	1,2-Dichloropropane	<0.5	UG/L		
E-17	Sample	9/4/2013	248701-009	1,2-Dichloropropane	<0.5	UG/L		0.00

Attachment B Table 4. Duplicate Sample Comparison
July 1, 2013 - December 31, 2013
PGA-South

Sample ID	Sample Type	Sample Date	Laboratory Sample Number	Analyte	Result	Units	ADEQ Qualification	Calculated RPD (%)
E-17	Duplicate	9/4/2013	248701-010	1,3-Dichlorobenzene	<0.5	UG/L		
E-17	Sample	9/4/2013	248701-009	1,3-Dichlorobenzene	<0.5	UG/L		0.00
E-17	Duplicate	9/4/2013	248701-010	1,4-Dichlorobenzene	<0.5	UG/L		
E-17	Sample	9/4/2013	248701-009	1,4-Dichlorobenzene	<0.5	UG/L		0.00
E-17	Duplicate	9/4/2013	248701-010	Bromodichloromethane	<0.5	UG/L		
E-17	Sample	9/4/2013	248701-009	Bromodichloromethane	<0.5	UG/L		0.00
E-17	Duplicate	9/4/2013	248701-010	Bromofluorobenzene	92.00	%REC		
E-17	Sample	9/4/2013	248701-009	Bromofluorobenzene	94.00	%REC		-2.15
E-17	Duplicate	9/4/2013	248701-010	Bromoform	<0.5	UG/L		
E-17	Sample	9/4/2013	248701-009	Bromoform	<0.5	UG/L		0.00
E-17	Duplicate	9/4/2013	248701-010	Bromomethane	<1.0	UG/L	V1, V9	
E-17	Sample	9/4/2013	248701-009	Bromomethane	<1.0	UG/L	V1, V9	0.00
E-17	Duplicate	9/4/2013	248701-010	Carbon tetrachloride	0.4 J	UG/L	E4	
E-17	Sample	9/4/2013	248701-009	Carbon tetrachloride	0.5 J	UG/L	E4	-22.22
E-17	Duplicate	9/4/2013	248701-010	Chlorobenzene	<0.5	UG/L		
E-17	Sample	9/4/2013	248701-009	Chlorobenzene	<0.5	UG/L		0.00
E-17	Duplicate	9/4/2013	248701-010	Chloroethane	<1.0	UG/L		
E-17	Sample	9/4/2013	248701-009	Chloroethane	<1.0	UG/L		0.00
E-17	Duplicate	9/4/2013	248701-010	Chloroform	1.0 J	UG/L	E4	
E-17	Sample	9/4/2013	248701-009	Chloroform	1.0 J	UG/L	E4	0.00
E-17	Duplicate	9/4/2013	248701-010	Chloromethane	<1.0	UG/L	V9	
E-17	Sample	9/4/2013	248701-009	Chloromethane	<1.0	UG/L	V9	0.00
E-17	Sample	9/4/2013	248701-009	Chromium	140.00	UG/L		
E-17	Duplicate	9/4/2013	248701-010	Chromium	150.00	UG/L		-6.90
E-17	Sample	9/4/2013	248701-009	Chromium, Dissolved	130.00	UG/L		
E-17	Duplicate	9/4/2013	248701-010	Chromium, Dissolved	140.00	UG/L		-7.41
E-17	Duplicate	9/4/2013	248701-010	cis-1,2-Dichloroethene	<0.5	UG/L		
E-17	Sample	9/4/2013	248701-009	cis-1,2-Dichloroethene	<0.5	UG/L		0.00
E-17	Duplicate	9/4/2013	248701-010	cis-1,3-Dichloropropene	<0.5	UG/L		
E-17	Sample	9/4/2013	248701-009	cis-1,3-Dichloropropene	<0.5	UG/L		0.00
E-17	Duplicate	9/4/2013	248701-010	Dibromochloromethane	<0.5	UG/L		
E-17	Sample	9/4/2013	248701-009	Dibromochloromethane	<0.5	UG/L		0.00
E-17	Duplicate	9/4/2013	248701-010	Methylene Chloride	<20	UG/L		
E-17	Sample	9/4/2013	248701-009	Methylene Chloride	<20	UG/L		0.00
E-17	Duplicate	9/4/2013	248701-010	Tetrachloroethene	3.20	UG/L		
E-17	Sample	9/4/2013	248701-009	Tetrachloroethene	3.40	UG/L		-6.06
E-17	Sample	9/4/2013	248701-009	Toluene-d8	89.00	%REC		
E-17	Duplicate	9/4/2013	248701-010	Toluene-d8	90.00	%REC		-1.12
E-17	Duplicate	9/4/2013	248701-010	trans-1,2-Dichloroethene	<0.5	UG/L		
E-17	Sample	9/4/2013	248701-009	trans-1,2-Dichloroethene	<0.5	UG/L		0.00
E-17	Duplicate	9/4/2013	248701-010	trans-1,3-Dichloropropene	<0.5	UG/L		
E-17	Sample	9/4/2013	248701-009	trans-1,3-Dichloropropene	<0.5	UG/L		0.00
E-17	Duplicate	9/4/2013	248701-010	Trichloroethene	29.00	UG/L		
E-17	Sample	9/4/2013	248701-009	Trichloroethene	29.00	UG/L		0.00
E-17	Duplicate	9/4/2013	248701-010	Trichlorofluoromethane	<1.0	UG/L		
E-17	Sample	9/4/2013	248701-009	Trichlorofluoromethane	<1.0	UG/L		0.00
E-17	Duplicate	9/4/2013	248701-010	Vinyl chloride	<0.5	UG/L		
E-17	Sample	9/4/2013	248701-009	Vinyl chloride	<0.5	UG/L		0.00
E-17	Duplicate	10/2/2013	249598-010	1,1,1-Trichloroethane	<0.5	UG/L		
E-17	Sample	10/2/2013	249598-009	1,1,1-Trichloroethane	<0.5	UG/L		0.00
E-17	Duplicate	10/2/2013	249598-010	1,1,2,2-Tetrachloroethane	<0.5	UG/L		
E-17	Sample	10/2/2013	249598-009	1,1,2,2-Tetrachloroethane	<0.5	UG/L		0.00
E-17	Duplicate	10/2/2013	249598-010	1,1,2-Trichloro-1,2,2-trifluoroethane	6.00	UG/L		
E-17	Sample	10/2/2013	249598-009	1,1,2-Trichloro-1,2,2-trifluoroethane	6.40	UG/L		-6.45
E-17	Duplicate	10/2/2013	249598-010	1,1,2-Trichloroethane	<0.5	UG/L		
E-17	Sample	10/2/2013	249598-009	1,1,2-Trichloroethane	<0.5	UG/L		0.00
E-17	Duplicate	10/2/2013	249598-010	1,1-Dichloroethane	<0.5	UG/L		
E-17	Sample	10/2/2013	249598-009	1,1-Dichloroethane	<0.5	UG/L		0.00
E-17	Duplicate	10/2/2013	249598-010	1,1-Dichloroethene	1.50	UG/L		
E-17	Sample	10/2/2013	249598-009	1,1-Dichloroethene	1.50	UG/L		0.00
E-17	Duplicate	10/2/2013	249598-010	1,2-Dichlorobenzene	<0.5	UG/L		
E-17	Sample	10/2/2013	249598-009	1,2-Dichlorobenzene	<0.5	UG/L		0.00
E-17	Duplicate	10/2/2013	249598-010	1,2-Dichloroethane	<0.5	UG/L		
E-17	Sample	10/2/2013	249598-009	1,2-Dichloroethane	<0.5	UG/L		0.00
E-17	Sample	10/2/2013	249598-009	1,2-Dichloroethane-d4	116.00	%REC		
E-17	Duplicate	10/2/2013	249598-010	1,2-Dichloroethane-d4	120.00	%REC		-3.39
E-17	Duplicate	10/2/2013	249598-010	1,2-Dichloropropane	<0.5	UG/L		
E-17	Sample	10/2/2013	249598-009	1,2-Dichloropropane	<0.5	UG/L		0.00
E-17	Duplicate	10/2/2013	249598-010	1,3-Dichlorobenzene	<0.5	UG/L		
E-17	Sample	10/2/2013	249598-009	1,3-Dichlorobenzene	<0.5	UG/L		0.00

Attachment B Table 4. Duplicate Sample Comparison
July 1, 2013 - December 31, 2013
PGA-South

Sample ID	Sample Type	Sample Date	Laboratory Sample Number	Analyte	Result	Units	ADEQ Qualification	Calculated RPD (%)
E-17	Duplicate	10/2/2013	249598-010	1,4-Dichlorobenzene	<0.5	UG/L		
E-17	Sample	10/2/2013	249598-009	1,4-Dichlorobenzene	<0.5	UG/L		0.00
E-17	Duplicate	10/2/2013	249598-010	Bromodichloromethane	<0.5	UG/L		
E-17	Sample	10/2/2013	249598-009	Bromodichloromethane	<0.5	UG/L		0.00
E-17	Duplicate	10/2/2013	249598-010	Bromofluorobenzene	97.00	%REC		
E-17	Sample	10/2/2013	249598-009	Bromofluorobenzene	97.00	%REC		0.00
E-17	Duplicate	10/2/2013	249598-010	Bromoform	<0.5	UG/L		
E-17	Sample	10/2/2013	249598-009	Bromoform	<0.5	UG/L		0.00
E-17	Duplicate	10/2/2013	249598-010	Bromomethane	<1.0	UG/L	V1	
E-17	Sample	10/2/2013	249598-009	Bromomethane	<1.0	UG/L	V1	0.00
E-17	Duplicate	10/2/2013	249598-010	Carbon tetrachloride	0.4 J	UG/L	E4	
E-17	Sample	10/2/2013	249598-009	Carbon tetrachloride	0.4 J	UG/L	E4	0.00
E-17	Duplicate	10/2/2013	249598-010	Chlorobenzene	<0.5	UG/L		
E-17	Sample	10/2/2013	249598-009	Chlorobenzene	<0.5	UG/L		0.00
E-17	Duplicate	10/2/2013	249598-010	Chloroethane	<1.0	UG/L		
E-17	Sample	10/2/2013	249598-009	Chloroethane	<1.0	UG/L		0.00
E-17	Sample	10/2/2013	249598-009	Chloroform	1.00	UG/L		
E-17	Duplicate	10/2/2013	249598-010	Chloroform	1.10	UG/L		-9.52
E-17	Duplicate	10/2/2013	249598-010	Chloromethane	<1.0	UG/L	V1	
E-17	Sample	10/2/2013	249598-009	Chloromethane	<1.0	UG/L	V1	0.00
E-17	Duplicate	10/2/2013	249598-010	Chromium	140.00	UG/L		
E-17	Sample	10/2/2013	249598-009	Chromium	150.00	UG/L		-6.90
E-17	Duplicate	10/2/2013	249598-010	Chromium, Dissolved	110.00	UG/L		
E-17	Sample	10/2/2013	249598-009	Chromium, Dissolved	110.00	UG/L		0.00
E-17	Duplicate	10/2/2013	249598-010	cis-1,2-Dichloroethene	<0.5	UG/L		
E-17	Sample	10/2/2013	249598-009	cis-1,2-Dichloroethene	<0.5	UG/L		0.00
E-17	Duplicate	10/2/2013	249598-010	cis-1,3-Dichloropropene	<0.5	UG/L		
E-17	Sample	10/2/2013	249598-009	cis-1,3-Dichloropropene	<0.5	UG/L		0.00
E-17	Duplicate	10/2/2013	249598-010	Dibromochloromethane	<0.5	UG/L		
E-17	Sample	10/2/2013	249598-009	Dibromochloromethane	<0.5	UG/L		0.00
E-17	Duplicate	10/2/2013	249598-010	Methylene Chloride	<20	UG/L		
E-17	Sample	10/2/2013	249598-009	Methylene Chloride	<20	UG/L		0.00
E-17	Duplicate	10/2/2013	249598-010	Tetrachloroethene	3.30	UG/L		
E-17	Sample	10/2/2013	249598-009	Tetrachloroethene	3.30	UG/L		0.00
E-17	Duplicate	10/2/2013	249598-010	Toluene-d8	94.00	%REC		
E-17	Sample	10/2/2013	249598-009	Toluene-d8	94.00	%REC		0.00
E-17	Duplicate	10/2/2013	249598-010	trans-1,2-Dichloroethene	<0.5	UG/L		
E-17	Sample	10/2/2013	249598-009	trans-1,2-Dichloroethene	<0.5	UG/L		0.00
E-17	Duplicate	10/2/2013	249598-010	trans-1,3-Dichloropropene	<0.5	UG/L		
E-17	Sample	10/2/2013	249598-009	trans-1,3-Dichloropropene	<0.5	UG/L		0.00
E-17	Duplicate	10/2/2013	249598-010	Trichloroethene	29.00	UG/L		
E-17	Sample	10/2/2013	249598-009	Trichloroethene	29.00	UG/L		0.00
E-17	Duplicate	10/2/2013	249598-010	Trichlorofluoromethane	<1.0	UG/L		
E-17	Sample	10/2/2013	249598-009	Trichlorofluoromethane	<1.0	UG/L		0.00
E-17	Duplicate	10/2/2013	249598-010	Vinyl chloride	<0.5	UG/L		
E-17	Sample	10/2/2013	249598-009	Vinyl chloride	<0.5	UG/L		0.00
GMW-13UC	Duplicate	10/21/2013	250082-012	1,1,1-Trichloroethane	<0.5	UG/L		
GMW-13UC	Sample	10/21/2013	250082-001	1,1,1-Trichloroethane	<0.5	UG/L		0.00
GMW-13UC	Duplicate	10/21/2013	250082-012	1,1,2,2-Tetrachloroethane	<0.5	UG/L		
GMW-13UC	Sample	10/21/2013	250082-001	1,1,2,2-Tetrachloroethane	<0.5	UG/L		0.00
GMW-13UC	Sample	10/21/2013	250082-001	1,1,2-Trichloro-1,2,2-trifluoroethane	3.20	UG/L		
GMW-13UC	Duplicate	10/21/2013	250082-012	1,1,2-Trichloro-1,2,2-trifluoroethane	3.70	UG/L		-14.49
GMW-13UC	Duplicate	10/21/2013	250082-012	1,1,2-Trichloroethane	<0.5	UG/L		
GMW-13UC	Sample	10/21/2013	250082-001	1,1,2-Trichloroethane	<0.5	UG/L		0.00
GMW-13UC	Duplicate	10/21/2013	250082-012	1,1-Dichloroethane	<0.5	UG/L		
GMW-13UC	Sample	10/21/2013	250082-001	1,1-Dichloroethane	<0.5	UG/L		0.00
GMW-13UC	Duplicate	10/21/2013	250082-012	1,1-Dichloroethene	2.90	UG/L	R1	
GMW-13UC	Sample	10/21/2013	250082-001	1,1-Dichloroethene	3.70	UG/L	R1	-24.24
GMW-13UC	Duplicate	10/21/2013	250082-012	1,2-Dichlorobenzene	<0.5	UG/L		
GMW-13UC	Sample	10/21/2013	250082-001	1,2-Dichlorobenzene	<0.5	UG/L		0.00
GMW-13UC	Sample	10/21/2013	250082-001	1,2-Dichloroethane	0.70	UG/L	R1	
GMW-13UC	Duplicate	10/21/2013	250082-012	1,2-Dichloroethane	0.4 J	UG/L	E4, R1	54.55
GMW-13UC	Duplicate	10/21/2013	250082-012	1,2-Dichloroethane-d4	93.00	%REC		
GMW-13UC	Sample	10/21/2013	250082-001	1,2-Dichloroethane-d4	113.00	%REC		-19.42
GMW-13UC	Duplicate	10/21/2013	250082-012	1,2-Dichloropropane	<0.5	UG/L		
GMW-13UC	Sample	10/21/2013	250082-001	1,2-Dichloropropane	<0.5	UG/L		0.00
GMW-13UC	Duplicate	10/21/2013	250082-012	1,3-Dichlorobenzene	<0.5	UG/L		
GMW-13UC	Sample	10/21/2013	250082-001	1,3-Dichlorobenzene	<0.5	UG/L		0.00
GMW-13UC	Duplicate	10/21/2013	250082-012	1,4-Dichlorobenzene	<0.5	UG/L		
GMW-13UC	Sample	10/21/2013	250082-001	1,4-Dichlorobenzene	<0.5	UG/L		0.00

Attachment B Table 4. Duplicate Sample Comparison
July 1, 2013 - December 31, 2013
PGA-South

Sample ID	Sample Type	Sample Date	Laboratory Sample Number	Analyte	Result	Units	ADEQ Qualification	Calculated RPD (%)
GMW-13UC	Duplicate	10/21/2013	250082-012	Bromodichloromethane	<0.5	UG/L		
GMW-13UC	Sample	10/21/2013	250082-001	Bromodichloromethane	<0.5	UG/L		0.00
GMW-13UC	Duplicate	10/21/2013	250082-012	Bromofluorobenzene	107.00	%REC		
GMW-13UC	Sample	10/21/2013	250082-001	Bromofluorobenzene	108.00	%REC		-0.93
GMW-13UC	Duplicate	10/21/2013	250082-012	Bromoform	<0.5	UG/L		
GMW-13UC	Sample	10/21/2013	250082-001	Bromoform	<0.5	UG/L		0.00
GMW-13UC	Duplicate	10/21/2013	250082-012	Bromomethane	<1.0	UG/L		
GMW-13UC	Sample	10/21/2013	250082-001	Bromomethane	<1.0	UG/L		0.00
GMW-13UC	Duplicate	10/21/2013	250082-012	Carbon tetrachloride	1.90	UG/L		
GMW-13UC	Sample	10/21/2013	250082-001	Carbon tetrachloride	2.10	UG/L		-10.00
GMW-13UC	Duplicate	10/21/2013	250082-012	Chlorobenzene	<0.5	UG/L		
GMW-13UC	Sample	10/21/2013	250082-001	Chlorobenzene	<0.5	UG/L		0.00
GMW-13UC	Duplicate	10/21/2013	250082-012	Chloroethane	<1.0	UG/L		
GMW-13UC	Sample	10/21/2013	250082-001	Chloroethane	<1.0	UG/L		0.00
GMW-13UC	Duplicate	10/21/2013	250082-012	Chloroform	1.40	UG/L	R1	
GMW-13UC	Sample	10/21/2013	250082-001	Chloroform	1.80	UG/L	R1	-25.00
GMW-13UC	Duplicate	10/21/2013	250082-012	Chloromethane	<1.0	UG/L		
GMW-13UC	Sample	10/21/2013	250082-001	Chloromethane	<1.0	UG/L		0.00
GMW-13UC	Duplicate	10/21/2013	250082-012	cis-1,2-Dichloroethene	<0.5	UG/L		
GMW-13UC	Sample	10/21/2013	250082-001	cis-1,2-Dichloroethene	<0.5	UG/L		0.00
GMW-13UC	Duplicate	10/21/2013	250082-012	cis-1,3-Dichloropropene	<0.5	UG/L		
GMW-13UC	Sample	10/21/2013	250082-001	cis-1,3-Dichloropropene	<0.5	UG/L		0.00
GMW-13UC	Duplicate	10/21/2013	250082-012	Dibromochloromethane	<0.5	UG/L		
GMW-13UC	Sample	10/21/2013	250082-001	Dibromochloromethane	<0.5	UG/L		0.00
GMW-13UC	Duplicate	10/21/2013	250082-012	Methylene Chloride	<20	UG/L		
GMW-13UC	Sample	10/21/2013	250082-001	Methylene Chloride	<20	UG/L		0.00
GMW-13UC	Duplicate	10/21/2013	250082-012	Tetrachloroethene	0.2 J	UG/L	E4	
GMW-13UC	Sample	10/21/2013	250082-001	Tetrachloroethene	0.2 J	UG/L	E4	0.00
GMW-13UC	Sample	10/21/2013	250082-001	Toluene-d8	91.00	%REC		
GMW-13UC	Duplicate	10/21/2013	250082-012	Toluene-d8	101.00	%REC		-10.42
GMW-13UC	Duplicate	10/21/2013	250082-012	trans-1,2-Dichloroethene	<0.5	UG/L		
GMW-13UC	Sample	10/21/2013	250082-001	trans-1,2-Dichloroethene	<0.5	UG/L		0.00
GMW-13UC	Duplicate	10/21/2013	250082-012	trans-1,3-Dichloropropene	<0.5	UG/L		
GMW-13UC	Sample	10/21/2013	250082-001	trans-1,3-Dichloropropene	<0.5	UG/L		0.00
GMW-13UC	Sample	10/21/2013	250082-001	Trichloroethene	81.00	UG/L	D1	
GMW-13UC	Duplicate	10/21/2013	250082-012	Trichloroethene	91.00	UG/L		-11.63
GMW-13UC	Duplicate	10/21/2013	250082-012	Trichlorofluoromethane	<1.0	UG/L		
GMW-13UC	Sample	10/21/2013	250082-001	Trichlorofluoromethane	<1.0	UG/L		0.00
GMW-13UC	Duplicate	10/21/2013	250082-012	Vinyl chloride	<0.5	UG/L		
GMW-13UC	Sample	10/21/2013	250082-001	Vinyl chloride	<0.5	UG/L		0.00
E-101	Duplicate	11/5/2013	250555-002	1,1,1-Trichloroethane	<0.5	UG/L		
E-101	Sample	11/5/2013	250555-001	1,1,1-Trichloroethane	<0.5	UG/L		0.00
E-17	Duplicate	11/5/2013	250558-010	1,1,1-Trichloroethane	<0.5	UG/L		
E-17	Sample	11/5/2013	250558-009	1,1,1-Trichloroethane	<0.5	UG/L		0.00
GAC-02	Duplicate	11/5/2013	250555-004	1,1,1-Trichloroethane	<0.5	UG/L		
GAC-02	Sample	11/5/2013	250555-003	1,1,1-Trichloroethane	<0.5	UG/L		0.00
NEW-01	Duplicate	11/5/2013	250555-011	1,1,1-Trichloroethane	<0.5	UG/L		
NEW-01	Sample	11/5/2013	250555-010	1,1,1-Trichloroethane	<0.5	UG/L		0.00
E-101	Duplicate	11/5/2013	250555-002	1,1,2,2-Tetrachloroethane	<0.5	UG/L		
E-101	Sample	11/5/2013	250555-001	1,1,2,2-Tetrachloroethane	<0.5	UG/L		0.00
E-17	Duplicate	11/5/2013	250558-010	1,1,2,2-Tetrachloroethane	<0.5	UG/L		
E-17	Sample	11/5/2013	250558-009	1,1,2,2-Tetrachloroethane	<0.5	UG/L		0.00
GAC-02	Duplicate	11/5/2013	250555-004	1,1,2,2-Tetrachloroethane	<0.5	UG/L		
GAC-02	Sample	11/5/2013	250555-003	1,1,2,2-Tetrachloroethane	<0.5	UG/L		0.00
NEW-01	Duplicate	11/5/2013	250555-011	1,1,2,2-Tetrachloroethane	<0.5	UG/L		
NEW-01	Sample	11/5/2013	250555-010	1,1,2,2-Tetrachloroethane	<0.5	UG/L		0.00
E-101	Duplicate	11/5/2013	250555-002	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 J	UG/L	E4	
E-101	Sample	11/5/2013	250555-001	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 J	UG/L	E4	0.00
E-17	Duplicate	11/5/2013	250558-010	1,1,2-Trichloro-1,2,2-trifluoroethane	7.30	UG/L		
E-17	Sample	11/5/2013	250558-009	1,1,2-Trichloro-1,2,2-trifluoroethane	7.50	UG/L		-2.70
GAC-02	Duplicate	11/5/2013	250555-004	1,1,2-Trichloro-1,2,2-trifluoroethane	<2.0	UG/L		
GAC-02	Sample	11/5/2013	250555-003	1,1,2-Trichloro-1,2,2-trifluoroethane	<2.0	UG/L		0.00
NEW-01	Duplicate	11/5/2013	250555-011	1,1,2-Trichloro-1,2,2-trifluoroethane	<2.0	UG/L		
NEW-01	Sample	11/5/2013	250555-010	1,1,2-Trichloro-1,2,2-trifluoroethane	<2.0	UG/L		0.00
E-101	Duplicate	11/5/2013	250555-002	1,1,2-Trichloroethane	<0.5	UG/L		
E-101	Sample	11/5/2013	250555-001	1,1,2-Trichloroethane	<0.5	UG/L		0.00
E-17	Duplicate	11/5/2013	250558-010	1,1,2-Trichloroethane	<0.5	UG/L		
E-17	Sample	11/5/2013	250558-009	1,1,2-Trichloroethane	<0.5	UG/L		0.00
GAC-02	Duplicate	11/5/2013	250555-004	1,1,2-Trichloroethane	<0.5	UG/L		
GAC-02	Sample	11/5/2013	250555-003	1,1,2-Trichloroethane	<0.5	UG/L		0.00

Attachment B Table 4. Duplicate Sample Comparison
July 1, 2013 - December 31, 2013
PGA-South

Sample ID	Sample Type	Sample Date	Laboratory Sample Number	Analyte	Result	Units	ADEQ Qualification	Calculated RPD (%)
NEW-01	Duplicate	11/5/2013	250555-011	1,1,2-Trichloroethane	<0.5	UG/L		
NEW-01	Sample	11/5/2013	250555-010	1,1,2-Trichloroethane	<0.5	UG/L		0.00
E-101	Duplicate	11/5/2013	250555-002	1,1-Dichloroethane	<0.5	UG/L		
E-101	Sample	11/5/2013	250555-001	1,1-Dichloroethane	<0.5	UG/L		0.00
E-17	Duplicate	11/5/2013	250558-010	1,1-Dichloroethane	<0.5	UG/L		
E-17	Sample	11/5/2013	250558-009	1,1-Dichloroethane	<0.5	UG/L		0.00
GAC-02	Duplicate	11/5/2013	250555-004	1,1-Dichloroethane	<0.5	UG/L		
GAC-02	Sample	11/5/2013	250555-003	1,1-Dichloroethane	<0.5	UG/L		0.00
NEW-01	Duplicate	11/5/2013	250555-011	1,1-Dichloroethane	<0.5	UG/L		
NEW-01	Sample	11/5/2013	250555-010	1,1-Dichloroethane	<0.5	UG/L		0.00
E-101	Duplicate	11/5/2013	250555-002	1,1-Dichloroethene	0.80	UG/L		
E-101	Sample	11/5/2013	250555-001	1,1-Dichloroethene	0.80	UG/L		0.00
E-17	Duplicate	11/5/2013	250558-010	1,1-Dichloroethene	1.10	UG/L		
E-17	Sample	11/5/2013	250558-009	1,1-Dichloroethene	1.20	UG/L		-8.70
GAC-02	Duplicate	11/5/2013	250555-004	1,1-Dichloroethene	<0.5	UG/L		
GAC-02	Sample	11/5/2013	250555-003	1,1-Dichloroethene	<0.5	UG/L		0.00
NEW-01	Duplicate	11/5/2013	250555-011	1,1-Dichloroethene	<0.5	UG/L		
NEW-01	Sample	11/5/2013	250555-010	1,1-Dichloroethene	<0.5	UG/L		0.00
E-101	Duplicate	11/5/2013	250555-002	1,2-Dichlorobenzene	<0.5	UG/L		
E-101	Sample	11/5/2013	250555-001	1,2-Dichlorobenzene	<0.5	UG/L		0.00
E-17	Duplicate	11/5/2013	250558-010	1,2-Dichlorobenzene	<0.5	UG/L		
E-17	Sample	11/5/2013	250558-009	1,2-Dichlorobenzene	<0.5	UG/L		0.00
GAC-02	Duplicate	11/5/2013	250555-004	1,2-Dichlorobenzene	<0.5	UG/L		
GAC-02	Sample	11/5/2013	250555-003	1,2-Dichlorobenzene	<0.5	UG/L		0.00
NEW-01	Duplicate	11/5/2013	250555-011	1,2-Dichlorobenzene	<0.5	UG/L		
NEW-01	Sample	11/5/2013	250555-010	1,2-Dichlorobenzene	<0.5	UG/L		0.00
E-101	Duplicate	11/5/2013	250555-002	1,2-Dichloroethane	<0.5	UG/L		
E-101	Sample	11/5/2013	250555-001	1,2-Dichloroethane	<0.5	UG/L		0.00
E-17	Duplicate	11/5/2013	250558-010	1,2-Dichloroethane	<0.5	UG/L		
E-17	Sample	11/5/2013	250558-009	1,2-Dichloroethane	<0.5	UG/L		0.00
GAC-02	Duplicate	11/5/2013	250555-004	1,2-Dichloroethane	<0.5	UG/L		
GAC-02	Sample	11/5/2013	250555-003	1,2-Dichloroethane	<0.5	UG/L		0.00
NEW-01	Duplicate	11/5/2013	250555-011	1,2-Dichloroethane	<0.5	UG/L		
NEW-01	Sample	11/5/2013	250555-010	1,2-Dichloroethane	<0.5	UG/L		0.00
E-101	Duplicate	11/5/2013	250555-002	1,2-Dichloroethane-d4	90.00	%REC		
E-101	Sample	11/5/2013	250555-001	1,2-Dichloroethane-d4	93.00	%REC		-3.28
E-17	Duplicate	11/5/2013	250558-010	1,2-Dichloroethane-d4	103.00	%REC		
E-17	Sample	11/5/2013	250558-009	1,2-Dichloroethane-d4	103.00	%REC		0.00
GAC-02	Sample	11/5/2013	250555-003	1,2-Dichloroethane-d4	90.00	%REC		
GAC-02	Duplicate	11/5/2013	250555-004	1,2-Dichloroethane-d4	92.00	%REC		-2.20
NEW-01	Duplicate	11/5/2013	250555-011	1,2-Dichloroethane-d4	92.00	%REC		
NEW-01	Sample	11/5/2013	250555-010	1,2-Dichloroethane-d4	93.00	%REC		-1.08
E-101	Duplicate	11/5/2013	250555-002	1,2-Dichloropropane	<0.5	UG/L		
E-101	Sample	11/5/2013	250555-001	1,2-Dichloropropane	<0.5	UG/L		0.00
E-17	Duplicate	11/5/2013	250558-010	1,2-Dichloropropane	<0.5	UG/L		
E-17	Sample	11/5/2013	250558-009	1,2-Dichloropropane	<0.5	UG/L		0.00
GAC-02	Duplicate	11/5/2013	250555-004	1,2-Dichloropropane	<0.5	UG/L		
GAC-02	Sample	11/5/2013	250555-003	1,2-Dichloropropane	<0.5	UG/L		0.00
NEW-01	Duplicate	11/5/2013	250555-011	1,2-Dichloropropane	<0.5	UG/L		
NEW-01	Sample	11/5/2013	250555-010	1,2-Dichloropropane	<0.5	UG/L		0.00
E-101	Duplicate	11/5/2013	250555-002	1,3-Dichlorobenzene	<0.5	UG/L		
E-101	Sample	11/5/2013	250555-001	1,3-Dichlorobenzene	<0.5	UG/L		0.00
E-17	Duplicate	11/5/2013	250558-010	1,3-Dichlorobenzene	<0.5	UG/L		
E-17	Sample	11/5/2013	250558-009	1,3-Dichlorobenzene	<0.5	UG/L		0.00
GAC-02	Duplicate	11/5/2013	250555-004	1,3-Dichlorobenzene	<0.5	UG/L		
GAC-02	Sample	11/5/2013	250555-003	1,3-Dichlorobenzene	<0.5	UG/L		0.00
NEW-01	Duplicate	11/5/2013	250555-011	1,3-Dichlorobenzene	<0.5	UG/L		
NEW-01	Sample	11/5/2013	250555-010	1,3-Dichlorobenzene	<0.5	UG/L		0.00
E-101	Duplicate	11/5/2013	250555-002	1,4-Dichlorobenzene	<0.5	UG/L		
E-101	Sample	11/5/2013	250555-001	1,4-Dichlorobenzene	<0.5	UG/L		0.00
E-17	Duplicate	11/5/2013	250558-010	1,4-Dichlorobenzene	<0.5	UG/L		
E-17	Sample	11/5/2013	250558-009	1,4-Dichlorobenzene	<0.5	UG/L		0.00
GAC-02	Duplicate	11/5/2013	250555-004	1,4-Dichlorobenzene	<0.5	UG/L		
GAC-02	Sample	11/5/2013	250555-003	1,4-Dichlorobenzene	<0.5	UG/L		0.00
NEW-01	Duplicate	11/5/2013	250555-011	1,4-Dichlorobenzene	<0.5	UG/L		
NEW-01	Sample	11/5/2013	250555-010	1,4-Dichlorobenzene	<0.5	UG/L		0.00
E-101	Duplicate	11/5/2013	250555-002	Bromodichloromethane	<0.5	UG/L		
E-101	Sample	11/5/2013	250555-001	Bromodichloromethane	<0.5	UG/L		0.00
E-17	Duplicate	11/5/2013	250558-010	Bromodichloromethane	<0.5	UG/L		
E-17	Sample	11/5/2013	250558-009	Bromodichloromethane	<0.5	UG/L		0.00

Attachment B Table 4. Duplicate Sample Comparison
July 1, 2013 - December 31, 2013
PGA-South

Sample ID	Sample Type	Sample Date	Laboratory Sample Number	Analyte	Result	Units	ADEQ Qualification	Calculated RPD (%)
GAC-02	Duplicate	11/5/2013	250555-004	Bromodichloromethane	<0.5	UG/L		
GAC-02	Sample	11/5/2013	250555-003	Bromodichloromethane	<0.5	UG/L		0.00
NEW-01	Duplicate	11/5/2013	250555-011	Bromodichloromethane	<0.5	UG/L		
NEW-01	Sample	11/5/2013	250555-010	Bromodichloromethane	<0.5	UG/L		0.00
E-101	Duplicate	11/5/2013	250555-002	Bromofluorobenzene	100.00	%REC		
E-101	Sample	11/5/2013	250555-001	Bromofluorobenzene	100.00	%REC		0.00
E-17	Sample	11/5/2013	250558-009	Bromofluorobenzene	97.00	%REC		
E-17	Duplicate	11/5/2013	250558-010	Bromofluorobenzene	98.00	%REC		-1.03
GAC-02	Duplicate	11/5/2013	250555-004	Bromofluorobenzene	99.00	%REC		
GAC-02	Sample	11/5/2013	250555-003	Bromofluorobenzene	100.00	%REC		-1.01
NEW-01	Duplicate	11/5/2013	250555-011	Bromofluorobenzene	99.00	%REC		
NEW-01	Sample	11/5/2013	250555-010	Bromofluorobenzene	99.00	%REC		0.00
E-101	Duplicate	11/5/2013	250555-002	Bromoform	<0.5	UG/L		
E-101	Sample	11/5/2013	250555-001	Bromoform	<0.5	UG/L		0.00
E-17	Duplicate	11/5/2013	250558-010	Bromoform	<0.5	UG/L		
E-17	Sample	11/5/2013	250558-009	Bromoform	<0.5	UG/L		0.00
GAC-02	Duplicate	11/5/2013	250555-004	Bromoform	<0.5	UG/L		
GAC-02	Sample	11/5/2013	250555-003	Bromoform	<0.5	UG/L		0.00
NEW-01	Duplicate	11/5/2013	250555-011	Bromoform	<0.5	UG/L		
NEW-01	Sample	11/5/2013	250555-010	Bromoform	<0.5	UG/L		0.00
E-101	Duplicate	11/5/2013	250555-002	Bromomethane	<1.0	UG/L	V1	
E-101	Sample	11/5/2013	250555-001	Bromomethane	<1.0	UG/L	V1	0.00
E-17	Duplicate	11/5/2013	250558-010	Bromomethane	<1.0	UG/L	V1	
E-17	Sample	11/5/2013	250558-009	Bromomethane	<1.0	UG/L	V1	0.00
GAC-02	Duplicate	11/5/2013	250555-004	Bromomethane	<1.0	UG/L	V1	
GAC-02	Sample	11/5/2013	250555-003	Bromomethane	<1.0	UG/L	V1	0.00
NEW-01	Duplicate	11/5/2013	250555-011	Bromomethane	<1.0	UG/L	V1	
NEW-01	Sample	11/5/2013	250555-010	Bromomethane	<1.0	UG/L	V1	0.00
E-101	Duplicate	11/5/2013	250555-002	Carbon tetrachloride	0.4 J	UG/L	E4	
E-101	Sample	11/5/2013	250555-001	Carbon tetrachloride	0.4 J	UG/L	E4	0.00
E-17	Duplicate	11/5/2013	250558-010	Carbon tetrachloride	0.5 J	UG/L	E4	
E-17	Sample	11/5/2013	250558-009	Carbon tetrachloride	0.5 J	UG/L	E4	0.00
GAC-02	Duplicate	11/5/2013	250555-004	Carbon tetrachloride	<0.5	UG/L		
GAC-02	Sample	11/5/2013	250555-003	Carbon tetrachloride	<0.5	UG/L		0.00
NEW-01	Duplicate	11/5/2013	250555-011	Carbon tetrachloride	<0.5	UG/L		
NEW-01	Sample	11/5/2013	250555-010	Carbon tetrachloride	<0.5	UG/L		0.00
E-101	Duplicate	11/5/2013	250555-002	Chlorobenzene	<0.5	UG/L		
E-101	Sample	11/5/2013	250555-001	Chlorobenzene	<0.5	UG/L		0.00
E-17	Duplicate	11/5/2013	250558-010	Chlorobenzene	<0.5	UG/L		
E-17	Sample	11/5/2013	250558-009	Chlorobenzene	<0.5	UG/L		0.00
GAC-02	Duplicate	11/5/2013	250555-004	Chlorobenzene	<0.5	UG/L		
GAC-02	Sample	11/5/2013	250555-003	Chlorobenzene	<0.5	UG/L		0.00
NEW-01	Duplicate	11/5/2013	250555-011	Chlorobenzene	<0.5	UG/L		
NEW-01	Sample	11/5/2013	250555-010	Chlorobenzene	<0.5	UG/L		0.00
E-101	Duplicate	11/5/2013	250555-002	Chloroethane	<1.0	UG/L		
E-101	Sample	11/5/2013	250555-001	Chloroethane	<1.0	UG/L		0.00
E-17	Duplicate	11/5/2013	250558-010	Chloroethane	<1.0	UG/L		
E-17	Sample	11/5/2013	250558-009	Chloroethane	<1.0	UG/L		0.00
GAC-02	Duplicate	11/5/2013	250555-004	Chloroethane	<1.0	UG/L		
GAC-02	Sample	11/5/2013	250555-003	Chloroethane	<1.0	UG/L		0.00
NEW-01	Duplicate	11/5/2013	250555-011	Chloroethane	<1.0	UG/L		
NEW-01	Sample	11/5/2013	250555-010	Chloroethane	<1.0	UG/L		0.00
E-101	Duplicate	11/5/2013	250555-002	Chloroform	0.3 J	UG/L	E4	
E-101	Sample	11/5/2013	250555-001	Chloroform	0.3 J	UG/L	E4	0.00
E-17	Duplicate	11/5/2013	250558-010	Chloroform	1.00	UG/L		
E-17	Sample	11/5/2013	250558-009	Chloroform	1.0 J	UG/L	E4	0.00
GAC-02	Duplicate	11/5/2013	250555-004	Chloroform	0.1 J	UG/L	E4, R1	
GAC-02	Sample	11/5/2013	250555-003	Chloroform	0.2 J	UG/L	E4, R1	-66.67
NEW-01	Duplicate	11/5/2013	250555-011	Chloroform	0.1 J	UG/L	E4	
NEW-01	Sample	11/5/2013	250555-010	Chloroform	0.1 J	UG/L	E4	0.00
E-101	Duplicate	11/5/2013	250555-002	Chloromethane	<1.0	UG/L		
E-101	Sample	11/5/2013	250555-001	Chloromethane	<1.0	UG/L		0.00
E-17	Duplicate	11/5/2013	250558-010	Chloromethane	<1.0	UG/L	V1	
E-17	Sample	11/5/2013	250558-009	Chloromethane	<1.0	UG/L	V1	0.00
GAC-02	Duplicate	11/5/2013	250555-004	Chloromethane	<1.0	UG/L		
GAC-02	Sample	11/5/2013	250555-003	Chloromethane	<1.0	UG/L		0.00
NEW-01	Duplicate	11/5/2013	250555-011	Chloromethane	<1.0	UG/L		
NEW-01	Sample	11/5/2013	250555-010	Chloromethane	<1.0	UG/L		0.00
E-101	Duplicate	11/5/2013	250555-002	Chromium	430 J	UG/L	R1	
E-101	Sample	11/5/2013	250555-001	Chromium	940 J	UG/L	R1	-74.45

Attachment B Table 4. Duplicate Sample Comparison
July 1, 2013 - December 31, 2013
PGA-South

Sample ID	Sample Type	Sample Date	Laboratory Sample Number	Analyte	Result	Units	ADEQ Qualification	Calculated RPD (%)
E-17	Duplicate	11/5/2013	250558-010	Chromium	140.00	UG/L		
E-17	Sample	11/5/2013	250558-009	Chromium	140.00	UG/L		0.00
GAC-02	Duplicate	11/5/2013	250555-004	Chromium	16.00	UG/L		
GAC-02	Sample	11/5/2013	250555-003	Chromium	16.00	UG/L		0.00
E-101	Duplicate	11/5/2013	250555-002	Chromium, Dissolved	5.80	UG/L		
E-101	Sample	11/5/2013	250555-001	Chromium, Dissolved	5.80	UG/L		0.00
E-17	Duplicate	11/5/2013	250558-010	Chromium, Dissolved	2.1 J	UG/L	E4	
E-17	Sample	11/5/2013	250558-009	Chromium, Dissolved	2.4 J	UG/L	E4	-13.33
GAC-02	Duplicate	11/5/2013	250555-004	Chromium, Dissolved	9.70	UG/L		
GAC-02	Sample	11/5/2013	250555-003	Chromium, Dissolved	11.00	UG/L		-12.56
E-101	Duplicate	11/5/2013	250555-002	cis-1,2-Dichloroethene	<0.5	UG/L		
E-101	Sample	11/5/2013	250555-001	cis-1,2-Dichloroethene	<0.5	UG/L		0.00
E-17	Duplicate	11/5/2013	250558-010	cis-1,2-Dichloroethene	<0.5	UG/L		
E-17	Sample	11/5/2013	250558-009	cis-1,2-Dichloroethene	<0.5	UG/L		0.00
GAC-02	Duplicate	11/5/2013	250555-004	cis-1,2-Dichloroethene	<0.5	UG/L		
GAC-02	Sample	11/5/2013	250555-003	cis-1,2-Dichloroethene	<0.5	UG/L		0.00
NEW-01	Duplicate	11/5/2013	250555-011	cis-1,2-Dichloroethene	<0.5	UG/L		
NEW-01	Sample	11/5/2013	250555-010	cis-1,2-Dichloroethene	<0.5	UG/L		0.00
E-101	Duplicate	11/5/2013	250555-002	cis-1,3-Dichloropropene	<0.5	UG/L		
E-101	Sample	11/5/2013	250555-001	cis-1,3-Dichloropropene	<0.5	UG/L		0.00
E-17	Duplicate	11/5/2013	250558-010	cis-1,3-Dichloropropene	<0.5	UG/L		
E-17	Sample	11/5/2013	250558-009	cis-1,3-Dichloropropene	<0.5	UG/L		0.00
GAC-02	Duplicate	11/5/2013	250555-004	cis-1,3-Dichloropropene	<0.5	UG/L		
GAC-02	Sample	11/5/2013	250555-003	cis-1,3-Dichloropropene	<0.5	UG/L		0.00
NEW-01	Duplicate	11/5/2013	250555-011	cis-1,3-Dichloropropene	<0.5	UG/L		
NEW-01	Sample	11/5/2013	250555-010	cis-1,3-Dichloropropene	<0.5	UG/L		0.00
E-101	Duplicate	11/5/2013	250555-002	Dibromochloromethane	<0.5	UG/L		
E-101	Sample	11/5/2013	250555-001	Dibromochloromethane	<0.5	UG/L		0.00
E-17	Duplicate	11/5/2013	250558-010	Dibromochloromethane	<0.5	UG/L		
E-17	Sample	11/5/2013	250558-009	Dibromochloromethane	<0.5	UG/L		0.00
GAC-02	Duplicate	11/5/2013	250555-004	Dibromochloromethane	<0.5	UG/L		
GAC-02	Sample	11/5/2013	250555-003	Dibromochloromethane	<0.5	UG/L		0.00
NEW-01	Duplicate	11/5/2013	250555-011	Dibromochloromethane	<0.5	UG/L		
NEW-01	Sample	11/5/2013	250555-010	Dibromochloromethane	<0.5	UG/L		0.00
E-101	Duplicate	11/5/2013	250555-002	Methylene Chloride	<20	UG/L		
E-101	Sample	11/5/2013	250555-001	Methylene Chloride	<20	UG/L		0.00
E-17	Duplicate	11/5/2013	250558-010	Methylene Chloride	<20	UG/L		
E-17	Sample	11/5/2013	250558-009	Methylene Chloride	<20	UG/L		0.00
GAC-02	Duplicate	11/5/2013	250555-004	Methylene Chloride	<20	UG/L		
GAC-02	Sample	11/5/2013	250555-003	Methylene Chloride	<20	UG/L		0.00
NEW-01	Duplicate	11/5/2013	250555-011	Methylene Chloride	<20	UG/L		
NEW-01	Sample	11/5/2013	250555-010	Methylene Chloride	<20	UG/L		0.00
E-101	Duplicate	11/5/2013	250555-002	Tetrachloroethene	<0.5	UG/L		
E-101	Sample	11/5/2013	250555-001	Tetrachloroethene	<0.5	UG/L		0.00
E-17	Duplicate	11/5/2013	250558-010	Tetrachloroethene	2.80	UG/L		
E-17	Sample	11/5/2013	250558-009	Tetrachloroethene	2.90	UG/L		-3.51
GAC-02	Duplicate	11/5/2013	250555-004	Tetrachloroethene	<0.5	UG/L		
GAC-02	Sample	11/5/2013	250555-003	Tetrachloroethene	<0.5	UG/L		0.00
NEW-01	Duplicate	11/5/2013	250555-011	Tetrachloroethene	<0.5	UG/L		
NEW-01	Sample	11/5/2013	250555-010	Tetrachloroethene	<0.5	UG/L		0.00
E-101	Duplicate	11/5/2013	250555-002	Toluene-d8	97.00	%REC		
E-101	Sample	11/5/2013	250555-001	Toluene-d8	97.00	%REC		0.00
E-17	Sample	11/5/2013	250558-009	Toluene-d8	98.00	%REC		
E-17	Duplicate	11/5/2013	250558-010	Toluene-d8	99.00	%REC		-1.02
GAC-02	Duplicate	11/5/2013	250555-004	Toluene-d8	97.00	%REC		
GAC-02	Sample	11/5/2013	250555-003	Toluene-d8	97.00	%REC		0.00
NEW-01	Duplicate	11/5/2013	250555-011	Toluene-d8	97.00	%REC		
NEW-01	Sample	11/5/2013	250555-010	Toluene-d8	97.00	%REC		0.00
E-101	Duplicate	11/5/2013	250555-002	trans-1,2-Dichloroethene	<0.5	UG/L		
E-101	Sample	11/5/2013	250555-001	trans-1,2-Dichloroethene	<0.5	UG/L		0.00
E-17	Duplicate	11/5/2013	250558-010	trans-1,2-Dichloroethene	<0.5	UG/L		
E-17	Sample	11/5/2013	250558-009	trans-1,2-Dichloroethene	<0.5	UG/L		0.00
GAC-02	Duplicate	11/5/2013	250555-004	trans-1,2-Dichloroethene	<0.5	UG/L		
GAC-02	Sample	11/5/2013	250555-003	trans-1,2-Dichloroethene	<0.5	UG/L		0.00
NEW-01	Duplicate	11/5/2013	250555-011	trans-1,2-Dichloroethene	<0.5	UG/L		
NEW-01	Sample	11/5/2013	250555-010	trans-1,2-Dichloroethene	<0.5	UG/L		0.00
E-101	Duplicate	11/5/2013	250555-002	trans-1,3-Dichloropropene	<0.5	UG/L		
E-101	Sample	11/5/2013	250555-001	trans-1,3-Dichloropropene	<0.5	UG/L		0.00
E-17	Duplicate	11/5/2013	250558-010	trans-1,3-Dichloropropene	<0.5	UG/L		
E-17	Sample	11/5/2013	250558-009	trans-1,3-Dichloropropene	<0.5	UG/L		0.00

Attachment B Table 4. Duplicate Sample Comparison
July 1, 2013 - December 31, 2013
PGA-South

Sample ID	Sample Type	Sample Date	Laboratory Sample Number	Analyte	Result	Units	ADEQ Qualification	Calculated RPD (%)
GAC-02	Duplicate	11/5/2013	250555-004	trans-1,3-Dichloropropene	<0.5	UG/L		
GAC-02	Sample	11/5/2013	250555-003	trans-1,3-Dichloropropene	<0.5	UG/L		0.00
NEW-01	Duplicate	11/5/2013	250555-011	trans-1,3-Dichloropropene	<0.5	UG/L		
NEW-01	Sample	11/5/2013	250555-010	trans-1,3-Dichloropropene	<0.5	UG/L		0.00
E-101	Duplicate	11/5/2013	250555-002	Trichloroethene	23.00	UG/L		
E-101	Sample	11/5/2013	250555-001	Trichloroethene	23.00	UG/L		0.00
E-17	Duplicate	11/5/2013	250558-010	Trichloroethene	29.00	UG/L		
E-17	Sample	11/5/2013	250558-009	Trichloroethene	29.00	UG/L		0.00
GAC-02	Duplicate	11/5/2013	250555-004	Trichloroethene	2.30	UG/L		
GAC-02	Sample	11/5/2013	250555-003	Trichloroethene	2.70	UG/L		-16.00
NEW-01	Duplicate	11/5/2013	250555-011	Trichloroethene	5.80	UG/L		
NEW-01	Sample	11/5/2013	250555-010	Trichloroethene	6.50	UG/L		-11.38
E-101	Duplicate	11/5/2013	250555-002	Trichlorofluoromethane	<1.0	UG/L		
E-101	Sample	11/5/2013	250555-001	Trichlorofluoromethane	<1.0	UG/L		0.00
E-17	Duplicate	11/5/2013	250558-010	Trichlorofluoromethane	<1.0	UG/L		
E-17	Sample	11/5/2013	250558-009	Trichlorofluoromethane	<1.0	UG/L		0.00
GAC-02	Duplicate	11/5/2013	250555-004	Trichlorofluoromethane	<1.0	UG/L		
GAC-02	Sample	11/5/2013	250555-003	Trichlorofluoromethane	<1.0	UG/L		0.00
NEW-01	Duplicate	11/5/2013	250555-011	Trichlorofluoromethane	<1.0	UG/L		
NEW-01	Sample	11/5/2013	250555-010	Trichlorofluoromethane	<1.0	UG/L		0.00
E-101	Duplicate	11/5/2013	250555-002	Vinyl chloride	<0.5	UG/L		
E-101	Sample	11/5/2013	250555-001	Vinyl chloride	<0.5	UG/L		0.00
E-17	Duplicate	11/5/2013	250558-010	Vinyl chloride	<0.5	UG/L		
E-17	Sample	11/5/2013	250558-009	Vinyl chloride	<0.5	UG/L		0.00
GAC-02	Duplicate	11/5/2013	250555-004	Vinyl chloride	<0.5	UG/L		
GAC-02	Sample	11/5/2013	250555-003	Vinyl chloride	<0.5	UG/L		0.00
NEW-01	Duplicate	11/5/2013	250555-011	Vinyl chloride	<0.5	UG/L		
NEW-01	Sample	11/5/2013	250555-010	Vinyl chloride	<0.5	UG/L		0.00
E-17	Duplicate	12/2/2013	251273-010	1,1,1-Trichloroethane	<0.5	UG/L		
E-17	Sample	12/2/2013	251273-009	1,1,1-Trichloroethane	<0.5	UG/L		0.00
E-17	Duplicate	12/2/2013	251273-010	1,1,2,2-Tetrachloroethane	<0.5	UG/L		
E-17	Sample	12/2/2013	251273-009	1,1,2,2-Tetrachloroethane	<0.5	UG/L		0.00
E-17	Sample	12/2/2013	251273-009	1,1,2-Trichloro-1,2,2-trifluoroethane	7.6 J	UG/L	V2	
E-17	Duplicate	12/2/2013	251273-010	1,1,2-Trichloro-1,2,2-trifluoroethane	7.9 J	UG/L	V2	-3.87
E-17	Duplicate	12/2/2013	251273-010	1,1,2-Trichloroethane	<0.5	UG/L		
E-17	Sample	12/2/2013	251273-009	1,1,2-Trichloroethane	<0.5	UG/L		0.00
E-17	Duplicate	12/2/2013	251273-010	1,1-Dichloroethane	<0.5	UG/L		
E-17	Sample	12/2/2013	251273-009	1,1-Dichloroethane	<0.5	UG/L		0.00
E-17	Duplicate	12/2/2013	251273-010	1,1-Dichloroethene	1.80	UG/L		
E-17	Sample	12/2/2013	251273-009	1,1-Dichloroethene	1.90	UG/L		-5.41
E-17	Duplicate	12/2/2013	251273-010	1,2-Dichlorobenzene	<0.5	UG/L		
E-17	Sample	12/2/2013	251273-009	1,2-Dichlorobenzene	<0.5	UG/L		0.00
E-17	Duplicate	12/2/2013	251273-010	1,2-Dichloroethane	<0.5	UG/L		
E-17	Sample	12/2/2013	251273-009	1,2-Dichloroethane	<0.5	UG/L		0.00
E-17	Sample	12/2/2013	251273-009	1,2-Dichloroethane-d4	110.00	%REC		
E-17	Duplicate	12/2/2013	251273-010	1,2-Dichloroethane-d4	111.00	%REC		-0.90
E-17	Duplicate	12/2/2013	251273-010	1,2-Dichloropropane	<0.5	UG/L		
E-17	Sample	12/2/2013	251273-009	1,2-Dichloropropane	<0.5	UG/L		0.00
E-17	Duplicate	12/2/2013	251273-010	1,3-Dichlorobenzene	<0.5	UG/L		
E-17	Sample	12/2/2013	251273-009	1,3-Dichlorobenzene	<0.5	UG/L		0.00
E-17	Duplicate	12/2/2013	251273-010	1,4-Dichlorobenzene	<0.5	UG/L		
E-17	Sample	12/2/2013	251273-009	1,4-Dichlorobenzene	<0.5	UG/L		0.00
E-17	Duplicate	12/2/2013	251273-010	Bromodichloromethane	<0.5	UG/L		
E-17	Sample	12/2/2013	251273-009	Bromodichloromethane	<0.5	UG/L		0.00
E-17	Duplicate	12/2/2013	251273-010	Bromofluorobenzene	103.00	%REC		
E-17	Sample	12/2/2013	251273-009	Bromofluorobenzene	103.00	%REC		0.00
E-17	Duplicate	12/2/2013	251273-010	Bromoform	<0.5	UG/L		
E-17	Sample	12/2/2013	251273-009	Bromoform	<0.5	UG/L		0.00
E-17	Duplicate	12/2/2013	251273-010	Bromomethane	<1.0	UG/L		
E-17	Sample	12/2/2013	251273-009	Bromomethane	<1.0	UG/L		0.00
E-17	Duplicate	12/2/2013	251273-010	Carbon tetrachloride	0.4 J	UG/L	E4	
E-17	Sample	12/2/2013	251273-009	Carbon tetrachloride	0.4 J	UG/L	E4	0.00
E-17	Duplicate	12/2/2013	251273-010	Chlorobenzene	<0.5	UG/L		
E-17	Sample	12/2/2013	251273-009	Chlorobenzene	<0.5	UG/L		0.00
E-17	Duplicate	12/2/2013	251273-010	Chloroethane	<1.0	UG/L		
E-17	Sample	12/2/2013	251273-009	Chloroethane	<1.0	UG/L		0.00
E-17	Sample	12/2/2013	251273-009	Chloroform	1.00	UG/L		
E-17	Duplicate	12/2/2013	251273-010	Chloroform	0.9 J	UG/L	E4	10.53
E-17	Duplicate	12/2/2013	251273-010	Chloromethane	<1.0	UG/L		
E-17	Sample	12/2/2013	251273-009	Chloromethane	<1.0	UG/L		0.00

Attachment B Table 4. Duplicate Sample Comparison
July 1, 2013 - December 31, 2013
PGA-South

Sample ID	Sample Type	Sample Date	Laboratory Sample Number	Analyte	Result	Units	ADEQ Qualification	Calculated RPD (%)
E-17	Duplicate	12/2/2013	251273-010	Chromium	140.00	UG/L		
E-17	Sample	12/2/2013	251273-009	Chromium	140.00	UG/L		0.00
E-17	Sample	12/2/2013	251273-009	Chromium, Dissolved	39.00	UG/L		
E-17	Duplicate	12/2/2013	251273-010	Chromium, Dissolved	50.00	UG/L		-24.72
E-17	Sample	12/2/2013	251273-009	cis-1,2-Dichloroethene	0.1 J	UG/L	E4, R1	
E-17	Duplicate	12/2/2013	251273-010	cis-1,2-Dichloroethene	<0.5	UG/L	R1	-133.33
E-17	Duplicate	12/2/2013	251273-010	cis-1,3-Dichloropropene	<0.5	UG/L		
E-17	Sample	12/2/2013	251273-009	cis-1,3-Dichloropropene	<0.5	UG/L		0.00
E-17	Duplicate	12/2/2013	251273-010	Dibromochloromethane	<0.5	UG/L		
E-17	Sample	12/2/2013	251273-009	Dibromochloromethane	<0.5	UG/L		0.00
E-17	Duplicate	12/2/2013	251273-010	Methylene Chloride	<20	UG/L		
E-17	Sample	12/2/2013	251273-009	Methylene Chloride	<20	UG/L		0.00
E-17	Sample	12/2/2013	251273-009	Tetrachloroethene	3.30	UG/L		
E-17	Duplicate	12/2/2013	251273-010	Tetrachloroethene	3.50	UG/L		-5.88
E-17	Sample	12/2/2013	251273-009	Toluene-d8	98.00	%REC		
E-17	Duplicate	12/2/2013	251273-010	Toluene-d8	99.00	%REC		-1.02
E-17	Duplicate	12/2/2013	251273-010	trans-1,2-Dichloroethene	<0.5	UG/L		
E-17	Sample	12/2/2013	251273-009	trans-1,2-Dichloroethene	<0.5	UG/L		0.00
E-17	Duplicate	12/2/2013	251273-010	trans-1,3-Dichloropropene	<0.5	UG/L		
E-17	Sample	12/2/2013	251273-009	trans-1,3-Dichloropropene	<0.5	UG/L		0.00
E-17	Duplicate	12/2/2013	251273-010	Trichloroethene	30.00	UG/L		
E-17	Sample	12/2/2013	251273-009	Trichloroethene	31.00	UG/L		-3.28
E-17	Duplicate	12/2/2013	251273-010	Trichlorofluoromethane	<1.0	UG/L		
E-17	Sample	12/2/2013	251273-009	Trichlorofluoromethane	<1.0	UG/L		0.00
E-17	Duplicate	12/2/2013	251273-010	Vinyl chloride	<0.5	UG/L		
E-17	Sample	12/2/2013	251273-009	Vinyl chloride	<0.5	UG/L		0.00

B1 = Target analyte detected in method blank at or above the method reporting limit.
D1 = Sample required dilution due to matrix.
E4 = Concentration estimated. Analyte was detected below laboratory minimum reporting limit
R1 = RPD/RSD exceeded the method acceptance limit.
R8 = Sample RPD exceeded the method acceptance limit.
V1 = CCV recovery was above method acceptance limits. This target analyte was notdetected in the sample.
V2 = CCV recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V9 = CCV recovery was below method acceptance limits.

Attachment B Table 5. Sample Qualifications Based on Surrogate Recovery
July 1, 2013 - December 31, 2013
PGA-South

Sample Name	Laboratory Sample Number	Sample Date	Analysis Method	Analyte	Result	units	ADEQ Qualification
GAC-02 Effluent	246655-004	7/1/2013	EPA 8260B	Chloroform	0.2 J	ug/L	E4, S1
GAC-02 Influent	246655-003	7/1/2013	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	0.3 J	ug/L	E4, S1
GAC-02 Influent	246655-003	7/1/2013	EPA 8260B	Carbon tetrachloride	0.1 J	ug/L	E4, S1, V1
GAC-02 Influent	246655-003	7/1/2013	EPA 8260B	Chloroform	0.3 J	ug/L	E4, S1
GAC-02 Influent	246655-003	7/1/2013	EPA 8260B	Trichloroethene	2.7 J	ug/L	S1
COG-11	246655-007	7/1/2013	EPA 8260B	Trichloroethene	0.5 J	ug/L	S1

S1 = Surrogate recovery was above laboratory acceptance limits, but within method acceptance limits.

Attachment B Table 6. Sample Qualifications Based on Calibration Outliers
July 1, 2013 - December 31, 2013
PGA-South

Sample Name	Laboratory Sample Number	Sample Date	Laboratory Batch Number	Analysis Method	Analyte	Result	units	ADEQ Qualification
Airstripper Effluent	246655-002	7/1/2013	200418	EPA 8260B	2-Hexanone	<10	UG/L	V1
Airstripper Effluent	246655-002	7/1/2013	200418	EPA 8260B	Acetone	<10	UG/L	V1
Airstripper Effluent	246655-002	7/1/2013	200418	EPA 8260B	Bromomethane	<1.0	UG/L	V9
Airstripper Effluent	246655-002	7/1/2013	200418	EPA 8260B	cis-1,3-Dichloropropene	<0.5	UG/L	V1
Airstripper Effluent	247738-002	8/7/2013	201624	EPA 8260B	1,1,2,2-Tetrachloroethane	<0.5	UG/L	V9
Airstripper Effluent	247738-002	8/7/2013	201624	EPA 8260B	1,2-Dibromo-3-chloropropane	<2.0	UG/L	V9
Airstripper Effluent	247738-002	8/7/2013	201624	EPA 8260B	2-Butanone	<10	UG/L	V9
Airstripper Effluent	247738-002	8/7/2013	201624	EPA 8260B	2-Hexanone	<10	UG/L	V9
Airstripper Effluent	247738-002	8/7/2013	201624	EPA 8260B	4-Methyl-2-pentanone	<10	UG/L	V9
Airstripper Effluent	247738-002	8/7/2013	201624	EPA 8260B	Acetone	<10	UG/L	V1
Airstripper Effluent	247738-002	8/7/2013	201624	EPA 8260B	Bromomethane	<1.0	UG/L	V9
Airstripper Effluent	247738-002	8/7/2013	201624	EPA 8260B	Carbon Disulfide	<0.5	UG/L	V9
Airstripper Effluent	247738-002	8/7/2013	201624	EPA 8260B	Methylene Chloride	<10	UG/L	V9
Airstripper Effluent	247738-002	8/7/2013	201624	EPA 8260B	Vinyl Acetate	<10	UG/L	V9
Airstripper Effluent	248701-002	9/4/2013	202693	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	<2.0	UG/L	V1
Airstripper Effluent	248701-002	9/4/2013	202693	EPA 8260B	1,1-Dichloropropene	<0.5	UG/L	V1
Airstripper Effluent	248701-002	9/4/2013	202693	EPA 8260B	Carbon Disulfide	<0.5	UG/L	V1
Airstripper Effluent	248701-002	9/4/2013	202693	EPA 8260B	Carbon tetrachloride	<0.5	UG/L	V1
Airstripper Effluent	248701-002	9/4/2013	202693	EPA 8260B	Chloromethane	<1.0	UG/L	V9
Airstripper Effluent	248701-002	9/4/2013	202693	EPA 8260B	Dichlorodifluoromethane	<1.0	UG/L	V9
Airstripper Effluent	248701-002	9/4/2013	202693	EPA 8260B	Hexachlorobutadiene	<2.0	UG/L	V1
Airstripper Effluent	248701-002	9/4/2013	202693	EPA 8260B	Vinyl Acetate	<10	UG/L	V1
Airstripper Effluent	249598-002	10/2/2013	203729	EPA 8260B	Bromomethane	<1.0	UG/L	V1
Airstripper Effluent	249598-002	10/2/2013	203729	EPA 8260B	Chloromethane	<1.0	UG/L	V1
Airstripper Effluent	250558-002	11/5/2013	205101	EPA 8260B	2-Butanone	<10	UG/L	V9
Airstripper Effluent	250558-002	11/5/2013	205101	EPA 8260B	2-Hexanone	<10	UG/L	V9
Airstripper Effluent	250558-002	11/5/2013	205101	EPA 8260B	4-Methyl-2-pentanone	<10	UG/L	V9
Airstripper Effluent	250558-002	11/5/2013	205101	EPA 8260B	Acetone	<10	UG/L	V9
Airstripper Effluent	250558-002	11/5/2013	205101	EPA 8260B	Bromomethane	<1.0	UG/L	V1
Airstripper Effluent	250558-002	11/5/2013	205101	EPA 8260B	Chloromethane	<1.0	UG/L	V1
Airstripper Effluent	250558-002	11/5/2013	205101	EPA 8260B	Dichlorodifluoromethane	<1.0	UG/L	V1
Airstripper Effluent	250558-002	11/5/2013	205101	EPA 8260B	Methyl-tert-butyl Ether	<0.5	UG/L	V9
Airstripper Effluent	250558-002	11/5/2013	205101	EPA 8260B	Vinyl Acetate	<10	UG/L	V1
Airstripper Effluent	251273-002	12/2/2013	205691	EPA 8260B	2-Hexanone	<10	UG/L	V9
Airstripper Effluent	251273-002	12/2/2013	205691	EPA 8260B	Acetone	<10	UG/L	V9
Airstripper Effluent	251273-002	12/2/2013	205691	EPA 8260B	Bromochloromethane	<0.5	UG/L	V1
Airstripper Effluent	251273-002	12/2/2013	205691	EPA 8260B	Bromomethane	<1.0	UG/L	V9
Airstripper Effluent	251273-002	12/2/2013	205691	EPA 8260B	Chloromethane	<1.0	UG/L	V1
Airstripper Effluent	251273-002	12/2/2013	205691	EPA 8260B	Dichlorodifluoromethane	<1.0	UG/L	V1
Airstripper Effluent	251273-002	12/2/2013	205691	EPA 8260B	Trichlorofluoromethane	<1.0	UG/L	V9
Airstripper Effluent	251273-002	12/2/2013	205691	EPA 8260B	Vinyl Acetate	<10	UG/L	V1
Airstripper Influent	246655-001	7/1/2013	200508	EPA 8260B	1,2-Dibromo-3-chloropropane	<2.0	UG/L	V9
Airstripper Influent	246655-001	7/1/2013	200508	EPA 8260B	2-Hexanone	<10	UG/L	V9
Airstripper Influent	246655-001	7/1/2013	200508	EPA 8260B	4-Methyl-2-pentanone	<10	UG/L	V9
Airstripper Influent	246655-001	7/1/2013	200508	EPA 8260B	Acetone	<10	UG/L	V9
Airstripper Influent	246655-001	7/1/2013	200508	EPA 8260B	Vinyl Acetate	<10	UG/L	V1
Airstripper Influent	247738-001	8/7/2013	201624	EPA 8260B	1,1,2,2-Tetrachloroethane	<0.5	UG/L	V9
Airstripper Influent	247738-001	8/7/2013	201624	EPA 8260B	1,2-Dibromo-3-chloropropane	<2.0	UG/L	V9
Airstripper Influent	247738-001	8/7/2013	201624	EPA 8260B	2-Butanone	<10	UG/L	V9
Airstripper Influent	247738-001	8/7/2013	201624	EPA 8260B	2-Hexanone	<10	UG/L	V9
Airstripper Influent	247738-001	8/7/2013	201624	EPA 8260B	4-Methyl-2-pentanone	<10	UG/L	V9
Airstripper Influent	247738-001	8/7/2013	201624	EPA 8260B	Acetone	<10	UG/L	V1
Airstripper Influent	247738-001	8/7/2013	201624	EPA 8260B	Bromomethane	<1.0	UG/L	V9
Airstripper Influent	247738-001	8/7/2013	201624	EPA 8260B	Carbon Disulfide	<0.5	UG/L	V9
Airstripper Influent	247738-001	8/7/2013	201624	EPA 8260B	Methylene Chloride	<10	UG/L	V9
Airstripper Influent	247738-001	8/7/2013	201624	EPA 8260B	Vinyl Acetate	<10	UG/L	V9
Airstripper Influent	248701-001	9/4/2013	202693	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	8.8 J	UG/L	V1
Airstripper Influent	248701-001	9/4/2013	202693	EPA 8260B	1,1-Dichloropropene	<0.5	UG/L	V1
Airstripper Influent	248701-001	9/4/2013	202693	EPA 8260B	Carbon Disulfide	<0.5	UG/L	V1
Airstripper Influent	248701-001	9/4/2013	202693	EPA 8260B	Carbon tetrachloride	0.6 J	UG/L	V1
Airstripper Influent	248701-001	9/4/2013	202693	EPA 8260B	Chloromethane	<1.0	UG/L	V9
Airstripper Influent	248701-001	9/4/2013	202693	EPA 8260B	Dichlorodifluoromethane	<1.0	UG/L	V9
Airstripper Influent	248701-001	9/4/2013	202693	EPA 8260B	Hexachlorobutadiene	<2.0	UG/L	V1
Airstripper Influent	248701-001	9/4/2013	202693	EPA 8260B	Vinyl Acetate	<10	UG/L	V1
Airstripper Influent	249598-001	10/2/2013	203729	EPA 8260B	Bromomethane	<1.0	UG/L	V1
Airstripper Influent	249598-001	10/2/2013	203729	EPA 8260B	Chloromethane	<1.0	UG/L	V1
Airstripper Influent	250558-001	11/5/2013	205101	EPA 8260B	2-Butanone	<10	UG/L	V9
Airstripper Influent	250558-001	11/5/2013	205101	EPA 8260B	2-Hexanone	<10	UG/L	V9
Airstripper Influent	250558-001	11/5/2013	205101	EPA 8260B	4-Methyl-2-pentanone	<10	UG/L	V9
Airstripper Influent	250558-001	11/5/2013	205101	EPA 8260B	Acetone	<10	UG/L	V9

Attachment B Table 6. Sample Qualifications Based on Calibration Outliers
July 1, 2013 - December 31, 2013
PGA-South

Sample Name	Laboratory Sample Number	Sample Date	Laboratory Batch Number	Analysis Method	Analyte	Result	units	ADEQ Qualification
Airstripper Influent	250558-001	11/5/2013	205101	EPA 8260B	Bromomethane	<1.0	UG/L	V1
Airstripper Influent	250558-001	11/5/2013	205101	EPA 8260B	Chloromethane	<1.0	UG/L	V1
Airstripper Influent	250558-001	11/5/2013	205101	EPA 8260B	Dichlorodifluoromethane	<1.0	UG/L	V1
Airstripper Influent	250558-001	11/5/2013	205101	EPA 8260B	Vinyl Acetate	<10	UG/L	V1
Airstripper Influent	251273-001	12/2/2013	205734	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	6.8 J	UG/L	V2
Airstripper Influent	251273-001	12/2/2013	205734	EPA 8260B	1,1-Dichloropropene	<0.5	UG/L	V1
Airstripper Influent	251273-001	12/2/2013	205734	EPA 8260B	1,2,4-Trichlorobenzene	<0.5	UG/L	V1
Airstripper Influent	251273-001	12/2/2013	205734	EPA 8260B	Carbon Disulfide	<0.5	UG/L	V1
Airstripper Influent	251273-001	12/2/2013	205734	EPA 8260B	Dichlorodifluoromethane	<1.0	UG/L	V1
Airstripper Influent	251273-001	12/2/2013	205734	EPA 8260B	Hexachlorobutadiene	<2.0	UG/L	V1
Airstripper Influent	251273-001	12/2/2013	205734	EPA 8260B	Naphthalene	<2.0	UG/L	V1
Airstripper Influent	251273-001	12/2/2013	205734	EPA 8260B	Vinyl Acetate	<10	UG/L	V1
COG-05	247736-004	8/7/2013	201577	EPA 8260B	1,1,2,2-Tetrachloroethane	<0.5	UG/L	V1
COG-05	247736-004	8/7/2013	201577	EPA 8260B	1,1-Dichloroethane	<0.5	UG/L	V1
COG-05	247736-004	8/7/2013	201577	EPA 8260B	Bromomethane	<1.0	UG/L	V1
COG-05	250604-004	11/6/2013	205154	EPA 8260B	1,2-Dichlorobenzene	<0.5	UG/L	V1
COG-05	250604-004	11/6/2013	205154	EPA 8260B	1,3-Dichlorobenzene	<0.5	UG/L	V1
COG-05	250604-004	11/6/2013	205154	EPA 8260B	Bromomethane	<1.0	UG/L	V1
COG-05	250604-004	11/6/2013	205154	EPA 8260B	Trichlorofluoromethane	<1.0	UG/L	V1
COG-11	246655-007	7/1/2013	200409	EPA 8260B	Bromomethane	<1.0	UG/L	V1
COG-11	246655-007	7/1/2013	200409	EPA 8260B	Carbon tetrachloride	<0.5	UG/L	V1
COG-11	246655-007	7/1/2013	200409	EPA 8260B	Chloroethane	<1.0	UG/L	V1
COG-11	247738-007	8/7/2013	201561	EPA 8260B	1,1-Dichloroethane	<0.5	UG/L	V9
COG-11	247738-007	8/7/2013	201561	EPA 8260B	Bromomethane	<1.0	UG/L	V9
COG-11	247738-007	8/7/2013	201561	EPA 8260B	Chloromethane	<1.0	UG/L	V9
COG-11	248701-007	9/4/2013	202696	EPA 8260B	1,1,2,2-Tetrachloroethane	<0.5	UG/L	V9
COG-11	248701-007	9/4/2013	202696	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	<2.0	UG/L	V1
COG-11	248701-007	9/4/2013	202696	EPA 8260B	Bromomethane	<1.0	UG/L	V1, V9
COG-11	248701-007	9/4/2013	202696	EPA 8260B	Chloromethane	<1.0	UG/L	V9
COG-11	249598-007	10/2/2013	203788	EPA 8260B	Chloromethane	<1.0	UG/L	V1
COG-11	250558-007	11/5/2013	205101	EPA 8260B	Bromomethane	<1.0	UG/L	V1
COG-11	250558-007	11/5/2013	205101	EPA 8260B	Chloromethane	<1.0	UG/L	V1
COG-11	251273-007	12/2/2013	205734	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	0.2 J	UG/L	E4, V2
COG-20	246655-006	7/1/2013	200418	EPA 8260B	Bromomethane	<1.0	UG/L	V9
COG-20	246655-006	7/1/2013	200418	EPA 8260B	cis-1,3-Dichloropropene	<0.5	UG/L	V1
COG-20	247738-006	8/7/2013	201561	EPA 8260B	1,1-Dichloroethane	<0.5	UG/L	V9
COG-20	247738-006	8/7/2013	201561	EPA 8260B	Bromomethane	<1.0	UG/L	V9
COG-20	247738-006	8/7/2013	201561	EPA 8260B	Chloromethane	<1.0	UG/L	V9
COG-20	248701-006	9/4/2013	202696	EPA 8260B	1,1,2,2-Tetrachloroethane	<0.5	UG/L	V9
COG-20	248701-006	9/4/2013	202696	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	<2.0	UG/L	V1
COG-20	248701-006	9/4/2013	202696	EPA 8260B	Bromomethane	<1.0	UG/L	V1, V9
COG-20	248701-006	9/4/2013	202696	EPA 8260B	Chloromethane	<1.0	UG/L	V9
COG-20	249598-006	10/2/2013	203788	EPA 8260B	Chloromethane	<1.0	UG/L	V1
COG-20	250558-006	11/5/2013	205101	EPA 8260B	Bromomethane	<1.0	UG/L	V1
COG-20	250558-006	11/5/2013	205101	EPA 8260B	Chloromethane	<1.0	UG/L	V1
COG-20	251273-006	12/2/2013	205784	EPA 8260B	Bromomethane	<1.0	UG/L	V9
E-03	247902-012	8/9/2013	201675	EPA 8260B	Bromoform	<0.5	UG/L	V1
E-03	247902-012	8/9/2013	201675	EPA 8260B	Bromomethane	<1.0	UG/L	V1
E-03	247902-012	8/9/2013	201675	EPA 8260B	cis-1,3-Dichloropropene	<0.5	UG/L	V1
E-03	247902-012	8/9/2013	201675	EPA 8260B	Methylene Chloride	<20	UG/L	V1
E-03	247902-012	8/9/2013	201675	EPA 8260B	Trichlorofluoromethane	<1.0	UG/L	V1
E-04	247902-013	8/9/2013	201675	EPA 8260B	Bromoform	<0.5	UG/L	V1
E-04	247902-013	8/9/2013	201675	EPA 8260B	Bromomethane	<1.0	UG/L	V1
E-04	247902-013	8/9/2013	201675	EPA 8260B	cis-1,3-Dichloropropene	<0.5	UG/L	V1
E-04	247902-013	8/9/2013	201675	EPA 8260B	Methylene Chloride	<20	UG/L	V1
E-04	247902-013	8/9/2013	201675	EPA 8260B	Trichlorofluoromethane	<1.0	UG/L	V1
E-04	250555-014	11/5/2013	205153	EPA 8260B	Bromomethane	<1.0	UG/L	V1
E-07R	246655-005	7/1/2013	200418	EPA 8260B	Bromomethane	<1.0	UG/L	V9
E-07R	246655-005	7/1/2013	200418	EPA 8260B	cis-1,3-Dichloropropene	<0.5	UG/L	V1
E-07R	247738-005	8/7/2013	201561	EPA 8260B	1,1-Dichloroethane	0.1 J	UG/L	E4, V9
E-07R	247738-005	8/7/2013	201561	EPA 8260B	Bromomethane	<1.0	UG/L	V9
E-07R	247738-005	8/7/2013	201561	EPA 8260B	Chloromethane	<1.0	UG/L	V9
E-07R	248701-005	9/4/2013	202693	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	13 J	UG/L	V1
E-07R	248701-005	9/4/2013	202693	EPA 8260B	Carbon tetrachloride	0.4 J	UG/L	E4, V1
E-07R	248701-005	9/4/2013	202693	EPA 8260B	Chloromethane	<1.0	UG/L	V9
E-07R	249598-005	10/2/2013	203729	EPA 8260B	Bromomethane	<1.0	UG/L	V1
E-07R	249598-005	10/2/2013	203729	EPA 8260B	Chloromethane	<1.0	UG/L	V1
E-07R	250558-005	11/5/2013	205101	EPA 8260B	Bromomethane	<1.0	UG/L	V1
E-07R	250558-005	11/5/2013	205101	EPA 8260B	Chloromethane	<1.0	UG/L	V1
E-07R	251273-005	12/2/2013	205734	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	14 J	UG/L	V2

Attachment B Table 6. Sample Qualifications Based on Calibration Outliers
July 1, 2013 - December 31, 2013
PGA-South

Sample Name	Laboratory Sample Number	Sample Date	Laboratory Batch Number	Analysis Method	Analyte	Result	units	ADEQ Qualification
E-101	247736-001	8/7/2013	201624	EPA 8260B	1,1,2,2-Tetrachloroethane	<0.5	UG/L	V1
E-101	247736-001	8/7/2013	201624	EPA 8260B	Bromomethane	<1.0	UG/L	V1
E-101	247736-001	8/7/2013	201624	EPA 8260B	Methylene Chloride	<20	UG/L	V1
E-101	250555-002	11/5/2013	205153	EPA 8260B	Bromomethane	<1.0	UG/L	V1
E-101	250555-001	11/5/2013	205153	EPA 8260B	Bromomethane	<1.0	UG/L	V1
E-102	247736-009	8/7/2013	201577	EPA 8260B	1,1,2,2-Tetrachloroethane	<0.5	UG/L	V1
E-102	247736-009	8/7/2013	201577	EPA 8260B	1,1-Dichloroethane	<0.5	UG/L	V1
E-102	247736-011	8/7/2013	201576	EPA 8260B	Bromoform	<0.5	UG/L	V1
E-102	247736-009	8/7/2013	201577	EPA 8260B	Bromomethane	<1.0	UG/L	V1
E-102	247736-011	8/7/2013	201576	EPA 8260B	Bromomethane	<1.0	UG/L	V1
E-102	247736-011	8/7/2013	201576	EPA 8260B	cis-1,3-Dichloropropene	<0.5	UG/L	V1
E-102	250604-005	11/6/2013	205154	EPA 8260B	1,2-Dichlorobenzene	<0.5	UG/L	V1
E-102	250604-005	11/6/2013	205154	EPA 8260B	1,3-Dichlorobenzene	<0.5	UG/L	V1
E-102	250604-005	11/6/2013	205154	EPA 8260B	Bromomethane	<1.0	UG/L	V1
E-102	250604-005	11/6/2013	205154	EPA 8260B	Trichlorofluoromethane	<1.0	UG/L	V1
E-12	246655-008	7/1/2013	200419	EPA 8260B	Bromomethane	<2.0	UG/L	D2, V9
E-12	247738-008	8/7/2013	201624	EPA 8260B	1,1,2,2-Tetrachloroethane	<1.0	UG/L	D2, V9
E-12	247738-008	8/7/2013	201624	EPA 8260B	Bromomethane	<2.0	UG/L	D2, V9
E-12	247738-008	8/7/2013	201624	EPA 8260B	Methylene Chloride	<40	UG/L	D2, V9
E-12	248701-008	9/4/2013	202696	EPA 8260B	1,1,2,2-Tetrachloroethane	<1.0	UG/L	D1, V9
E-12	248701-008	9/4/2013	202696	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	7.7 J	UG/L	D1, V1
E-12	248701-008	9/4/2013	202696	EPA 8260B	Bromomethane	<2.0	UG/L	D1, V1, V9
E-12	248701-008	9/4/2013	202696	EPA 8260B	Chloromethane	<2.0	UG/L	D1, V9
E-12	249598-008	10/2/2013	203788	EPA 8260B	Chloromethane	<1.0	UG/L	V1
E-12	250558-008	11/5/2013	205183	EPA 8260B	Bromomethane	<1.0	UG/L	V1
E-12	250558-008	11/5/2013	205183	EPA 8260B	Chloromethane	<1.0	UG/L	V1
E-12	251273-008	12/2/2013	205895	EPA 8260B	Bromomethane	<1.0	UG/L	V1
E-17	246655-009	7/1/2013	200419	EPA 8260B	Bromomethane	<1.0	UG/L	V9
E-17	247738-009	8/7/2013	201561	EPA 8260B	1,1-Dichloroethane	<0.5	UG/L	V9
E-17	247738-010	8/7/2013	201561	EPA 8260B	1,1-Dichloroethane	<0.5	UG/L	V9
E-17	247738-010	8/7/2013	201561	EPA 8260B	Bromomethane	<1.0	UG/L	V9
E-17	247738-009	8/7/2013	201561	EPA 8260B	Bromomethane	<1.0	UG/L	V9
E-17	247738-010	8/7/2013	201561	EPA 8260B	Chloromethane	<1.0	UG/L	V9
E-17	247738-009	8/7/2013	201561	EPA 8260B	Chloromethane	<1.0	UG/L	V9
E-17	248701-010	9/4/2013	202696	EPA 8260B	1,1,2,2-Tetrachloroethane	<0.5	UG/L	V9
E-17	248701-009	9/4/2013	202696	EPA 8260B	1,1,2,2-Tetrachloroethane	<0.5	UG/L	V9
E-17	248701-010	9/4/2013	202696	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	6.3 J	UG/L	V1
E-17	248701-009	9/4/2013	202696	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	6.5 J	UG/L	V1
E-17	248701-010	9/4/2013	202696	EPA 8260B	Bromomethane	<1.0	UG/L	V1, V9
E-17	248701-009	9/4/2013	202696	EPA 8260B	Bromomethane	<1.0	UG/L	V1, V9
E-17	248701-010	9/4/2013	202696	EPA 8260B	Chloromethane	<1.0	UG/L	V9
E-17	248701-009	9/4/2013	202696	EPA 8260B	Chloromethane	<1.0	UG/L	V9
E-17	249598-010	10/2/2013	203729	EPA 8260B	Bromomethane	<1.0	UG/L	V1
E-17	249598-009	10/2/2013	203729	EPA 8260B	Bromomethane	<1.0	UG/L	V1
E-17	249598-009	10/2/2013	203729	EPA 8260B	Chloromethane	<1.0	UG/L	V1
E-17	249598-010	10/2/2013	203729	EPA 8260B	Chloromethane	<1.0	UG/L	V1
E-17	250558-010	11/5/2013	205101	EPA 8260B	Bromomethane	<1.0	UG/L	V1
E-17	250558-009	11/5/2013	205101	EPA 8260B	Bromomethane	<1.0	UG/L	V1
E-17	250558-010	11/5/2013	205101	EPA 8260B	Chloromethane	<1.0	UG/L	V1
E-17	250558-009	11/5/2013	205101	EPA 8260B	Chloromethane	<1.0	UG/L	V1
E-17	251273-009	12/2/2013	205734	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	7.6 J	UG/L	V2
E-17	251273-010	12/2/2013	205734	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	7.9 J	UG/L	V2
E-201	247736-008	8/7/2013	201577	EPA 8260B	1,1,2,2-Tetrachloroethane	<0.5	UG/L	V1
E-201	247736-008	8/7/2013	201577	EPA 8260B	1,1-Dichloroethane	<0.5	UG/L	V1
E-201	247736-008	8/7/2013	201577	EPA 8260B	Bromomethane	<1.0	UG/L	V1
E-201	250555-012	11/5/2013	205153	EPA 8260B	Bromomethane	<1.0	UG/L	V1
EMW-03	247818-006	8/8/2013	201672	EPA 8260B	1,1,2,2-Tetrachloroethane	<0.5	UG/L	V1
EMW-03	247818-021	8/8/2013	201683	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	0.8 J	UG/L	E4, R1, v1
EMW-03	247818-006	8/8/2013	201672	EPA 8260B	Bromomethane	<1.0	UG/L	V1
EMW-03	247818-021	8/8/2013	201683	EPA 8260B	Chloroethane	<1.0	UG/L	V1
EMW-06	247818-007	8/8/2013	201672	EPA 8260B	1,1,2,2-Tetrachloroethane	<0.5	UG/L	V1
EMW-06	247818-007	8/8/2013	201672	EPA 8260B	Bromomethane	<1.0	UG/L	V1
EMW-07R	247818-020	8/8/2013	201683	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	<2.0	UG/L	V1
EMW-07R	247818-023	8/8/2013	201683	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	<2.0	UG/L	V1
EMW-07R	247818-023	8/8/2013	201683	EPA 8260B	Chloroethane	<1.0	UG/L	V1
EMW-07R	247818-020	8/8/2013	201683	EPA 8260B	Chloroethane	<1.0	UG/L	V1
EMW-08R	247818-008	8/8/2013	201672	EPA 8260B	1,1,2,2-Tetrachloroethane	<0.5	UG/L	V1
EMW-08R	247818-008	8/8/2013	201672	EPA 8260B	Bromomethane	<1.0	UG/L	V1
EMW-10R	247818-009	8/8/2013	201624	EPA 8260B	1,1,2,2-Tetrachloroethane	<2.5	UG/L	D2, V1
EMW-10R	247818-009	8/8/2013	201624	EPA 8260B	Bromomethane	<5.0	UG/L	D2, V1

Attachment B Table 6. Sample Qualifications Based on Calibration Outliers
July 1, 2013 - December 31, 2013
PGA-South

Sample Name	Laboratory Sample Number	Sample Date	Laboratory Batch Number	Analysis Method	Analyte	Result	units	ADEQ Qualification
EMW-10R	247818-009	8/8/2013	201624	EPA 8260B	Methylene Chloride	<100	UG/L	D2, V1
EMW-11R	247818-010	8/8/2013	201624	EPA 8260B	1,1,2,2-Tetrachloroethane	<0.5	UG/L	V1
EMW-11R	247818-010	8/8/2013	201624	EPA 8260B	Bromomethane	<1.0	UG/L	V1
EMW-11R	247818-010	8/8/2013	201624	EPA 8260B	Methylene Chloride	<20	UG/L	V1
EMW-12R	247818-014	8/8/2013	201746	EPA 8260B	Chloromethane	<1.0	UG/L	V1
EMW-13	247902-011	8/9/2013	201675	EPA 8260B	Bromoform	<0.5	UG/L	V1
EMW-13	247902-011	8/9/2013	201675	EPA 8260B	Bromomethane	<1.0	UG/L	V1
EMW-13	247902-011	8/9/2013	201675	EPA 8260B	cis-1,3-Dichloropropene	<0.5	UG/L	V1
EMW-13	247902-011	8/9/2013	201675	EPA 8260B	Methylene Chloride	<20	UG/L	V1
EMW-13	247902-011	8/9/2013	201675	EPA 8260B	Trichlorofluoromethane	<1.0	UG/L	V1
EMW-14R	247818-005	8/8/2013	201672	EPA 8260B	1,1,2,2-Tetrachloroethane	<0.5	UG/L	V1
EMW-14R	247818-005	8/8/2013	201672	EPA 8260B	Bromomethane	<1.0	UG/L	V1
EMW-15	247902-016	8/9/2013	201700	EPA 8260B	Bromomethane	<1.0	UG/L	V1
EP-02R	247818-011	8/8/2013	201672	EPA 8260B	1,1,2,2-Tetrachloroethane	<0.5	UG/L	V1
EP-02R	247818-011	8/8/2013	201672	EPA 8260B	Bromomethane	<1.0	UG/L	V1
GAC-02	247736-010	8/7/2013	201577	EPA 8260B	1,1,2,2-Tetrachloroethane	<0.5	UG/L	V1
GAC-02	247736-002	8/7/2013	201577	EPA 8260B	1,1,2,2-Tetrachloroethane	<0.5	UG/L	V1
GAC-02	247736-002	8/7/2013	201577	EPA 8260B	1,1-Dichloroethane	<0.5	UG/L	V1
GAC-02	247736-010	8/7/2013	201577	EPA 8260B	1,1-Dichloroethane	<0.5	UG/L	V1
GAC-02	247736-010	8/7/2013	201577	EPA 8260B	Bromomethane	<1.0	UG/L	V1
GAC-02	247736-002	8/7/2013	201577	EPA 8260B	Bromomethane	<1.0	UG/L	V1
GAC-02	250555-003	11/5/2013	205153	EPA 8260B	Bromomethane	<1.0	UG/L	V1
GAC-02	250555-004	11/5/2013	205153	EPA 8260B	Bromomethane	<1.0	UG/L	V1
GAC-02 Effluent	246655-004	7/1/2013	200409	EPA 8260B	Bromomethane	<1.0	UG/L	V1
GAC-02 Effluent	246655-004	7/1/2013	200409	EPA 8260B	Carbon tetrachloride	<0.5	UG/L	V1
GAC-02 Effluent	246655-004	7/1/2013	200409	EPA 8260B	Chloroethane	<1.0	UG/L	V1
GAC-02 Effluent	247738-004	8/7/2013	201561	EPA 8260B	1,1-Dichloroethane	<0.5	UG/L	V9
GAC-02 Effluent	247738-004	8/7/2013	201561	EPA 8260B	Bromomethane	<1.0	UG/L	V9
GAC-02 Effluent	247738-004	8/7/2013	201561	EPA 8260B	Chloromethane	<1.0	UG/L	V9
GAC-02 Effluent	248701-004	9/4/2013	202693	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	<2.0	UG/L	V1
GAC-02 Effluent	248701-004	9/4/2013	202693	EPA 8260B	Carbon tetrachloride	<0.5	UG/L	V1
GAC-02 Effluent	248701-004	9/4/2013	202693	EPA 8260B	Chloromethane	<1.0	UG/L	V9
GAC-02 Effluent	249598-004	10/2/2013	203729	EPA 8260B	Bromomethane	<1.0	UG/L	V1
GAC-02 Effluent	249598-004	10/2/2013	203729	EPA 8260B	Chloromethane	<1.0	UG/L	V1
GAC-02 Effluent	250558-004	11/5/2013	205101	EPA 8260B	Bromomethane	<1.0	UG/L	V1
GAC-02 Effluent	250558-004	11/5/2013	205101	EPA 8260B	Chloromethane	<1.0	UG/L	V1
GAC-02 Effluent	251273-004	12/2/2013	205784	EPA 8260B	Bromomethane	<1.0	UG/L	V9
GAC-02 Influent	246655-003	7/1/2013	200409	EPA 8260B	Bromomethane	<1.0	UG/L	V1
GAC-02 Influent	246655-003	7/1/2013	200409	EPA 8260B	Carbon tetrachloride	0.1 J	UG/L	E4, S1, V1
GAC-02 Influent	246655-003	7/1/2013	200409	EPA 8260B	Chloroethane	<1.0	UG/L	V1
GAC-02 Influent	247738-003	8/7/2013	201624	EPA 8260B	1,1,2,2-Tetrachloroethane	<0.5	UG/L	V9
GAC-02 Influent	247738-003	8/7/2013	201624	EPA 8260B	Bromomethane	<1.0	UG/L	V9
GAC-02 Influent	247738-003	8/7/2013	201624	EPA 8260B	Methylene Chloride	<20	UG/L	V9
GAC-02 Influent	248701-003	9/4/2013	202734	EPA 8260B	1,1,2,2-Tetrachloroethane	<0.5	UG/L	V9, Q2
GAC-02 Influent	248701-003	9/4/2013	202734	EPA 8260B	1,1-Dichloroethane	<0.5	UG/L	V9, Q2
GAC-02 Influent	248701-003	9/4/2013	202734	EPA 8260B	Bromomethane	<1.0	UG/L	V9, Q2
GAC-02 Influent	249598-003	10/2/2013	203729	EPA 8260B	Bromomethane	<1.0	UG/L	V1
GAC-02 Influent	249598-003	10/2/2013	203729	EPA 8260B	Chloromethane	<1.0	UG/L	V1
GAC-02 Influent	250558-003	11/5/2013	205101	EPA 8260B	Bromomethane	<1.0	UG/L	V1
GAC-02 Influent	250558-003	11/5/2013	205101	EPA 8260B	Chloromethane	<1.0	UG/L	V1
GAC-02 Influent	251273-003	12/2/2013	205734	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	0.4 J	UG/L	E4, V2
GAC-03	247736-003	8/7/2013	201624	EPA 8260B	1,1,2,2-Tetrachloroethane	<0.5	UG/L	V1
GAC-03	247736-003	8/7/2013	201624	EPA 8260B	Bromomethane	<1.0	UG/L	V1
GAC-03	247736-003	8/7/2013	201624	EPA 8260B	Methylene Chloride	<20	UG/L	V1
GAC-03	250555-005	11/5/2013	205153	EPA 8260B	Bromomethane	<1.0	UG/L	V1
GMW-01	247818-001	8/8/2013	201594	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	<2.0	UG/L	V1
GMW-01	247818-001	8/8/2013	201594	EPA 8260B	Carbon tetrachloride	<0.5	UG/L	V1
GMW-01	247818-001	8/8/2013	201594	EPA 8260B	cis-1,3-Dichloropropene	<0.5	UG/L	V1
GMW-01	250604-001	11/6/2013	205154	EPA 8260B	1,2-Dichlorobenzene	<0.5	UG/L	V1
GMW-01	250604-001	11/6/2013	205154	EPA 8260B	1,3-Dichlorobenzene	<0.5	UG/L	V1
GMW-01	250604-001	11/6/2013	205154	EPA 8260B	Bromomethane	<1.0	UG/L	V1
GMW-01	250604-001	11/6/2013	205154	EPA 8260B	Trichlorofluoromethane	<1.0	UG/L	V1
GMW-02	247818-002	8/8/2013	201672	EPA 8260B	1,1,2,2-Tetrachloroethane	<0.5	UG/L	V1
GMW-02	247818-002	8/8/2013	201672	EPA 8260B	Bromomethane	<1.0	UG/L	V1
GMW-02	250604-002	11/6/2013	205154	EPA 8260B	1,2-Dichlorobenzene	<0.5	UG/L	V1
GMW-02	250604-002	11/6/2013	205154	EPA 8260B	1,3-Dichlorobenzene	<0.5	UG/L	V1
GMW-02	250604-002	11/6/2013	205154	EPA 8260B	Bromomethane	<1.0	UG/L	V1
GMW-02	250604-002	11/6/2013	205154	EPA 8260B	Trichlorofluoromethane	<1.0	UG/L	V1
GMW-03	247818-004	8/8/2013	201672	EPA 8260B	1,1,2,2-Tetrachloroethane	<0.5	UG/L	V1
GMW-03	247818-004	8/8/2013	201672	EPA 8260B	Bromomethane	<1.0	UG/L	V1

Attachment B Table 6. Sample Qualifications Based on Calibration Outliers
July 1, 2013 - December 31, 2013
PGA-South

Sample Name	Laboratory Sample Number	Sample Date	Laboratory Batch Number	Analysis Method	Analyte	Result	units	ADEQ Qualification
GMW-09MC	247818-003	8/8/2013	201672	EPA 8260B	1,1,2,2-Tetrachloroethane	<0.5	UG/L	V1
GMW-09MC	247818-003	8/8/2013	201672	EPA 8260B	Bromomethane	<1.0	UG/L	V1
GMW-09MC	250604-003	11/6/2013	205154	EPA 8260B	1,2-Dichlorobenzene	<0.5	UG/L	V1
GMW-09MC	250604-003	11/6/2013	205154	EPA 8260B	1,3-Dichlorobenzene	<0.5	UG/L	V1
GMW-09MC	250604-003	11/6/2013	205154	EPA 8260B	Bromomethane	<1.0	UG/L	V1
GMW-09MC	250604-003	11/6/2013	205154	EPA 8260B	Trichlorofluoromethane	<1.0	UG/L	V1
GMW-10LC	247818-016	8/8/2013	201683	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	<2.0	UG/L	V1
GMW-10LC	247818-016	8/8/2013	201683	EPA 8260B	Chloroethane	<1.0	UG/L	V1
GMW-11UC	247818-018	8/8/2013	201683	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	<4.0	UG/L	D1, V1
GMW-11UC	247818-018	8/8/2013	201683	EPA 8260B	Chloroethane	<2.0	UG/L	D1, V1
GMW-13UC	247818-022	8/8/2013	201683	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	2.6 J	UG/L	V1
GMW-13UC	247818-013	8/8/2013	201683	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	2.8 J	UG/L	V1
GMW-13UC	247818-013	8/8/2013	201683	EPA 8260B	Chloroethane	<1.0	UG/L	V1
GMW-13UC	247818-022	8/8/2013	201683	EPA 8260B	Chloroethane	<1.0	UG/L	V1
GMW-13UC	250604-006	11/6/2013	205154	EPA 8260B	1,2-Dichlorobenzene	<0.5	UG/L	V1
GMW-13UC	250604-006	11/6/2013	205154	EPA 8260B	1,3-Dichlorobenzene	<0.5	UG/L	V1
GMW-13UC	250604-006	11/6/2013	205154	EPA 8260B	Bromomethane	<1.0	UG/L	V1
GMW-13UC	250604-006	11/6/2013	205154	EPA 8260B	Trichlorofluoromethane	<1.0	UG/L	V1
GMW-14UC	247902-004	8/9/2013	201675	EPA 8260B	Bromoform	<0.5	UG/L	V1
GMW-14UC	247902-004	8/9/2013	201675	EPA 8260B	Bromomethane	<1.0	UG/L	V1
GMW-14UC	247902-004	8/9/2013	201675	EPA 8260B	cis-1,3-Dichloropropene	<0.5	UG/L	V1
GMW-14UC	247902-004	8/9/2013	201675	EPA 8260B	Methylene Chloride	<20	UG/L	V1
GMW-14UC	247902-004	8/9/2013	201675	EPA 8260B	Trichlorofluoromethane	<1.0	UG/L	V1
GMW-14UC	250604-007	11/6/2013	205154	EPA 8260B	1,2-Dichlorobenzene	<0.5	UG/L	V1
GMW-14UC	250604-007	11/6/2013	205154	EPA 8260B	1,3-Dichlorobenzene	<0.5	UG/L	V1
GMW-14UC	250604-007	11/6/2013	205154	EPA 8260B	Bromomethane	<1.0	UG/L	V1
GMW-14UC	250604-007	11/6/2013	205154	EPA 8260B	Trichlorofluoromethane	<1.0	UG/L	V1
GMW-15UC	247902-005	8/9/2013	201675	EPA 8260B	Bromoform	<0.5	UG/L	V1
GMW-15UC	247902-005	8/9/2013	201675	EPA 8260B	Bromomethane	<1.0	UG/L	V1
GMW-15UC	247902-005	8/9/2013	201675	EPA 8260B	cis-1,3-Dichloropropene	<0.5	UG/L	V1
GMW-15UC	247902-005	8/9/2013	201675	EPA 8260B	Methylene Chloride	<20	UG/L	V1
GMW-15UC	247902-005	8/9/2013	201675	EPA 8260B	Trichlorofluoromethane	<1.0	UG/L	V1
GMW-15UC	250604-008	11/6/2013	205154	EPA 8260B	1,2-Dichlorobenzene	<0.5	UG/L	V1
GMW-15UC	250604-008	11/6/2013	205154	EPA 8260B	1,3-Dichlorobenzene	<0.5	UG/L	V1
GMW-15UC	250604-008	11/6/2013	205154	EPA 8260B	Bromomethane	<1.0	UG/L	V1
GMW-15UC	250604-008	11/6/2013	205154	EPA 8260B	Trichlorofluoromethane	<1.0	UG/L	V1
GMW-16UC	247902-006	8/9/2013	201683	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	<2.0	UG/L	V1
GMW-16UC	247902-006	8/9/2013	201683	EPA 8260B	Chloroethane	<1.0	UG/L	V1
GMW-16UC	250604-009	11/6/2013	205154	EPA 8260B	1,2-Dichlorobenzene	<0.5	UG/L	V1
GMW-16UC	250604-009	11/6/2013	205154	EPA 8260B	1,3-Dichlorobenzene	<0.5	UG/L	V1
GMW-16UC	250604-009	11/6/2013	205154	EPA 8260B	Bromomethane	<1.0	UG/L	V1
GMW-16UC	250604-009	11/6/2013	205154	EPA 8260B	Trichlorofluoromethane	<1.0	UG/L	V1
GMW-17UC	247902-007	8/9/2013	201675	EPA 8260B	Bromoform	<0.5	UG/L	V1
GMW-17UC	247902-007	8/9/2013	201675	EPA 8260B	Bromomethane	<1.0	UG/L	V1
GMW-17UC	247902-007	8/9/2013	201675	EPA 8260B	cis-1,3-Dichloropropene	<0.5	UG/L	V1
GMW-17UC	247902-007	8/9/2013	201675	EPA 8260B	Methylene Chloride	<20	UG/L	V1
GMW-17UC	247902-007	8/9/2013	201675	EPA 8260B	Trichlorofluoromethane	<1.0	UG/L	V1
GMW-17UC	250604-010	11/6/2013	205154	EPA 8260B	1,2-Dichlorobenzene	<0.5	UG/L	V1
GMW-17UC	250604-010	11/6/2013	205154	EPA 8260B	1,3-Dichlorobenzene	<0.5	UG/L	V1
GMW-17UC	250604-010	11/6/2013	205154	EPA 8260B	Bromomethane	<1.0	UG/L	V1
GMW-17UC	250604-010	11/6/2013	205154	EPA 8260B	Trichlorofluoromethane	<1.0	UG/L	V1
GMW-18UC	247902-008	8/9/2013	201675	EPA 8260B	Bromoform	<0.5	UG/L	V1
GMW-18UC	247902-008	8/9/2013	201675	EPA 8260B	Bromomethane	<1.0	UG/L	V1
GMW-18UC	247902-008	8/9/2013	201675	EPA 8260B	cis-1,3-Dichloropropene	<0.5	UG/L	V1
GMW-18UC	247902-008	8/9/2013	201675	EPA 8260B	Methylene Chloride	<20	UG/L	V1
GMW-18UC	247902-008	8/9/2013	201675	EPA 8260B	Trichlorofluoromethane	<1.0	UG/L	V1
GMW-18UC	250604-011	11/6/2013	205154	EPA 8260B	1,2-Dichlorobenzene	<0.5	UG/L	V1
GMW-18UC	250604-011	11/6/2013	205154	EPA 8260B	1,3-Dichlorobenzene	<0.5	UG/L	V1
GMW-18UC	250604-011	11/6/2013	205154	EPA 8260B	Bromomethane	<1.0	UG/L	V1
GMW-18UC	250604-011	11/6/2013	205154	EPA 8260B	Trichlorofluoromethane	<1.0	UG/L	V1
GMW-19LC	247902-009	8/9/2013	201675	EPA 8260B	Bromoform	<0.5	UG/L	V1
GMW-19LC	247902-009	8/9/2013	201675	EPA 8260B	Bromomethane	<1.0	UG/L	V1
GMW-19LC	247902-009	8/9/2013	201675	EPA 8260B	cis-1,3-Dichloropropene	<0.5	UG/L	V1
GMW-19LC	247902-009	8/9/2013	201675	EPA 8260B	Methylene Chloride	<20	UG/L	V1
GMW-19LC	247902-009	8/9/2013	201675	EPA 8260B	Trichlorofluoromethane	<1.0	UG/L	V1
GMW-19LC	250604-012	11/6/2013	205154	EPA 8260B	1,2-Dichlorobenzene	<0.5	UG/L	V1
GMW-19LC	250604-012	11/6/2013	205154	EPA 8260B	1,3-Dichlorobenzene	<0.5	UG/L	V1
GMW-19LC	250604-012	11/6/2013	205154	EPA 8260B	Bromomethane	<1.0	UG/L	V1
GMW-19LC	250604-012	11/6/2013	205154	EPA 8260B	Trichlorofluoromethane	<1.0	UG/L	V1
GMW-20LC	247902-010	8/9/2013	201675	EPA 8260B	Bromoform	<0.5	UG/L	V1

Attachment B Table 6. Sample Qualifications Based on Calibration Outliers
July 1, 2013 - December 31, 2013
PGA-South

Sample Name	Laboratory Sample Number	Sample Date	Laboratory Batch Number	Analysis Method	Analyte	Result	units	ADEQ Qualification
GMW-20LC	247902-010	8/9/2013	201675	EPA 8260B	Bromomethane	<1.0	UG/L	V1
GMW-20LC	247902-010	8/9/2013	201675	EPA 8260B	cis-1,3-Dichloropropene	<0.5	UG/L	V1
GMW-20LC	247902-010	8/9/2013	201675	EPA 8260B	Methylene Chloride	<20	UG/L	V1
GMW-20LC	247902-010	8/9/2013	201675	EPA 8260B	Trichlorofluoromethane	<1.0	UG/L	V1
GMW-20LC	250604-013	11/6/2013	205154	EPA 8260B	1,2-Dichlorobenzene	<0.5	UG/L	V1
GMW-20LC	250604-013	11/6/2013	205154	EPA 8260B	1,3-Dichlorobenzene	<0.5	UG/L	V1
GMW-20LC	250604-013	11/6/2013	205154	EPA 8260B	Bromomethane	<1.0	UG/L	V1
GMW-20LC	250604-013	11/6/2013	205154	EPA 8260B	Trichlorofluoromethane	<1.0	UG/L	V1
GMW-21UC	247818-017	8/8/2013	201683	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	<2.0	UG/L	V1
GMW-21UC	247818-017	8/8/2013	201683	EPA 8260B	Chloroethane	<1.0	UG/L	V1
GMW-23UC	247818-019	8/8/2013	201683	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	<2.0	UG/L	V1
GMW-23UC	247818-019	8/8/2013	201683	EPA 8260B	Chloroethane	<1.0	UG/L	V1
GMW-24A	247902-014	8/9/2013	201675	EPA 8260B	Bromoform	<0.5	UG/L	V1
GMW-24A	247902-014	8/9/2013	201675	EPA 8260B	Bromomethane	<1.0	UG/L	V1
GMW-24A	247902-014	8/9/2013	201675	EPA 8260B	cis-1,3-Dichloropropene	<0.5	UG/L	V1
GMW-24A	247902-014	8/9/2013	201675	EPA 8260B	Methylene Chloride	<20	UG/L	V1
GMW-24A	247902-014	8/9/2013	201675	EPA 8260B	Trichlorofluoromethane	<1.0	UG/L	V1
GMW-24A	250555-009	11/5/2013	205153	EPA 8260B	Bromomethane	<1.0	UG/L	V1
GMW-25LC	247902-001	8/12/2013	201672	EPA 8260B	1,1,2,2-Tetrachloroethane	<0.5	UG/L	V1
GMW-25LC	247902-001	8/12/2013	201672	EPA 8260B	Bromomethane	<1.0	UG/L	V1
GMW-26LC	247902-002	8/12/2013	201672	EPA 8260B	1,1,2,2-Tetrachloroethane	<0.5	UG/L	V1
GMW-26LC	247902-002	8/12/2013	201672	EPA 8260B	Bromomethane	<1.0	UG/L	V1
NE-02	247736-005	8/7/2013	201577	EPA 8260B	1,1,2,2-Tetrachloroethane	<0.5	UG/L	V1
NE-02	247736-005	8/7/2013	201577	EPA 8260B	1,1-Dichloroethane	<0.5	UG/L	V1
NE-02	247736-005	8/7/2013	201577	EPA 8260B	Bromomethane	<1.0	UG/L	V1
NE-02	250555-006	11/5/2013	205153	EPA 8260B	Bromomethane	<1.0	UG/L	V1
NE-03	247736-006	8/7/2013	201577	EPA 8260B	1,1,2,2-Tetrachloroethane	<0.5	UG/L	V1
NE-03	247736-006	8/7/2013	201577	EPA 8260B	1,1-Dichloroethane	0.3 J	UG/L	E4, V1
NE-03	247736-006	8/7/2013	201577	EPA 8260B	Bromomethane	<1.0	UG/L	V1
NE-03	250555-007	11/5/2013	205153	EPA 8260B	Bromomethane	<1.0	UG/L	V1
NE-04	247736-007	8/7/2013	201624	EPA 8260B	1,1,2,2-Tetrachloroethane	<0.5	UG/L	V1
NE-04	247736-007	8/7/2013	201624	EPA 8260B	Bromomethane	<1.0	UG/L	V1
NE-04	247736-007	8/7/2013	201624	EPA 8260B	Methylene Chloride	<20	UG/L	V1
NE-04	250555-008	11/5/2013	205153	EPA 8260B	Bromomethane	<1.0	UG/L	V1
NEW-01	247902-015	8/9/2013	201675	EPA 8260B	Bromoform	<0.5	UG/L	V1
NEW-01	247902-015	8/9/2013	201675	EPA 8260B	Bromomethane	<1.0	UG/L	V1
NEW-01	247902-015	8/9/2013	201675	EPA 8260B	cis-1,3-Dichloropropene	<0.5	UG/L	V1
NEW-01	247902-015	8/9/2013	201675	EPA 8260B	Methylene Chloride	<20	UG/L	V1
NEW-01	247902-015	8/9/2013	201675	EPA 8260B	Trichlorofluoromethane	<1.0	UG/L	V1
NEW-01	250555-011	11/5/2013	205153	EPA 8260B	Bromomethane	<1.0	UG/L	V1
NEW-01	250555-010	11/5/2013	205153	EPA 8260B	Bromomethane	<1.0	UG/L	V1
NEW-03	247818-012	8/8/2013	201672	EPA 8260B	1,1,2,2-Tetrachloroethane	<0.5	UG/L	V1
NEW-03	247818-012	8/8/2013	201672	EPA 8260B	Bromomethane	<1.0	UG/L	V1
SB-06LC	247902-017	8/9/2013	201700	EPA 8260B	Bromomethane	<1.0	UG/L	V1
SB-06UC	247902-018	8/9/2013	201700	EPA 8260B	Bromomethane	<1.0	UG/L	V1
SB-08LC	247902-019	8/9/2013	201700	EPA 8260B	Bromomethane	<1.0	UG/L	V1
SB-08UC	247902-020	8/9/2013	201700	EPA 8260B	Bromomethane	0.2 J	UG/L	E4, V1
SB-09LC	247902-021	8/9/2013	201700	EPA 8260B	Bromomethane	<1.0	UG/L	V1
SB-10LC	247902-003	8/9/2013	201675	EPA 8260B	Bromoform	<0.5	UG/L	V1
SB-10LC	247902-003	8/9/2013	201675	EPA 8260B	Bromomethane	<1.0	UG/L	V1
SB-10LC	247902-003	8/9/2013	201675	EPA 8260B	cis-1,3-Dichloropropene	<0.5	UG/L	V1
SB-10LC	247902-003	8/9/2013	201675	EPA 8260B	Methylene Chloride	<20	UG/L	V1
SB-10LC	247902-003	8/9/2013	201675	EPA 8260B	Trichlorofluoromethane	<1.0	UG/L	V1
SB-11LC	247818-015	8/8/2013	201683	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	<2.0	UG/L	V1
SB-11LC	247818-015	8/8/2013	201683	EPA 8260B	Chloroethane	<1.0	UG/L	V1
Trip Blank	246655-011	7/1/2013	200418	EPA 8260B	2-Hexanone	<10	UG/L	V1
Trip Blank	246655-011	7/1/2013	200418	EPA 8260B	Acetone	<10	UG/L	V1
Trip Blank	246655-011	7/1/2013	200418	EPA 8260B	Bromomethane	<1.0	UG/L	V9
Trip Blank	246655-011	7/1/2013	200418	EPA 8260B	cis-1,3-Dichloropropene	<0.5	UG/L	V1
Trip Blank	247738-011	8/7/2013	201561	EPA 8260B	1,1-Dichloroethane	<0.5	UG/L	V9
Trip Blank	247738-011	8/7/2013	201561	EPA 8260B	4-Methyl-2-pentanone	<10	UG/L	V9
Trip Blank	247738-011	8/7/2013	201561	EPA 8260B	Acetone	<10	UG/L	V1
Trip Blank	247738-011	8/7/2013	201561	EPA 8260B	Bromomethane	<1.0	UG/L	V9
Trip Blank	247738-011	8/7/2013	201561	EPA 8260B	Chloromethane	<1.0	UG/L	V9
Trip Blank	247738-011	8/7/2013	201561	EPA 8260B	Dichlorodifluoromethane	<1.0	UG/L	V9
Trip Blank	247738-011	8/7/2013	201561	EPA 8260B	Hexachlorobutadiene	<2.0	UG/L	V9
Trip Blank	247818-024	8/8/2013	201683	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	<2.0	UG/L	V1
Trip Blank	247818-024	8/8/2013	201683	EPA 8260B	Chloroethane	<1.0	UG/L	V1
Trip Blank	247902-022	8/9/2013	201700	EPA 8260B	Bromomethane	<1.0	UG/L	V1
Trip Blank	248701-011	9/4/2013	202696	EPA 8260B	1,1,2,2-Tetrachloroethane	<0.5	UG/L	V9

Attachment B Table 6. Sample Qualifications Based on Calibration Outliers
July 1, 2013 - December 31, 2013
PGA-South

Sample Name	Laboratory Sample Number	Sample Date	Laboratory Batch Number	Analysis Method	Analyte	Result	units	ADEQ Qualification
Trip Blank	248701-011	9/4/2013	202696	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	<2.0	UG/L	V1
Trip Blank	248701-011	9/4/2013	202696	EPA 8260B	1,2-Dibromo-3-chloropropane	<2.0	UG/L	V9
Trip Blank	248701-011	9/4/2013	202696	EPA 8260B	2-Butanone	<10	UG/L	V9
Trip Blank	248701-011	9/4/2013	202696	EPA 8260B	2-Hexanone	<10	UG/L	V9
Trip Blank	248701-011	9/4/2013	202696	EPA 8260B	4-Methyl-2-pentanone	<10	UG/L	V9
Trip Blank	248701-011	9/4/2013	202696	EPA 8260B	Acetone	<10	UG/L	V1
Trip Blank	248701-011	9/4/2013	202696	EPA 8260B	Bromomethane	<1.0	UG/L	V1, V9
Trip Blank	248701-011	9/4/2013	202696	EPA 8260B	Chloromethane	<1.0	UG/L	V9
Trip Blank	248701-011	9/4/2013	202696	EPA 8260B	Vinyl Acetate	<10	UG/L	V9
Trip Blank	249598-011	10/2/2013	203729	EPA 8260B	Bromomethane	<1.0	UG/L	V1
Trip Blank	249598-011	10/2/2013	203729	EPA 8260B	Chloromethane	<1.0	UG/L	V1
Trip Blank	250558-011	11/5/2013	205101	EPA 8260B	2-Butanone	<10	UG/L	V9
Trip Blank	250558-011	11/5/2013	205101	EPA 8260B	2-Hexanone	<10	UG/L	V9
Trip Blank	250558-011	11/5/2013	205101	EPA 8260B	4-Methyl-2-pentanone	<10	UG/L	V9
Trip Blank	250558-011	11/5/2013	205101	EPA 8260B	Acetone	<10	UG/L	V9
Trip Blank	250555-013	11/5/2013	205153	EPA 8260B	Bromomethane	<1.0	UG/L	V1
Trip Blank	250558-011	11/5/2013	205101	EPA 8260B	Bromomethane	<1.0	UG/L	V1
Trip Blank	250558-011	11/5/2013	205101	EPA 8260B	Chloromethane	<1.0	UG/L	V1
Trip Blank	250558-011	11/5/2013	205101	EPA 8260B	Dichlorodifluoromethane	<1.0	UG/L	V1
Trip Blank	250558-011	11/5/2013	205101	EPA 8260B	Methyl-tert-butyl Ether	<0.5	UG/L	V9
Trip Blank	250558-011	11/5/2013	205101	EPA 8260B	Vinyl Acetate	<10	UG/L	V1
Trip Blank	251273-011	12/2/2013	205784	EPA 8260B	1,2-Dibromo-3-chloropropane	<2.0	UG/L	V9
Trip Blank	251273-011	12/2/2013	205784	EPA 8260B	2-Butanone	<10	UG/L	V9
Trip Blank	251273-011	12/2/2013	205784	EPA 8260B	2-Hexanone	<10	UG/L	V9
Trip Blank	251273-011	12/2/2013	205784	EPA 8260B	4-Methyl-2-pentanone	<10	UG/L	V9
Trip Blank	251273-011	12/2/2013	205784	EPA 8260B	Acetone	<10	UG/L	V9
Trip Blank	251273-011	12/2/2013	205784	EPA 8260B	Bromomethane	<1.0	UG/L	V9
Trip Blank	251273-011	12/2/2013	205784	EPA 8260B	Carbon Disulfide	<0.5	UG/L	V1
Trip Blank	251273-011	12/2/2013	205784	EPA 8260B	Dichlorodifluoromethane	<1.0	UG/L	V9
Trip Blank	251273-011	12/2/2013	205784	EPA 8260B	Hexachlorobutadiene	<2.0	UG/L	V9
Trip Blank	251273-011	12/2/2013	205784	EPA 8260B	n-Butylbenzene	<0.5	UG/L	V9
Trip Blank	251273-011	12/2/2013	205784	EPA 8260B	Vinyl Acetate	<10	UG/L	V9

D1 = Sample required dilution due to matrix.
D2 = Sample required dilution due to high concentration of target analyte.
E4 = Concentration estimated. Analyte was detected below laboratory minimum reportinglimit
R1 = Sample RPD exceeded the method acceptance limit.
V1 = CCV recovery was above method acceptance limits. This target analyte was notdetected in the sample.
V2 = CCV recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V9 = CCV recovery was below method acceptance limits.

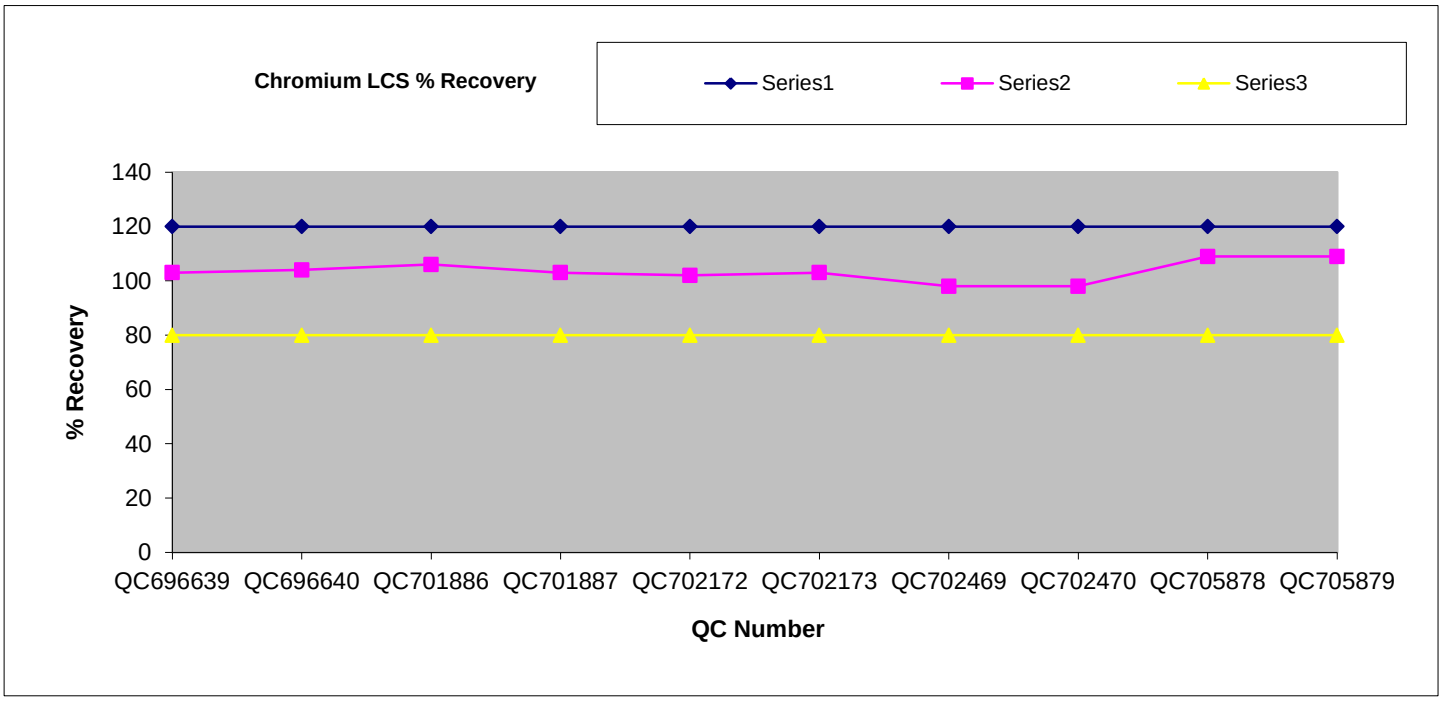
Appendix D

Attachment C
Laboratory Generated Control Charts

Chromium LCS % Recovery 3rd Quarter 2013

Curtis & Tompkins, Ltd.

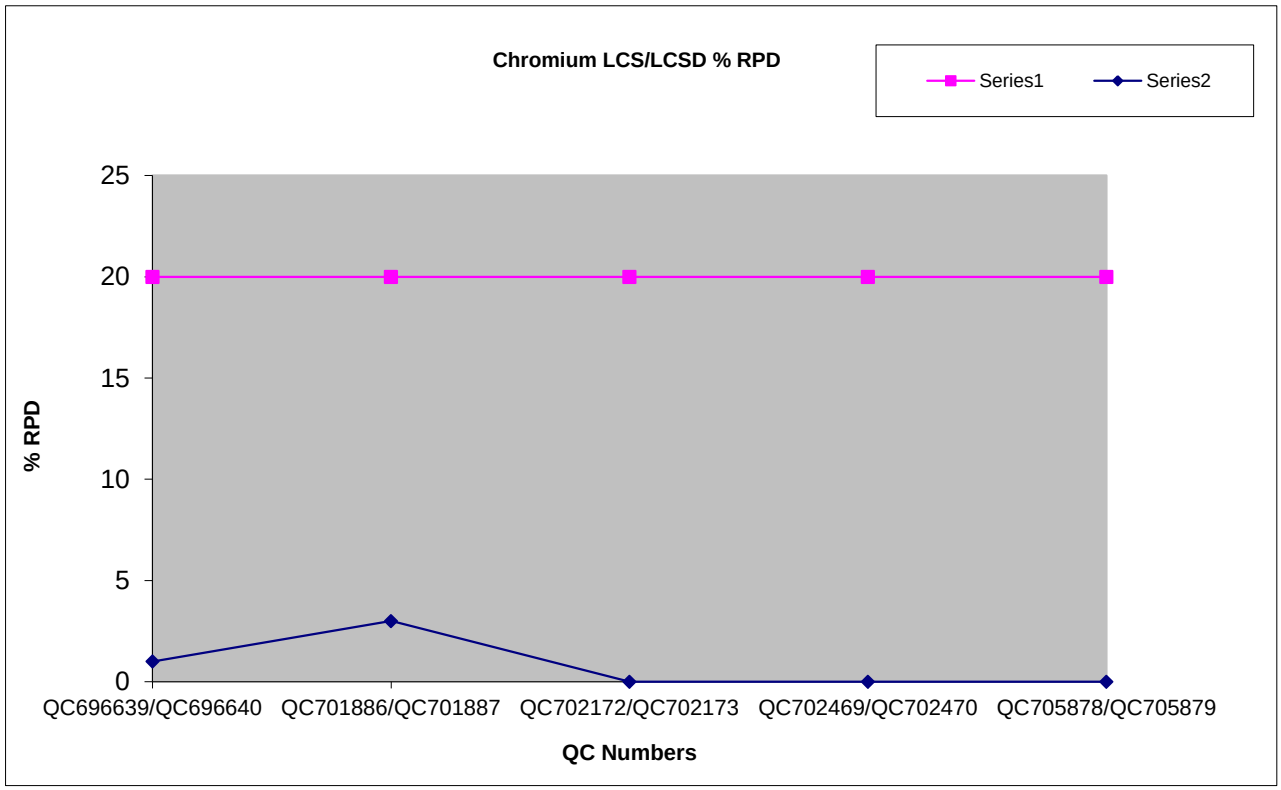
Lower Control Limit	Upper Control limit	% Recovery	QC Number
80	120	103	QC696639
80	120	104	QC696640
80	120	106	QC701886
80	120	103	QC701887
80	120	102	QC702172
80	120	103	QC702173
80	120	98	QC702469
80	120	98	QC702470
80	120	109	QC705878
80	120	109	QC705879



Chromium LCS % RPD 3rd Quarter 2013

Curtis & Tompkins, Ltd.

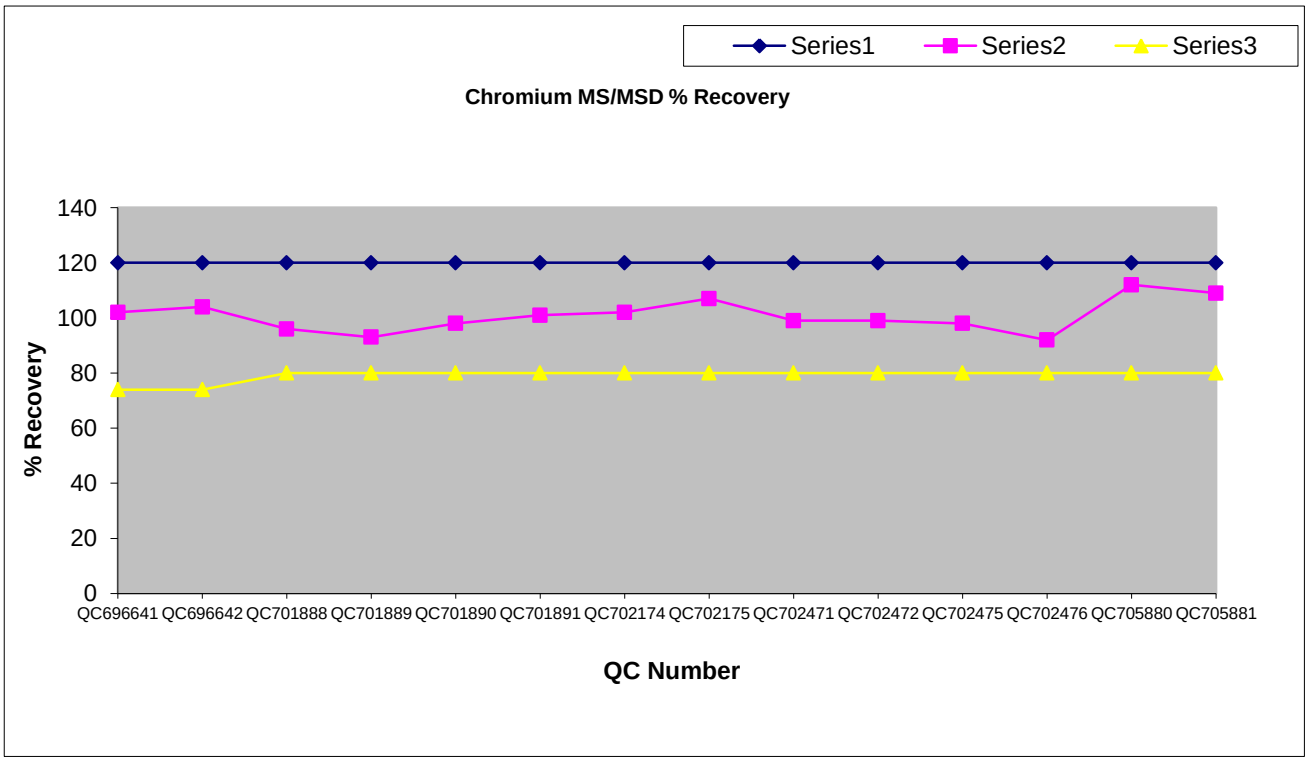
Maxiumum % RPD	Calculated %RPD	QC Number
20	1	QC696639/QC696640
20	3	QC701886/QC701887
20	0	QC702172/QC702173
20	0	QC702469/QC702470
20	0	QC705878/QC705879



Chromium MS/MSD % Recovery 3rd Quarter 2013

Curtis & Tompkins, Ltd.

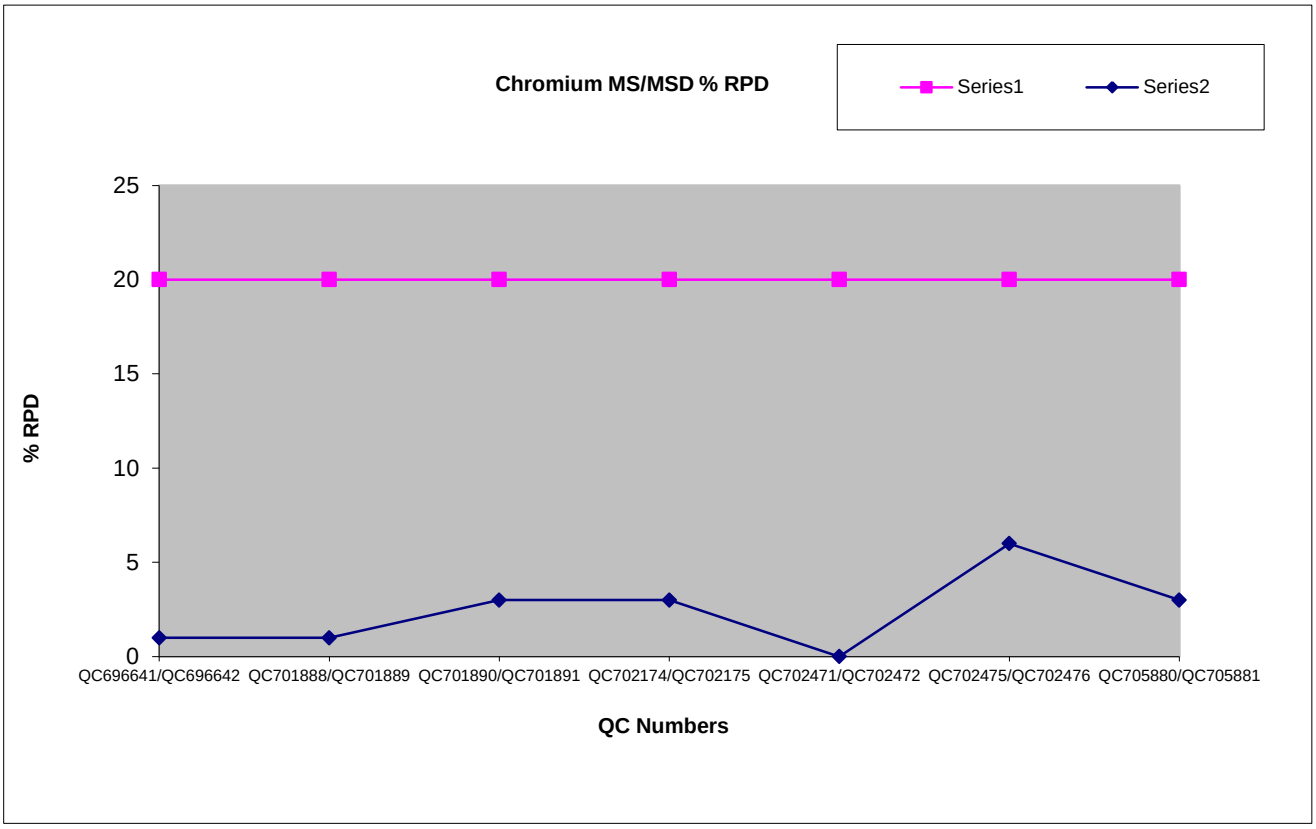
Lower Control Limit	Upper Control limit	% Recovery	QC Number
74	120	102	QC696641
74	120	104	QC696642
80	120	96	QC701888
80	120	93	QC701889
80	120	98	QC701890
80	120	101	QC701891
80	120	102	QC702174
80	120	107	QC702175
80	120	99	QC702471
80	120	99	QC702472
80	120	98	QC702475
80	120	92	QC702476
80	120	112	QC705880
80	120	109	QC705881



Chromium MS/MSD % RPD 3rd Quarter 2013

Curtis & Tompkins, Ltd.

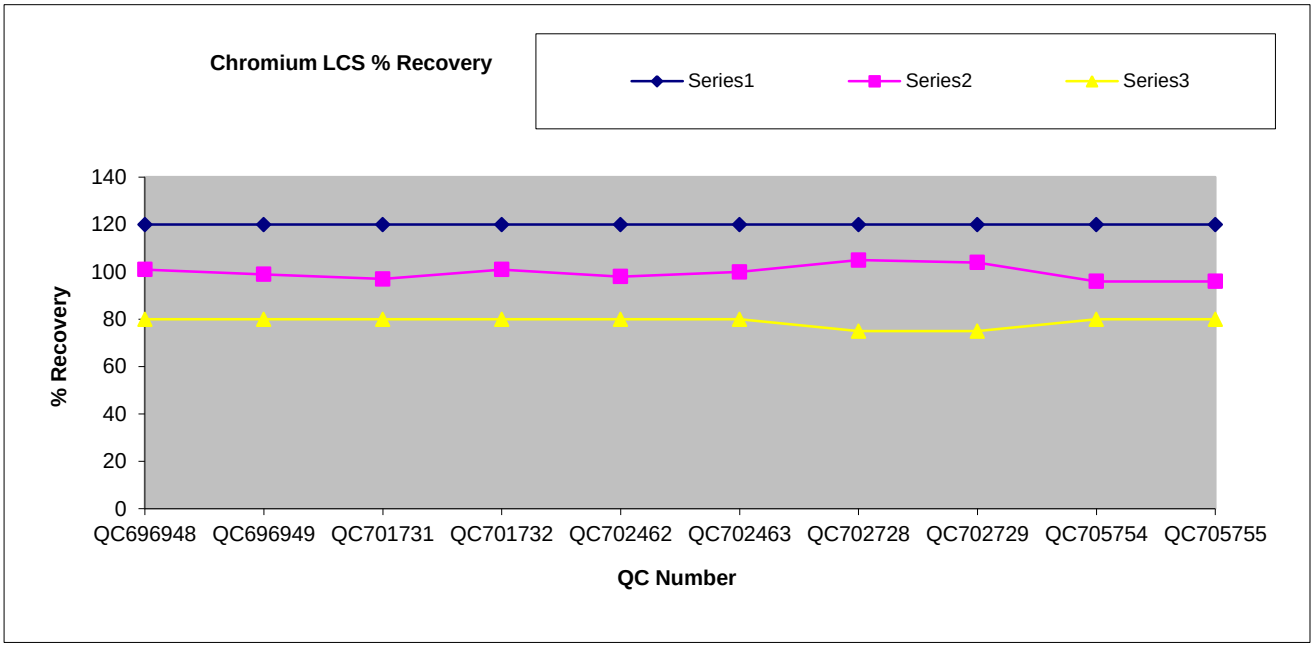
Maxiumum % RPD	Calculated %RPD	QC Number
20	1	QC696641/QC696642
20	1	QC701888/QC701889
20	3	QC701890/QC701891
20	3	QC702174/QC702175
20	0	QC702471/QC702472
20	6	QC702475/QC702476
20	3	QC705880/QC705881



Dissolved Chromium LCS % Recovery 3rd Quarter 2013

Curtis & Tompkins, Ltd.

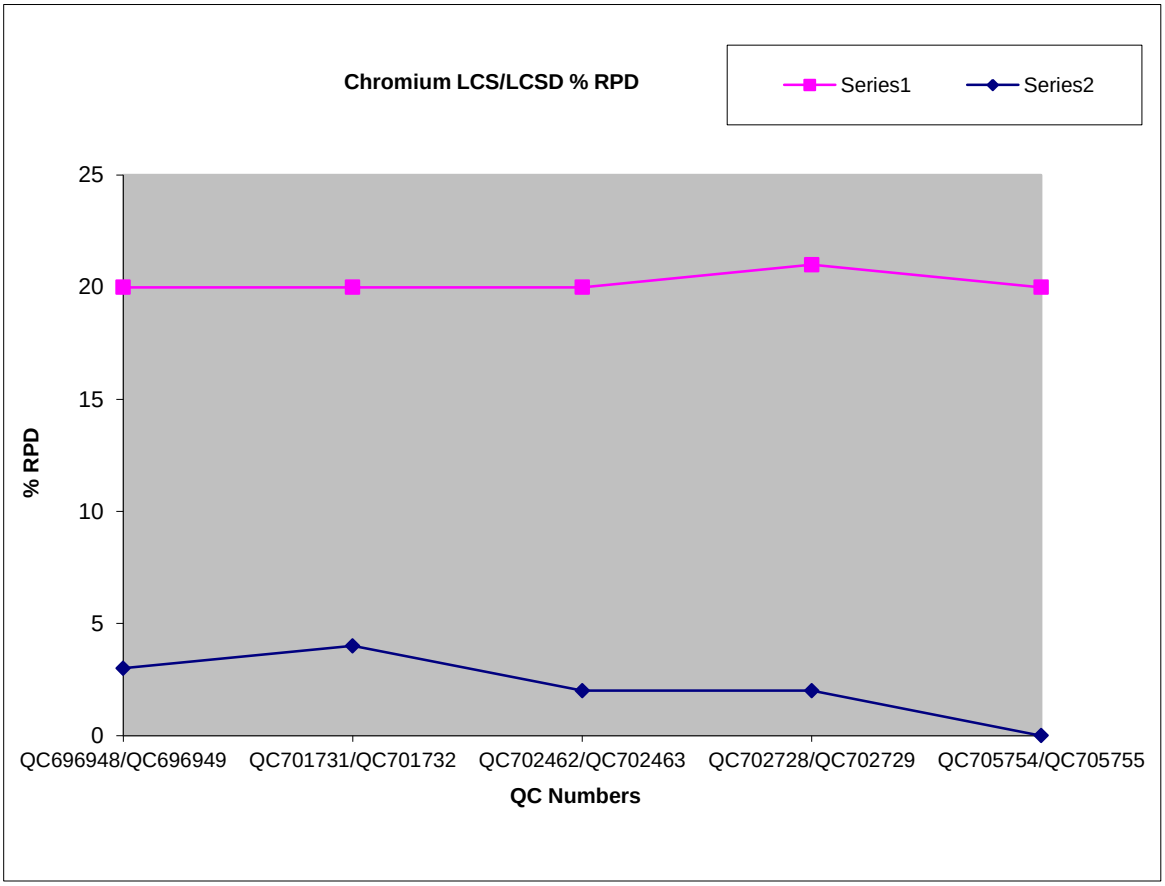
Lower Control Limit	Upper Control limit	% Recovery	QC Number
80	120	101	QC696948
80	120	99	QC696949
80	120	97	QC701731
80	120	101	QC701732
80	120	98	QC702462
80	120	100	QC702463
75	120	105	QC702728
75	120	104	QC702729
80	120	96	QC705754
80	120	96	QC705755



Dissolved Chromium LCS % RPD 3rd Quarter 2013

Curtis & Tompkins, Ltd.

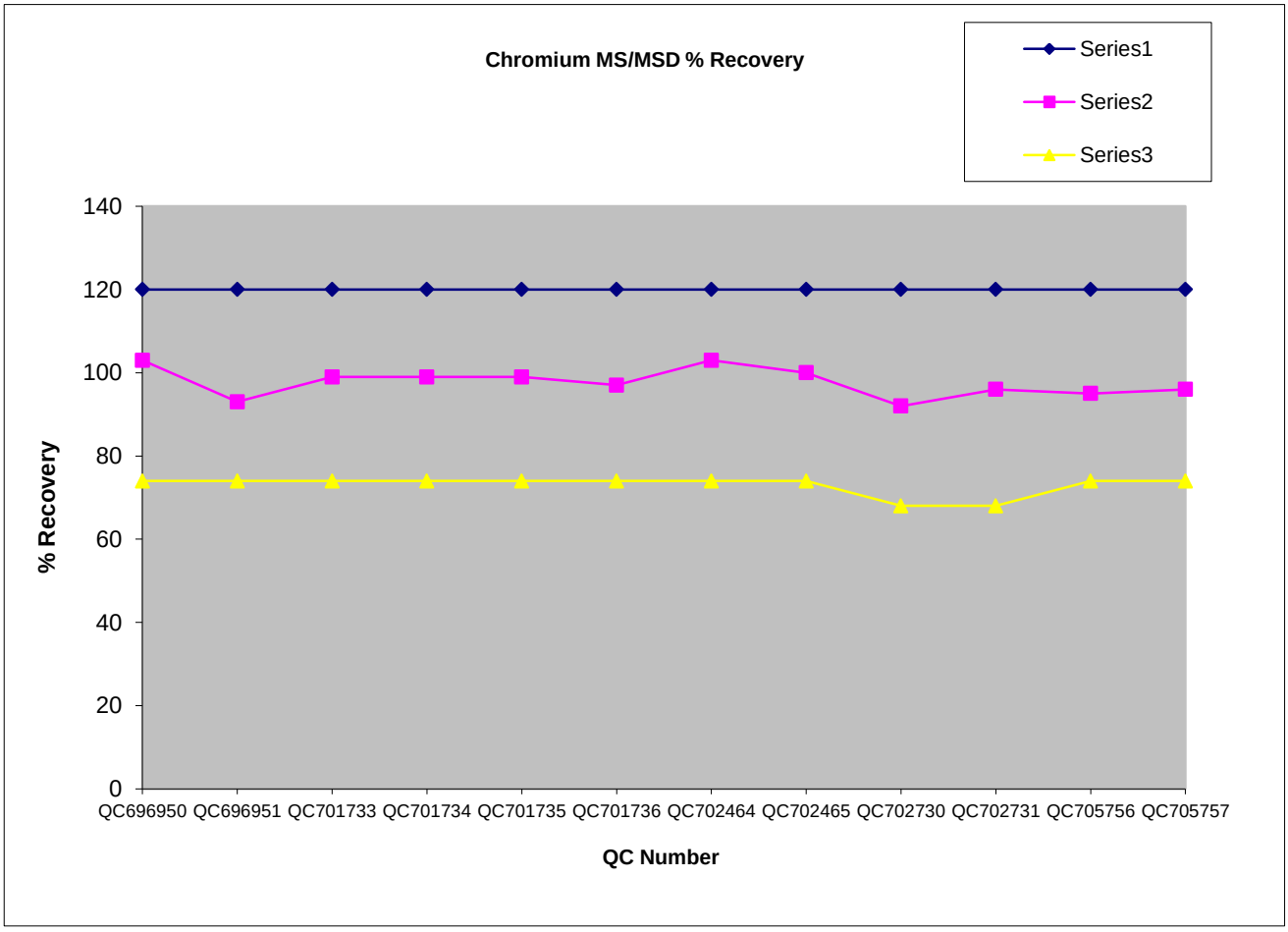
Maxiumum % RPD	Calculated %RPD	QC Number
20	3	QC696948/QC696949
20	4	QC701731/QC701732
20	2	QC702462/QC702463
21	2	QC702728/QC702729
20	0	QC705754/QC705755



Dissolved Chromium MS/MSD % Recovery 3rd Quarter 2013

Curtis & Tompkins, Ltd.

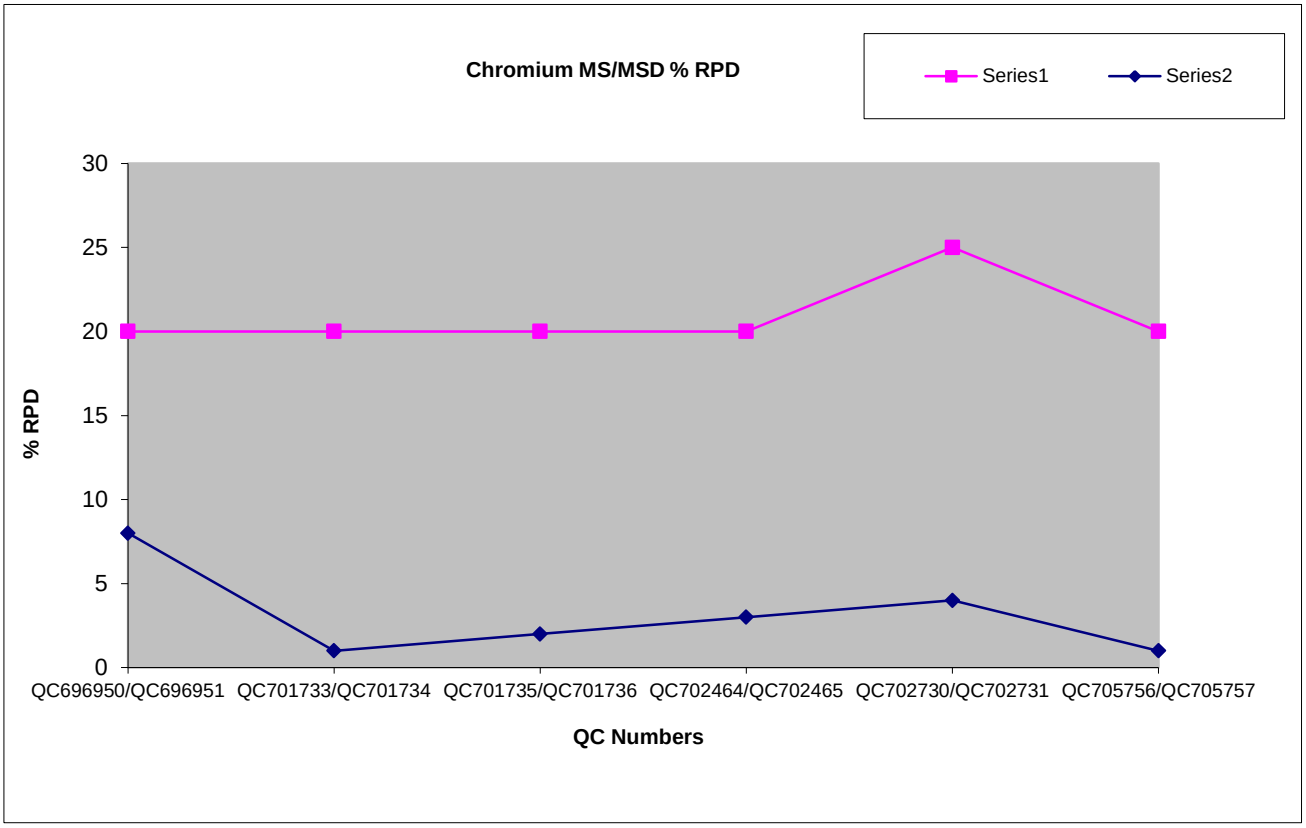
Lower Control Limit	Upper Control limit	% Recovery	QC Number
74	120	103	QC696950
74	120	93	QC696951
74	120	99	QC701733
74	120	99	QC701734
74	120	99	QC701735
74	120	97	QC701736
74	120	103	QC702464
74	120	100	QC702465
68	120	92	QC702730
68	120	96	QC702731
74	120	95	QC705756
74	120	96	QC705757



Dissolved Chromium MS/MSD % RPD 3rd Quarter 2013

Curtis & Tompkins, Ltd.

Maxiumum % RPD	Calculated %RPD	QC Number
20	8	QC696950/QC696951
20	1	QC701733/QC701734
20	2	QC701735/QC701736
20	3	QC702464/QC702465
25	4	QC702730/QC702731
20	1	QC705756/QC705757

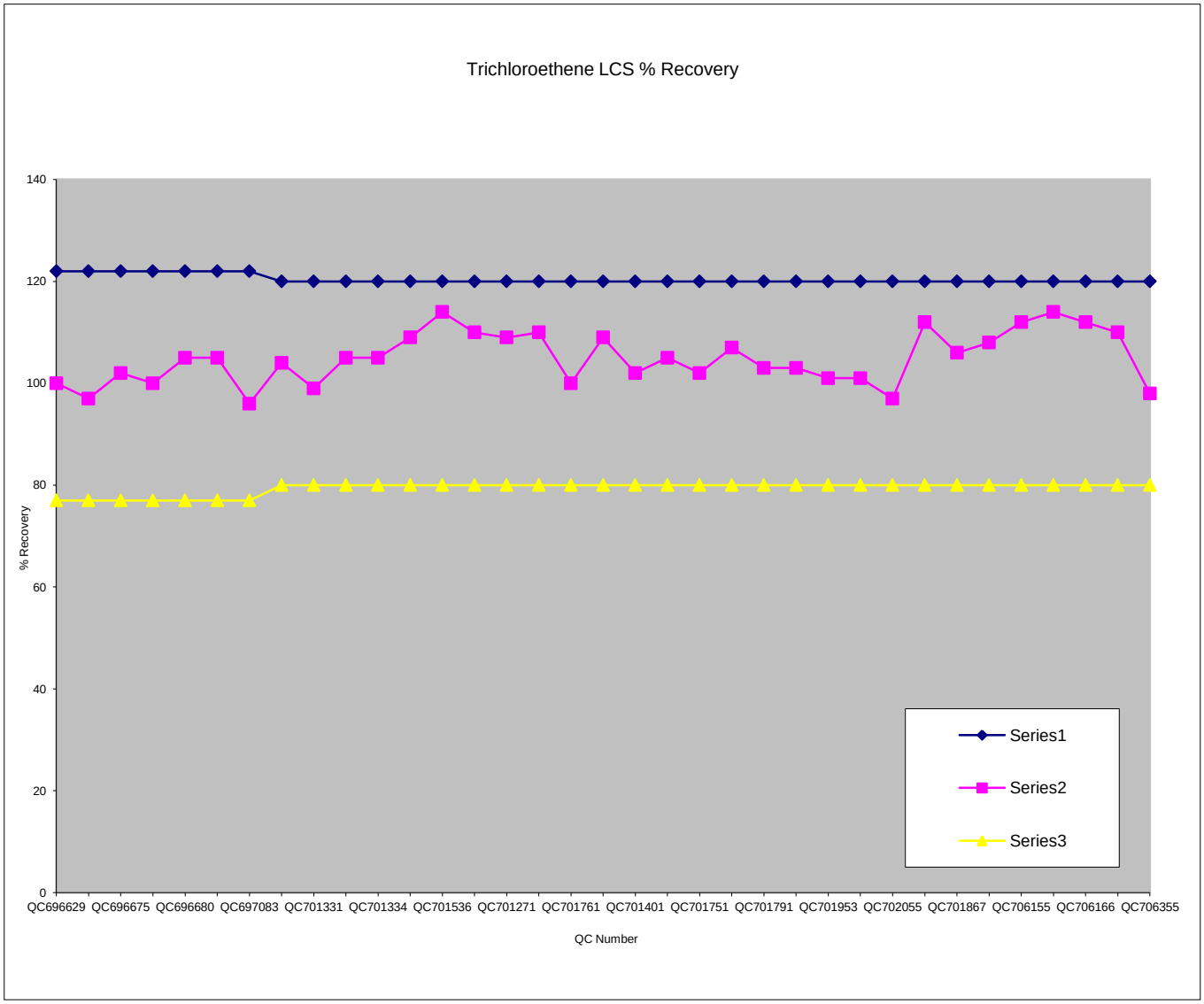


Trichloroethene LCS % Recovery 3rd Quarter 2013

Curtis & Tompkins, Ltd.

Lower Control Limit	Upper Control limit	% Recovery	QC Number
77	122	100	QC696629
77	122	97	QC696630
77	122	102	QC696675
77	122	100	QC696676
77	122	105	QC696680
77	122	105	QC696681
77	122	96	QC697083
80	120	104	QC701330
80	120	99	QC701331
80	120	105	QC701333
80	120	105	QC701334
80	120	109	QC701535
80	120	114	QC701536
80	120	110	QC701270
80	120	109	QC701271
80	120	110	QC701760
80	120	100	QC701761
80	120	109	QC701400
80	120	102	QC701401
80	120	105	QC701750
80	120	102	QC701751
80	120	107	QC701790
80	120	103	QC701791
80	120	103	QC701952
80	120	101	QC701953
80	120	101	QC702054
80	120	97	QC702055
80	120	112	QC701866
80	120	106	QC701867
80	120	108	QC706154
80	120	112	QC706155
80	120	114	QC706165
80	120	112	QC706166
80	120	110	QC706354
80	120	98	QC706355

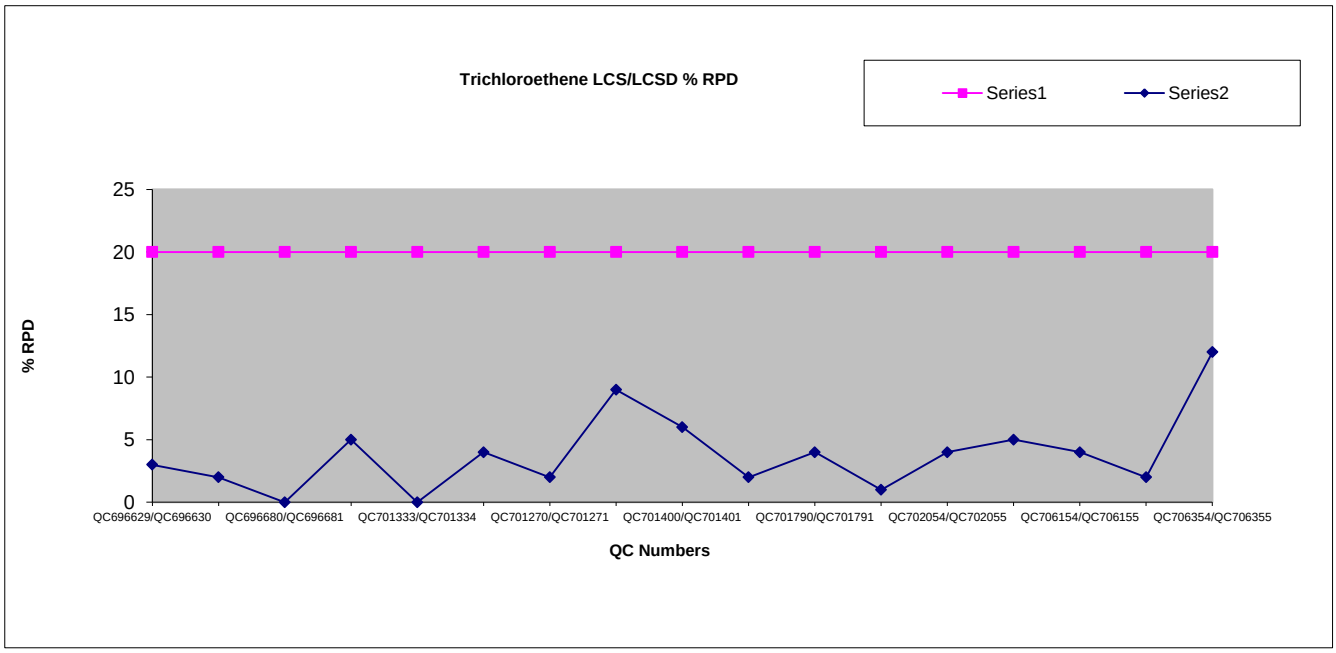
Curtis & Tompkins, Ltd.



Trichloroethene LCS/LCSD % RPD 3rd Quarter 2013

Curtis & Tompkins, Ltd.

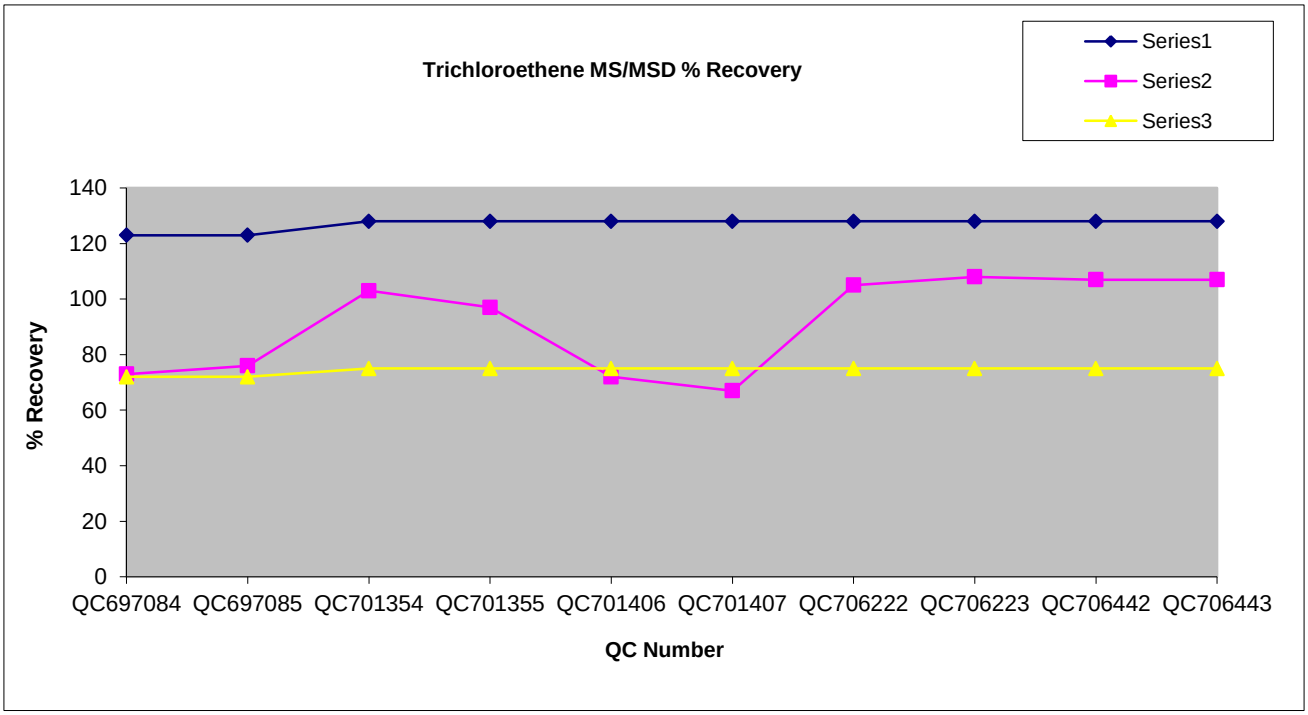
Maxiumum % RPD	Calculated %RPD	QC Number
20	3	QC696629/QC696630
20	2	QC696675/QC696676
20	0	QC696680/QC696681
20	5	QC701330/QC701331
20	0	QC701333/QC701334
20	4	QC701535/QC701536
20	2	QC701270/QC701271
20	9	QC701760/QC701761
20	6	QC701400/QC701401
20	2	QC701750/QC701751
20	4	QC701790/QC701791
20	1	QC701952/QC701953
20	4	QC702054/QC702055
20	5	QC701866/QC701867
20	4	QC706154/QC706155
20	2	QC706165/QC706166
20	12	QC706354/QC706355



Trichloroethene MS/MSD % Recovery 3rd Quarter 2013

Curtis & Tompkins, Ltd.

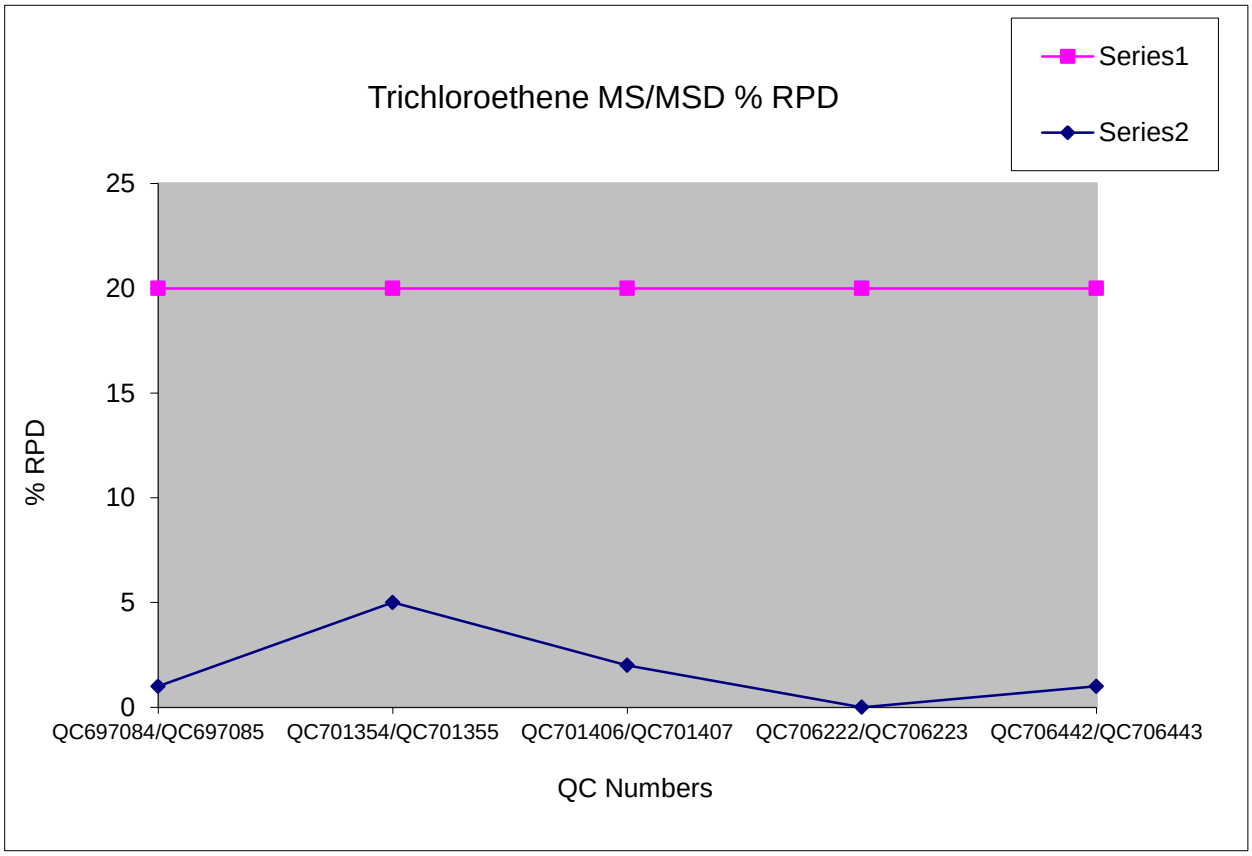
Lower Control Limit	Upper Control limit	% Recovery	QC Number
72	123	73	QC697084
72	123	76	QC697085
75	128	103	QC701354
75	128	97	QC701355
75	128	72	QC701406
75	128	67	QC701407
75	128	105	QC706222
75	128	108	QC706223
75	128	107	QC706442
75	128	107	QC706443



Trichloroethene MS/MSD % RPD 3rd Quarter 2013

Curtis & Tompkins, Ltd.

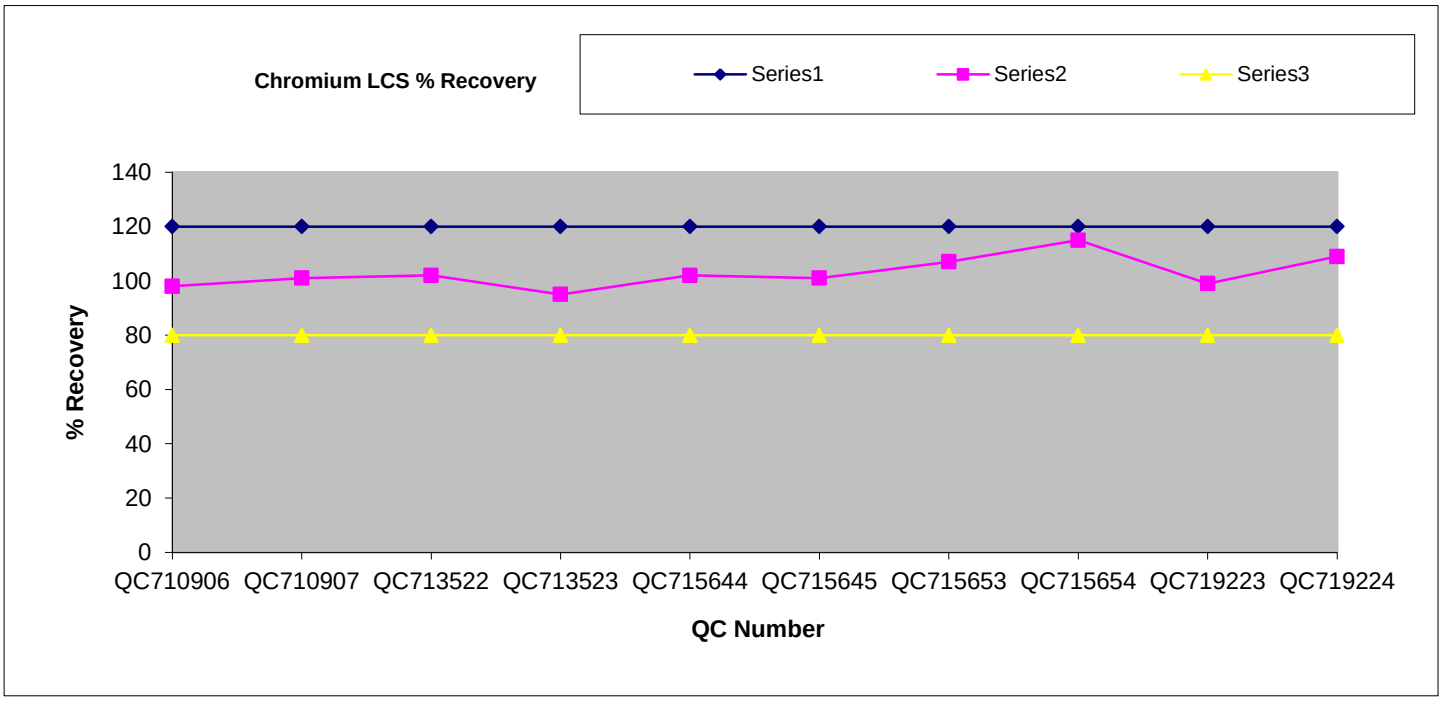
Maxiumum % RPD	Calculated %RPD	QC Number
20	1	QC697084/QC697085
20	5	QC701354/QC701355
20	2	QC701406/QC701407
20	0	QC706222/QC706223
20	1	QC706442/QC706443



Chromium LCS % Recovery 4th Quarter 2013

Curtis & Tompkins, Ltd.

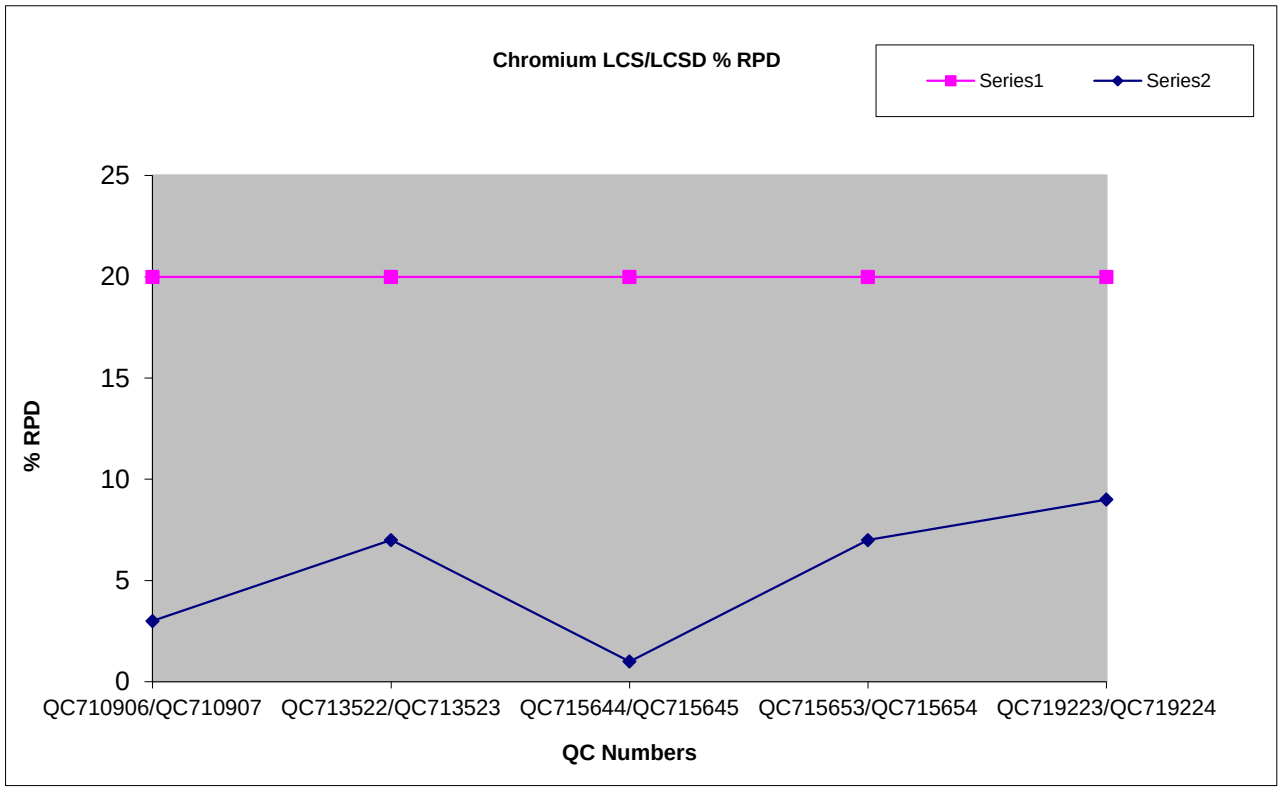
Lower Control Limit	Upper Control limit	% Recovery	QC Number
80	120	98	QC710906
80	120	101	QC710907
80	120	102	QC713522
80	120	95	QC713523
80	120	102	QC715644
80	120	101	QC715645
80	120	107	QC715653
80	120	115	QC715654
80	120	99	QC719223
80	120	109	QC719224



Chromium LCS % RPD 4th Quarter 2013

Curtis & Tompkins, Ltd.

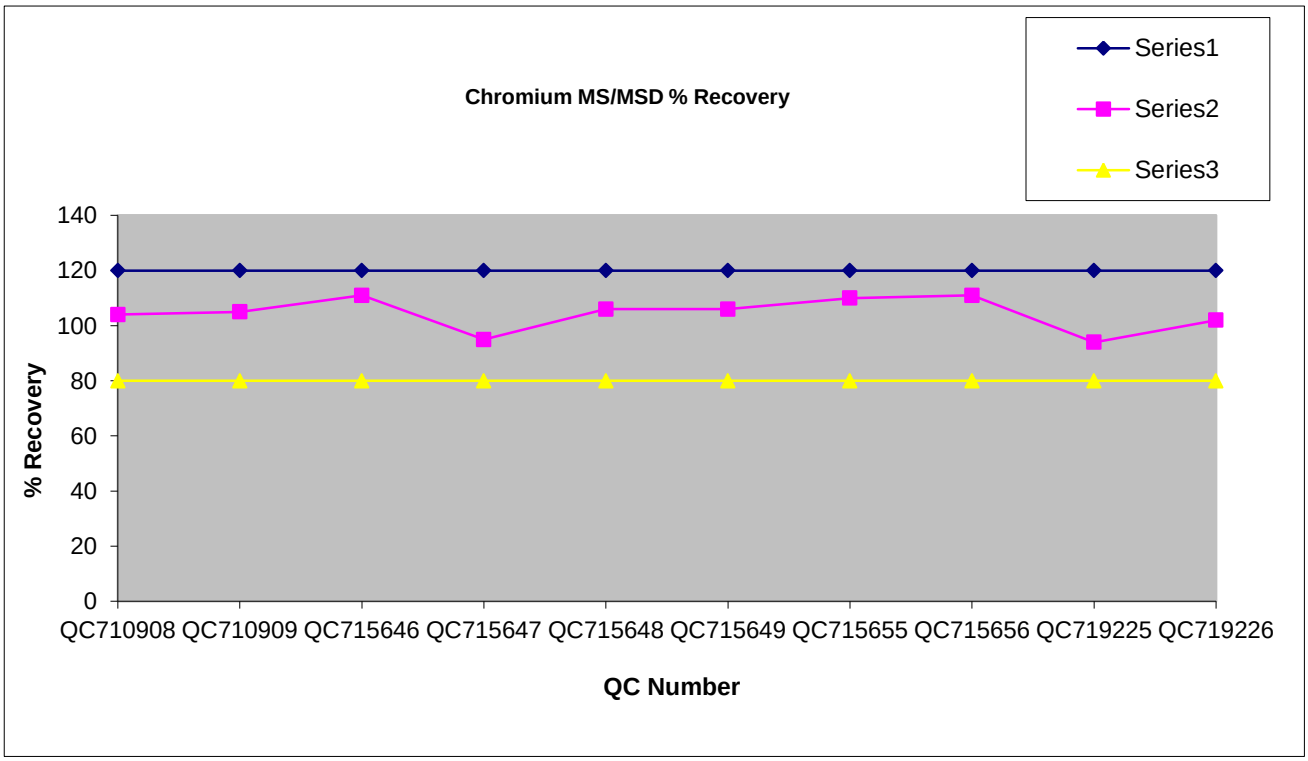
Maxiumum % RPD	Calculated %RPD	QC Number
20	3	QC710906/QC710907
20	7	QC713522/QC713523
20	1	QC715644/QC715645
20	7	QC715653/QC715654
20	9	QC719223/QC719224



Chromium MS/MSD % Recovery 4th Quarter 2013

Curtis & Tompkins, Ltd.

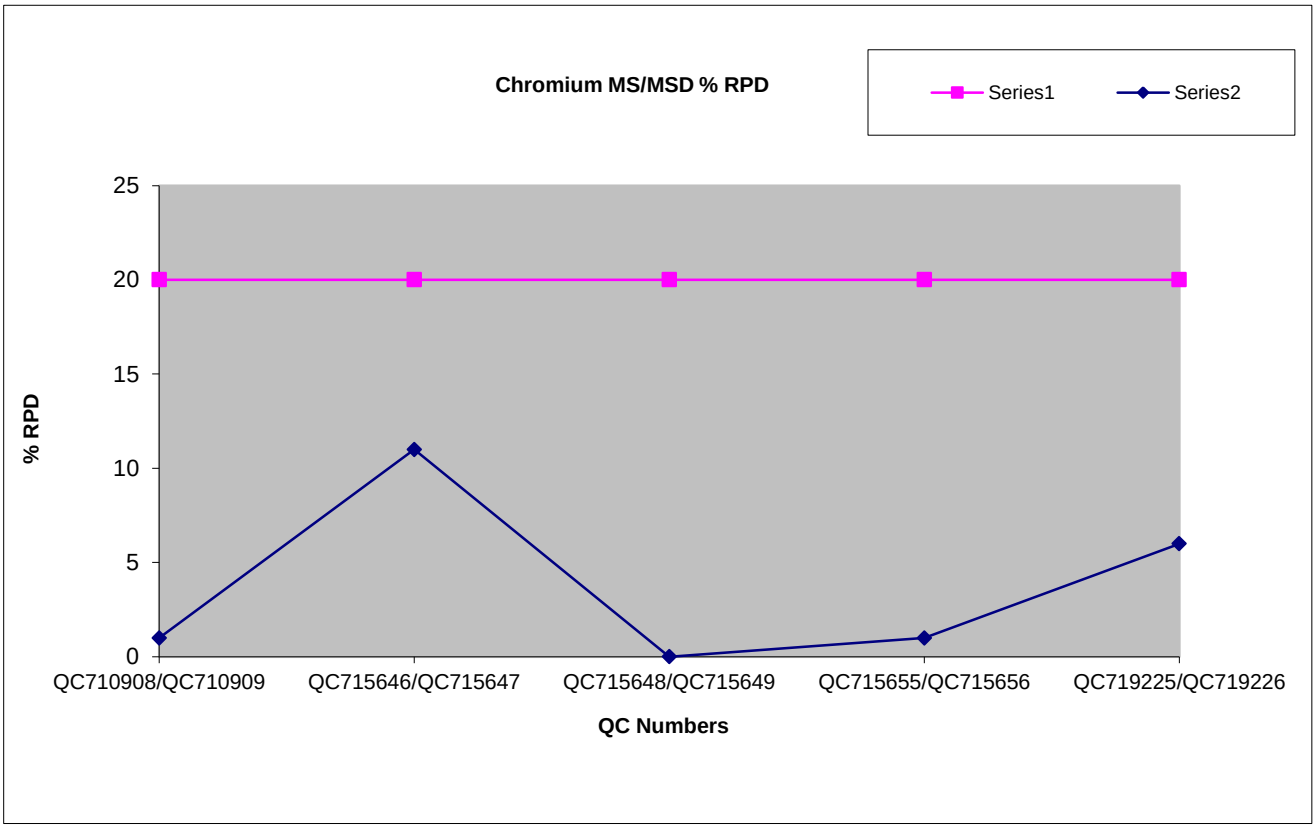
Lower Control Limit	Upper Control limit	% Recovery	QC Number
80	120	104	QC710908
80	120	105	QC710909
80	120	111	QC715646
80	120	95	QC715647
80	120	106	QC715648
80	120	106	QC715649
80	120	110	QC715655
80	120	111	QC715656
80	120	94	QC719225
80	120	102	QC719226



Chromium MS/MSD % RPD 4th Quarter 2013

Curtis & Tompkins, Ltd.

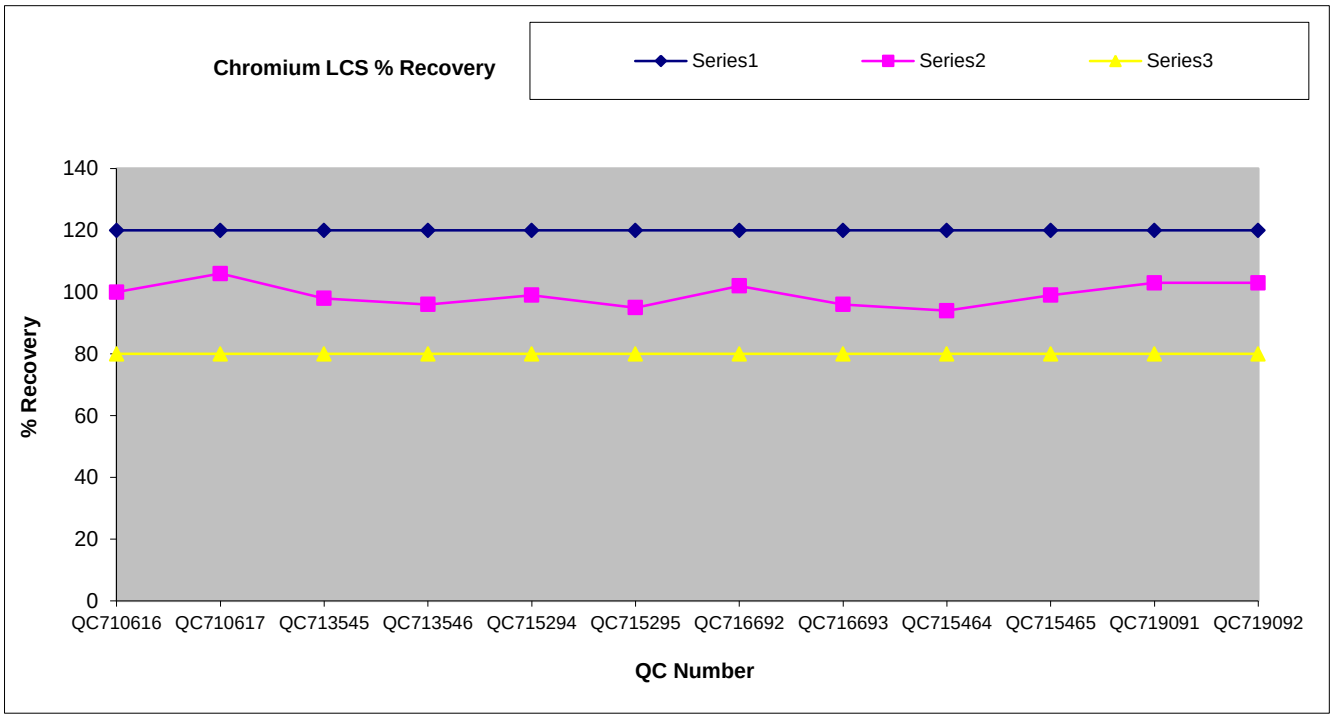
Maxiumum % RPD	Calculated %RPD	QC Number
20	1	QC710908/QC710909
20	11	QC715646/QC715647
20	0	QC715648/QC715649
20	1	QC715655/QC715656
20	6	QC719225/QC719226



Dissolved Chromium LCS % Recovery 4th Quarter 2013

Curtis & Tompkins, Ltd.

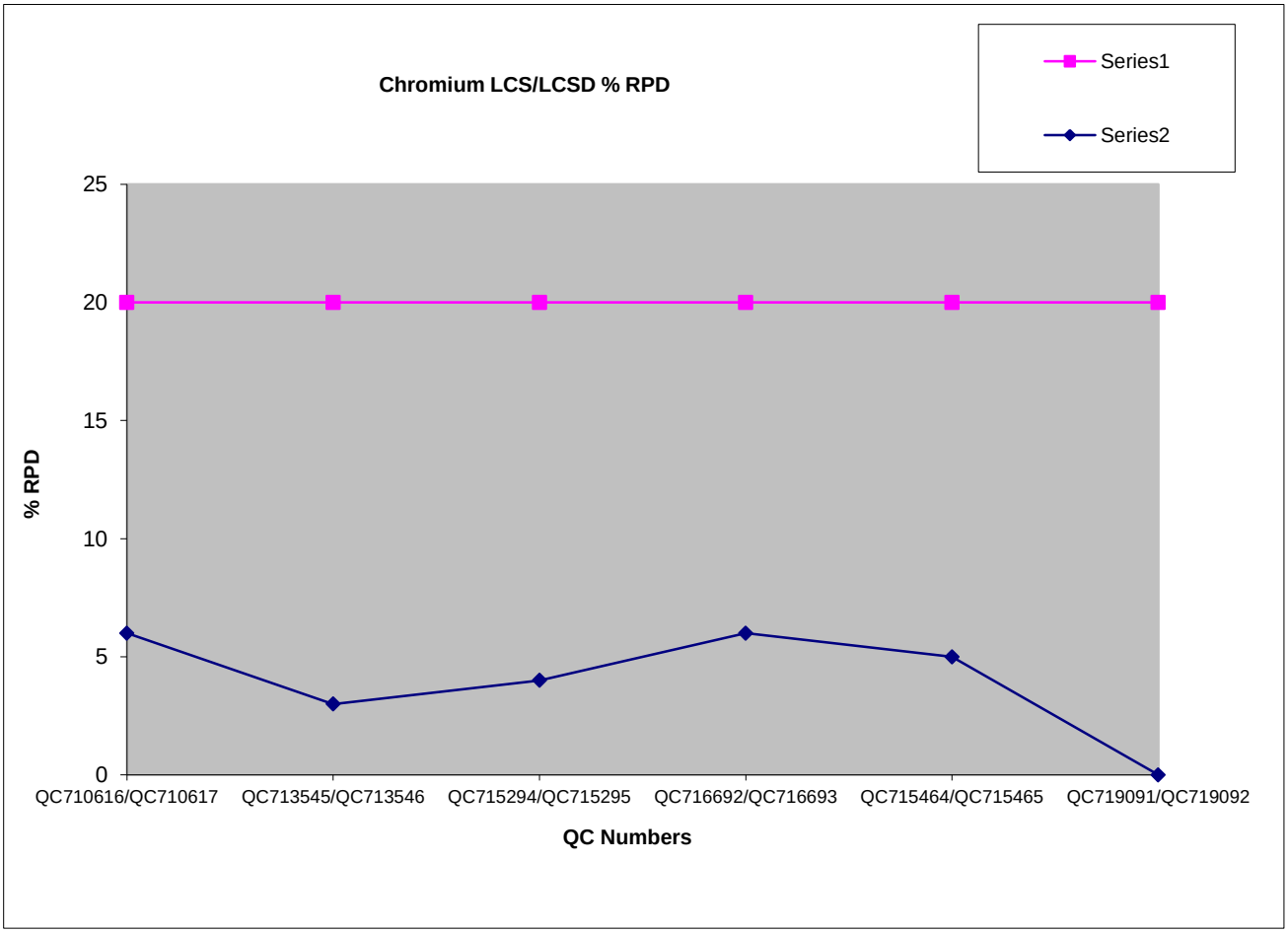
Lower Control Limit	Upper Control limit	% Recovery	QC Number
80	120	100	QC710616
80	120	106	QC710617
80	120	98	QC713545
80	120	96	QC713546
80	120	99	QC715294
80	120	95	QC715295
80	120	102	QC716692
80	120	96	QC716693
80	120	94	QC715464
80	120	99	QC715465
80	120	103	QC719091
80	120	103	QC719092



Dissolved Chromium LCS % RPD 4th Quarter 2013

Curtis & Tompkins, Ltd.

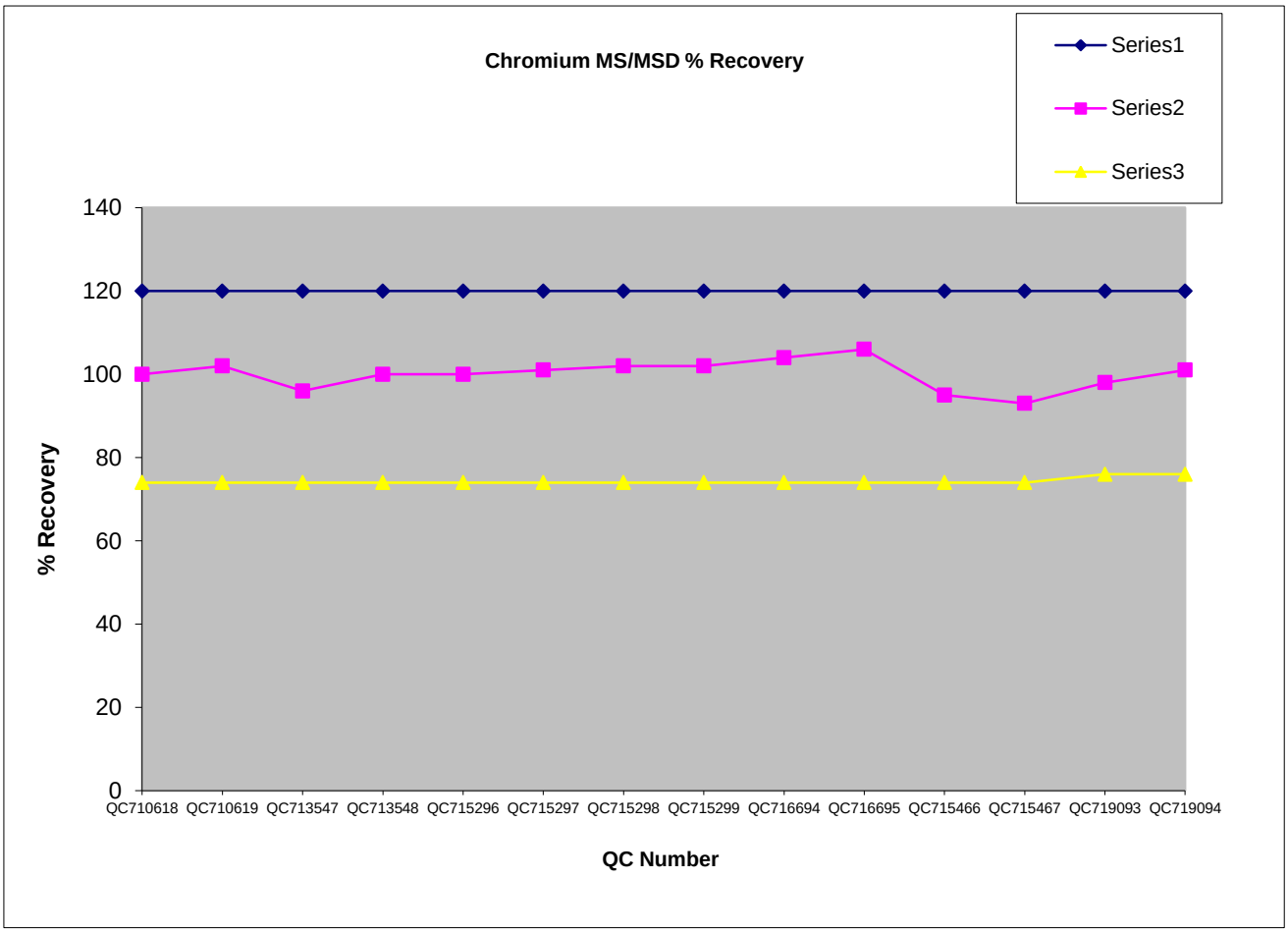
Maxiumum % RPD	Calculated %RPD	QC Number
20	6	QC710616/QC710617
20	3	QC713545/QC713546
20	4	QC715294/QC715295
20	6	QC716692/QC716693
20	5	QC715464/QC715465
20	0	QC719091/QC719092



Dissolved Chromium MS/MSD % Recovery 4th Quarter 2013

Curtis & Tompkins, Ltd.

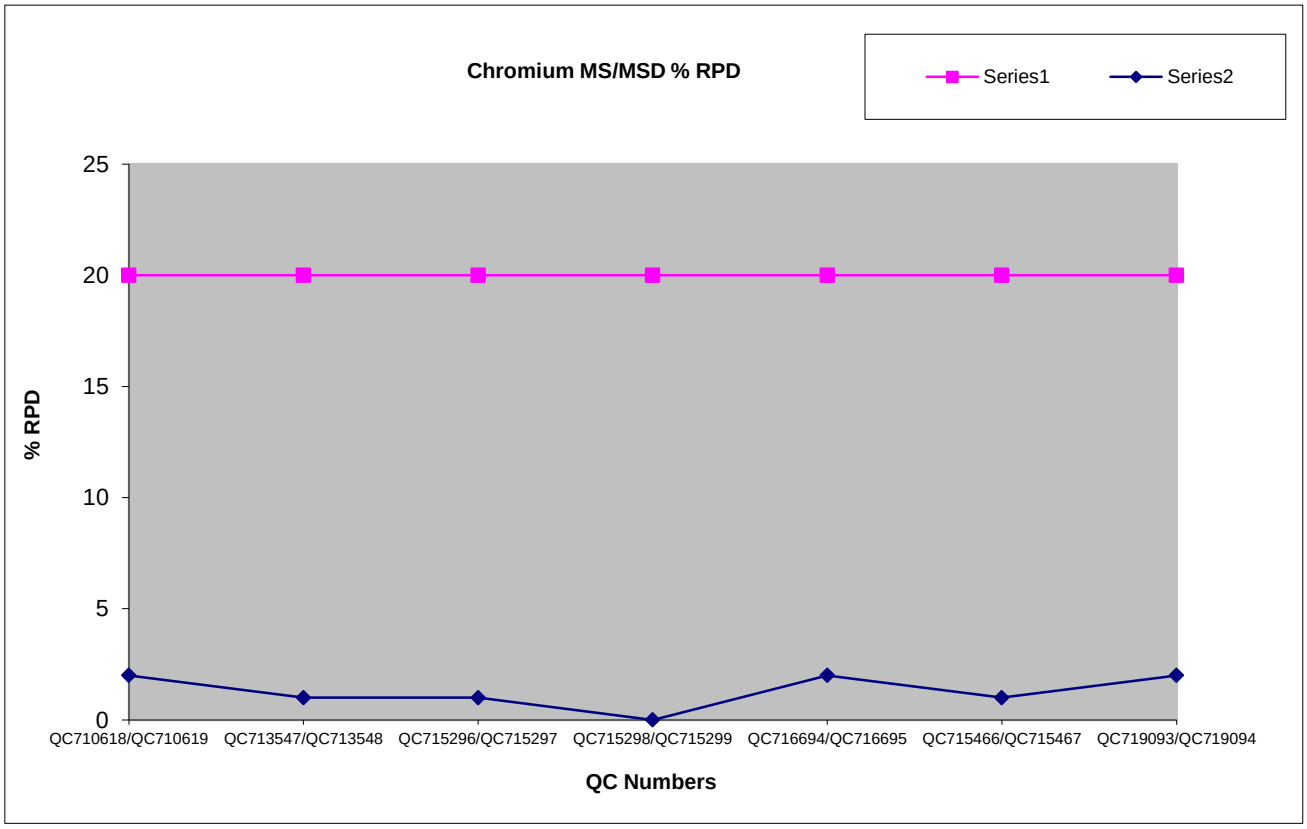
Lower Control Limit	Upper Control limit	% Recovery	QC Number
74	120	100	QC710618
74	120	102	QC710619
74	120	96	QC713547
74	120	100	QC713548
74	120	100	QC715296
74	120	101	QC715297
74	120	102	QC715298
74	120	102	QC715299
74	120	104	QC716694
74	120	106	QC716695
74	120	95	QC715466
74	120	93	QC715467
76	120	98	QC719093
76	120	101	QC719094



Dissolved Chromium MS/MSD % RPD 4th Quarter 2013

Curtis & Tompkins, Ltd.

Maxiumum % RPD	Calculated %RPD	QC Number
20	2	QC710618/QC710619
20	1	QC713547/QC713548
20	1	QC715296/QC715297
20	0	QC715298/QC715299
20	2	QC716694/QC716695
20	1	QC715466/QC715467
20	2	QC719093/QC719094

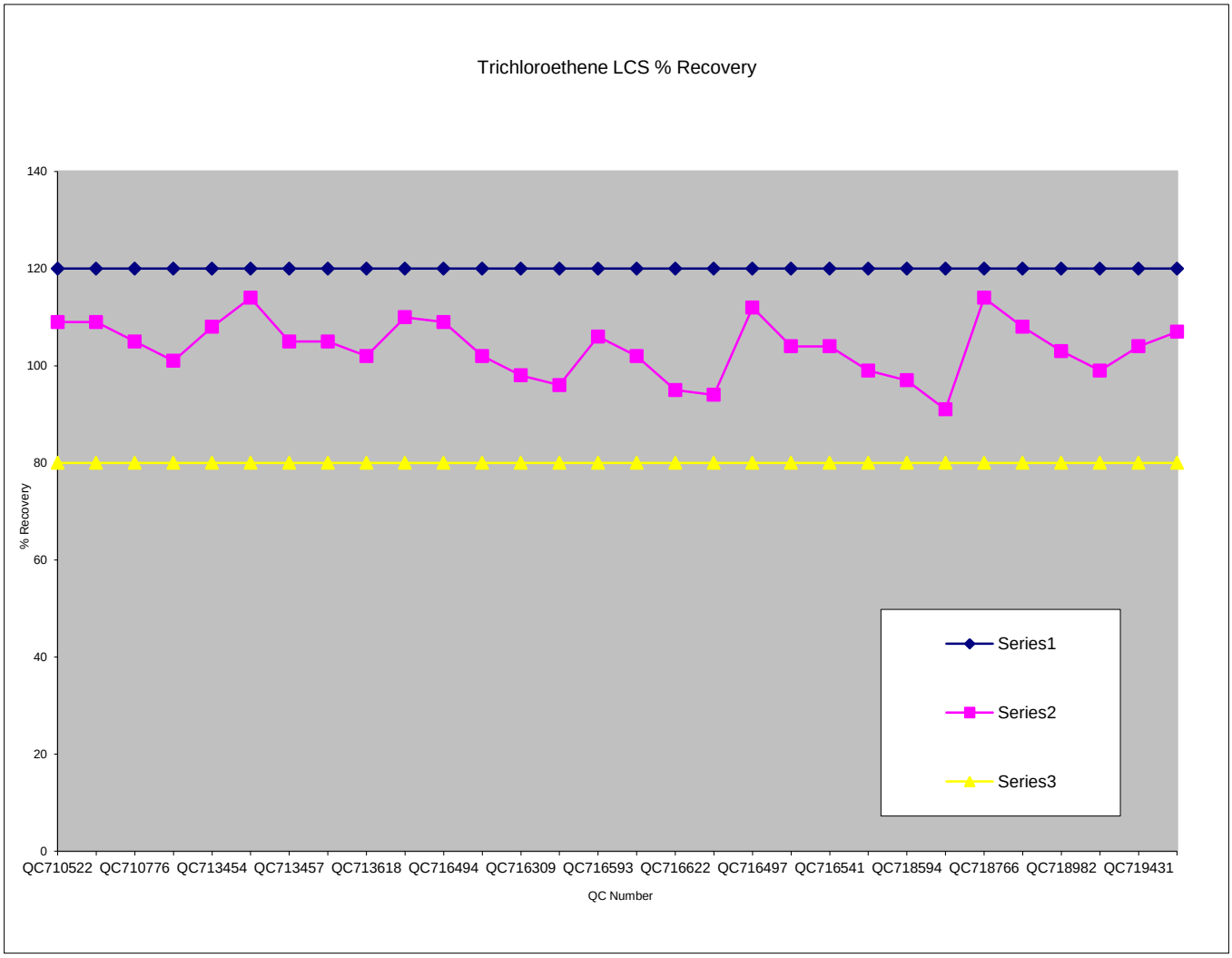


Trichloroethene LCS % Recovery 4th Quarter 2013

Curtis & Tompkins, Ltd.

Lower Control Limit	Upper Control limit	% Recovery	QC Number
80	120	109	QC710522
80	120	109	QC710523
80	120	105	QC710776
80	120	101	QC710777
80	120	108	QC713454
80	120	114	QC713455
80	120	105	QC713457
80	120	105	QC713458
80	120	102	QC713618
80	120	110	QC713619
80	120	109	QC716494
80	120	102	QC716495
80	120	98	QC716309
80	120	96	QC716310
80	120	106	QC716593
80	120	102	QC716594
80	120	95	QC716622
80	120	94	QC716623
80	120	112	QC716497
80	120	104	QC716498
80	120	104	QC716541
80	120	99	QC716542
80	120	97	QC718594
80	120	91	QC718595
80	120	114	QC718766
80	120	108	QC718767
80	120	103	QC718982
80	120	99	QC718983
80	120	104	QC719431
80	120	107	QC719432

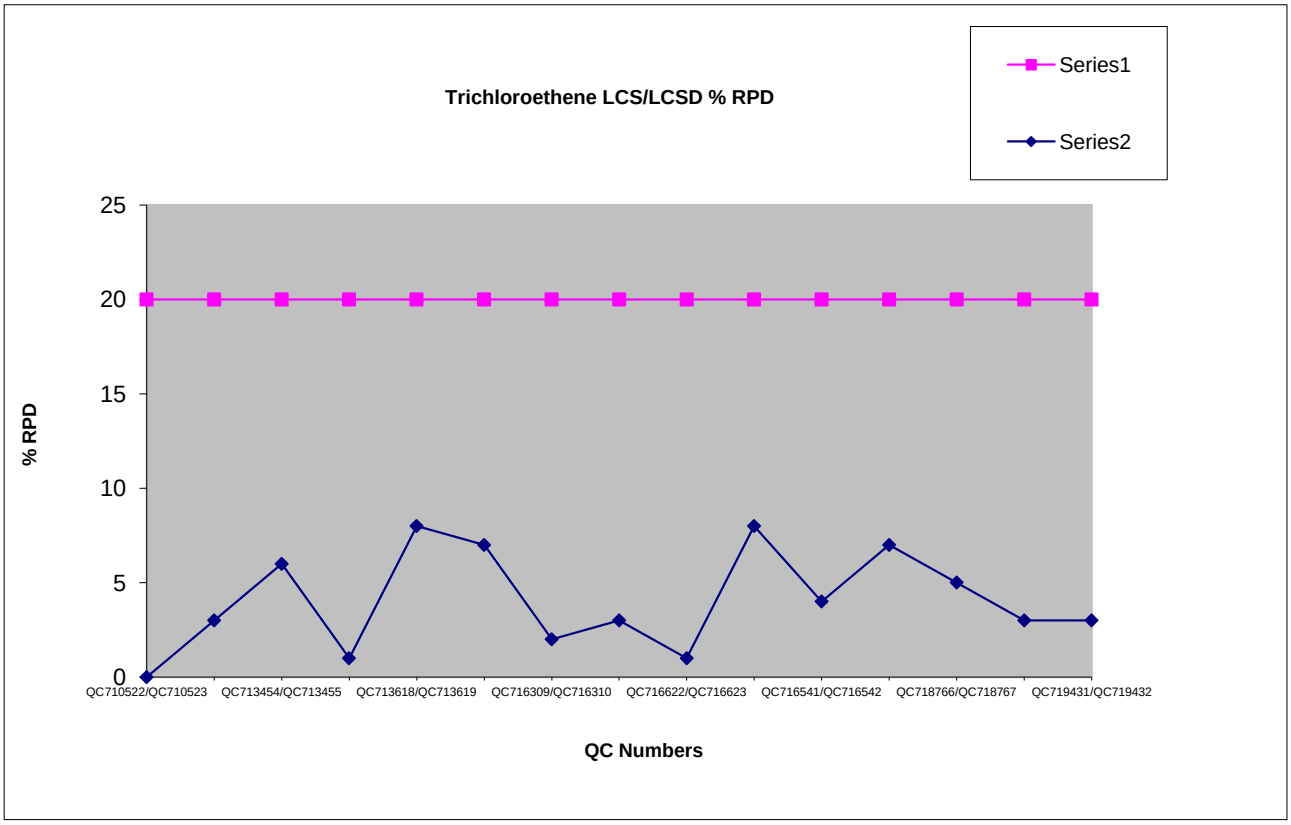
Curtis & Tompkins, Ltd.



Trichloroethene LCS/LCSD % RPD 4th Quarter 2013

Curtis & Tompkins, Ltd.

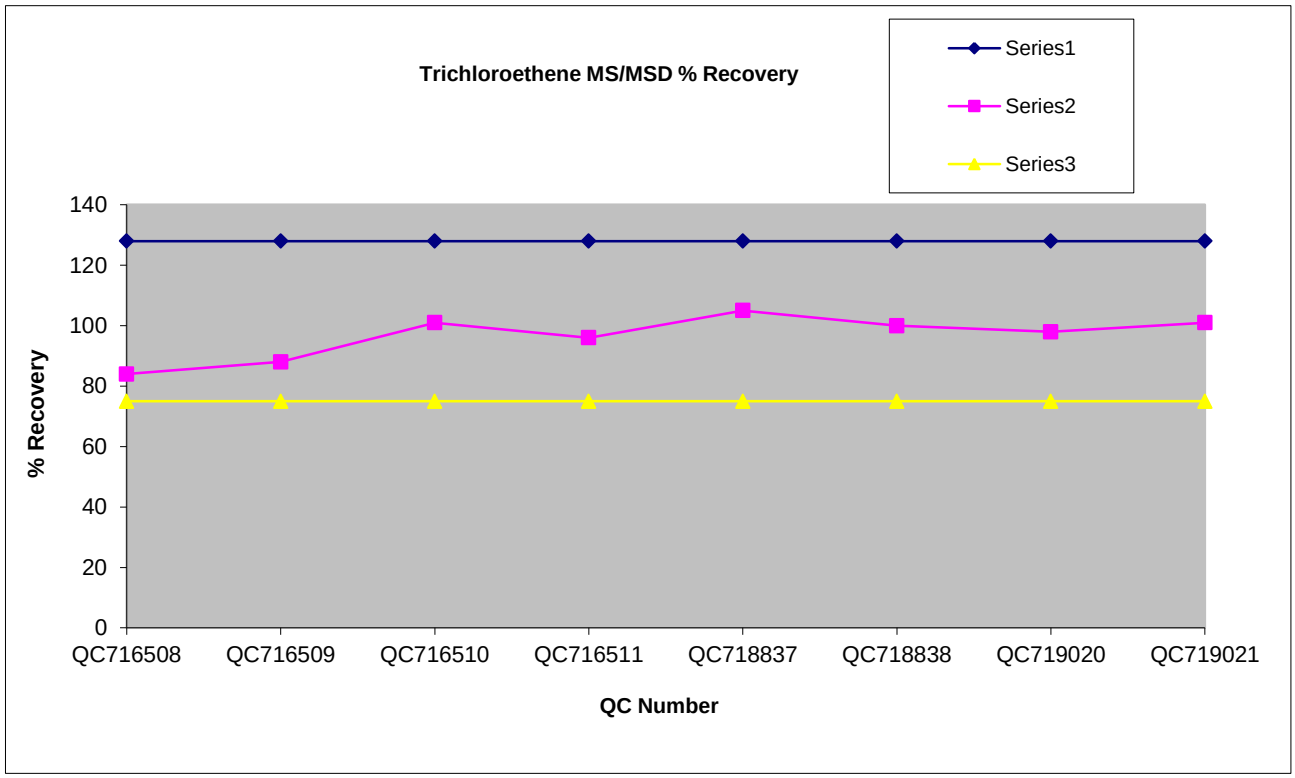
Maxiumum % RPD	Calculated %RPD	QC Number
20	0	QC710522/QC710523
20	3	QC710776/QC710777
20	6	QC713454/QC713455
20	1	QC713457/QC713458
20	8	QC713618/QC713619
20	7	QC716494/QC716495
20	2	QC716309/QC716310
20	3	QC716593/QC716594
20	1	QC716622/QC716623
20	8	QC716497/QC716498
20	4	QC716541/QC716542
20	7	QC718594/QC718595
20	5	QC718766/QC718767
20	3	QC718982/QC718983
20	3	QC719431/QC719432



Trichloroethene MS/MSD % Recovery 4th Quarter 2013

Curtis & Tompkins, Ltd.

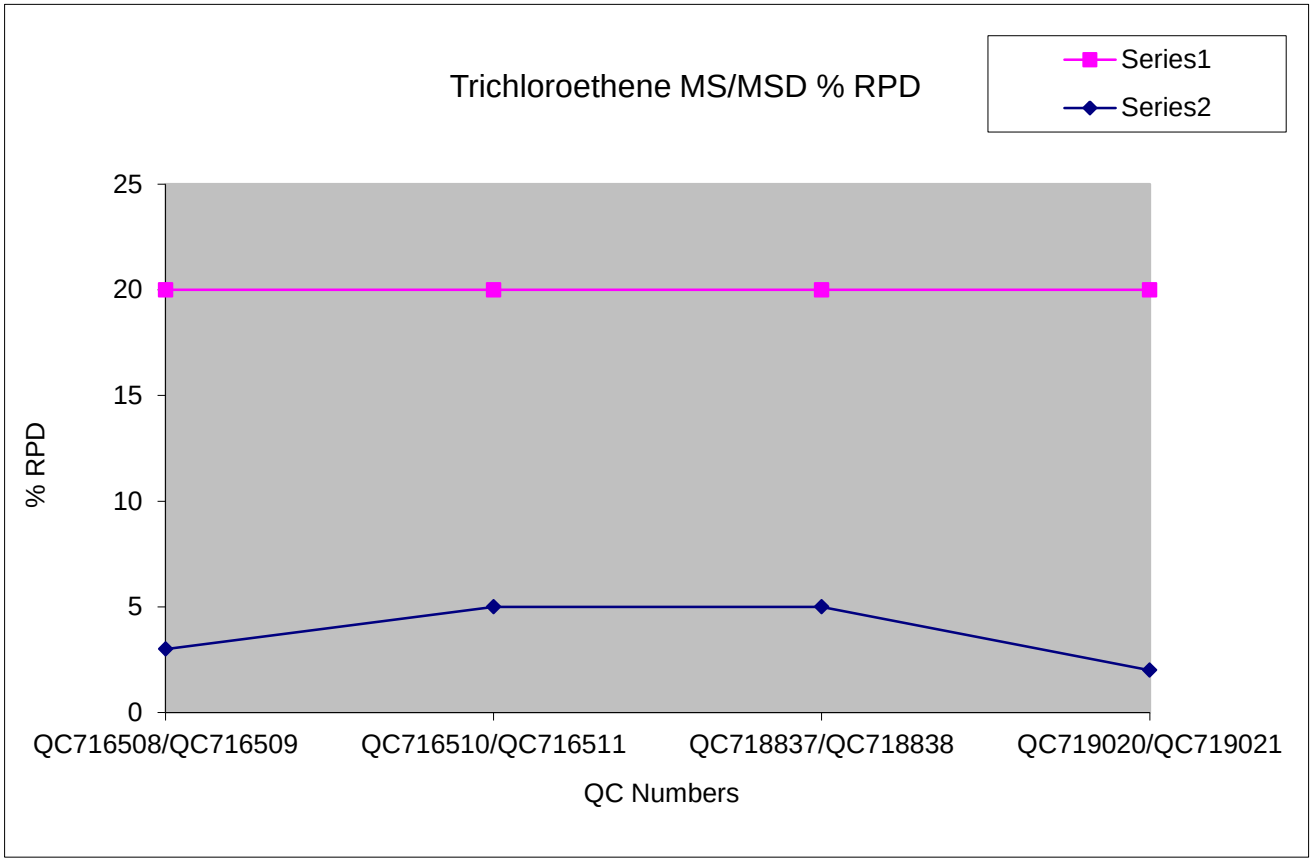
Lower Control Limit	Upper Control limit	% Recovery	QC Number
75	128	84	QC716508
75	128	88	QC716509
75	128	101	QC716510
75	128	96	QC716511
75	128	105	QC718837
75	128	100	QC718838
75	128	98	QC719020
75	128	101	QC719021



Trichloroethene MS/MSD % RPD 4th Quarter 2013

Curtis & Tompkins, Ltd.

Maxiumum % RPD	Calculated %RPD	QC Number
20	3	QC716508/QC716509
20	5	QC716510/QC716511
20	5	QC718837/QC718838
20	2	QC719020/QC719021

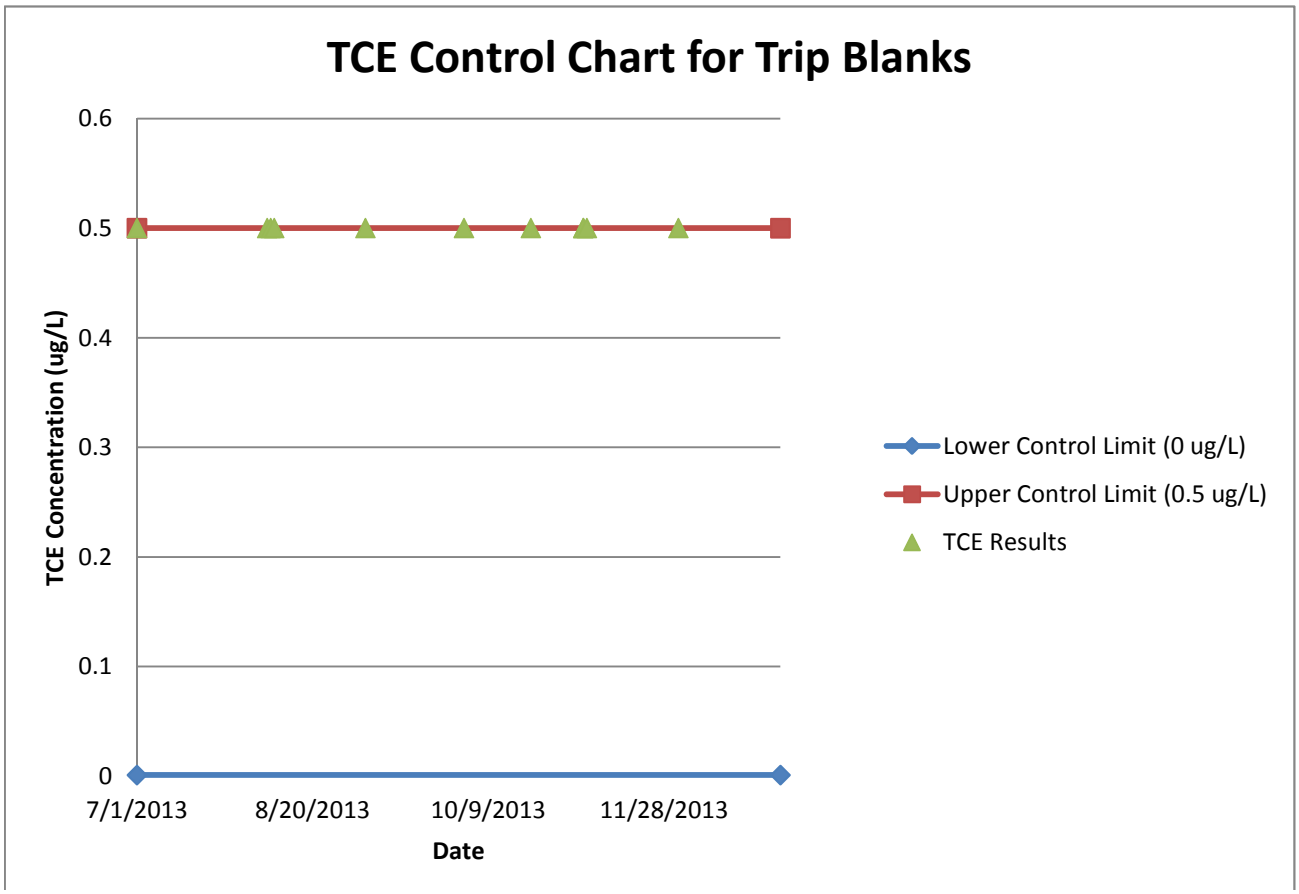


Appendix D

Attachment D
Equipment, Field and Trip Blank Control Charts

Trip Blank Blank TCE Sample Results
July 1, 2013 - December 31, 2013
PGA-South

Sample Date	Lab Sample Number	Lab Batch Number	TCE Result (ug/L)	Laboratory Flag	ADEQ Flag
7/1/2013	246655-011	200418	0.5	U	
8/7/2013	247738-011	201561	0.5	U	
8/8/2013	247818-024	201683	0.5	U	
8/9/2013	247902-022	201700	0.5	U	
9/4/2013	248701-011	202696	0.5	U	
10/2/2013	249598-011	203729	0.5	U	
10/21/2013	250082-013	204418	0.5	U	
11/5/2013	250558-011	205101	0.5	U	
11/5/2013	250555-013	205153	0.5	U	
11/6/2013	250604-016	205162	0.5	U	
12/2/2013	251273-011	205784	0.5	U	



APPENDIX E

Chrome Drying Bed Cover Inspection

Draft

Inspection Form for Former Chrome Drying Bed Cover
JRC Goodyear Facility
Phoenix-Goodyear Airport South Superfund Site
Goodyear, Arizona

General Information

1. Name of Inspector: Timothy Schumacher
2. Company: Haley & Aldrich, Inc.
3. Date of Inspection: 9/4/13
4. Time: 10:00
5. Weather:

   Sunny [X] Cloudy [ ] Windy [ ] Rain [ ]
6. Temperature: 97 °F
7. Ground Conditions: Wet [ ] Dry [X]

Is this a scheduled inspection? Yes [X] No [ ]

If no, explain: _____

Perimeter Fence Inspection

Any signs of unauthorized entry?	Yes [ ]	No [X]
Any fence posts damaged?	Yes [ ]	No [X]
Is perimeter rope in good condition?	Yes [ ]	No [X]

Comments: Replaced weathered nylon rope with new galvanized wire rope.

Cover Inspection

Is there any evidence of damage to the site cover or gravel caused by erosion?

Yes ☐ No ☒

If yes, note area and explain: _____

_____

Is there any evidence of subsidence of the stabilized material?

Yes ☐ No ☒

If so, would that surface change result in ponding following a rain event?

Yes ☐ No ☒

Are there any surface disturbances from vehicles or other physical actions?

Yes ☐ No ☒

Are there any excavations on site or near the site?

Yes ☐ No ☒

Is there any evidence of vandalism at the site?

Yes ☐ No ☒

If yes to any, please explain: _____

_____

_____

_____

Action Items

None

Weathered nylon rope replaced with new 1/8" galvanized wire rope.

View of chromium beds in northeast direction.