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Engineers and Scientists

October 14, 2014
File No. 01.0024065.14

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Re: Semi-Annual Project Progress Report
January 2014 (Q1) through June 2014 (Q2)
Hewlett-Packard Company Voluntary Remediation Project
San German, Puerto Rico

Dear Ms. Toro:

GZA GeoEnvironmental, Inc., on behalf of Hewlett-Packard Company, is submitting the semi-annual Project Progress Report for the San German voluntary remediation project (reporting period January 2014 (Q1) through June 2014 (Q2)). During this reporting period the groundwater containment and treatment system was not in operation consistent with the plan to evaluate intrinsic biodegradation as a remedial strategy for the subject site. Implementation of the Intrinsic Biodegradation Study commenced in late October 2010 and continued through the current reporting period.

Please contact the undersigned or Mr. Paul Paschke (Hewlett-Packard Company) at 970-898-0573 or paul.paschke@hp.com, if you have any questions.

Very truly yours,

GZA GEOENVIRONMENTAL, INC.

John A. Colbert
Senior Project Manager

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Attachment: January 2014 (Q1) through June 2014 (Q2) Project Progress Report

cc: File
Díaz, Lorena Rodríguez; Puerto Rico Environmental Quality Board
Aviles, Jesse; United States Environmental Protection Agency Region II
Morales, Jorge; Puerto Rico Industrial Development Company
Meléndez, Joel; Puerto Rico Industrial Development Company
Fornés, Karen; Puerto Rico Industrial Development Company
Paschke, Paul; Hewlett-Packard Company

SEMI-ANNUAL PROJECT PROGRESS REPORT
JANUARY 2014 (Q1) THROUGH JUNE 2014 (Q2)
HEWLETT-PACKARD
VOLUNTARY REMEDIAL ACTIONS
SAN GERMAN, PUERTO RICO

PREPARED FOR:
Hewlett-Packard Company
Fort Collins, Colorado

PREPARED BY:
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October 2014
File No. 01.0024065.14

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1.0 INTRODUCTION

This Semi-Annual Project Progress Report is the thirty-ninth report submitted in support of the Hewlett-Packard Company (Hewlett-Packard) Voluntary Soil and Groundwater Remediation project at the Former Digital Equipment Corporation[1] facility in San German, Puerto Rico (the "Site"). Refer to Figure 1 for a Locus Plan. Hewlett-Packard has retained GZA GeoEnvironmental, Inc. (GZA) to perform this work in accordance with the Intrinsic Biodegradation (IB) Study Work Plan[2] ("IB Work Plan") previously submitted to the Environmental Quality Board of Puerto Rico (EQB) and the United States Environmental Protection Agency (EPA).

Groundwater sampling was performed in general accordance with Hewlett-Packard's Quality Assurance Project Plan (QAPP) (Revision 3, Voluntary Remediation Project, San German, dated May 2010) developed for the Hewlett-Packard Voluntary Soil and Groundwater Remediation Project. Pertinent project analytical data have been validated by a Puerto Rico-certified chemist. Please note that the findings, opinions, conclusions, and recommendations presented in this report are subject to the Limitations provided in Appendix A.

2.0 REPORTING PERIOD

This progress report covers the period from January 1, 2014 (beginning of first quarter 2014) through June 30, 2014 (end of second quarter 2014).

3.0 REMEDIAL SYSTEM DESCRIPTION

As a source control measure, a soil vapor extraction (SVE) system was operated at the site between October 1995 and November 2004. Hewlett-Packard received EQB's concurrence to deactivate and decommission the SVE system in a letter dated October 25, 2004. The SVE system was deactivated on November 11, 2004 and decommissioning was completed in February 2005.

In addition to source control measures, a Groundwater Containment and Treatment System (GWCTS) was installed and operated at the site, beginning in October 1995. In accordance with the IB Work Plan, operation of this system was discontinued on

[1] Hewlett-Packard Company and Compaq Computer Corporation merged in 2003 and Compaq Computer Corporation had acquired Digital Equipment Corporation in 1998.

[2] GZA, May 14, 2010, Intrinsic Biodegradation Study Work Plan, Hewlett-Packard, Voluntary Remedial Actions, San German, Puerto Rico. (Revision and Response to Comments submitted to EQB on September 29, 2010. IB Work Plan was approved in writing by EQB on October 29, 2010.)

November 1, 2010, with EQB's concurrence as described in their letter dated October 29, 2010. The GWCTS has remained shut down during this reporting period.

The objective of the IB study is to evaluate whether, in the absence of any additional remedial technologies, IB of the residual chlorinated volatile organic compounds (cVOCs) in groundwater can continue to reduce dissolved concentrations while maintaining a condition of no significant risk to human or environmental receptors. The GWCTS will remain deactivated during this evaluation. Refer to Figure 2 for locations of the GWCTS components.

The groundwater treatment system (GWTS) is located in the northeastern portion of the site. Prior to the start of this IB study, treated groundwater was discharged to the sanitary sewer under Hewlett-Packard's Puerto Rico Aqueduct and Sewer Authority (PRASA) Discharge Authorization (AUA-E-06-313-018).

4.0 KEY SITE ACTIVITIES FOR REPORTING PERIOD

Low-flow groundwater quality sampling was conducted at the Site from April 15 through 17, 2014 by a subcontractor, JFA Geological & Environmental Scientists, P.S.C. (JFA), and GZA. Water levels were obtained in accordance with the IB Work Plan on January 22 and April 18, 2014 by JFA.

Between April 7 and April 17, 2014, monitoring wells GZ-701L, GZ-701R, GZ-702U, and GZ-703R were installed in accordance with the Department of Natural and Environmental Resources (DNER) permit O-FA-PRE11-SJ-00430-16122013 dated December 16, 2013.

The GWCTS was inspected on a monthly basis by a subcontractor, FMC Mechanical, Inc. No testing of the components could be completed following the loss of electrical power caused by vandalism to the system that occurred in July 2012.

No repairs or replacement of electrical equipment have been made at this time given the severity and reoccurrence of vandalism issues at the site[3].

5.0 KEY PROJECT DOCUMENTS FOR REPORTING PERIOD

Key project documents generated during this reporting period are presented below.

[3] The high cost to replace hundreds of feet of electrical wiring and conduit and the high probability of continued vandalism at this Site make corrective action unfeasible at this time.

6.0 GWTS OPERATION AND MAINTENANCE ACTIVITIES

This section discusses operation and maintenance (O&M) activities performed during this reporting period.

6.1 GWTS O&M

The GWTS was not in operation during this reporting period. Various housekeeping/monitoring activities were conducted as needed.

6.2 MONITORING WELL INSTALLATION

Four additional monitoring wells were installed between April 7 and 17, 2014. On behalf of HP, GZA's subcontractor installed an alluvium well to the west of GZ-513R along state highway PR-360 (GZ-702U), a well couplet (saprolite and bedrock) to the north of GZ-507R along the municipal road (GZ-701L and GZ-701R), and a bedrock monitoring well in the vicinity of abandoned well W-6 (GZ-703R) as shown on Figure 2.

HP originally proposed installing five monitoring wells including two wells (saprolite and bedrock) to the west of GZ-513R on PR-360. Due to difficulties drilling through an unexpectedly thick alluvium layer at this location, HP installed one well in the alluvium and plans to install a well (GZ-702R) in bedrock at a later date.

The wells were installed to enhance the characterization of groundwater conditions for the Site. Monitoring well GZ-701L is installed in the saprolite unit, and GZ-701R is installed in the bedrock unit. Monitoring well GZ-702U is installed in the alluvium unit, and GZ-703R is installed in the bedrock unit. The locations of the wells are depicted on Figure 2.

The wells were installed under the Department of Natural and Environmental Resources (DNER) permit O-FA-PRE11-SJ-00430-16122013 dated December 16, 2013 and with written permission from the municipality of San German dated November 20, 2013; the owner of the Site (PRIDCO) dated February 5, 2014; and the Puerto Rico Roads and Transportation Authority dated January 28, 2014. The boring logs for these wells are included in Appendix G. Following installation of the final proposed well (GZ-702R), HP will submit a completion report to the DNER and revisions to the IB Work Plan and QAPP as requested by EQB in their approval letter dated November 22, 2013.

6.3 WASTE MANAGEMENT

As mentioned in the previous semi-annual report, approximately 50 gallons of purge water were generated during the October 2013 groundwater sampling event. This water was stored on-Site and was treated on-Site on December 9, 2013 using liquid-phase carbon. Following treatment, the purge water was sampled on January 22, 2014. Upon receipt of acceptable results, the treated purge water was discharged to the sanitary sewer in accordance with the PRASA discharge authorization on February 3, 2014.

Additionally, approximately 200 gallons of purge and development water were generated during the April 2014 well installation and groundwater sampling event. This water was stored on-Site and was treated on-Site on April 17, 2014 using liquid-phase carbon. Following treatment, the purge water was sampled on April 17, 2014. Upon receipt of acceptable results, the treated purge water was discharged to the sanitary sewer in accordance with the PRASA discharge authorization on May 10, 2014.

6.4 PRASA DISCHARGE AUTHORIZATION MONITORING

Groundwater purged from monitoring wells during sampling events or generated during well installation was treated with liquid-phase carbon. Treated purge water samples were collected during this reporting period on January 22 and April 17, 2014. Quarterly reports will continue to be submitted to PRASA to maintain the permit (AUA-E-06-313-018) should the groundwater treatment system need to be restarted or should additional groundwater generated from sampling events need to be processed.

7.0 IB WORK PLAN IMPLEMENTATION

On October 26, 2010, implementation of the IB Work Plan began with the baseline groundwater gauging and sampling conducted October 26 through 29, 2010 and November 1, 2010. On November 1, 2010, the GWCTS was deactivated. This work was performed in accordance with the IB Work Plan and EQB's concurrence letter dated October 29, 2010. Groundwater monitoring wells were gauged for groundwater elevation and sampled for laboratory and/or field analyses to meet the principal objectives of:

(i) Evaluating whether dissolved cVOC concentrations at the Site continue to decline;

(ii) Assessing the relative proportion of trichloroethene (TCE) to its daughter compounds, and quantifying other biologically-sensitive parameters, to confirm biodegradation is occurring along expected degradation pathways; and,

(iii) Evaluating the potential for off-Site migration of impacted groundwater via evaluation of groundwater elevation/flow contours and perimeter well monitoring.

This section discusses the data collected during this reporting period and the associated preliminary findings.

Over 50 monitoring wells were used to monitor groundwater during this reporting period, and 39 of those wells were sampled on April 15, 16, and 17, 2014 for cVOCs and IB screening parameters in accordance with the EQB-approved IB Work Plan and QAPP Revision 3, dated May 14, 2010. Two wells (GZ-504U and WB-1U) were not sampled as scheduled because they were dry or had an insufficient volume of water during the sampling period. The results of the April 2014 groundwater sampling event are presented in Tables 1 and 2. Table 3 summarizes the wells sampled during the April 2014 groundwater sampling event as compared to those required to be sampled by the IB Work Plan.

With the exception of well BR-308, which is a deep six-inch diameter bedrock well, the monitoring wells consist of two-inch-diameter screens and casings that have been installed in the fill/alluvium, saprolite, and bedrock units. Each monitoring well is covered by a road box to protect it from vehicular traffic. A lockable well plug is installed at the top of each monitoring well casing within the road box.

The sentinel groundwater monitoring wells installed north of the Site in February 2012 (GZ-601L and GZ-601R) were included in the gauging and sampling event conducted in April 2014. Additionally, new wells, GZ-701L and GZ-701R (north of GZ-507R), and GZ-702U (west of GZ-513R) were included in the April 2014 gauging and sampling event. GZ-703R was also installed, gauged, and sampled in April 2014 in the southern portion of the Site.

7.1 GROUNDWATER ELEVATION MONITORING

During this reporting period, groundwater elevations were gauged in accordance with the IB Work Plan. The elevation data was collected quarterly, January 22 and April 18, 2014. These data, along with previous data dating back to November 2010 are presented in Table 4.

The groundwater elevations in the well network were measured using a water level indicator, except for six wells on the adjacent Puerto Rico Power Authority (PREPA) property (GZ-507R, GZ-508R, GZ-509R, GZ-510R, GZ-512R, and GZ-513R). Prior to abandoning the screens in these wells, as required under the PREPA access agreement, pressure transducers were installed to allow for continued water level monitoring.

Bedrock groundwater elevation contours for the most recent monitoring round (April 18, 2014) are presented on Figure 3. These data show that, under non-pumping conditions, groundwater generally flows north-west across the eastern portions of the Site, and then mainly north-westerly from the western portions of the Site to the adjacent property owned by PREPA.

7.2 APRIL 2014 GROUNDWATER SAMPLING

During the April 2014 sampling round, select monitoring wells were sampled for specific IB parameters[4] and/or cVOCs. The groundwater cVOC concentrations are used to monitor cVOC distribution and temporal trends, and the cVOC concentrations plus IB parameters are used to evaluate the evidence for IB at the Site. Analyses conducted for each well were in general accordance with Table 2 of the IB Work Plan, with the following exceptions:

- Monitoring wells GZ-504U and WB-1U were not sampled because the wells were dry or had an insufficient volume of water during the April 2014 sampling round; and
- Wells GZ-601L, GZ-601R, GZ-701L, GZ-701R, GZ-702U, GZ-703R, OW-305U, GZ-515U, OW-102, OW-301, OW-408, WB-3L, WB-4L, GZ-505R, GZ-504L, and GZ-504R[5] were proactively added to the required list so as to provide a more complete set of IB parameters and cVOCs to enhance the available data set for those areas.

Refer to Table 3 for the list of wells that were sampled and Figure 2 for the locations of these wells.

Groundwater sampling was conducted employing low-flow techniques in accordance with Revision 3 of the QAPP (dated May 2010). This sampling event took three days to complete (April 15 through 17, 2014). The groundwater elevation at each well was measured using a water level indicator prior to well purging. The well was then purged at a rate that limited drawdown until the low-flow parameters (temperature, pH, dissolved oxygen (DO), oxidation-reduction potential (ORP), and specific conductance (SC)) stabilized. If a well was purged dry, it was allowed to recharge and was sampled upon recharge or the next day. Trip blanks and field blanks were collected each day of sampling. An equipment blank was collected on April 17, 2014. One field duplicate was collected each day on April 15, 16, and 17, 2014. One matrix spike/matrix spike duplicate was collected each day on April 15 and 17, 2014. Blanks and duplicates were analyzed for cVOCs only. Temperature blanks were included in each cooler, but were only used to aid the laboratory in measuring the temperature of the cooler upon arrival and were not analyzed for chemical constituents.

Purge water generated from the groundwater sampling event was temporarily stored and secured in a 55-gallon drum and was processed on-Site and properly discharged to the sanitary sewer.

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[4] The full set of IB parameters include dissolved iron, sulfate, methane, ethane, ethene, nitrate, TOC, chloride, and the field parameters DO, ORP, and pH. The limited set includes VOCs, TOC, and the field parameters DO, ORP, and pH.

[5] A limited set of parameters was required in the Intrinsic Biodegradation Work Plan for GZ-504R; however, a full set of parameters was proactively sampled for during the April 2014 sample event.

Groundwater samples were submitted to TestAmerica of Tallahassee, Florida and Savannah, Georgia, and were analyzed for cVOCs by EPA Method 8260B; nitrate by calculated difference of EPA Method 353.2 and SM4500-NO2; dissolved iron by EPA Method 6010B; chloride and sulfate by EPA Method 300.0; methane, ethane, and ethene by EPA Method RSK-175; and total organic carbon (TOC) by SM 5310B. The analytical results for cVOCs were certified by a Puerto Rico-certified chemist and were validated by GZA as required by QAPP Revision 3.

7.3 GROUNDWATER MONITORING RESULTS

Laboratory analytical results for groundwater samples collected in April 2014 are summarized in Table 1 (cVOCs) and Table 2 (IB Parameters). These tables also provide results from the four or eight most recent analyses for each well[6], including the April 2014 results. Temporal trend graphs for concentration and molarity for TCE, *cis*-1,2-dichloroethene (1,2-DCE), and vinyl chloride (VC) at select wells are provided in Appendices B and C, respectively, which are inclusive of data collected to date for these respective monitoring well locations. Trend graphs for concentrations of IB parameters are provided in Appendix D. Plume contours for TCE in fill, TCE in saprolite/bedrock, 1,2-DCE in fill, 1,2-DCE in saprolite/bedrock, VC in fill, and VC in saprolite/bedrock are shown in Figures 4A through 4F, respectively. The laboratory analytical reports for the April 2014 sampling events are provided in Appendix E.

The cVOC concentrations for April 2014 are, with a few exceptions which are discussed below, generally lower than or comparable to the previous groundwater sampling rounds indicating that intrinsic biodegradation is occurring. The data collected during this reporting period have been utilized to assess trends, especially post GWCTS deactivation, as outlined below.

cVOC Temporal Trend

GZA graphed historical concentrations and molarities of TCE, 1,2-DCE, and VC over time for 26 monitoring wells that have been routinely sampled during the recent and current reporting periods as shown in Appendices B and C, respectively. Monitoring wells GZ-503L, OW-307, OW-401, OW-402U, OW-402L, OW-402R, and OW-403L have been included in the trend figures for this reporting period but were not sampled consistently in the past. These trend figures were included to enhance the analysis of cVOC concentrations at these locations. In general, TCE concentrations have exhibited a downward temporal trend consistent with IB.

Given that one mole of TCE yields one mole of 1,2-DCE via a reductive dechlorination pathway, comparisons using mass per volume measurements are biased by the mass difference between the two chemical compounds due to the replacement of the heavier chlorine atom with a lighter hydrogen atom (i.e., while one mole of TCE yields one mole

[6] For wells that have been sampled on a semi-annual basis since baseline sampling, eight rounds of sampling starting with the baseline sampling event are shown in the tables. For the remaining wells, the four most recent sampling rounds, including the April 2014 sampling event, are shown.

of 1,2-DCE, one gram of TCE yields less than one gram of 1,2-DCE via dechlorination). To normalize the data for the purpose of evaluating the TCE to 1,2-DCE transformation path, GZA converted the data for these compounds from mass per volume (concentrations) to their molar equivalencies.

The molarity trend analysis (Appendix C) illustrates the 1,2-DCE dominance at the Site, which is consistent with the reductive dechlorination of TCE. All but seven of the wells (GZ-504R, OW-304L, GZ-506R, WB-4L, OW-307, OW-402U, and OW-304R) reflect a greater molarity of 1,2-DCE than of TCE, most with a substantial difference. OW-304L and OW-304R show the TCE molarity approaching the 1,2-DCE molarity; however, GZ-504R, GZ-506R, OW-402U, OW-307, and WB-4L show an increase in the difference between the higher TCE molarity and the lower 1,2-DCE molarity. These wells will continue to be monitored in subsequent sampling rounds. Table 5 shows the proposed wells to be sampled during the next sampling event scheduled for October 2014.

Because there has been no known release of 1,2-DCE on Site, the most plausible explanation for the 1,2-DCE dominance at the Site is that biodegradation is occurring via a reductive dechlorination pathway[7], converting TCE to 1,2-DCE and liberating a chloride anion. Significantly, while TCE is generally only biodegradable under anaerobic conditions, 1,2-DCE is biodegradable under both aerobic and anaerobic conditions. As a result, it is possible to have decreasing molarity of 1,2-DCE while TCE is concurrently degrading via reductive dechlorination and not reflect 1,2-DCE dominance.

Seven monitoring wells (GZ-503L, GZ-504R, GZ-506R, OW-307, GZ-505R, WB-4L, and WB-3L) that have not exhibited a general downward temporal trend are discussed below:

- The concentration of TCE at GZ-503L, while relatively low, has increased from a low of non-detect in November 2001 to 94 parts per billion (ppb) in April 2014. TCE concentrations have increased since GWCTS shutdown on November 1, 2010; however, the current TCE value of 94 ppb is lower than the maximum TCE concentration of 130 measured in 2003.
- The concentration of TCE at GZ-506R, while relatively low, has increased from a low of 0.87 ppb in November 2005 to 120 ppb in April 2014. However, the concentration of TCE at GZ-506R has decreased from the maximum TCE concentration of 220 ppb in the April 2013 sampling event. The graph is characterized by two peaks prior to the GWTS shutdown, one between approximately 2001 and 2003 (up to approximately 40 ppb) and the second between approximately 2006 and 2009 (peak of approximately 80 ppb)[8].
- The concentration of TCE at OW-307 has increased from a low of 31 ppb in October 2010 to a high of 930 ppb in the April 2014 sampling event. TCE

[7] There is also a co-metabolic pathway; however, that pathway is typically not a significant natural attenuation mechanism.

[8] The two peaks described likely reflect variations in the operation of the multiple groundwater extraction wells over time.

concentrations have increased since GWCTS shutdown on November 1, 2010; however, the current TCE value of 930 ppb is lower than the maximum TCE concentration of 1,100 measured in 2000.

- Historically, the TCE concentrations at GZ-504R, GZ-505R, WB-3L, and WB-4L were consistently non-detect or below the Puerto Rico Water Quality Standard (PRWQS) of 5.0 ppb. TCE concentrations at GZ-504R, GZ-505R, WB-3L, and WB-4L have generally increased since GWCTS shutdown on November 1, 2010 to14 ppb, 91 ppb, 59 ppb and 63 ppb, respectively, during the April 2014 sampling event. These four wells will continue to be sampled semi-annually.

Biodegradation Indicator Trend

The April 2014 biodegradation indicator data provide a snapshot of the Site conditions after about three and a half years of the IB Study.

The April 2014 data set for these indicator parameters was added to the temporal trend figures for each hydrogeological unit (fill/alluvium, saprolite, and bedrock - see Appendix D)[9]. There is no clear trend for any of the parameters on a Site-wide basis. However, several wells do show increasing dissolved iron concentrations, decreasing sulfate concentrations, increasing methane concentrations, measureable ethane and ethene, increasing chloride concentrations, decreasing nitrate concentrations, decreasing DO concentrations, decreasing ORP, or favorable pH since the shutdown of the GWCTS. Although TOC remains low in more than half of the wells sampled, IB can proceed by recycling microbial biomass when groundwater TOC is low. The geochemical trends suggest predominately favorable conditions for intrinsic anaerobic cVOC biodegradation via a reductive dechlorination pathway in the vicinities of those wells.

For example, OW-307 has favorable pH; very low DO; low ORP; elevated methane and ethane; favorable sulfate; very low nitrate; and generally increasing dissolved iron. All of the bedrock wells and most of the saprolite wells have favorably low DO concentrations. ORP levels generally increased from the April 2013 sampling event but remained consistent with the October 2013 results. Sixteen of the wells evaluated in Appendix D had favorable ORP (below 50 mV) during the April 2014 sampling round, and the rest were below 100 mV.

Summary

In general, the data collected to date, specifically the cVOC temporal trends discussed above, are consistent with the occurrence of IB via a reductive dechlorination pathway. Importantly, these data provide primary lines of evidence for cVOC biodegradation at the site.

[9] The data sets for GZ-601L and GZ-601R were added to the temporal trends. The data sets for GZ-701L, GZ-701R, GZ-702U, and GZ-703R were not added to the temporal trends as there is only one round of data.

7.4 DEVIATIONS FROM QAPP REVISION 3

QAPP Revision 3 was followed with some minor exceptions:

- We have been able to meet the relatively stringent holding time for nitrate during the past sampling rounds. We therefore plan to continue to analyze nitrate at the laboratory instead of in the field given the greater reliability of the nitrate laboratory analysis.
- Field blanks were collected daily per EQB's recommendation.
- The In-Situ SmarTroll, equipped with an optical DO sensor that yields more accurate DO readings, was used instead of the YSI 600 specified in the QAPP as the multi-parameter water quality indicator.
- Because a non-dedicated submersible well pump (Proactive Environmental Products Tempest/Twister) was used on April 17, 2014, an equipment blank was collected that day. The pump was decontaminated before and after deployment in each well by washing with an Alconox and water solution for five minutes followed by rinsing it using distilled water for five minutes.

7.5 DATA VALIDATION

In accordance with Revision 3 of the QAPP, select groundwater analytical data (cVOCs) were certified by a Puerto Rico-certified chemist and were validated by a GZA chemist. GZA performed the data validation in accordance with the EPA Region II Data Validation Standard Operating Procedures (SOPs) (located on the EPA Region II webpage at *http://www.epa.gov/region02/qa/documents.htm*). The criteria for accepting, rejecting, or qualifying data are included in these SOPs. The IB results do not require certification of validation based on the QAPP. Only the target cVOCs were reviewed as part of data validation. Overall, the quality assurance/quality control (QA/QC) results met the QAPP limits, and no data were rejected. Any analytical deficiencies are discussed in Appendix F.

As discussed in Appendix F, TCE and 1,2-DCE were detected in the equipment blank collected on April 17, 2014 associated with samples OW-304L, OW-304L DUP, and OW-304R above the laboratory reporting limit (1.0 microgram per liter (µg/L)). Based on this result, the decontamination procedure for the submersible pump will be supplemented with an isopropyl alcohol rinse following the Alconox bath and prior to the water rinse for future monitoring events. The equipment blank detections did not affect the sample results.

7.6 CONCLUSIONS

As described in more detail in Sections 7.1 and 7.3 above, the groundwater appears to generally flow north-west across the eastern portion of Site and then mainly north-westerly from the western portions of the Site to the adjacent property owned by PREPA.

Quarterly groundwater gauging and data evaluation will continue to be conducted over the next reporting period.

Consistent with previous observations, the biodegradation indicators yield data which support the conclusion that cVOC biodegradation is occurring at the Site. The majority of wells sampled for cVOCs during this reporting period show lower or comparable TCE concentrations relative to previous results. Additionally, certain other indicator parameters are consistent with the occurrence of IB at the site via a reductive dechlorination pathway.

HP installed an alluvium well to the west of GZ-513R on PR-360 (GZ-702U), a well couplet (saprolite and bedrock) to the north of GZ-507R on the municipal road (GZ-701L and GZ-701R), and a bedrock monitoring well in the vicinity of abandoned well W-6 (GZ-703R). Initial groundwater samples from the new wells to the north and west of the facility did not indicate detectable concentrations of TCE. Continued monitoring of these wells will enhance the plume data for the Site. HP is in the process of installing a bedrock well to the west of GZ-513R on PR-360. In addition, HP is evaluating the implementation of enhanced reductive dechlorination (ERD) programs at the Site.

8.0 PLANNED ACTIVITIES FOR NEXT REPORTING PERIOD

The planned activities for the next reporting period (third quarter (July 2014) through fourth quarter (December 2014)) are summarized below.

8.1 PUERTO RICO INDUSTRIAL DEVELOPMENT COMPANY / EQB / PRASA ACTION ITEMS

Actions items to be completed by EQB, PRIDCO, and PRASA are summarized below.

8.1.1 PRIDCO Action Items

None.

8.1.2 EQB Action Items

None.

Responses to the following document have been prepared. The questions/comments contained in this document are included in Appendix H. When applicable, modifications and clarifications have been incorporated into this Semi-Annual Project Progress Report.

- "Review of the Semi-Annual Project Progress Report: July (Q3) through December (Q4) 2013 – Voluntary Remedial Actions" dated June 4, 2014.

Following installation of the final proposed well (GZ-702R), HP will submit a revisions to the IB Work Plan and QAPP as requested by EQB in their approval letter dated November 22, 2013. Revisions will include changes to the monitoring frequency and the analytes analyzed for certain wells, specifically the wells installed since 2010 will be incorporated and groundwater gauging will be reduced from quarterly to semi-annually in addition to other minor changes. The revisions will also incorporate the field and equipment blanks and different equipment used on-Site mentioned in Section 7.4.

8.1.3 PRASA Action Items

None.

8.2 GWCTS ASSOCIATED ACTION ITEMS

The action items associated with the operation, maintenance, and monitoring of the GWCTS are summarized below. Due to the extent of damage caused by vandals and the costs and time to complete repairs and security measures to deter further vandalism, repairs to the system will not be completed at this time. Some of these action items (especially those in sections 8.2.1 through 8.2.3) cannot be accomplished without the needed system repairs.

8.2.1 Extraction Wells

- Extraction wells W-1, W-7, and W-8 were decommissioned in accordance with the DNER permit O-FA-PSP07-SJ-00099-28052013 issued on October 8, 2013. Well decommissioning activities occurred November 1 through 12, 2013.

8.2.2 Groundwater Treatment System

- The mechanical equipment covers (canvas tarpaulins, etc.) will be inspected monthly and re-secured as needed. The mechanical parts and components will be greased and oiled as needed;
- While not currently possible due to vandalism, the motors of the transfer pumps (P-1 and P-2) and backwash pumps (P-3 and P-4) should be activated monthly for approximately one hour; and
- The mechanical and electrical systems associated with the GWCTS will be inspected monthly.

8.2.3 Telemetry System

- While not currently possible due to vandalism, the operation of air conditioners for the control room and PLC panel should be maintained if the telemetry system and the GWCTS are reactivated.

8.2.4 Monitoring Wells

- Selected monitoring wells will be sampled for cVOCs, dissolved iron, sulfate, methane, ethane, ethene, TOC, chloride, nitrate, and the field parameters DO, ORP, and pH using low-flow methodology during the next semi-annual monitoring round in October 2014 as shown in Table 5;
- Groundwater elevations will continue to be measured quarterly in July and October 2014. Beginning in 2015, groundwater elevations will be measured on a semi-annual basis;
- Damaged well road boxes will be repaired as required; and
- HP is currently planning to install an additional monitoring well off-Site. This effort is on-going and further information will be presented in the next semi-annual progress reports.

8.2.5 Site

- The grass and vegetation along the pipe lines, well heads, and around the GWTS will be cut monthly or as needed.
- The property will be inspected and issues of site security including fencing and trespassers will be noted monthly.
- Structures (building systems) for the waste storage area, GWTS, and the extraction wells will be inspected monthly.
- Gutters and downspouts will be inspected monthly for leaves and debris and will be cleaned as needed.
- While not currently possible due to vandalism, sumps should be cleaned and sump pumps (A and B) operated monthly.

TABLES

TABLE 1
SUMMARY OF GROUNDWATER TESTING RESULTS - VOCS
Hewlett-Packard Voluntary Remediation Project
San German, Puerto Rico

SAMPLE LOCATION & DATE		Trichloroethene (TCE)	Vinyl chloride	cis-1,2 Dichloroethene (DCE)	trans-1,2 Dichloroethylene	Tetrachloroethene (PCE)	Chloroethane	2-Chloroethylvinyl ether	Chloroform	1,1- Dichloroethane (DCA)	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloropropane	1,1,1-Trichloroethane (TCA)	Trichlorofluoromethane	Chloromethane
Fill and Alluvium Wells																
Puerto Rico Water Quality Standards or *MCLs*		5.0	0.25	*70*	100	5.0	NE	NE	57	NE	3.8	7.0	5.0	200	NE	NE
GZ-501U	**10/27/2010**	<1.0	<1.0	**1.2**	<1.0	<1.0	<1.0	--	**0.29 JB**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	4/18/2011	NS	NS	NS	NS	NS	NS	--	NS	NS	NS	NS	NS	NS	NS	NS
	10/25/2011	<1.0	<1.0	**0.39 J**	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	4/11/2012	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/18/2012	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0 UJ	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ
GZ-503U	**10/27/2010**	<1.0	<1.0	**8.3**	<1.0	<1.0	<1.0	--	**0.27 JB**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	4/18/2011	**0.54 J**	<1.0	**22.0**	**0.42 J**	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/24/2011	**0.28 J**	<1.0	**9.4**	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	4/12/2012	<1.0	<1.0	**13**	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/17/2012	<1.0	<1.0 U	**8.3**	<1.0	<1.0	<1.0 UJ	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ
	4/24/2013	**0.26 J**	<1.0	**8.9**	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/30/2013	**0.23 J**	<1.0	**16**	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	4/15/2014	**0.60 J**	<1.0	**24**	**0.71 J**	<1.0	<5.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
GZ-504U	**10/26/2010**	NS	NS	NS	NS	NS	NS	--	NS	NS	NS	NS	NS	NS	NS	NS
	4/18/2011	NS	NS	NS	NS	NS	NS	--	NS	NS	NS	NS	NS	NS	NS	NS
	10/24/2011	NS	NS	NS	NS	NS	NS	--	NS	NS	NS	NS	NS	NS	NS	NS
	4/12/2012	NS	NS	NS	NS	NS	NS	--	NS	NS	NS	NS	NS	NS	NS	NS
	10/15/2012	NS	NS	NS	NS	NS	NS	--	NS	NS	NS	NS	NS	NS	NS	NS
	4/23/2013	NS	NS	NS	NS	NS	NS	--	NS	NS	NS	NS	NS	NS	NS	NS
	10/29/2013	NS	NS	NS	NS	NS	NS	--	NS	NS	NS	NS	NS	NS	NS	NS
	4/15/2014	NS	NS	NS	NS	NS	NS	--	NS	NS	NS	NS	NS	NS	NS	NS
GZ-506U	**10/27/2010**	**0.26 J**	<1.0	**12**	<1.0	<1.0	<1.0	--	**0.42 JB**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	4/19/2011	**0.77 J**	<1.0	**0.29 J**	<1.0	<1.0	<1.0 UJ	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/24/2011	**3.3**	<1.0	**3.6**	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0 UJ
	4/10/2012	**2.5**	<1.0	**2.0**	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/16/2012	**2.9**	<1.0	**1.0 J**	<1.0 UJ	<1.0	<1.0	--	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	<1.0
	4/24/2013	**2.7**	<1.0	**1.0**	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/30/2013	**1.8**	<1.0	**0.48 J**	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	4/16/2014	**1.3**	<1.0	**0.55 J**	<1.0	<1.0	<5.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ
GZ-511U	**3/12/2003**	**67 E**	**1.8**	**36**	**2.1**	**0.36 J**	**0.71 J**	**8.9 J**	**2.5**	**0.74 J**	**0.53 J**	**1.5**	**7.1**	**1.5**	**0.24 J**	<1.0
	6/3/2003	**65**	**2.0**	**37**	**1.0**	<1.0	<1.0	--	**0.59 J**	**0.33 J**	<1.0	**0.99 J**	<1.0	<1.0	<1.0	<1.0
	10/28/2010	**95**	**0.87 J**	**69**	**1.2**	<1.0	<1.0	--	<1.0	<1.0	<1.0	**0.31 J**	<1.0	<1.0	<1.0	<1.0
	10/17/2012	**30**	**0.49 J**	**20**	**0.29 J**	<1.0	<1.0 UJ	--	**0.33 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ
GZ-515U	**6/24/2010**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	<1.0
	4/20/2011	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	4/20/2011 DUP	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/25/2011	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	4/11/2012	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/17/2012	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0 UJ	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ
	4/24/2013	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/29/2013	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	4/15/2014	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
GZ-519U	**10/29/2010**	**99**	<1.0	**52**	**1.9**	<1.0	<1.0	--	**6.2**	<1.0	<1.0	**1.4**	<1.0	<1.0	<1.0	<1.0
	4/20/2011	**57**	<1.0	**23**	**0.83 J**	<1.0	<1.0	--	**5.9**	<1.0	<1.0	**1.1**	<1.0	<1.0	<1.0	<1.0
	10/26/2011	**110 J**	**0.45 J**	**65 J**	**2.3 J**	<1.0	<1.0	--	**4.5 J**	<1.0	<1.0	**2.0 J**	<1.0	<1.0	<1.0	<1.0 UJ
	4/10/2012	**57**	<1.0	**26**	**0.83 J**	<1.0	<1.0	--	**3.5**	<1.0	<1.0	**0.79 J**	<1.0	<1.0	<1.0	<1.0
	10/15/2012	**88**	**0.38 J**	**60 J**	**2.0 J**	<1.0	<1.0	--	**4.6 J**	**0.42 J**	<1.0	**1.6 J**	<1.0	<1.0	<1.0 UJ	<1.0
	4/23/2013	**87**	<1.0	**33**	**0.96 J**	<1.0	<1.0 UJ	--	**4.0**	**0.23 J**	<1.0	**1.5**	<1.0	<1.0	<1.0 UJ	<1.0
	10/30/2013	**96**	**0.49 J**	**53**	**1.7**	<1.0	<1.0	--	**3.5**	**0.31 J**	<1.0	**1.4**	<1.0	<1.0	<1.0	<1.0 UJ
	4/16/2014	**110**	<1.0	**44**	**1.2**	<1.0	<5.0	--	**2.7**	<1.0	<1.0	**1.1**	<1.0	<1.0	<1.0	<1.0 UJ
GZ-702U	**4/17/2014**	<1.0	<1.0	**0.35 J**	<1.0	<1.0	<5.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
OW-101	**6/25/2010**	**1,100**	<100	**760**	**210**	<100	<100	--	<100	<100	<100	<100	<100	<100	<100 UJ	<100
	4/21/2011	**990**	**2.6**	**830**	**89**	<1.0	<1.0	--	<1.0	**1.0**	<1.0	**20 J**	<1.0	<1.0	<1.0	<1.0 UJ
	10/27/2011	**830**	<20	**600**	**160**	<20	<20	--	<20	<20	<20	**15 J**	<20	<20	<20	<20
	4/10/2012	**700**	<20	**550**	**88**	<20	<20	--	<20	<20	<20	**8.2 J**	<20	<20	<20	<20
	10/18/2012	**36**	<20	**950**	**120**	<20	<20	--	<20	<20	<20	**9.2 J**	<20	<20	<20	<20
	4/23/2013	**1,100**	<20 UJ	**920**	**56**	<20	<20	--	<20	<20	<20	**11 J**	<20	<20	<20 UJ	<20
	10/30/2013	**980 J**	**11 J**	**1,300 J**	**230**	<20	<20	--	<20	<20	<20	**17 J**	<20	<20	<20	<20 UJ
	4/16/2014	**520**	**13**	**730**	**120**	<5.0	<25	--	<5.0	<5.0	<5.0	**9.2**	<5.0	<5.0	<5.0	<5.0
OW-105	**10/27/2010**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	**0.30 JB**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/27/2010 DUP	**0.34 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--	**0.29 JB**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.47 J**
	4/20/2011	**0.60 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/24/2011	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	4/10/2012	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/17/2012	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0 UJ	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ

TABLE 1
SUMMARY OF GROUNDWATER TESTING RESULTS - VOCS
Hewlett-Packard Voluntary Remediation Project
San German, Puerto Rico

SAMPLE LOCATION & DATE		Trichloroethene (TCE)	Vinyl chloride	cis-1,2 Dichloroethene (DCE)	trans-1,2 Dichloroethylene	Tetrachloroethene (PCE)	Chloroethane	2-Chloroethylvinyl ether	Chloroform	1,1- Dichloroethane (DCA)	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloropropane	1,1,1-Trichloroethane (TCA)	Trichlorofluoromethane	Chloromethane
Fill and Alluvium Wells																
Puerto Rico Water Quality Standards or *MCLs*		5.0	0.25	*70*	100	5.0	NE	NE	57	NE	3.8	7.0	5.0	200	NE	NE
OW-304U	**10/26/2010**	NS	NS	NS	NS	NS	NS	--	NS	NS	NS	NS	NS	NS	NS	NS
	4/19/2011	NS	NS	NS	NS	NS	NS	--	NS	NS	NS	NS	NS	NS	NS	NS
	10/25/2011	<1.0	<1.0	**0.68 J**	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	4/12/2012	**0.35 J**	<1.0	**1.2**	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/17/2012	**0.92 J**	<1.0 UJ	**1.4**	<1.0	<1.0	<1.0 UJ	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ
	4/23/2013	NS	NS	NS	NS	NS	NS	--	NS	NS	NS	NS	NS	NS	NS	NS
	10/30/2013	**0.32 J**	**0.32 J**	**1.5**	<1.0	<1.0	**0.79 J**	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ
	4/17/2014	<1.0	<1.0	**1.3**	<1.0	<1.0	<5.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
OW-305I	**6/25/2010**	**150**	**120**	**290**	**10**	<10	<10	--	<10	<10	<10	<10	<10	<10	<10 UJ	<10
	4/19/2011	**230**	**240**	**420**	**17**	<10	<10	--	<10	<10	<10	<10	<10	<10	<10	<10
	10/26/2011	**48**	**95**	**220**	**14**	<5.0	<5.0 UJ	--	<5.0	<5.0	<5.0	**1.9 J**	<5.0	<5.0	<5.0 UJ	<5.0 UJ
	4/11/2012	**100**	**65**	**280**	**12**	<10	<10	--	<10	<10	<10	<10	<10	<10	<10	<10
	10/17/2012	**27**	**52 J**	**200**	**9.2**	<5.0	<5.0 UJ	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 UJ
	4/23/2013	**220**	**100 J**	**530**	**17**	<1.0	<1.0	--	<1.0	**0.46 J**	<1.0	**2.0**	<1.0	<1.0	<1.0 UJ	<1.0
	10/29/2013	**54 J**	**91 J**	**280**	**14**	<5.0	<5.0	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	10/29/2013 DUP	**39 J**	**63 J**	**190 J**	**9.8**	<5.0	<5.0	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	4/15/2014	**46**	**81**	**610**	**17**	<10	<50	--	<10	<10	<10	<10	<10	<10	<10	<10 UJ
OW-305U	**10/29/2010**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	4/20/2011	<1.0	**2.0**	<1.0	<1.0	<1.0	**1.2**	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/26/2011	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	4/12/2012	**0.46 J**	**2.0**	**1.2**	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/18/2012	**4.1**	<1.0 UJ	**3.9**	<1.0	<1.0	<1.0 UJ	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ
	4/24/2013	**0.17 J**	<1.0	**0.23 J**	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/29/2013	NS	NS	NS	NS	NS	NS	--	NS	NS	NS	NS	NS	NS	NS	NS
	4/15/2014	**25**	**0.93 J**	**51**	**0.87 J**	<1.0	<5.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ
OW-402U	**10/29/2010**	**22**	<1.0	**17**	**0.37 J**	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	4/20/2011	**12**	<1.0	**9.5**	**0.40 J**	<1.0	<1.0	--	**0.98 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/25/2011	**13**	<1.0	**5.2**	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	**0.27 J**	<1.0	<1.0	<1.0
	4/10/2012	**24**	<1.0	**13**	**0.39 J**	<1.0	<1.0	--	**0.23 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/15/2012	**15**	<1.0	**6.7 J**	<1.0 UJ	<1.0	<1.0	--	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	<1.0
	4/23/2013	**29**	<1.0	**11**	**0.42 J**	<1.0	<1.0 UJ	--	**0.43 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	<1.0
	10/31/2013	**14**	<1.0	**31**	**0.89 J**	<1.0	<1.0	--	**0.16 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	4/16/2014	**39**	<1.0	**17**	**0.55 J**	<1.0	<5.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ
OW-404U	**3/18/2009**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/9/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	6/25/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	<1.0
	10/15/2012	<1.0	<1.0	<1.0 UJ	<1.0 UJ	<1.0	<1.0	--	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	<1.0
	10/15/2012 DUP	<1.0	<1.0	<1.0 UJ	<1.0 UJ	<1.0	<1.0	--	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	<1.0
WB-1U[3,4]	**6/25/2010**	**1.1**	<1.0	**0.76 J**	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	<1.0
	4/18/2011	**1.0**	**0.30 J**	**2.0**	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	4/19/2011	**0.92 J**	<1.0	**1.9**	<1.0	<1.0	<1.0 UJ	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/25/2011	**2.9**	<1.0	**1.9**	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	4/12/2012	**4.2**	<1.0	**4.9**	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/16/2012	**3.3**	<1.0	**2.6 J**	<1.0 UJ	<1.0	<1.0	--	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	<1.0
	6/4/2013	**4.1**	<2.0 UJ	**7.0**	<2.0	<2.0	<2.0 UJ	--	<2.0	<2.0	<2.0	<2.0	<2.0 UJ	<2.0	<2.0 UJ	<2.0 UJ
	10/29/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
WB-2U	**9/3/2003**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/8/2004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/26/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	**0.27 JB**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/15/2012	<1.0	<1.0	<1.0 UJ	<1.0 UJ	<1.0	<1.0	--	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	<1.0

Notes:
1. All units are micrograms per liter (ug/L).
2. Wells were not sampled due to the wells being dry or having insufficient volumes of water.
3. On April 18, 2011, only one vial could be collected for VOCs at WB-1U before it went dry. The lab inadvertantly ran the additional vials collected for dilutions on April 19, 2011 as an additional sample.
4. Inadvertantly, no sample was collected from WB-1U during the April 2013 sampling event. The sample was, therefore, collected on June 4, 2013.
5. **Bold** values reflect detected analytes.
6. Yellow highlighting indicates the reference concentration exceeds the applicable Puerto Rico Water Quality Standard (PRWQS) or USEPA Maximum Contaminant Level (MCL) if no PRWQS is available. MCLs are indicated by *italics*.
7. "--" = analyte not tested for; "J" = the concentration reported was at or below the reporting limit; "B" = the analyte in question was detected in the associated laboratory blank; "UJ" = the analyte was detected above the reported sample quantitation limit; however, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample; "E" = the reported value exceeds the calibration range; "<" = the compound was not detected above the method quantification limit shown; "NS" = no sample was taken because the well was dry or inaccessible; "NE" = no groundwater quality standard established; "DUP" = duplicate sample.

TABLE 1
SUMMARY OF GROUNDWATER TESTING RESULTS - VOCS
Hewlett-Packard Voluntary Remediation Project
San German, Puerto Rico

SAMPLE LOCATION & DATE		Trichloroethene (TCE)	Vinyl chloride	cis-1,2 Dichloroethene (DCE)	trans-1,2 Dichloroethylene	Tetrachloroethene (PCE)	Bromoform	Chloroform	Dichlorodifluoromethane	1,1- Dichloroethane (DCA)	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloropropane	1,2-Dichlorobenzene	1,1,1-Trichloroethane (TCA)	1,1,2-Trichloroethane	Chloromethane	MTBE
Saprolite Wells																		
Puerto Rico Water Quality Standards or		5.0	0.25	*70*	100	5.0	43	57	NE	NE	3.8	7.0	5.0	420	200	5.0	NE	NE
DEC-204O	**10/27/2010**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--
	4/20/2011	**0.98 J**	<1.0	<1.0	<1.0	**3.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/27/2011	**0.31 J**	<1.0	<1.0	<1.0	**2.6**	<1.0	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	4/12/2012	<1.0	<1.0	<1.0	<1.0	**1.6**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/16/2012	**0.48 J**	<1.0	<1.0 UJ	<1.0 UJ	**2.2**	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	4/23/2013	**0.44 J**	<1.0	<1.0	<1.0	**1.9**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/30/2013	**0.46 J**	<1.0	<1.0	<1.0	**1.9**	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.46 J**	<1.0	<1.0	--
	4/16/2014	**0.56 J**	<1.0	<1.0	<1.0	**1.5**	<1.0	<1.0	<1.0 UJ	<1.0	<1.0	**0.11 J**	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	--
GZ-501L	**10/27/2010**	**8.9**	**0.67 J**	**24**	**0.36 J**	<1.0	<1.0	**0.28 JB**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/27/2010 DUP	**8.0**	**0.70 J**	**21**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.30 J**	--
	4/18/2011	**9.4**	**0.86 J**	**23**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	4/18/2011 DUP	**9.3**	**1.0**	**23**	**0.25 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/24/2011	**4.7**	**0.51 J**	**12**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	<1.0	**0.22 J**	<1.0	<1.0	<1.0 UJ	--
	4/11/2012	**3.8**	<1.0	**7.0**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.21 J**	<1.0	<1.0	<1.0	--
	10/17/2012	**6.7**	<1.0 UJ	**5.4**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.20 J**	<1.0	<1.0	<1.0 UJ	--
	4/25/2013	**12**	**0.26 J**	**7.0**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.16 J**	<1.0	<1.0	<1.0 UJ	--
	10/29/2013	**21**	**0.36 J**	**11**	<1.0	**0.40 J**	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	**0.27 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--
	4/15/2014	**22**	<1.0	**13**	<1.0	**0.68 J**	<1.0	<1.0	<1.0	<1.0	<1.0	**0.41 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--
GZ-502L	**10/28/2010**	**60**	**1.5**	**92**	**1.5**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.79 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--
	4/21/2011	**46**	**1.3 J**	**70**	**1.1 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.66 J**	<1.0	<1.0	<1.0	<1.0	<2.0 UJ	--
	10/26/2011	**26**	**0.96 J**	**48**	**0.68 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.43 J**	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	--
	4/11/2012	**14**	**0.57 J**	**28**	**0.36 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/18/2012	**11**	**0.51 J**	**19**	**0.31 J**	<1.0	<1.0	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	--
	4/24/2013	**9.2**	**0.55 J**	**15**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.16 J**	<1.0	<1.0	<1.0	--
	10/29/2013	**10**	**0.61 J**	**14**	**0.30 J**	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	**0.39 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--
	4/15/2014	**13**	**0.56 J**	**22**	**0.27 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.34 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--
GZ-503L	**10/29/2010**	**12**	**0.73 J**	**15**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	4/20/2011	**13**	**0.81 J**	**13**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/27/2011	**22**	**0.93 J**	**24**	**0.34 J**	<1.0	<1.0	<1.0	<1.0 UJ	<1.0	<1.0	**0.27 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--
	4/11/2012	**26**	**0.93 J**	**30**	**0.41 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.31 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/17/2012	**26**	**1.5 J**	**27**	**0.61 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.27 J**	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	--
	4/24/2013	**51**	**2.5**	**45**	**1.7**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.60 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/29/2013	**58**	**4.7**	**55**	**2.2**	**0.35 J**	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	**0.44 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--
	4/15/2014	**94**	**7.0**	**90**	**4.2**	**1.8**	<1.0	<1.0	<1.0	<1.0	<1.0	**0.81 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--
GZ-504L	**6/3/2003**	<1.0	<1.0	**1.0**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/27/2010	**0.92 J**	<1.0	**2.8**	<1.0	<1.0	<1.0	**0.32 JB**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.39 J**	--
	10/15/2012	**3.1**	<1.0	**20 J**	<1.0 UJ	<1.0	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	4/24/2013	**7.1**	**0.26 J**	**41**	**0.44 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.24 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/30/2013	**5.3**	<1.0	**32**	**0.30 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	4/15/2014	**5.4**	<1.0	**28**	**0.34 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.17 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--
GZ-505L	**6/28/2010**	<1.0	**1.2**	**16**	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	4/18/2011	<1.0	**1.1**	**10**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	--
	10/24/2011	<1.0	**1.2**	**6.5**	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	4/11/2012	**0.27 J**	**0.50 J**	**6.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/17/2012	<1.0	**0.47 J**	**3.4**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	--
	4/24/2013	**0.98 J**	**0.48 J**	**5.8**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/29/2013	**0.76 J**	**0.62 J**	**4.5**	<1.0	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	4/15/2014	<1.0	<1.0	**3.7**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
GZ-601L	**4/12/2012**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/16/2012	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	4/25/2013	<1.0	<1.0 UJ	**0.22 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	**2.3**
	10/30/2013	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	--
GZ-701L	**4/17/2014**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	**0.58 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
OW-1	**10/27/2010**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--
	4/19/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--
	10/24/2011	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	--
	4/11/2012	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/16/2012	<1.0	<1.0	<1.0 UJ	<1.0 UJ	<1.0	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
OW-101L	**10/27/2010**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--
	4/20/2011	**37**	**0.95 J**	**39**	**0.66 J**	**0.47 J**	<1.0	<1.0	<1.0	<1.0	<1.0	**0.25 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/26/2011	**11**	**27**	**82**	**1.3 J**	**1.3 J**	<2.0	<2.0	<2.0 UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	4/10/2012	**4.0**	**19**	**80**	**1.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.38 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/18/2012	**2.8**	**11 J**	**92**	**1.1**	<1.0	<1.0	<1.0	<1.0 UJ	**0.31 J**	<1.0	**0.60 J**	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	--
	4/23/2013	**5.8**	**3.8**	**140**	**1.5**	<1.0	<1.0	<1.0	<1.0	**0.34 J**	<1.0	**0.76 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/30/2013	<1.0	**2.4**	**81**	**0.98 J**	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	**0.58 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--
	4/16/2014	**3.2**	**0.85 J**	**70**	**0.91 J**	<1.0	<1.0	<1.0	<1.0 UJ	<1.0	<1.0	**0.60 J**	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	--
OW-102	**3/11/2003**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	6/3/2003	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/28/2010	<1.0	<1.0	**7.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/17/2012	**3.8**	<1.0 UJ	**3.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	--
	4/23/2013	**2.1**	<1.0 UJ	**1.3**	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/31/2013	**1.0**	<1.0	**0.43 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	4/16/2014	**2.0**	<1.0	**2.1**	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	--
	4/16/2014 DUP	**1.7**	<1.0	**2.3**	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	--
OW-301	**6/24/2010**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	4/21/2011	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/26/2011	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	--
	4/11/2012	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/16/2012	<1.0	<1.0	<1.0 UJ	<1.0 UJ	<1.0	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	4/25/2013	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	--
	10/30/2013	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	--
	4/16/2014	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	--
OW-304L	**6/24/2010**	**5,700 J**	<200	**910 J**	<200	<200	<200	<200	<200 UJ	<200	<200	<200	<200	<200	<200	<200	<200	--
	4/21/2011	**4,000**	**67**	**710**	**2.7**	**5.2**	<1.0	**0.64 J**	<1.0	**6.3**	**9.1**	**15 J**	<1.0	<1.0	<1.0	**1.0**	<1.0 UJ	--
	10/27/2011	**2,000**	**33 J**	**530**	<50	<50	<50	<50	<50 UJ	<50	<50	<50	<50	<50	<50	<50	<50	--
	10/27/11 DUP	**1,800**	**29 J**	**520**	<50	<50	<50	<50	<50 UJ	<50	<50	<50	<50	<50	<50	<50	<50	--
	4/12/2012	**1,500**	**15 J**	**530**	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	--
	10/16/2012	**1,200**	**12 J**	**410**	<20 UJ	<20	<20	<20	<20	<20	<20	**5.1 J**	<20	<20	<20	<20	<20	--
	4/25/2013	**1,700**	<50 UJ	**530**	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50 UJ	--
	10/31/2013	**1,200**	**15**	**550**	**1.8**	**1.3**	<1.0	**0.17 J**	<1.0	**5.8**	<1.0	**5.8**	<1.0	<1.0	<1.0	<1.0	<1.0	--
	4/17/2014	**1,600**	**33**	**590**	**5.3 J**	**3.5 J**	<10	**4.3 J**	<10	**12**	<10	**10**	<10	<10	<10	<10	**4 J**	--
	4/17/2014 DUP	**1,600**	**28**	**510**	**3.5 J**	**3.4 J**	<10	<10	<10	**7.1 J**	**4.6 J**	**6.7 J**	<10	<10	<10	<10	<10	--

TABLE 1
SUMMARY OF GROUNDWATER TESTING RESULTS - VOCS
Hewlett-Packard Voluntary Remediation Project
San German, Puerto Rico

SAMPLE LOCATION & DATE		Trichloroethene (TCE)	Vinyl chloride	cis-1,2 Dichloroethene (DCE)	trans-1,2 Dichloroethylene	Tetrachloroethene (PCE)	Bromoform	Chloroform	Dichlorodifluoromethane	1,1- Dichloroethane (DCA)	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloropropane	1,2-Dichlorobenzene	1,1,1-Trichloroethane (TCA)	1,1,2-Trichloroethane	Chloromethane	MTBE
Saprolite Wells																		
Puerto Rico Water Quality Standards or		5.0	0.25	*70*	100	5.0	43	57	NE	NE	3.8	7.0	5.0	420	200	5.0	NE	NE
OW-307	**10/29/2010**	**31**	<1.0	**49**	**0.57 J**	<1.0	<1.0	<1.0	**0.66 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	4/21/2011	**100**	**22**	**170**	**2.2**	<1.0	<1.0	<1.0	**0.63 J**	<1.0	<1.0	**0.27 J**	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	--
	10/25/2011	**380**	**4.4 J**	**260**	**3.9 J**	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	--
	4/10/2012	**640**	**6.1 J**	**550**	**6.5 J**	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	--
	4/10/2012 DUP	**640**	**7.6 J**	**560**	**6.5 J**	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	--
	10/18/2012	**710**	**4.4 J**	**540**	**9.2 J**	<10	<10	<10	<10 UJ	<10	<10	<10	<10	<10	<10	<10	<10 UJ	--
	10/18/2012 DUP	**730**	**3.5 J**	**540**	**8.7 J**	<10	<10	<10	<10 UJ	<10	<10	<10	<10	<10	<10	<10	<10 UJ	--
	4/23/2013	**300**	**9.3 J**	**280**	**3.6**	<1.0	<1.0	<1.0	<1.0 UJ	**0.41 J**	<1.0	**0.64 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--
	4/23/2013 DUP	**360**	**9.7 J**	**340**	**3.0**	<1.0	<1.0	<1.0	<1.0 UJ	**0.38 J**	<1.0	**0.73 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/31/2013	**480**	**12**	**540**	**6.6 J**	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	--
	4/16/2014	**930**	**1.9 J**	**500**	**7.3**	<5.0	<5.0	<5.0	<5.0 UJ	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 UJ	--
OW-401	**3/13/2003**	**24**	<1.0	**15**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	6/3/2003	**10**	**0.58 J**	**10**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.49 J**	**1.2**	<1.0	<1.0	<1.0	<1.0	--
	10/28/2010	**29**	**1.3**	**53**	**0.79 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.38 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/18/2012	**4.1**	<1.0 UJ	**8.2**	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	--
OW-402L	**10/29/2010**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--
	4/20/2011	**36**	<1.0	**29**	**0.40 J**	**2.6**	<1.0	<1.0	**0.69 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/25/2011	**48**	<1.0	**43**	**0.55 J**	**6.7**	<1.0	<1.0	**2.1**	<1.0	<1.0	**0.36 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--
	4/10/2012	**54**	**0.76 J**	**80**	**0.94 J**	**12**	<1.0	**0.24 J**	**1.3**	<1.0	<1.0	**0.79 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/15/2012	**42**	**0.95 J**	**91 J**	**1.3 J**	**12**	<1.0	**0.26 J**	**1.6**	**0.52 J**	<1.0	**0.88 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--
	4/23/2013	**36**	**0.71 J**	**80**	**1.1**	**11**	<1.0	**0.25 J**	**1.2**	**0.50 J**	<1.0	**0.77 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/30/2013	**33**	**0.81 J**	**77**	**1.3**	**10**	<1.0	**0.28 J**	**1.2**	<1.0	<1.0	**0.83 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--
	4/16/2014	**34**	**0.38 J**	**49**	**0.68 J**	**12**	<1.0	**0.34 J**	**0.77 J**	**0.49 J**	<1.0	**0.52 J**	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	--
OW-403L	**10/29/2010**	**1,400**	<100	**89 J**	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	--
	4/21/2011	**520**	<10	**64**	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	--
	10/26/2011	**370 J**	<10	**150 J**	<10	**2.6 J**	<10 UJ	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10 UJ	--
	4/10/2012	**210**	<10	**96**	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	--
	10/16/2012	**140**	**1.7 J**	**74**	**1.1 J**	**1.2 J**	<2.0	<2.0	**3.6**	<2.0	<2.0	**0.60 J**	<2.0	<2.0	<2.0	<2.0	<2.0	--
	10/16/2012 DUP	**150**	**1.5 J**	**73**	**1.2 J**	**1.4 J**	<2.0	<2.0	**1.7 J**	**0.57 J**	<2.0	**0.56 J**	<2.0	<2.0	<2.0	<2.0	<2.0	--
	4/23/2013	**120**	**2.1**	**71**	**0.87 J**	**1.1**	<1.0	<1.0	**4.4**	**0.76 J**	<1.0	**0.62 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/30/2013	**85**	**3.6**	55	**0.88 J**	**0.98 J**	<1.0 UJ	<1.0	**5.9**	**0.81 J**	<1.0	**0.64 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/30/2013 DUP	**89 J**	**3.6 J**	**58 J**	**0.84 J**	**1.1**	<1.0 UJ	<1.0	**5.9**	**0.87 J**	<1.0	**0.73 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--
	4/16/2014	**66**	**2.0**	**47**	**0.53 J**	**1.1**	<1.0	<1.0	**4.7 J**	**0.92 J**	<1.0	**0.47 J**	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	--
OW-404L	**3/18/2009**	**4.5 B**	**0.23 J**	**15**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.17 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--
	9/9/2009	**2.9**	<1.0	**7.6**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	6/25/2010	**0.92 J**	<1.0	**3.1**	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/15/2012	<1.0	<1.0	<1.0 UJ	<1.0 UJ	<1.0	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
OW-405	**9/9/2009**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--
	6/24/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--
	10/28/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/17/2012	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	**0.29 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	--
OW-407	**3/11/2003**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	6/3/2003	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/27/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**4.8 B**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/16/2012	<1.0	<1.0	<1.0 UJ	<1.0 UJ	<1.0	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
OW-408	**6/24/2010**	**10**	<1.0	**68**	**17**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**2.3**	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/27/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--
	10/16/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--
	4/25/2013	**27**	**41 J**	**230**	**17**	<1.0	<1.0	**0.65 J**	<1.0	<1.0	<1.0	**0.88 J**	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	--
	10/30/2013	**1.0**	**3.1**	**75**	**19**	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	**1.9**	<1.0	<1.0	<1.0	<1.0	<1.0	--
	4/16/2014	**1.7**	**1.8**	**40**	**11**	<1.0	<1.0	<1.0	<1.0 UJ	<1.0	<1.0	**1.2**	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	--
WB-1L	**10/29/2010**	**60**	<5.0	**110**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	4/18/2011	**56**	<1.0	**110**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/25/2011	**65**	<5.0	**79**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	4/12/2012	**80**	<5.0	**130**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	10/15/2012	**69**	<5.0	**110 J**	**1.5 J**	<5.0	<5.0	<5.0 UJ	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	4/24/2013	**73**	**0.57 J**	**120**	**1.2**	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/29/2013	**81**	**0.60 J**	**120**	**1.5**	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	**0.55 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--
	4/15/2014	**76**	<1.0	**110**	**1.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.51 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--
WB-2L	**6/28/2010**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	4/18/2011	**24**	**0.84 J**	**44**	**0.46 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.35 J**	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	--
	10/25/2011	**27**	**0.94 J**	**50**	**0.62 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.32 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--
	4/11/2012	**29**	**0.89 J**	**81**	**1.0**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.42 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/15/2012	**0.97 J**	<1.0	**2.0 J**	<1.0 UJ	<1.0	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	4/24/2013	**17**	**0.36 J**	**38**	**0.41 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.25 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/29/2013	**18**	**0.88 J**	**89**	**1.2**	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	**0.52 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--
	4/15/2014	**3.0**	<1.0	**6.9**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	4/15/2014 DUP	**3.0**	<1.0	**7.5**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
WB-3L	**6/3/2003**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/27/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.37 JB**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/17/2012	**10**	**0.90 J**	**13**	**0.70 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	--
	4/24/2013	**21**	**0.98 J**	**25**	**1.0**	**0.80 J**	<1.0	<1.0	<1.0	<1.0	<1.0	**0.29 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/29/2013	**29**	**1.9**	**40**	**1.4**	**1.3**	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	**0.37 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--
	4/15/2014	**59**	**2.9**	**75**	**2.6**	**3.7**	<1.0	<1.0	<1.0	<1.0	<1.0	**0.48 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--
WB-4L	**9/9/2009**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	6/28/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/17/2012	**2.9**	<1.0 UJ	**1.9**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	--
	4/24/2013	**12**	**0.34 J**	**6.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/29/2013	**27**	**0.41 J**	**17**	<1.0	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	**0.30 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--
	4/15/2014	**63**	**0.45 J**	**38**	**0.42 J**	**0.33 J**	<1.0	<1.0	<1.0	<1.0	<1.0	**0.41 J**	<1.0	<1.0	<1.0	<1.0	<1.0	--

Notes:
1. All units are micrograms per liter (ug/L).
2. Wells OW-1 (in April 2011) and OW-408 (in June 2009, October 2010, and October 2012) were not sampled due to insufficient volume of water.
3. **Bold** values reflect detected analytes.
4. Yellow highlighting indicates the reference concentration exceeds the applicable Puerto Rico Water Quality Standard (PRWQS) or USEPA Maximum Contaminant Level (MCL) if no PRWQS is available. MCLs are indicated by *italics* .
5. "--" = analyte not tested for; "J" = the concentration reported was at or below the reporting limit; "B" = the analyte in question was detected in the associated laboratory blank; "UJ" = the analyte was detected above the reported sample quantitation limit; however, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample; "<" = the compound was not detected above the method quantification limit shown; "NS" = no sample was taken because the well was dry or inaccessible; "NE" = no groundwater quality standard established; "DUP" = duplicate sample.

TABLE 1
SUMMARY OF GROUNDWATER TESTING RESULTS - VOCS
Hewlett-Packard Voluntary Remediation Project
San German, Puerto Rico

SAMPLE LOCATION & DATE		Trichloroethene (TCE)	Vinyl chloride	cis-1,2 Dichloroethene (DCE)	trans-1,2 Dichloroethylene	Tetrachloroethene (PCE)	Chloroform	Dichlorodifluoromethane	1,1- Dichloroethane (DCA)	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichlorobenzene	1,4-Dichlorobenzene	Methylene chloride	1,1,2-Trichloroethane	MTBE
Bedrock Wells																
Puerto Rico Water Quality Standards or *MCLs*		5.0	0.25	*70*	100	5.0	57	NE	NE	3.8	7.0	420	63	46	5.0	NE
BR-308	**9/9/2009**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--
	6/25/2010	**14**	**0.40 J**	**26**	<1.0	<1.0	<1.0	<1.0 UJ	<1.0	<1.0	**0.29 J**	<1.0	<1.0	<5.0	<1.0	--
	10/28/2010	**4.9**	**<1.0**	**10**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.25 J**	<1.0	<1.0	<5.0	<1.0	--
	10/18/2012	**4.5**	<1.0 UJ	**14**	<1.0	<1.0	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	--
DEC-203R	**10/27/2010**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--
	4/19/2011	<1.0	<1.0	<1.0	<1.0	**0.46 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/27/2011	**0.34 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	--
	4/12/2012	**0.32 J**	<1.0	<1.0	<1.0	**0.28 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	--
	10/16/2012	**0.48 J**	<1.0	<1.0	<1.0	**0.28 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	--
GZ-504R	**10/28/2010**	**1.9**	<1.0	**7.9**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	--
	4/19/2011	**3.7**	**0.46 J**	**16**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/25/2011	**1.7**	<1.0	**5.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.54 J**	**0.23 J**	<5.0 UJ	<1.0	--
	10/25/11 DUP	**1.8**	<1.0	**5.7**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.55 J**	**0.27 J**	<5.0 UJ	<1.0	--
	4/11/2012	**1.5**	<1.0	**5.5**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.54 J**	**0.28 J**	<5.0	<1.0	--
	10/15/2012	**1.5**	<1.0	**3.3 J**	<1.0 UJ	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	**0.44 J**	**0.28 J**	<5.0	<1.0	--
	4/24/2013	**4.6**	<1.0	**4.7**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.39 J**	<1.0	<5.0	<1.0	--
	10/30/2013	**6.5**	<1.0	**3.5**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.21 J**	<1.0	<5.0	<1.0	--
	4/15/2014	**14**	<1.0	**7.6**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.17 J**	<1.0	<1.0	<5.0	<1.0	--
GZ-505R	**9/9/2009**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	--
	6/28/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	--
	10/17/2012	**61**	<1.0	**43**	**0.55 J**	**0.32 J**	<1.0	<1.0	<1.0	<1.0	**0.48 J**	<1.0	<1.0	<5.0	<1.0	--
	4/24/2013	**68**	<1.0	**73**	**0.69 J**	**0.65 J**	<1.0	<1.0	<1.0	<1.0	**0.62 J**	<1.0	<1.0	<5.0	<1.0	--
	10/30/2013	**59**	<1.0	**87**	**0.80 J**	**0.58 J**	<1.0	<1.0	<1.0	<1.0	**0.75 J**	<1.0	<1.0	<5.0	<1.0	--
	4/15/2014	**91**	<1.0	**84**	**0.66 J**	**1.0**	<1.0	<1.0 UJ	<1.0	<1.0	**0.73 J**	<1.0	<1.0	<5.0	<1.0	--
GZ-506R	**10/29/2010**	**1.5**	<1.0	**0.98 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	--
	4/19/2011	**1.0**	<1.0	**5.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	10/27/2011	**26**	<1.0	**5.1**	<1.0	<1.0	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	--
	4/12/2012	**88**	<1.0	**16**	<1.0	**0.26 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	--
	10/16/2012	**130**	<5.0	**28 J**	<5.0 UJ	<5.0	<5.0 UJ	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<25	<5.0	--
	4/25/2013	**220**	**0.29 J**	**56**	**0.91 J**	**1.3**	**0.42 J**	<10.0	**0.59 J**	<1.0	**0.36 J**	<1.0	<1.0	<5.0	<1.0	--
	10/31/2013	**94**	**0.24 J**	**56**	**0.88 J**	**0.68 J**	**0.31 J**	**0.96 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	--
	4/17/2014	**120**	<1.0	**52**	**0.83 J**	**0.76 J**	**0.28 J**	**0.72 J**	**0.65 J**	**0.20 J**	<1.0	<1.0	<1.0	<5.0	<1.0	--
GZ-601R	**4/12/2012**	**42**	**1.6**	**38**	**0.29 J**	<1.0	<1.0	<1.0	**0.84 J**	<1.0	**0.51 J**	<1.0	<1.0	<5.0	<1.0	**33**
	10/16/2012	**11**	**1.1**	**40**	**0.36 J**	<1.0	<1.0	<1.0 UJ	**0.85 J**	<1.0	**0.90 J**	<1.0	<1.0	<5.0	<1.0	**160 J**
	4/25/2013	**1.7**	**1.1 J**	**43**	**0.28 J**	<1.0	<1.0	<1.0	**0.83 J**	<1.0	**0.71 J**	<1.0	<1.0	<5.0	<1.0	**130**
	10/30/2013	**0.69 J**	**1.0**	**44 J**	**0.44 J**	<1.0	<1.0	<1.0	**0.82 J**	<1.0	**0.84 J**	<1.0	<1.0	<5.0	<1.0	--
	4/17/2014	**2.4**	**0.58 J**	**32**	**0.27 J**	<1.0	<1.0	<1.0	**0.67 J**	<1.0	**0.60 J**	<1.0	<1.0	<5.0	<1.0	**110**
GZ-701R	**4/17/2014**	<1.0	<1.0	<1.0	<1.0	<1.0	**0.29 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	--
GZ-703R	**4/17/2014**	**230**	<2.0	**25**	<2.0	**2.1**	<2.0	<2.0	<2.0	<2.0	**2.4**	<2.0	<2.0	<10	<2.0	--
OW-304R	**6/24/2010**	**1,300**	<100	**180**	<100	<100	<100	<100 UJ	<100	<100	<100	<100	<100	<500	<100	--
	6/24/2010 DUP	**1,100**	**33 J**	**160**	<100	<100	<100	<100 UJ	<100	<100	<100	<100	<100	<500	<100	--
	4/21/2011	**1,700**	**51**	**180**	**1.4**	**2.1**	**0.57 J**	**1.3**	<1.0	**1.3**	**3.2 J**	<1.0	<1.0	<1.0	**0.72 J**	--
	10/27/2011	**3,200**	<100	**290**	<100	<100	<100	<100 UJ	<100	<100	<100	<100	<100	<500	<100	--
	4/12/2012	**2,600**	<100	**300**	<100	<100	<100	<100	<100	<100	<100	<100	<100	<500	<100	--
	4/12/2012 DUP	**2,600**	<100	**260**	<100	<100	<100	<100	<100	<100	<100	<100	<100	<500	<100	--
	10/16/2012	**1,400**	**64 J**	**190 J**	<100 UJ	<100	<100 UJ	<100	<100	<100	<100	<100	<100	**27 J**	<100	--
	4/25/2013	**1,200**	**41 J**	**130**	<50	<50	<50	<50	<50	<50	<50	<50	<50	<250	<50	--
	4/25/2013 DUP	**1,200**	**53 J**	**150**	<50	<50	<50	<50	<50	<50	<50	<50	<50	<250	<50	--
	10/31/2013	**1,200 J**	**40**	**340**	**1.8**	<1.0	**0.20 J**	**1.1**	<1.0	**2.1**	**1.3**	<1.0	<1.0	<5.0	<1.0	--
	4/17/2014	**1,000**	**41**	**130**	**2.6 J**	**3.4 J**	<10	<10	**3.0 J**	**4.2 J**	<10	<10	<10	<50	<10	--
OW-402R	**10/29/2010**	**20**	<5.0	**27**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<25	<5.0	--
	4/20/2011	**24**	<1.0	**39**	<1.0	**3.8 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	--
	10/25/2011	**7.4**	<5.0	**46**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<25 UJ	<5.0	--
	4/10/2012	**25**	<1.0	**55**	**0.64 J**	**5.1**	<1.0	**0.86 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	--
	10/15/2012	**25**	<1.0	**65 J**	**0.95 J**	**6.6**	**0.16 J**	**1.2**	**0.36 J**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	--
	4/23/2013	**26**	<1.0	**57**	**0.83 J**	**7.1**	**0.22 J**	<1.0	**0.35 J**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	--
	10/30/2013	**23**	<1.0	**54**	**0.82 J**	**6.3**	**0.21 J**	**0.85 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	--
	4/16/2014	**21**	<1.0	**37**	**0.93 J**	**5.5**	**0.20 J**	**0.46 J**	**0.35 J**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	--
OW-404R	**6/25/2010**	**96**	<5.0	**130**	**1.5 J**	<5.0	<5.0	<5.0 UJ	<5.0	<5.0	<5.0	<5.0	<5.0	<25	<5.0	--
	4/19/2011	**63**	<1.0	**100**	**1.3 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	--
	10/25/2011	**59**	<5.0	**76**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<25 UJ	<5.0	--
	4/12/2012	**69**	<5.0	**110**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<25.0	<5.0	--
	10/15/2012	**61**	**1.1**	**100 J**	**1.2 J**	<1.0	<1.0 UJ	<1.0	<1.0	<1.0	**0.42 J**	<1.0	<1.0	<5.0	<1.0	--
	4/24/2013	**96**	**0.75 J**	**160**	**1.6**	<1.0	<1.0	<1.0	<1.0	<1.0	**0.70 J**	<1.0	<1.0	<5.0	<1.0	--
	10/29/2013	**94**	**1.6**	**120**	**1.8**	<1.0	<1.0	<1.0	<1.0	<1.0	**0.71 J**	<1.0	<1.0	<5.0	<1.0	--
	4/15/2014	**97**	**1.3**	**140**	**1.6**	<1.0	<1.0	<1.0	<1.0	<1.0	**0.55 J**	<1.0	<1.0	<5.0	<1.0	--

Notes:
1. All units are micrograms per liter (ug/L).
2. **Bold** values reflect detected analytes.
3. Yellow highlighting indicates the reference concentration exceeds the applicable Puerto Rico Water Quality Standard (PRWQS) or USEPA Maximum Contaminant Level (MCL) if no PRWQS is available. MCLs are indicated by *italics* .
4. "--" = analyte not tested for; "J" = the concentration reported was at or below the reporting limit; "UJ" = the analyte was detected above the reported sample quantitation limit; however, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample; "<" = the compound was not detected above the method quantification limit shown; "NS" = no sample was taken because the well was dry or inaccessible; "NE" = no groundwater quality standard established; "DUP" = duplicate sample.

TABLE 2
SUMMARY OF GROUNDWATER TESTING RESULTS - BIODEGRADATION PARAMETERS
Hewlett-Packard Voluntary Remediation Project
San German, Puerto Rico

SAMPLE LOCATION & DATE		Total Organic Carbon	Dissolved Iron	Sulfate	Methane	Ethane	Ethene	Chloride	Nitrate	Dissolved Oxygen	Oxidation-Reduction Potential (mV)	pH (su)
Fill/Alluvium Wells												
GZ-501U[2]	**10/27/2010**	5.2	0.0095 JB	30	0.00034 J	<0.001	<0.001	19	0.98	3.66	-6.6	11.12
	4/18/2011	NS	--	--	--	--	--	--	--	NS	NS	NS
	10/25/2011	4.1	--	--	--	--	--	--	--	2.72	-88.9	10.20
	4/11/2012	6.8	--	--	--	--	--	--	--	4.42	181	9.98
	10/18/2012	5.2	--	--	--	--	--	--	--	--	--	--
GZ-503U[2]	**10/28/2010**	7.3	0.015 J	19	0.00012 J	<0.001	<0.001	5.9	0.23	3.55	101.2	7.6
	4/18/2011	11 B	--	--	--	--	--	--	--	5.7	23	7.95
	10/24/2011	6.6	--	--	--	--	--	--	--	5.31	-48.2	7.73
	4/12/2012	6.9	--	--	--	--	--	--	--	--	--	--
	10/17/2012	6.4	--	--	--	--	--	--	--	7.57	117	7.83
	4/24/2013	7.8	--	--	--	--	--	--	--	--	--	--
	10/30/2013	5.6	--	--	--	--	--	--	--	--	--	--
	4/15/2014	5.5	--	--	--	--	--	--	--	6.11	48.3	7.66
GZ-504U	**6/24/2010**	NS	--	--	--	--	--	--	--	--	--	--
	10/26/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/18/2011	NS	--	--	--	--	--	--	--	NS	NS	NS
	10/24/2011	NS	--	--	--	--	--	--	--	NS	NS	NS
	4/11/2012	NS	--	--	--	--	--	--	--	NS	NS	NS
	10/15/2012	NS	--	--	--	--	--	--	--	NS	NS	NS
	4/23/2013	NS	--	--	--	--	--	--	--	NS	NS	NS
	10/29/2013	NS	--	--	--	--	--	--	--	NS	NS	NS
	4/15/2014	NS	--	--	--	--	--	--	--	NS	NS	NS
GZ-506U[2]	**10/27/2010**	2.5	0.025 JB	57	<0.001	<0.001	<0.001	27	0.22	3	62.3	7.13
	4/19/2011	1.3	--	--	--	--	--	--	--	4.11	54	7.04
	10/24/2011	1.3	--	--	--	--	--	--	--	3.0	88.0	7.03
	4/10/2012	1.1	--	--	--	--	--	--	--	5.58	120	7.08
	10/16/2012	1.0	--	--	--	--	--	--	--	4.51	222	7.15
	4/24/2013	1.4	--	--	--	--	--	--	--	--	--	--
	10/30/2013	0.82 J	--	--	--	--	--	--	--	3.35	73	7.14
	4/16/2014	1.0	--	--	--	--	--	--	--	5.33	72.7	7.20
GZ-511U	**10/28/2010**	0.91 J	0.016 J	22	0.019	<0.001	<0.001	8.6	0.088	0.33	21.3	7.1
	10/17/2012	0.62 J	--	--	--	--	--	--	--	0.13	92	7.01
GZ-515U	**6/24/2010**	7.8	--	--	--	--	--	--	--	--	--	--
	10/26/2010	11	0.011 J	23	0.00032 J	<0.001	<0.001	7.2	4.7	2.48	123.3	6.83
	4/20/2011	10 B	0.016 J	24	0.00020 J	<0.001	0.00011 J	7.7	6.8	0.35	11.3	6.71
	10/25/2011	4.3	0.0065 J	13	0.0037	<0.001	<0.001	3.4	1.7	1.43	56.6	6.81
	4/11/2012	5.2	0.014 J	17	<0.001	<0.001	<0.001	5.2	0.87	2.54	263	6.74
	10/17/2012	4.0	<0.200	13	0.0040	<0.001	<0.001	3.9	0.52	1.38	105	6.79
	4/24/2013	7.4	<0.200	16	<0.001	<0.001	<0.001	5.6	0.39	1.88	46.9	6.75
	10/29/2013	3.3	<0.200	13	<0.001	<0.001	<0.001	3.5	0.94	1.16	81.2	6.70
	4/15/2014	5.8	<0.050	14	0.00030 J	<0.0011	<0.001	5.1	1.7	3.99	89.0	6.82
GZ-519U	**10/29/2010**	1.4	0.021 J	100	0.0016	<0.001	<0.001	22	0.023	0.22	82.4	6.99
	4/20/2011	1.7 B	0.021 J	180	0.001	<0.001	<0.001	28	0.45	0.06	-21.5	7.06
	10/26/2011	0.77 J	0.016 J	130	0.0016	<0.001	<0.001	26	0.079	0.10	94.7	7.05
	4/10/2012	0.87 J	0.024 J	140	0.00031 J	<0.001	<0.001	21	0.25	0.11	204	6.97
	10/15/2012	0.81 J	<0.200	160	0.0021	<0.001	<0.001	28	0.042	0.89	206	6.99
	4/23/2013	0.79 J	<0.200	230	<0.001	<0.001	0.0071	32	0.23	0.14	-254	7.03
	10/30/2013	0.58 J	<0.200	150	0.00034 J	<0.001	<0.001	25	0.13	0.04	55.4	7.08
	4/16/2014	1.0	<0.050	140	0.0016	<0.0011	<0.001	22	0.22	0.10	51.2	7.03
GZ-702U	**4/17/2014**	--	--	--	--	--	--	--	--	2.52	63.0	7.18
OW-101[2]	**6/25/2010**	2.4	--	--	--	--	--	--	--	--	--	--
	10/29/2010	2.3	0.14	22	0.073	<0.001	<0.001	21	<0.010	0.46	-23.1	6.83
	4/21/2011	1.9	0.020 J	26	0.0041	<0.001	<0.001	26	0.028	0.34	179.0	6.85
	10/27/2011	1.7	0.021 J	38	0.140	<0.001	<0.001	24	0.18	0.43	-128.1	6.81
	4/10/2012	1.5	0.030 J	21	0.011	<0.001	<0.001	18	0.047	0.83	158	6.80
	10/18/2012	2.2	0.51	17	0.150	<0.001	<0.001	17	<0.010	--	--	--
	4/23/2013	1.7	<0.200	28	0.036	<0.001	<0.001	29	0.57	3.87	-5.0	6.90
	10/30/2013	1.5	0.12 J	22	0.092	<0.001	<0.001	24	0.026	0.26	-34.5	6.84
	4/16/2014	1.4	0.062	19	0.16	<0.0011	<0.001	17	0.042 J	0.22	-20.7	6.83
OW-105	**10/27/2010**	3.8	0.056 B	640	0.044	<0.001	<0.001	45	3.3	0.4	-94	6.75
	4/20/2011	1.4 B	--	--	--	--	--	--	--	3.42	-29	6.97
	10/24/2011	0.79 J	--	--	--	--	--	--	--	0.86	27.7	6.91
	4/10/2012	1.3	--	--	--	--	--	--	--	1.06	-106	6.84
	10/17/2012	0.61 J	--	--	--	--	--	--	--	0.69	137	6.94
OW-304U[2]	**10/26/2010**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/18/2011	NS	--	--	--	--	--	--	--	NS	NS	NS
	10/25/2011	3.1	--	--	--	--	--	--	--	0.37	45.1	6.90
	4/12/2012	2.6	--	--	--	--	--	--	--	--	--	--
	10/17/2012	1.7	--	--	--	--	--	--	--	--	--	--
	4/23/2013	NS	--	--	--	--	--	--	--	NS	NS	NS
	10/30/2013	3.0	--	--	--	--	--	--	--	--	--	--
	4/16/2014	1.5	--	--	--	--	--	--	--	--	--	--
OW-305U[2]	**10/29/2010**	4.1	0.0096 J	7.4	0.01	<0.001	<0.001	5.0	0.22	5.00	56.8	7.57
	4/21/2011	4.0	<0.050	4.8	0.00024 J	<0.001	<0.001	1.6	0.75	--	--	--
	10/26/2011	3.3	<0.050	3.6	<0.001	<0.001	<0.001	1.7	0.24	0.94	-86.7	7.34
	4/12/2012	2.6	0.061	14	0.055	<0.001	<0.001	8.0	0.067	--	--	--
	10/18/2012	3.2	<0.200	17	<0.001	<0.001	<0.001	7.5	1.3	--	--	--
	4/24/2013	4.7	<0.200	6.9	<0.001	<0.001	<0.001	6.1	0.34	--	--	--
	10/29/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/15/2014	2.4	0.12	17	0.022	<0.0011	<0.001	9.8	<0.050	0.44	-62.7	7.06
OW-305I	**6/25/2010**	1.8	--	--	--	--	--	--	--	--	--	--
	10/29/2010	2.1	1.0	14	0.56	<0.001	0.0011	9.6	<0.010	0.13	-99.9	6.96
	4/19/2011	0.99 J	--	--	--	--	--	--	--	0.02	-172.8	6.86
	10/26/2011	1.3	--	--	--	--	--	--	--	0.06	-105.4	6.90
	4/11/2012	1.2	--	--	--	--	--	--	--	0.02	116	7.02
	10/17/2012	1.1	--	--	--	--	--	--	--	0.03	-81	6.98
	4/23/2013	1.2	--	--	--	--	--	--	--	0.03	-363	7.02
	10/29/2013	1.0	--	--	--	--	--	--	--	0.03	-48.8	6.98
	4/15/2014	1.1	--	--	--	--	--	--	--	0.58	-59.3	7.01
OW-402U[2]	**10/29/2010**	1.4	0.016 J	27	0.00021 J	<0.001	<0.001	6.1	0.59	1.66	76.7	6.83
	4/20/2011	3.0 B	0.042 J	26	<0.001	<0.001	<0.001	8.5	0.45	5.01	30.7	6.90
	10/25/2011	2.7	0.015	20	<0.001	<0.001	<0.001	6.2	0.68	1.12	117.1	6.86
	4/10/2012	1.2	0.028 J	21	<0.001	<0.001	<0.001	7.1	0.27	2.72	148	6.74
	10/15/2012	1.7	<0.200	14	<0.001	<0.001	<0.001	5.0	0.41	1.30	241	6.79
	4/23/2013	2.5	<0.200	17	<0.001	<0.001	0.0065	8.1	0.25	4.23	-39.1	6.86
	10/31/2013	1.4	--	54	<0.001	<0.001	<0.001	16	1.6	--	--	--
	4/16/2014	1.1	0.032 J	14	0.0020	<0.0011	<0.001	8.5	0.55	0.84	34.9	6.77
OW-404U	**6/25/2010**	14	--	--	--	--	--	--	--	--	--	--
	10/26/2010	25	0.026 J	33	0.00014 J	<0.001	<0.001	12	5.1	4.46	44.1	7.14
	10/15/2012	14	--	--	--	--	--	--	--	1.85	179	7.33
WB-1U[2]	**6/25/2010**	8.9	--	--	--	--	--	--	--	--	--	--
	10/28/2010	11	0.029 J	22	0.00048 J	<0.001	<0.001	10	21	1.69	124	7.11
	4/19/2011	7.7	--	--	--	--	--	--	--	--	--	--
	10/25/2011	11	--	--	--	--	--	--	--	0.43	-19.3	6.86
	4/12/2012	6.4	--	--	--	--	--	--	--	--	--	--
	10/16/2012	7.0	--	--	--	--	--	--	--	--	--	--
	6/4/2013	5.9	--	--	--	--	--	--	--	--	--	--
	10/29/2013	NS	--	--	--	--	--	--	--	NS	NS	NS
	4/15/2014	NS	--	--	--	--	--	--	--	NS	NS	NS
WB-2U	**10/26/2010**	4.7	0.15	18	0.059	<0.001	<0.001	7.2	0.0097 J	0.31	-111.8	6.46
	10/15/2012	3.7	--	--	--	--	--	--	--	0.15	176	6.38

Notes:

1. All units are milligrams per liter (mg/L), except Oxidation-Reduction Potential - millivolts (mV) and pH - standard unit (su).
2. If a sample went dry before stabilization, there are no field parameters associated with this sample.
3. Wells highlighted in gray have historically had near non-detect concentrations of constituents of concern (COCs).
4. "--" = analyte not tested; "J" = the concentration reported was at or below the reporting limit; "B" = the analyte in question was detected in the associated laboratory blank; "<" = the

TABLE 2
SUMMARY OF GROUNDWATER TESTING RESULTS - BIODEGRADATION PARAMETERS
Hewlett-Packard Voluntary Remediation Project
San German, Puerto Rico

SAMPLE LOCATION & DATE		Total Organic Carbon	Dissolved Iron	Sulfate	Methane	Ethane	Ethene	Chloride	Nitrate	Dissolved Oxygen	Oxidation-Reduction Potential (mV)	pH (su)
Saprolite Wells												
DEC-204O	**10/27/2010**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/20/2011	4.6 B	--	--	--	--	--	--	--	0.22	-2.8	6.55
	10/27/2011	1.6	--	--	--	--	--	--	--	0.04	36.9	6.64
	4/12/2012	1.6	--	--	--	--	--	--	--	0.07	100	6.60
	10/16/2012	1.6	--	--	--	--	--	--	--	0.03	168	6.61
	4/23/2013	1.1	--	--	--	--	--	--	--	0.17	141	6.63
	10/30/2013	1.3	--	--	--	--	--	--	--	0.09	82.6	6.62
	4/16/2014	1.3	--	--	--	--	--	--	--	0.08	68.6	6.55
GZ-501L	**10/27/2010**	2.1	0.025 JB	47	0.0082	<0.001	<0.001	32	0.053	0.13	106.1	6.87
	4/18/2011	1.9 B	--	--	--	--	--	--	--	0.12	-19.9	7.13
	10/24/2011	1.4	--	--	--	--	--	--	--	0.15	-28.2	6.86
	4/11/2012	1.3	--	--	--	--	--	--	--	0.13	268	6.88
	10/17/2012	1.1	--	--	--	--	--	--	--	0.13	260	6.91
	4/25/2013	0.87 J	--	--	--	--	--	--	--	0.14	74	6.96
	10/29/2013	0.83 J	--	--	--	--	--	--	--	0.11	73.1	6.96
	4/15/2014	0.95 J	--	--	--	--	--	--	--	0.19	72.9	6.92
GZ-502L	**6/28/2010**	1.3	--	--	--	--	--	--	--	--	--	--
	10/28/2010	1.3	0.016 J	46	0.039	0.00019 J	<0.001	44	0.0095 J	0.29	31.9	6.83
	4/21/2011	1.5	0.023 J	44	0.035	<0.001	<0.001	43	<0.010	0.01	49.5	6.85
	10/26/2011	1.3	0.017 J	48	0.020	<0.001	<0.001	34	<0.010	0.10	138.1	6.85
	4/11/2012	1.3	0.026 J	25	0.011	<0.001	<0.001	17	0.013	0.09	292	6.81
	10/18/2012	1.2	<0.200	55	0.0046	<0.001	<0.001	29	<0.010	0.06	154	6.86
	4/24/2013	0.96 J	<0.200	57	0.0079	<0.001	<0.001	31	0.017	0.09	-247	6.93
	10/29/2013	0.99 J	<0.200	58	0.0036	<0.001	<0.001	30	0.022	0.04	78.8	6.92
	4/15/2014	0.90 J	<0.050	57	0.0040	<0.0011	<0.001	31	<0.050	0.09	66.4	6.89
GZ-503L	**10/29/2010**	3.2	0.37	28	0.011	<0.001	<0.001	23	0.0099 J	0.19	-188.9	6.79
	4/21/2011	2.1 B	0.041 J	29	0.0074	<0.001	<0.001	23	0.018	0.08	30.5	6.81
	10/27/2011	1.1	0.021 J	26	0.016	<0.001	<0.001	21	<0.010	0.09	-150.8	6.86
	4/11/2012	1.2	0.031 J	35	0.020	<0.001	<0.001	28	0.0064 J	0.07	181	6.86
	10/17/2012	1.5	<0.200	34	0.016	0.00023 J	0.00013 J	26	0.18	0.13	153	6.60
	4/24/2013	1.2	<0.200	38	0.034	<0.001	<0.001	27	0.059	0.32	-188	6.86
	10/29/2013	1.1	<0.200	35	0.030	<0.001	<0.001	24	0.029	0.16	63.7	6.90
	4/15/2014	1.1	0.079	39	0.037	<0.0011	<0.001	27	0.069	0.17	7.8	6.85
GZ-504L	**10/27/2010**	2.2	0.045 JB	46	0.022	<0.001	<0.001	12	0.31	0.19	17.9	6.75
	10/15/2012	1.9	--	--	--	--	--	--	--	0.45	65	6.78
	4/24/2013	1.0	--	--	--	--	--	--	--	2.92	25	6.86
	10/30/2013	0.95 J	--	--	--	--	--	--	--	0.07	46.8	6.82
	4/15/2014	1.0	--	--	--	--	--	--	--	0.15	13.6	6.81
GZ-505L	**6/28/2010**	3.9	--	--	--	--	--	--	--	--	--	--
	10/26/2010	5.9	0.024 J	23	0.00078 J	<0.001	<0.001	7.7	0.011	0.34	456.1	6.44
	4/18/2011	4.6	--	--	--	--	--	--	--	0.79	56.7	6.71
	10/24/2011	4.0	--	--	--	--	--	--	--	0.22	-180.2	6.41
	4/11/2012	3.9	--	--	--	--	--	--	--	0.11	220	6.51
	10/17/2012	3.6	--	--	--	--	--	--	--	0.09	130	6.50
	4/24/2013	4.6	--	--	--	--	--	--	--	0.52	521	6.50
	10/29/2013	3.6	--	--	--	--	--	--	--	0.36	465	6.55
	4/15/2014	3.1	--	--	--	--	--	--	--	0.17	78.8	6.51
GZ-601L	**4/12/2012**	0.70 J	0.021 J	63	<0.001	<0.001	<0.001	6.9	0.14	0.44	278	7.10
	10/16/2012	0.55 J	<0.200	63	<0.001	<0.001	<0.001	7.0	0.83	0.16	65	7.12
	4/25/2013	<1.0	--	--	--	--	--	--	--	0.29	58	7.07
	10/30/2013	<1.0	--	--	--	--	--	--	--	0.23	44.8	7.16
	4/17/2014	<1.0	--	--	--	--	--	--	--	0.15	42.4	7.11
GZ-701L	**4/17/2014**	--	--	--	--	--	--	--	--	4.00	88.7	6.32
OW-1	**6/24/2010**	NS	--	--	--	--	--	--	--	--	--	--
	10/27/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/18/2011	NS	--	--	--	--	--	--	--	NS	NS	NS
	10/24/2011	1.5	--	--	--	--	--	--	--	0.32	175.1	6.87
	4/11/2012	1.4	--	--	--	--	--	--	--	0.07	224	6.97
	10/16/2012	1.3	--	--	--	--	--	--	--	0.12	150	6.88
OW-101L	**10/27/2010**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/20/2011	2.2 B	0.52	52	0.00062 J	<0.001	<0.001	25	<0.010	0.3	-155.1	6.56
	10/26/2011	1.1	2.9	47	0.0089	<0.001	0.00025 J	22	<0.010	0.19	-128.9	6.70
	4/10/2012	1.1	2.6	50	0.0063	<0.001	0.00048 J	24	0.025	0.13	130	6.72
	10/18/2012	0.82 J	2.0	46	0.0024	<0.001	<0.001	31	0.019	0.12	-147	6.90
	4/23/2013	0.76 J	0.56	26	0.0082	<0.001	0.0022	15	0.053	0.17	-81	6.83
	10/30/2013	0.62 J	1.7	52	0.00050 J	<0.001	<0.001	35	<0.010	0.13	-45.7	6.84
	4/16/2014	0.68 J	1.2	54	0.0044	<0.0011	<0.001	30	<0.050	0.40	-66.8	6.81
OW-102	**10/28/2010**	0.78 J	0.031 J	44	0.00020 J	<0.001	<0.001	29	0.74	1.49	21.9	6.52
	10/17/2012	0.56 J	--	--	--	--	--	--	--	2.42	203	6.55
	4/23/2013	0.39 J	--	--	--	--	--	--	--	1.95	73	6.67
	10/31/2013	0.49 J	--	--	--	--	--	--	--	1.15	95	6.61
	4/16/2014	0.59 J	--	--	--	--	--	--	--	2.39	79.2	6.57
OW-301	**6/24/2010**	0.36 J	--	--	--	--	--	--	--	--	--	--
	10/26/2010	1.6	0.017 J	38	0.00024 J	<0.001	<0.001	4.1	1.1	4.92	77.6	7.00
	4/21/2011	0.48 J	0.014 J	39	0.00014 J	<0.001	<0.001	6.7	3.5	4.52	41.5	7.23
	10/25-26/2011	0.40 J	0.015	37	<0.001	<0.001	<0.001	5.0	3.0	4.39	-28.0	7.09
	4/11/2012	0.37 J	0.022 J	38	<0.001	<0.001	<0.001	5.0	5.3	3.40	293	6.99
	10/16/2012	0.47 J	<0.200	40	<0.001	<0.001	<0.001	7.3	5.4	4.15	147	7.07
	4/25/2013	<1.0	<0.200	38	<0.001	<0.001	<0.001	7.8	4.1	4.79	-127	7.14
	10/30/2013	0.76 J	<0.200	35	<0.001	<0.001	<0.001	5.7	1.2	3.48	91.6	6.99
	4/16/2014	0.85 J	<0.050	40	<0.00058	<0.0011	<0.001	4.3	0.92	4.80	68.9	6.97

Notes:

1. All units are milligrams per liter (mg/L), except Oxidation-Reduction Potential - millivolts (mV) and pH - standard unit (su).
2. Wells highlighted in gray have historically had near non-detect concentrations of constituents of concern (COCs).
3. "--" = analyte not tested; "J" = the concentration reported was at or below the reporting limit; "B" = the analyte in question was detected in the associated laboratory blank; "<" = the

TABLE 2
SUMMARY OF GROUNDWATER TESTING RESULTS - BIODEGRADATION PARAMETERS
Hewlett-Packard Voluntary Remediation Project
San German, Puerto Rico

SAMPLE LOCATION & DATE		Total Organic Carbon	Dissolved Iron	Sulfate	Methane	Ethane	Ethene	Chloride	Nitrate	Dissolved Oxygen	Oxidation-Reduction Potential (mV)	pH (su)
Saprolite Wells												
OW-304L	**6/24/2010**	1.9	--	--	--	--	--	--	--	--	--	--
	10/29/2010	3	0.2	80	0.0027	<0.001	<0.001	72	1.7	0.27	2.5	6.46
	4/21/2011	2.6	8.9	80	0.011	<0.001	<0.001	79	3.1	0.42	-14.1	6.42
	10/27/2011	2.4	7.9	63	0.012	<0.001	<0.001	72	3.2	0.17	39.7	6.51
	4/12/2012	2.6	0.042 J	81	0.0055	<0.001	<0.001	73	2.5	0.94	148	6.48
	10/16/2012	2.7	0.064 J	82	0.0066	<0.001	<0.001	68	2.2	0.14	-231	6.47
	4/25/2013	2.1	<0.200	81	0.018	<0.001	<0.001	65	1.5	0.25	-246	6.50
	10/31/2013	2.5	0.095 J	81	0.0045	<0.001	<0.001	65	1.5	0.16	73.6	6.54
	4/16/2014	2.2	<0.050	79	0.019	<0.0011	<0.001	58	1.6	0.31	73.6	6.49
OW-307	**10/29/2010**	1.2	0.016 J	54	0.00012 J	<0.001	<0.001	43	0.1	1.49	69.9	6.98
	4/21/2011	1.3	0.071	29	0.180	<0.001	0.00019 J	15	<0.010	0.00	-50.2	6.75
	10/25/2011	1.0	0.078	14	0.063	<0.001	<0.001	6.4	<0.010	0.07	-212.3	6.71
	4/10/2012	0.87 J	0.050	16	0.51	0.0011	0.00017 J	8.7	<0.010	0.06	210	6.68
	10/18/2012	1.0	0.064 J	12	0.083	<0.001	<0.001	6.7	<0.010	0.06	-15	6.72
	4/23/2013	0.82 J	0.42	21	0.25	0.00096 J	<0.001	9.4	0.010	0.06	-271	6.72
	10/31/2013	0.86 J	0.26	15	0.37	<0.001	<0.001	6.7	<0.010	0.08	37	6.73
	4/16/2014	0.95 J	<0.050	15	0.22	0.0038	<0.001	7.7	0.017 J	0.04	41.3	6.79
OW-401	**10/28/2010**	1.8	0.020 J	42	0.018	<0.001	<0.001	32	0.048	0.18	131.9	6.82
	10/18/2012	2.1	--	--	--	--	--	--	--	0.88	536	6.51
OW-402L	**10/29/2010**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/20/2011	1.7 B	--	--	--	--	--	--	--	0.03	-61.6	6.79
	10/25/2011	0.52 J	--	--	--	--	--	--	--	0.11	-93.1	6.88
	4/10/2012	0.47 J	--	--	--	--	--	--	--	0.02	226	6.86
	10/15/2012	0.65 J	--	--	--	--	--	--	--	0.02	160	6.95
	4/23/2013	0.85 J	--	--	--	--	--	--	--	0.07	-215	6.96
	10/30/2013	0.42 J	--	--	--	--	--	--	--	0.03	60.2	6.98
	4/16/2014	0.71 J	--	--	--	--	--	--	--	0.06	52.2	6.96
OW-403L	**10/29/2010**	1.2	1.6	45	0.00038 J	<0.001	<0.001	21	1.5	0.13	-16.7	6.92
	4/21/2011	0.75 J	0.020 J	82	0.00097 J	<0.001	<0.001	44	0.082	0.07	-37.5	6.94
	10/26/2011	0.52 J	0.047 J	74	0.0029	<0.001	<0.001	46	<0.010	0.16	-130.7	6.95
	4/10/2012	0.36 J	0.017 J	73	0.0039	<0.001	<0.001	50	0.027	0.07	179	6.99
	10/16/2012	0.71 J	<0.200	72	0.013	<0.001	<0.001	49	0.047	0.07	104	7.14
	4/23/2013	0.42 J	<0.200	75	0.017	<0.001	<0.001	50	0.18	0.09	-284	7.03
	10/30/2013	0.46 J	<0.200	78	0.027	<0.001	<0.001	49	0.45	0.04	60.8	7.03
	4/16/2014	0.69 J	<0.050	85	0.022	<0.0011	<0.001	49	0.61	0.09	56.3	6.96
OW-404L	**6/25/2010**	8.2	--	--	--	--	--	--	--	--	--	--
	10/27/2010	16	0.037 JB	44	0.0025	<0.001	<0.001	37	3.5	1.63	35.3	6.45
	10/15/2012	10	--	--	--	--	--	--	--	3.28	158	7.01
OW-405	**6/24/2010**	NS	--	--	--	--	--	--	--	--	--	--
	10/28/2010	3.0	0.0093 J	90	0.00016 J	<0.001	<0.001	11	3.6	1.9	34.3	6.51
	10/17/2012	1.8	--	--	--	--	--	--	--	3.24	191	6.45
OW-407	**10/27/2010**	0.89 J	0.013 JB	17	0.00019 J	<0.001	<0.001	16	1.4	3.14	97.6	6.65
	10/16/2012	0.95 J	--	--	--	--	--	--	--	3.41	193	6.55
OW-408	**6/24/2010**	1.3	--	--	--	--	--	--	--	--	--	--
	10/27/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/16/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/25/2013	0.78 J	--	--	--	--	--	--	--	0.24	112	7.07
	10/30/2013	0.77 J	--	--	--	--	--	--	--	0.06	10.3	7.18
	4/16/2014	0.83 J	--	--	--	--	--	--	--	0.07	30.5	7.04
WB-1L	**6/25/2010**	2	--	--	--	--	--	--	--	--	--	--
	10/29/2010	1.8	0.014 J	19	0.0014	<0.001	<0.001	5.8	0.066	0.23	58.4	6.76
	4/18/2011	3.3 B	--	--	--	--	--	--	--	0.58	-32.8	6.85
	10/25/2011	1.4	--	--	--	--	--	--	--	0.23	-225.3	6.82
	4/12/2012	1.6	--	--	--	--	--	--	--	0.13	260	6.77
	10/15/2012	1.6	--	--	--	--	--	--	--	1.04	242	6.77
	4/24/2013	1.5	--	--	--	--	--	--	--	0.40	49	6.90
	10/29/2013	1.6	--	--	--	--	--	--	--	0.10	7.8	6.84
	4/15/2014	1.4	--	--	--	--	--	--	--	0.88	58.1	6.83
WB-2L	**6/28/2010**	4.2	--	--	--	--	--	--	--	--	--	--
	10/26/2010	5.7	0.089	19	0.011	<0.001	<0.001	21	<0.010	0.12	-182.2	6.67
	4/18/2011	4.6	--	--	--	--	--	--	--	0.04	-175.3	6.82
	10/25/2011	2.6	--	--	--	--	--	--	--	0.12	-179.9	6.61
	4/11/2012	2.9	--	--	--	--	--	--	--	0.12	47	6.57
	10/15/2012	5.3	--	--	--	--	--	--	--	3.60	227	7.23
	4/24/2013	4.1	--	--	--	--	--	--	--	0.10	-285	6.67
	10/29/2013	5.0	--	--	--	--	--	--	--	0.03	-152.4	6.62
	4/15/2014	5.2	--	--	--	--	--	--	--	1.53	65.2	7.13
WB-3L	**10/27/2010**	1.0	0.021 JB	20	0.00020 J	<0.001	<0.001	12	0.15	0.24	-38.5	7.00
	10/17/2012	0.78 J	--	--	--	--	--	--	--	0.15	124	6.96
	4/24/2013	0.62 J	<0.200	29	0.0011	<0.001	<0.001	22	0.56	0.25	80	7.00
	10/29/2013	0.79 J	<0.200	31	0.00089 J	<0.001	<0.001	23	0.67	0.23	64.3	6.96
	4/15/2014	0.78 J	0.084	34	0.0020	<0.0011	<0.001	24	0.38	0.19	70.3	6.95
WB-4L	**6/28/2010**	1.4	--	--	--	--	--	--	--	--	--	--
	10/26/2010	2.3	0.019 J	25	0.00024 J	<0.001	<0.001	14	0.35	0.28	60.8	6.94
	10/17/2012	1.1	--	--	--	--	--	--	--	0.07	105	6.96
	4/24/2013	0.94 J	<0.200	27	0.00099 J	<0.001	<0.001	18	0.92	0.10	-189	6.99
	10/29/2013	1.0	<0.200	29	<0.001	<0.001	<0.001	18	1.1	0.10	56.25	6.97
	4/15/2014	0.95 J	<0.050	31	0.0014	<0.0011	<0.001	19	<0.25	0.11	65.8	6.95

Notes:

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3. "--" = analyte not tested; "J" = the concentration reported was at or below the reporting limit; "B" = the analyte in question was detected in the associated laboratory blank; "<" = the

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SAMPLE LOCATION & DATE		Total Organic Carbon	Dissolved Iron	Sulfate	Methane	Ethane	Ethene	Chloride	Nitrate	Dissolved Oxygen	Oxidation-Reduction Potential (mV)	pH (su)
Bedrock Wells												
BR-308	**6/25/2010**	1.0	--	--	--	--	--	--	--	--	--	--
	10/28/2010	1.3	0.32	38	0.011	<0.001	<0.001	23	0.0062 J	0.24	-155.0	7.32
	10/18/2012	0.96 J	--	--	--	--	--	--	--	0.08	-104	7.16
DEC-203R	**10/27/2010**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/19/2011	0.48 J	--	--	--	--	--	--	--	0.27	-27.2	6.42
	10/27/2011	1.3	--	--	--	--	--	--	--	0.10	48.7	6.64
	4/12/2012	1.3	--	--	--	--	--	--	--	0.07	127	6.54
	10/16/2012	1.3	--	--	--	--	--	--	--	0.11	175	6.52
GZ-504R	**6/25/2010**	1.8	--	--	--	--	--	--	--	--	--	--
	10/28/2010	2.2	0.2	53	0.023	<0.001	<0.001	14	0.015	0.27	-89.5	6.98
	4/19/2011	1.1	0.140 B	55	0.017	<0.001	<0.001	20	<0.010	0.04	-112.9	6.96
	10/25/2011	1.5	0.020 J	16	0.00070 J	<0.001	<0.001	5.5	1.2	0.15	162.5	7.23
	4/11/2012	1.4	0.019 J	58	0.00045 J	<0.001	<0.001	21	0.19	0.07	155	7.00
	10/15/2012	1.2	<0.200	77	0.00035 J	<0.001	<0.001	24	0.20	0.18	218	6.95
	4/24/2013	1.6	<0.200	81	0.00063 J	<0.001	<0.001	24	0.10	0.17	77	7.05
	10/30/2013	0.81 J	<0.200	82	0.0010	<0.001	<0.001	23	<0.01	0.10	60.27	7.05
	4/15/2014	0.85 J	<0.050	80	0.00090	<0.0011	<0.001	24	0.065	0.17	53.0	6.98
GZ-505R	**6/28/2010**	0.75 J	--	--	--	--	--	--	--	--	--	--
	10/26/2010	1.4	0.017 J	39	0.00026 J	<0.001	<0.001	12	2.8	0.12	71.8	6.93
	10/17/2012	0.86 J	--	--	--	--	--	--	--	0.10	-37	6.95
	4/24/2013	0.53 J	<0.200	41	0.18	<0.001	<0.001	19	0.93	0.18	12	7.01
	10/30/2013	0.76 J	<0.200	38	0.24	<0.001	<0.001	16	0.94	0.09	34.4	6.99
	4/15/2014	0.74 J	<0.050	35	0.033	<0.0011	<0.001	15	0.81	0.16	30.9	6.97
GZ-506R	**6/24/2010**	1	--	--	--	--	--	--	--	--	--	--
	10/29/2010	0.86 J	0.018 J	64	0.00016 J	<0.001	<0.001	18	0.93	0.9	-13.1	6.81
	4/19/2011	<1.0	0.033 JB	56	0.00053 J	<0.001	<0.001	28	0.78	1.15	-127.3	6.70
	10/27/2011	0.57 J	0.770	47	<0.001	<0.001	<0.001	19	1.5	0.71	-20.4	6.92
	4/12/2012	0.51 J	0.099	40	<0.001	<0.001	<0.001	24	0.73	0.30	76	6.83
	10/16/2012	0.65 J	0.083 J	44	0.000093 J	<0.001	<0.001	28	0.51	0.74	-22	6.84
	4/25/2013	<1.0	<0.200	49	<0.001	<0.001	<0.001	36	0.23	0.29	-246	6.82
	10/31/2013	0.56 J	<0.200	53	<0.001	<0.001	<0.001	33	0.32	0.36	77.2	6.86
	4/17/2014	0.62 J	<0.050	50	0.00044 J	<0.0011	<0.001	34	0.26	0.42	47.4	6.77
GZ-601R	**4/12/2012**	1.5	0.14	61	0.019	0.00023 J	0.00060 J	40	<0.010	0.26	-3	7.36
	10/16/2012	1.2	0.25	59	0.011	<0.001	0.00026 J	34	<0.010	0.14	-261	7.40
	4/25/2013	0.86 J	0.21	60	0.014	<0.001	0.0020	34	<0.010	0.10	-318	7.37
	10/30/2013	1.1	0.20	56	0.019	<0.001	0.0018	32	0.056	0.10	-152.9	7.39
	4/17/2014	0.65 J	0.12	55	0.013	<0.0011	0.0024	29	<0.050	0.14	-81.3	7.31
GZ-701R	**4/17/2014**	--	--	--	--	--	--	--	--	0.97	76.1	6.42
GZ-703R	**4/17/2014**	--	--	--	--	--	--	--	--	0.13	30.1	7.02
OW-304R	**6/24/2010**	<1.0	--	--	--	--	--	--	--	--	--	--
	10/29/2010	0.55 J	0.030 J	43	0.019	<0.001	0.00021 J	16	0.91	0.09	-179.8	7.49
	4/21/2011	0.52 J	--	--	--	--	--	--	--	0.12	-128.2	7.37
	10/27/2011	0.36 J	0.410	46	0.0077	<0.001	<0.001	20	1.2	0.07	-105.8	7.42
	4/12/2012	0.53 J	0.021 J	48	0.0076	<0.001	<0.001	21	1.1	0.11	-8	7.33
	10/16/2012	0.87 J	--	51	0.0085	<0.001	<0.001	23	1.2	0.76	-98	7.33
	4/25/2013	0.65 J	--	--	--	--	--	--	--	0.05	-344	7.30
	10/31/2013	0.74 J	--	--	--	--	--	--	--	0.06	20.7	7.31
	4/17/2014	0.77 J	--	--	--	--	--	--	--	0.10	14.8	7.20
OW-402R	**10/29/2010**	1.2	0.24	54	0.011	<0.001	<0.001	24	0.17	0.09	-60.9	6.95
	4/20/2011	2.9 B	0.100	100	0.00020 J	<0.001	<0.001	43	0.053	0.07	-93.9	6.91
	10/25/2011	1.1	0.084	76	0.0013	<0.001	0.00021 J	30	<0.010	0.12	-179.1	7.04
	4/10/2012	0.76 J	0.022 J	77	0.00081 J	<0.001	0.00024 J	34	0.086	0.08	88	6.94
	10/15/2012	0.77 J	<0.200	75	0.00016 J	<0.001	<0.001	35	0.14	0.09	161	7.07
	4/23/2013	0.45 J	<0.200	72	<0.002	<0.002	<0.002	36	0.38	0.05	70	7.02
	10/30/2013	0.48 J	<0.200	70	0.00094 J	<0.001	<0.001	36	0.57	0.09	59.9	7.12
	4/16/2014	0.69 J	<0.050	70	0.00044 J	<0.0011	<0.001	37	0.94	0.22	53.2	7.11
OW-404R	**6/25/2010**	2	--	--	--	--	--	--	--	--	--	--
	10/28/2010	2.1	0.43	23	0.031	<0.001	<0.001	9.8	<0.010	0.12	-79.5	6.72
	4/19/2011	1.2	0.390 B	29	0.048	<0.001	<0.001	9.7	<0.010	0.03	-123.1	6.72
	10/25/2011	1.8	0.430	25	0.050	0.00019 J	<0.001	9.8	<0.010	0.11	-50.1	6.73
	4/12/2012	1.6	0.27	29	0.058	0.00022 J	<0.001	9.3	<0.010	0.17	114	6.67
	10/15/2012	1.7	0.34	26	0.034	<0.001	<0.001	9.7	0.086	0.27	11	6.70
	4/24/2013	1.3	0.21	27	0.046	<0.001	<0.001	10	0.014	0.11	-258	6.77
	10/29/2013	1.3	0.15 J	27	0.054	<0.001	<0.001	10	0.014	0.06	13.6	6.73
	4/15/2014	1.6	0.12	25	0.026	<0.0011	<0.001	9.2	<0.050	0.28	20.7	6.72

Notes:
1. All units are milligrams per liter (mg/L), except Oxidation-Reduction Potential - millivolts (mV) and pH - standard unit (su).
2. Wells highlighted in gray have historically had near non-detect concentrations of constituents of concern (COCs).
3. "--" = analyte not tested; "J" = the concentration reported was at or below the reporting limit; "B" = the analyte in question was detected in the associated laboratory blank; "<" = the

TABLE 3

Intrinsic Biodegradation Sampling Program - April 2014
Hewlett-Packard Voluntary Remediation Project
San German, Puerto Rico

WELL ID	SAMPLED (YES/NO)	PARAMETERS		RATIONALE FOR NOT SAMPLING
		Limited Set	Complete Set	
Wells Required to be Sampled April 2014 in accordance with the Intrinsic Biodegradation Work Plan				
Alluvium/Fill				
GZ-501U	NO	x		Concentrations below reporting limits since shutdown.
GZ-503U	YES	x		
GZ-504U	NO	x		Well dry during sampling round.
GZ-506U	YES	x		
GZ-519U	YES		x	
OW-101	YES		x	
OW-105	NO	x		Concentrations below reporting limits since shutdown.
OW-304U	YES	x		
OW-305I	YES	x		
OW-402U	YES		x	
WB-1U	NO	x		Well had insufficient volume of water during sampling round.
Saprolite				
DEC-204O	YES	x		
GZ-501L	YES	x		
GZ-502L	YES		x	
GZ-503L	YES		x	
GZ-505L	YES	x		
OW-1	NO	x		Concentrations below reporting limits since shutdown.
OW-101L	YES		x	
OW-304L	YES		x	
OW-307	YES		x	
OW-402L	YES	x		
OW-403L	YES		x	
WB-1L	YES	x		
WB-2L	YES	x		
Bedrock				
DEC-203R	NO	x		Concentrations below reporting limits since shutdown.
GZ-504R	YES	(Note 3)	x	
GZ-506R	YES		x	
OW-304R	YES	x		
OW-402R	YES		x	
OW-404R	YES		x	
Wells Electively Planned for Sampling April 2014				
Alluvium/Fill				
GZ-515U	YES		x	
GZ-702U	YES	(Note 5)		
OW-305U	YES		x	
Saprolite				
GZ-504L	YES	x		
GZ-601L	YES	x		
GZ-701L	YES	(Note 5)		
OW-102	YES	x		
OW-301	YES		x	
OW-408	YES	x		
WB-3L	YES		x	
WB-4L	YES		x	
Bedrock				
GZ-505R	YES		x	
GZ-601R	YES		x	
GZ-701R	YES	(Note 5)		
GZ-703R	YES	(Note 5)		

Notes:
1. "Limited Set" indicates analysis limited to only chlorinated volatile organic compounds (cVOCs), total organic carbon (TOC), and the field parameters - dissolved oxygen (DO), pH, and oxidation-reduction potential (ORP)
2. "Complete Set" indicates analysis of cVOCs, dissolved iron, sulfate, methane, ethene, ethane, TOC, chloride, nitrate, and the field parameters DO, pH, and ORP.
3. A Limited Set of parameters was required in the Intrinsic Biodegradation Work Plan.
4. GZ-601L and GZ-601R were installed in February 2012, and, therefore, were not included in the Intrinsic Biodegradation Work Plan.
5. GZ-701L, GZ-701R, GZ-702U, and GZ-703R were installed in April 2014, and, therefore, were not included in the Intrinsic Biodegradation Work Plan. TOC analysis was not conducted at these wells during the April 2014 sampling round.

TABLE 4
SUMMARY OF GROUNDWATER ELEVATION DATA
Hewlett-Packard Voluntary Remediation Project
San German, Puerto Rico

Date	GROUNDWATER ELEVATION DATA [1]																		
	BR-308	**DEC-203R**	**DEC-204O**	**GZ-501U**	**GZ-501L**	**GZ-502L**	**GZ-503U**	**GZ-503L**	**GZ-504U**	**GZ-504L**	**GZ-504R**	**GZ-505L**	**GZ-505R**	**GZ-506U**	**GZ-506R**	**GZ-507R**	**GZ-508R**	**GZ-509R**	**GZ-510R**
Ref as of 8/16/14	*138.72*	*156.35*	*156.44*	*135.77*	*136.03*	*135.96*	*136.09*	*136.08*	*130.62*	*130.70*	*130.83*	*132.82*	*132.77*	*146.66*	*146.48*	*133.19*	*128.14*	*128.73*	*130.51*
11/30/10	114.98	112.44	116.56	130.13	115.23	114.96	128.01	114.88	120.82	114.97	114.73	114.92	114.67	139.07	115.33	114.38	113.82	113.33	114.50
01/05/11	114.62	119.46	119.51	128.47	114.61	114.61	127.89	114.48	120.79	114.30	114.24	114.67	114.37	139.51	114.97	113.70	113.33	112.85	113.87
01/26/11	115.00	121.38	121.44	130.57	114.98	114.66	128.49	115.03	120.90	114.65	114.53	114.67	114.27	140.09	115.76	114.18	113.58	113.12	114.28
02/28/11	114.71	123.05	123.03	129.94	114.68	114.72	129.71	114.47	120.84	114.44	114.34	114.56	114.38	138.81	115.43	112.12	111.68	111.19	112.31
03/24/11	114.67	124.63	124.78	129.99	114.36	114.42	129.67	114.34	120.71	114.38	114.24	114.28	114.01	140.33	115.29	113.22	112.87	112.35	113.37
4/19,26/2011	114.42	123.45	123.48	131.24	114.47	114.55	130.18	114.35	119.69	114.38	114.19	114.04	113.93	139.66	115.76	112.58	111.84	111.32	112.48
07/21/11	115.32	129.66	129.68	130.32	115.22	115.16	128.61	114.96	120.91	114.61	114.51	114.62	114.93	139.86	116.48	112.68	111.50	110.99	112.30
10/27,28/2011	119.12	132.11	132.21	132.52	119.03	118.96	132.31	117.48	120.87	118.45	117.83	117.59	117.77	140.94	121.48	110.90	114.32	113.69	115.44
01/27/12	115.07	130.35	129.64	129.65	115.03	114.96	127.99	114.73	120.87	114.45	114.33	114.32	114.32	<139.04	115.98	112.09	111.20	110.72	111.87
04/09/12	115.92	128.86	128.74	133.94	115.63	115.23	129.51	115.23	120.88	115.00	114.66	115.14	114.86	140.15	116.39	112.82	111.85	111.31	112.64
07/24/12	115.07	127.63	127.44	131.24	114.93	114.81	129.29	114.68	<118.97	114.40	114.23	114.62	114.37	139.73	115.88	112.00	111.08	110.57	111.98
10/12/12	116.40	129.78	130.12	132.78	116.72	116.03	130.24	115.23	<118.97	114.90	115.53	115.82	115.80	139.99	118.25	113.68	111.88	111.28	112.98
01/16/13	115.32	130.35	130.19	129.57	116.23	114.96	127.09	114.88	<118.97	114.55	114.33	114.82	114.52	139.35	116.33	111.49	110.36	109.84	111.36
04/22/13	115.17	126.95	126.49	131.44	115.08	114.96	131.09	114.76	<118.97	114.53	114.48	114.22	114.47	139.83	116.08	111.84	110.97	110.49	112.00
07/18/13	116.02	127.60	128.09	134.37	115.96	115.71	130.32	115.63	<118.97	115.40	115.03	115.42	115.22	140.21	117.34	112.95	111.74	111.12	112.76
10/28/13	115.42	129.50	128.89	129.87	115.28	115.16	128.44	114.93	<118.97	114.60	114.48	114.82	114.62	139.56	116.36	112.43	111.45	110.79	112.40
01/22/14	114.82	128.72	128.15	130.06	114.78	114.77	127.96	114.64	<118.97	114.34	114.17	114.57	114.37	139.86	115.68	111.53	110.71	110.26	111.62
04/18/14	116.32	127.85	127.84	133.67	116.33	116.11	131.29	115.73	<118.97	115.55	115.28	115.32	115.27	140.31	118.28	---	111.63	110.99	112.52
	WELL CONSTRUCTION INFORMATION																		
Bottom of Boring [2]	164.00	58.00	40.00	8.00	33.50	35.00	8.40	35.00	13.00	28.50	51.00	27.00	59.00	10.00	81.00	60.00	39.50	54.00	79.00
Boring Bottom Elevation [1]	-25.28	98.35	116.44	129.00	103.88	102.34	129.08	102.38	118.97	103.59	81.13	107.17	75.13	138.04	66.81	73.19	89.69	75.91	52.52
Bottom Screen Elevation [1]		98.35	118.40	129.00	103.88	103.34	129.08	102.38	118.97	103.59	81.13	107.17	75.13	139.04	66.81	73.69	90.69	75.91	52.52
Bottom of Screen [2]		58.00	40.00	8.00	33.50	34.00	8.40	35.00	13.00	28.50	51.00	27.00	59.00	9.00	81.00	59.50	38.50	54.00	79.00
Date	**DEPTH TO WATER MEASUREMENTS [2]**																		
	BR-308	**DEC-203R**	**DEC-204O**	**GZ-501U**	**GZ-501L**	**GZ-502L**	**GZ-503U**	**GZ-503L**	**GZ-504U**	**GZ-504L**	**GZ-504R**	**GZ-505L**	**GZ-505R**	**GZ-506U**	**GZ-506R**	**GZ-507R**	**GZ-508R**	**GZ-509R**	**GZ-510R**
Ref as of 8/16/14	*138.72*	*156.35*	*156.44*	*135.77*	*136.03*	*135.96*	*136.09*	*136.08*	*130.62*	*130.70*	*130.83*	*132.82*	*132.77*	*146.66*	*146.48*	*133.19*	*128.14*	*128.73*	*130.51*
11/30/10	23.74	43.91	39.88	5.64	20.80	21.00	8.08	21.20	9.80	15.73	16.10	17.90	18.10	7.59	31.15	---	---	---	---
01/05/11	24.10	36.89	36.93	7.30	21.42	21.35	8.20	21.60	9.83	16.40	16.59	18.15	18.40	7.15	31.51	---	---	---	---
01/26/11	23.72	34.97	35.00	5.20	21.05	21.30	7.60	21.05	9.72	16.05	16.30	18.15	18.50	6.57	30.72	---	---	---	---
02/28/11	24.01	33.30	33.41	5.83	21.35	21.24	6.38	21.61	9.78	16.26	16.49	18.26	18.39	7.85	31.05	---	---	---	---
03/24/11	24.05	31.72	31.66	5.78	21.67	21.54	6.42	21.74	9.91	16.32	16.59	18.54	18.76	6.33	31.19	---	---	---	---
04/26/11	24.30	32.90	32.96	4.53	21.56	21.41	5.91	21.73	10.93	16.32	16.64	18.78	18.84	7.00	30.72	---	---	---	---
07/21/11	23.40	26.69	26.76	5.45	20.81	20.80	7.48	21.12	9.71	16.09	16.32	18.20	17.84	6.80	30.00	---	---	---	---
10/28/11	19.60	24.24	24.23	3.25	17.00	17.00	3.78	18.60	9.75	12.25	13.00	15.23	15.00	5.72	25.00	---	---	---	---
01/27/12	23.65	26.00	26.80	6.12	21.00	21.00	8.10	21.35	9.75	16.25	16.50	18.50	18.45	dry	30.50	---	---	---	---
04/09/12	22.80	27.49	27.70	1.83	20.40	20.73	6.58	20.85	9.74	15.70	16.17	17.68	17.91	6.51	30.09	---	---	---	---
07/24/12	23.65	28.72	29.00	4.53	21.10	21.15	6.80	21.40	dry	16.30	16.60	18.20	18.40	6.93	30.60	---	---	---	---
10/12/12	22.32	26.57	26.32	2.99	19.31	19.93	5.85	20.85	dry	15.80	15.30	17.00	16.97	6.67	28.23	---	---	---	---
01/16/13	23.40	26.00	26.25	6.20	19.80	21.00	9.00	21.20	dry	16.15	16.50	18.00	18.25	7.31	30.15	---	---	---	---
04/22/13	23.55	29.40	29.95	4.33	20.95	21.00	5.00	21.32	dry	16.17	16.35	18.60	18.30	6.83	30.40	---	---	---	---
07/18/13	22.70	28.75	28.35	1.40	20.07	20.25	5.77	20.45	dry	15.30	15.80	17.40	17.55	6.45	29.14	---	---	---	---
10/28/13	23.30	26.85	27.55	5.90	20.75	20.80	7.65	21.15	dry	16.10	16.35	18.00	18.15	7.10	30.12	---	---	---	---
01/22/14	23.90	27.63	28.29	5.71	21.25	21.19	8.13	21.44	dry	16.36	16.66	18.25	18.40	6.80	30.80	---	---	---	---
04/18/14	22.40	28.50	28.60	2.10	19.70	19.85	4.80	20.35	dry	15.15	15.55	17.50	17.50	6.35	28.20	---	---	---	---

1. Groundwater elevations are in units of feet. Elevations are given relative to Lajas 2 (PID AB9841, NAVD 29) in Sabana Grande, Puerto Rico with elevation 200.27 feet.
2. Depth to water, bottom of boring, and bottom of screen units are feet below ground surface. Measurements are made from the top of the PVC riser of each well.
3. All groundwater level measurements were made by JFA personnel. Measurements were made using a water level indicator except for measurements at wells GZ-507R, GZ-508R, GZ-509R, GZ510R, GZ-512R, and GZ-513R which were made using pressure transducers.
4. Water levels have been measured at times and under conditions stated in the text. Fluctuations in the levels of groundwater may occur due to variations in temperature, rainfall, and other factors.
5. Reference elevations were surveyed by Jose O Quinones Moret, BS, PLS of Puerto Rico.
6. Other Notes:
   "dry" indicates water was not observed within the monitoring well.
   "<" signifies less than - elevation shown is for the bottom of the well.
   "---" signifies information is not available.
   "NR" signifies that a water level measurement was not obtained.
7. The end of December 2010 groundwater level round was conducted on January 5, 2011 due to the holidays.
8. For October 12, 2012 data, the original GZ-601R elevation appeared to be the result of a field error. Because the groundwater elevations in GZ-601L and GZ-601R on October 16, 2012 were equal, the October 12, 2012 GZ-601R elevation is assumed to be equal to the GZ-601L elevation on that date.
9. Reference elevations were re-surveyed on August 16, 2014. All previous groundwater elevations were adjusted to reflect the new survey information.

TABLE 4
SUMMARY OF GROUNDWATER ELEVATION DATA
Hewlett-Packard Voluntary Remediation Project
San German, Puerto Rico

Date	GZ-511U	GZ-512R	GZ-513R	GZ-515U	GZ-519U	GZ-601L	GZ-601R	GZ-701L	GZ-701R	GZ-702U	GZ-703R	OW-1	OW-101	OW-101L	OW-102	OW-105	OW-301	OW-304U	OW-304L	OW-304R	OW-305I
	GROUNDWATER ELEVATION DATA																				
Ref as of 8/16/14	*141.84*	*128.63*	*129.15*	*127.85*	*147.02*	*127.69*	*127.88*	*153.33*	*151.93*	*125.58*	*139.97*	*159.27*	*145.24*	*145.78*	*146.11*	*145.88*	*149.29*	*150.03*	*149.91*	*150.00*	*141.63*
11/30/10	137.54	113.83	111.59	117.50	139.57	---	---	---	---	---	---	126.92	134.21	<111.31	115.38	142.45	129.60	140.98	118.11	118.45	138.66
01/05/11	135.04	113.28	111.11	120.05	139.02	---	---	---	---	---	---	126.62	133.24	117.27	115.11	142.13	---	140.06	116.21	116.20	137.30
01/26/11	138.09	113.69	111.37	123.40	140.24	---	---	---	---	---	---	126.99	133.24	118.78	116.11	142.98	128.34	140.11	116.34	116.33	139.48
02/28/11	136.63	111.54	109.40	120.76	143.83	---	---	---	---	---	---	127.27	134.03	120.05	115.60	142.96	128.14	140.09	116.01	116.19	138.77
03/24/11	136.08	113.35	110.51	116.60	143.81	---	---	---	---	---	---	128.45	133.92	119.96	115.66	141.93	128.79	140.02	115.94	115.85	139.02
4/19,26/2011	135.86	111.89	109.48	124.40	144.10	---	---	---	---	---	---	126.82	134.37	120.80	116.75	141.10	127.19	140.08	115.00	115.97	140.13
07/21/11	138.24	111.56	109.14	124.41	139.89	---	---	---	---	---	---	132.60	134.74	125.48	117.01	143.68	129.66	140.33	118.11	117.85	138.82
10/27,28/2011	138.17	116.91	111.81	124.35	141.72	---	---	---	---	---	---	135.98	135.82	129.36	122.88	142.74	131.31	142.60	121.30	121.30	141.03
01/27/12	135.64	111.24	108.77	121.76	139.54	---	---	---	---	---	---	131.76	134.11	125.28	116.33	143.43	128.49	141.06	117.36	117.35	138.23
04/09/12	135.22	111.88	109.21	122.46	140.02	114.04	113.68	---	---	---	---	131.10	134.16	125.44	117.24	142.95	128.69	141.18	117.97	118.32	138.90
07/24/12	137.74	109.53	108.43	120.90	140.07	113.59	113.63	---	---	---	---	129.47	135.09	124.13	117.21	143.13	128.29	141.23	116.81	116.70	139.48
10/12/12	138.84	114.47	109.30	123.54	140.39	114.34	114.35	---	---	---	---	132.08	135.34	127.21	119.31	143.25	130.58	141.53	119.58	119.49	140.43
01/16/13	135.34	112.82	107.79	117.85	139.47	113.69	113.58	---	---	---	---	132.52	134.34	126.18	116.76	142.93	129.29	141.13	117.91	118.15	138.13
04/22/13	138.79	113.10	108.41	123.75	142.72	113.64	113.63	---	---	---	---	128.92	135.29	123.18	116.55	143.05	127.74	<141.48	117.31	114.60	140.16
07/18/13	139.04	114.18	109.02	124.95	140.92	114.34	114.51	---	---	---	---	129.83	135.24	126.03	118.41	143.58	---	141.43	117.98	117.86	140.63
10/28/13	136.79	113.85	108.66	120.65	139.87	113.74	113.99	---	---	---	---	130.62	134.72	125.28	116.71	142.88	129.17	141.03	117.44	117.50	139.03
01/22/14	135.64	113.02	108.07	123.63	139.42	113.59	113.75	---	---	---	---	130.27	134.14	124.45	116.01	143.13	128.05	141.21	116.72	116.67	138.06
04/18/14	139.24	114.03	108.76	124.15	141.02	114.37	114.28	117.53	117.43	114.46	122.27	130.37	134.96	125.38	119.61	143.53	129.94	141.85	118.61	118.50	140.73
	WELL CONSTRUCTION INFORMATION																				
Bottom of Boring [2]	10.00	65.00	54.00	12.00	12.50	34.00	77.00	55.00	71.00	25.00	54.00	44.70	20.00	35.81	40.00	19.00	43.00	10.00	54.80	89.00	16.54
Boring Bottom Elevation [1]	130.64	64.65	76.48	117.27	136.86	93.63	50.81	72.63	56.81	102.63	73.81	114.57	125.24	111.31	106.11	126.88	106.29	141.48	95.11	62.41	126.09
Bottom Screen Elevation [1]	130.64	70.65	81.98	117.27	136.86	93.63	50.81	72.63	56.81	102.63	73.81	122.87	129.24	111.31	108.41	132.88	108.29	141.48	96.01	62.41	126.09
Bottom of Screen [2]	10.00	59.00	48.50	12.00	12.50	34.00	77.00	55.00	71.00	25.00	54.00	36.40	16.00	35.81	37.70	13.00	41.00	10.00	53.90	89.00	16.54
	DEPTH TO WATER MEASUREMENTS																				
Date	**GZ-511U**	**GZ-512R**	**GZ-513R**	**GZ-515U**	**GZ-519U**	**GZ-601L**	**GZ-601R**	**GZ-701L**	**GZ-701R**	**GZ-702U**	**GZ-703R**	**OW-1**	**OW-101**	**OW-101L**	**OW-102**	**OW-105**	**OW-301**	**OW-304U**	**OW-304L**	**OW-304R**	**OW-305I [7]**
Ref as of 8/16/14	*141.84*	*128.63*	*129.15*	*127.85*	*147.02*	*127.69*	*127.88*	*153.33*	*151.93*	*125.58*	*139.97*	*159.27*	*145.24*	*145.78*	*146.11*	*145.88*	*149.29*	*150.03*	*149.91*	*150.00*	*141.63*
11/30/10	4.30	---	---	10.35	7.45	---	---	---	---	---	---	32.35	11.03	dry	30.73	3.43	19.69	9.05	31.80	31.55	2.97
01/05/11	6.80	---	---	7.80	8.00	---	---	---	---	---	---	32.65	12.00	28.51	31.00	3.75	---	9.97	33.70	33.80	4.33
01/26/11	3.75	---	---	4.45	6.78	---	---	---	---	---	---	32.28	12.00	27.00	30.00	2.90	20.95	9.92	33.57	33.67	2.15
02/28/11	5.21	---	---	7.09	3.19	---	---	---	---	---	---	32.00	11.21	25.73	30.51	2.92	21.15	9.94	33.90	33.81	2.86
03/24/11	5.76	---	---	11.25	3.21	---	---	---	---	---	---	30.82	11.32	25.82	30.45	3.95	20.50	10.01	33.97	34.15	2.61
04/26/11	5.98	---	---	3.45	2.92	---	---	---	---	---	---	32.45	10.87	24.98	29.36	4.78	22.10	9.95	34.91	34.03	1.50
07/21/11	3.60	---	---	3.44	7.13	---	---	---	---	---	---	26.67	10.50	20.30	29.10	2.20	19.63	9.70	31.80	32.15	2.81
10/28/11	3.67	---	---	3.50	5.30	---	---	---	---	---	---	23.29	9.42	16.42	23.23	3.14	17.98	7.43	28.61	28.70	0.60
01/27/12	6.20	---	---	6.09	7.48	---	---	---	---	---	---	27.51	11.13	20.50	29.78	2.45	20.80	8.97	32.55	32.65	3.40
04/09/12	6.62	---	---	5.39	7.00	13.65	14.20	---	---	---	---	28.17	11.08	20.34	28.87	2.93	20.60	8.85	31.94	31.68	2.73
07/24/12	4.10	---	---	6.95	6.95	14.10	14.25	---	---	---	---	29.80	10.15	21.65	28.90	2.75	21.00	8.80	33.10	33.30	2.15
10/12/12	3.00	---	---	4.31	6.63	13.35	13.53	---	---	---	---	27.19	9.90	18.57	26.80	2.63	18.71	8.50	30.33	30.51	1.20
01/16/13	6.50	---	---	10.00	7.55	14.00	14.30	---	---	---	---	26.75	10.90	19.60	29.35	2.95	20.00	8.90	32.00	31.85	3.50
04/22/13	3.05	---	---	4.10	4.30	14.05	14.25	---	---	---	---	30.35	9.95	22.60	29.56	2.83	21.55	dry	32.60	35.40	1.47
07/18/13	2.80	---	---	2.90	6.10	13.35	13.37	---	---	---	---	29.44	10.00	19.75	27.70	2.30	---	8.60	31.93	32.14	1.00
10/28/13	5.05	---	---	7.20	7.15	13.95	13.89	---	---	---	---	28.65	10.52	20.50	29.40	3.00	20.12	9.00	32.47	32.50	2.60
01/22/14	6.20	---	---	4.22	7.60	14.10	14.13	---	---	---	---	29.00	11.10	21.33	30.10	2.75	21.24	8.82	33.19	33.33	3.57
04/18/14	2.60	---	---	3.70	6.00	13.32	13.60	35.80	34.50	11.12	17.70	28.90	10.28	20.40	26.50	2.35	19.35	8.18	31.30	31.50	0.90

1. Groundwater elevations are in units of feet. Elevations are given relative to Lajas 2 (PID AB9841, NAVD 29) in Sabana Grande, Puerto Rico with elevation 200.27 feet.
2. Depth to water, bottom of boring, and bottom of screen units are feet below ground surface. Measurements are made from the top of the PVC riser of each well.
groundwater
4. Water levels have been measured at times and under conditions stated in the text. Fluctuations in the levels of groundwater may occur due to variations in temperature, rainfall, and other factors.
5. Reference elevations were surveyed by Jose O Quinones Moret, BS, PLS of Puerto Rico.
6. Other Notes:
"dry" indicates water was not observed within the monitoring well.
"<" signifies less than - elevation shown is for the bottom of the well.
"---" signifies information is not available.
"NR" signifies that a water level measurement was not obtained.
7. The end of December 2010 groundwater level round was conducted on January 5, 2011 due to the holidays.
8. For October 12, 2012 data, the original GZ-601R elevation appeared to be the result of a field error. Because the groundwater elevations in GZ-601L and GZ-601R on October 16, 2012 were equal, the October 12, 2012 GZ-601R elevation is assumed to be equal to the GZ-601L elevation on that date.
9. Reference elevations were re-surveyed on August 16, 2014. All previous groundwater elevations were adjusted to reflect the new survey information.

TABLE 4
SUMMARY OF GROUNDWATER ELEVATION DATA
Hewlett-Packard Voluntary Remediation Project
San German, Puerto Rico

Date	OW-305U	OW-307	OW-401	OW-402U	OW-402L	OW-402R	OW-403L	OW-404U	OW-404L	OW-404R	OW-405	OW-407	OW-408	W-1	W-5	W-7	W-8	WB-1U	WB-1L	WB-2U	WB-2L	WB-3L	WB-4L
	GROUNDWATER ELEVATION DATA																						
Ref as of 8/16/14	*141.22*	*144.08*	*138.37*	*146.71*	*146.69*	*146.97*	*146.39*	*130.04*	*130.09*	*130.02*	*139.93*	*153.62*	*152.58*	*154.90*	*161.40*	*131.60*	*149.56*	*129.52*	*129.51*	*130.39*	*129.97*	*129.77*	*129.31*
11/30/10	139.91	111.96	115.14	133.46	111.46	114.28	112.09	126.67	114.82	114.72	119.20	131.69	115.60	114.33	---	116.62	111.92	125.39	114.31	124.75	114.60	114.44	114.47
01/05/11	137.32	117.88	114.57	<129.71	117.54	117.61	117.39	127.08	114.36	114.29	<117.70	129.62	119.83	120.39	---	115.67	118.83	125.32	115.26	122.94	114.27	114.07	114.19
01/26/11	137.82	119.60	114.95	140.11	119.01	119.19	118.92	129.06	114.72	114.62	<117.70	129.92	121.50	122.20	---	115.90	120.76	126.94	116.33	122.34	114.54	114.24	114.40
02/28/11	137.46	120.68	114.72	137.34	120.20	120.33	120.07	127.80	114.48	114.38	119.01	129.55	122.91	123.53	---	116.50	122.08	126.56	115.90	121.78	114.29	114.13	114.26
03/24/11	133.92	120.52	114.57	137.03	120.07	120.49	119.74	127.32	114.37	114.22	<117.7	130.59	124.19	125.30	---	115.56	122.76	126.63	115.75	121.84	114.30	113.96	114.10
4/19,26/2011	137.59	120.25	115.27	141.01	120.94	121.38	122.01	127.09	114.36	114.25	118.03	129.34	122.81	123.98	---	115.00	122.86	126.32	115.77	120.69	114.07	114.09	114.11
07/21/11	137.60	126.28	115.18	133.41	125.59	125.58	125.77	128.54	114.67	114.59	121.03	132.21	128.28	130.15	---	115.70	128.46	126.52	114.00	123.39	114.35	113.87	114.11
10/27,28/2011	137.39	134.13	118.97	142.32	128.97	128.12	128.83	129.44	117.16	117.62	124.03	137.44	130.98	133.17	---	118.60	131.58	126.08	119.28	124.95	116.45	116.77	116.96
01/27/12	137.37	125.90	114.97	133.31	125.23	125.55	125.94	128.29	114.44	114.37	120.48	132.87	128.48	130.15	---	115.60	128.33	124.55	115.76	122.27	114.27	113.98	114.06
04/09/12	138.18	126.34	115.59	139.71	124.91	125.48	125.68	129.61	115.25	114.92	121.32	131.24	128.06	129.16	---	115.76	127.68	126.81	117.08	122.16	114.84	114.54	114.58
07/24/12	137.62	124.88	114.92	139.88	123.99	124.17	124.39	128.59	114.29	114.22	120.17	129.82	126.91	127.70	---	115.60	126.86	126.02	114.76	122.74	114.22	113.87	114.01
10/12/12	140.62	129.83	116.27	141.08	126.71	126.57	127.08	129.58	116.09	115.61	123.02	132.52	129.21	130.39	---	116.02	129.66	126.73	116.66	124.68	115.49	114.86	115.28
01/16/13	137.22	126.88	115.17	133.81	126.24	126.37	126.64	127.79	113.49	113.42	121.48	132.02	---	129.93	---	115.70	129.06	124.92	115.61	122.69	114.27	114.02	114.01
04/22/13	138.07	125.18	115.02	140.86	123.31	123.57	123.84	129.29	114.54	114.41	119.43	128.97	126.03	126.90	---	115.60	126.01	125.37	116.36	121.59	114.42	113.92	114.01
07/18/13	138.82	129.13	115.87	141.26	125.19	125.37	125.29	130.04	115.69	115.02	122.08	---	---	128.30	---	116.40	127.71	127.27	111.31	122.89	115.42	114.57	114.21
10/28/13	137.42	125.98	115.57	137.41	125.39	125.54	125.72	127.74	114.57	114.47	121.18	130.87	128.40	129.12	---	115.65	128.09	125.32	116.21	122.83	114.37	113.99	114.09
01/22/14	138.40	125.28	114.85	133.71	124.37	124.45	124.99	129.48	114.49	114.25	120.34	130.12	127.68	---	---	---	---	126.62	116.26	122.21	114.18	113.90	114.01
04/18/14	138.52	130.18	116.17	141.56	124.89	124.97	125.29	129.69	115.64	115.22	121.98	130.97	127.38	---	---	---	---	<126.56	117.61	123.39	115.07	114.57	114.71
	WELL CONSTRUCTION INFORMATION																						
Bottom of Boring [2]	4.57	40.00	65.90	17.00	53.00	79.00	58.00	5.00	27.50	43.00	23.50	40.00	42.00					5.50	31.00	12.00	31.00	31.00	30.00
Boring Bottom Elevation [1]	138.38	104.08	72.47	129.71	93.69	69.42	88.39	125.04	102.59	87.02	117.70	115.50	112.50	-195.10	-188.60			126.56	99.84	119.73	100.25	100.12	100.61
Bottom Screen Elevation [1]	138.38	106.08	73.37	129.71	93.69	69.42	90.46	125.04	102.59	87.02	117.70	115.50	112.50					126.56	102.34	121.73	101.25	101.12	101.11
Bottom of Screen [2]	4.57	38.00	65.00	17.00	53.00	79.00	55.93	5.00	27.50	43.00	23.50	40.00	42.00					5.50	28.50	10.00	30.00	30.00	29.50
Date	**DEPTH TO WATER MEASUREMENTS**																						
	OW-305U [7]	**OW-307**	**OW-401**	**OW-402U**	**OW-402L**	**OW-402R**	**OW-403L**	**OW-404U**	**OW-404L**	**OW-404R**	**OW-405**	**OW-407**	**OW-408**	**W-1**	**W-5**	**W-7**	**W-8**	**WB-1U**	**WB-1L**	**WB-2U**	**WB-2L**	**WB-3L**	**WB-4L**
Ref as of 8/16/14	*141.22*	*144.08*	*138.37*	*146.71*	*146.69*	*146.97*	*146.39*	*130.04*	*130.09*	*130.02*	*139.93*	*153.62*	*152.58*	*154.90*	*161.40*	*131.60*	*149.56*	*129.52*	*129.51*	*130.39*	*129.97*	*129.77*	*129.31*
11/30/10	1.31	32.12	23.23	13.25	35.23	32.69	34.30	3.37	15.27	15.30	20.73	21.93	36.98	40.57	---	14.98	37.64	4.13	15.20	5.64	15.37	15.33	14.84
01/05/11	3.90	26.20	23.80	dry	29.15	29.36	29.00	2.96	15.73	15.73	dry	24.00	32.75	34.51	---	15.93	30.73	4.20	14.25	7.45	15.70	15.70	15.12
01/26/11	3.40	24.48	23.42	6.60	27.68	27.78	27.47	0.98	15.37	15.40	dry	23.70	31.08	32.70	---	15.70	28.80	2.58	13.18	8.05	15.43	15.53	14.91
02/28/11	3.76	23.40	23.65	9.37	26.49	26.64	26.32	2.24	15.61	15.64	20.92	24.07	29.67	31.37	---	15.10	27.48	2.96	13.61	8.61	15.68	15.64	15.05
03/24/11	7.30	23.56	23.80	9.68	26.62	26.48	26.65	2.72	15.72	15.80	dry	23.03	28.39	29.60	---	16.04	26.80	2.89	13.76	8.55	15.67	15.81	15.21
04/26/11	3.63	23.83	23.10	5.70	25.75	25.59	24.38	2.95	15.73	15.77	21.90	24.28	29.77	30.92	---	16.60	26.70	3.20	13.74	9.70	15.90	15.68	15.20
07/21/11	3.62	17.80	23.19	13.30	21.10	21.39	20.62	1.50	15.42	15.43	18.90	21.41	24.30	24.75	---	15.90	21.10	3.00	15.51	7.00	15.62	15.90	15.20
10/28/11	3.83	9.95	19.40	4.39	17.72	18.85	17.56	0.60	12.93	12.40	15.90	16.18	21.60	21.73	---	13.00	17.98	3.44	10.23	5.44	13.52	13.00	12.35
01/27/12	3.85	18.18	23.40	13.40	21.46	21.42	20.45	1.75	15.65	15.65	19.45	20.75	24.10	24.75	---	16.00	21.23	4.97	13.75	8.12	15.70	15.79	15.25
04/09/12	3.04	17.74	22.78	7.00	21.78	21.49	20.71	0.43	14.84	15.10	18.61	22.38	24.52	25.74	---	15.84	21.88	2.71	12.43	8.23	15.13	15.23	14.73
07/24/12	3.60	19.20	23.45	6.83	22.70	22.80	22.00	1.45	15.80	15.80	19.76	23.80	25.67	27.20	---	16.00	22.70	3.50	14.75	7.65	15.75	15.90	15.30
10/12/12	0.60	14.25	22.10	5.63	19.98	20.40	19.31	0.46	14.00	14.41	16.91	21.10	23.37	24.51	---	15.58	19.90	2.79	12.85	5.71	14.48	14.91	14.03
01/16/13	4.00	17.20	23.20	12.90	20.45	20.60	19.75	2.25	16.60	16.60	18.45	21.60	---	24.97	---	15.90	20.50	4.60	13.90	7.70	15.70	15.75	15.30
04/22/13	3.15	18.90	23.35	5.85	23.38	23.40	22.55	0.75	15.55	15.61	20.50	24.65	26.55	28.00	---	16.00	23.55	4.15	13.15	8.80	15.55	15.85	15.30
07/18/13	2.40	14.95	22.50	5.45	21.50	21.60	21.10	0.00	14.40	15.00	17.85	---	---	26.60	---	15.20	21.85	2.25	18.20	7.50	14.55	15.20	15.10
10/28/13	3.80	18.10	22.80	9.30	21.30	21.43	20.67	2.30	15.52	15.55	18.75	22.75	24.18	25.78	---	15.95	21.47	4.20	13.30	7.56	15.60	15.78	15.22
01/22/14	2.82	18.80	23.52	13.00	22.32	22.52	21.40	0.56	15.60	15.77	19.59	23.50	24.90	---	---	---	---	2.90	13.25	8.18	15.79	15.87	15.30
04/18/14	2.70	13.90	22.20	5.15	21.80	22.00	21.10	0.35	14.45	14.80	17.95	22.65	25.20	---	---	---	---	dry	11.90	7.00	14.90	15.20	14.60

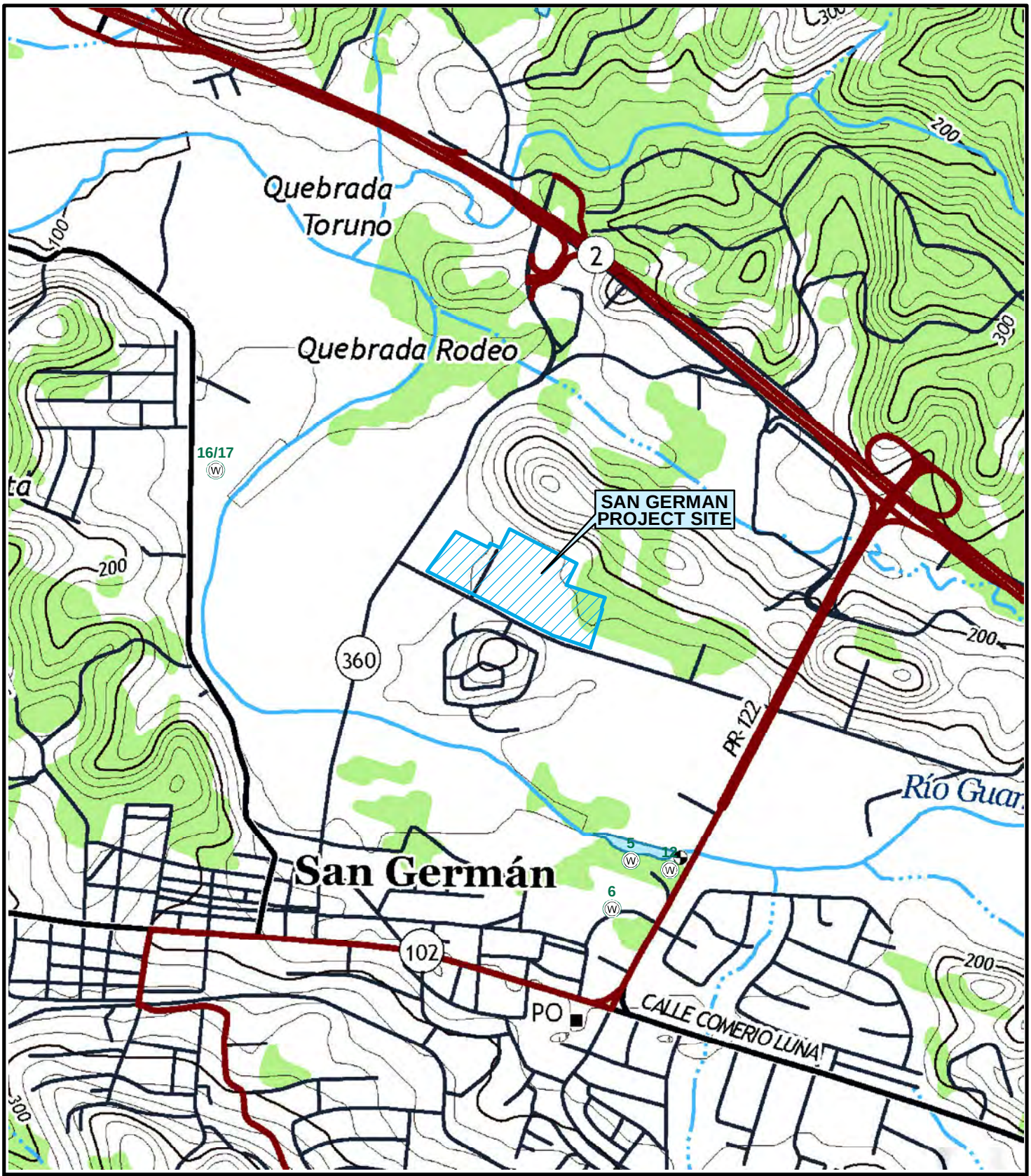
1. Groundwater elevations are in units of feet. Elevations are given relative to Lajas 2 (PID AB9841, NAVD 29) in Sabana Grande, Puerto Rico with elevation 200.27 feet.
2. Depth to water, bottom of boring, and bottom of screen units are feet below ground surface. Measurements are made from the top of the PVC riser of each well.
3. All groundwater level measurements were made by JFA personnel. Measurements were made using a water level indicator except for measurements at wells GZ-507R, GZ-508R, GZ-509R, GZ510R, GZ-512R, and GZ-513R which were made using pressure transducers.
4. Water levels have been measured at times and under conditions stated in the text. Fluctuations in the levels of groundwater may occur due to variations in temperature, rainfall, and other factors.
5. Reference elevations were surveyed by Jose O Quinones Moret, BS, PLS of Puerto Rico.
6. Other Notes:
   "dry" indicates water was not observed within the monitoring well.
   "<" signifies less than - elevation shown is for the bottom of the well.
   "---" signifies information is not available.
   "NR" signifies that a water level measurement was not obtained.
7. The end of December 2010 groundwater level round was conducted on January 5, 2011 due to the holidays.
8. For October 12, 2012 data, the original GZ-601R elevation appeared to be the result of a field error. Because the groundwater elevations in GZ-601L and GZ-601R on October 16, 2012 were equal, the October 12, 2012 GZ-601R elevation is assumed to be equal to the GZ-601L elevation on that date.
9. Reference elevations were re-surveyed on August 16, 2014. All previous groundwater elevations were adjusted to reflect the new survey information.

TABLE 5
Proposed Intrinsic Biodegradation Sampling Program - October 2014
Hewlett-Packard Voluntary Remediation Project
San German, Puerto Rico

WELL ID	TO BE SAMPLED (YES/NO)	PARAMETERS		JUSTIFICATION FOR SAMPLING CHANGE
		Limited Set	Complete Set	
Wells Required to be Sampled October 2014 in accordance with the Intrinsic Biodegradation Work Plan				
Alluvium/Fill				
GZ-501U	YES	x		
GZ-503U	YES	x		
GZ-504U	YES	x		
GZ-506U	YES	x		
GZ-511U	YES	x		
GZ-515U	YES	(Note 3)	x	Apparent Background Well
GZ-519U	YES		x	
OW-101	YES		x	
OW-105	YES	x		
OW-304U	YES	x		
OW-305I	YES	x		
OW-305U	YES	(Note 3)	x	Located in Possible Source Area
OW-402U	YES		x	
OW-404U	YES	x		
WB-1U	YES	x		
WB-2U	YES	x		
Saprolite				
DEC-204O	YES	x		
GZ-501L	YES	x		
GZ-502L	YES		x	
GZ-503L	YES		x	
GZ-504L	YES	x		
GZ-505L	YES	x		
OW-1	YES	x		
OW-101L	YES		x	
OW-102	YES	x		
OW-301	YES	(Note 3)	x	Apparent Background Well
OW-304L	YES		x	
OW-307	YES		x	
OW-401	YES	x		
OW-402L	YES	x		
OW-403L	YES		x	
OW-404L	YES	x		
OW-405	YES	x		
OW-407	YES	x		
OW-408	YES	x		
WB-1L	YES	x		
WB-2L	YES	x		
WB-3L	YES	(Note 3)	x	Slight Increase since Shutdown
WB-4L	YES	(Note 3)	x	Slight Increase since Shutdown
Bedrock				
BR-308	YES	x		
DEC-203R	YES	x		
GZ-504R	YES	(Note 3)	x	Apparent Background Well
GZ-505R	YES	(Note 3)	x	Increase since Shutdown
GZ-506R	YES		x	
OW-304R	YES	x		
OW-402R	YES		x	
OW-404R	YES		x	
Proposed Wells to be Electively Sampled October 2014				
Alluvium/Fill				
GZ-702U	YES	x		Newly Installed
Saprolite				
GZ-601L	YES	x		Newly Installed
GZ-701L	YES	x		Newly Installed
Bedrock				
GZ-601R	YES		x	Newly Installed
GZ-701R	YES	x		Newly Installed
GZ-703R	YES	x		Newly Installed

Notes:
1. "Limited Set" indicates analysis limited to only chlorinated volatile organic compounds (cVOCs), total organic carbon (TOC), nitrate, and the field parameters dissolved oxygen (DO), pH, and oxidation-reduction potential (ORP)
2. "Complete Set" indicates analysis of cVOCs, dissolved iron, sulfate, methane, ethene, ethane, TOC, chloride, nitrate, and the field parameters DO, pH, and ORP.
3. A Limited Set of parameters was required in the Intrinsic Biodegradation Work Plan.
4. GZ-601L and GZ-601R were installed in February 2012, and, therefore, were not included in the Intrinsic Biodegradation Work Plan.
5. GZ-701L, GZ-701R, GZ-702U, and GZ-703R were installed in April 2014, and, therefore, were not included in the Intrinsic Biodegradation Work Plan.

FIGURES



SOURCE : SCANNED USGS TOPOGRAPHIC QUADRANGLES DISTRIBUTED BY THE U.S. GEOLOGICAL SURVEY (USGS); SAN GERMAN, PUERTO RICO QUADRANGLE.

0 500 1,000 2,000 3,000 Feet

N W E S

PROJ. MGR.: JAC
DESIGNED BY: JY
REVIEWED BY: CAL
OPERATOR: EMD

DATE: 05-11-2014

SITE LOCUS PLAN

HEWLETT-PACKARD VOLUNTARY REMEDIATION PROJECT
SAN GERMAN, PUERTO RICO

JOB NO. 01.0024065.14

FIGURE NO. 1

GZA GeoEnvironmental, Inc.

J:\23,000-24,999\24065\24065-14.JAC\Figures\GIS\MXD\24065-14_2013-USGS_SiteLocus_FIG1_[1-1000].mxd, 5/11/2014, 10:13:58 PM, elaine.donohue

LEGEND

- ABANDONED BEDROCK EXTRACTION WELL
- MONITORING WELL SCREENED IN FILL
- MONITORING WELL SCREENED IN ALLUVIUM
- MONITORING WELL SCREENED IN SAPROLITE
- MONITORING WELL SCREENED IN BEDROCK
- ABANDONED MONITORING WELL
- SOIL VAPOR EXTRACTION WELL
- APPROXIMATE PROPERTY BOUNDARY
- ELEVATION CONTOUR (2012 USGS TOPOGRAPHIC QUADRANGLE)

NOTES:

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0 25 50 100 150
SCALE IN FEET

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PROJECT PROGRESS REPORT
JANUARY 2014 (Q1) THROUGH JUNE 2014 (Q2)
HEWLETT-PACKARD VOLUNTARY REMEDIATION PROJECT
SAN GERMAN, PUERTO RICO

SITE PLAN

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
HEWLETT-PACKARD COMPANY

PROJ MGR: JAC	REVIEWED BY: CAL	CHECKED BY: CAL	FIGURE
DESIGNED BY: JY	DRAWN BY: EMD	SCALE: 1 INCH = 50 FT	2
DATE: 10-10-2014	PROJECT NO. 01.0024065.14	REVISION NO.	

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LEGEND

- OW-305U 138.52 — MONITORING WELL SCREENED IN FILL — GROUNDWATER ELEVATION IN FILL UNIT (APRIL 2014)
- OW-305L 140.73 — MONITORING WELL SCREENED IN ALLUVIUM — GROUNDWATER ELEVATION IN ALLUVIUM UNIT (APRIL 2014)
- OW-401 116.17 — MONITORING WELL SCREENED IN SAPROLITE — GROUNDWATER ELEVATION IN SAPROLITE UNIT (APRIL 2014)
- BR-308 116.32 — MONITORING WELL SCREENED IN BEDROCK — GROUNDWATER ELEVATION IN BEDROCK UNIT (APRIL 2014)
- GZ-502 — ABANDONED MONITORING WELL
- W-8 — ABANDONED BEDROCK EXTRACTION WELL
- GROUNDWATER CONTOUR IN BEDROCK UNIT (APRIL 2014)
- INFERRED GROUNDWATER CONTOUR IN BEDROCK UNIT (APRIL 2014)
- APPROXIMATE PROPERTY BOUNDARY
- ELEVATION CONTOUR (2012 USGS TOPOGRAPHIC QUADRANGLE)

0 25 50 100 150
SCALE IN FEET

NOTES:

1) WATER LEVELS WERE MEASURED BY JAIME FELICIANO & ASSOCIATES PERSONNEL ON APRIL 18, 2014.

2) THE GROUNDWATER TREATMENT SYSTEM WAS SHUT DOWN AT 13:25 ON NOVEMBER 1, 2010 IN ACCORDANCE WITH THE INTRINSIC BIODEGRADATION STUDY WORK PLAN SUBMITTED ON MAY 14, 2010 AND APPROVED BY THE PUERTO RICO ENVIRONMENTAL QUALITY BOARD ON OCTOBER 29, 2010.

3) APPROXIMATELY 2.6 INCHES OF PRECIPITATION WERE MEASURED DURING THE MONTH PRIOR TO THE APRIL 18, 2014 WATER LEVEL MEASURING EVENT.

4) THIS MAP CONTAINS THE ESRI ArcGIS ONLINE WORLD IMAGERY MAP SERVICE, PUBLISHED DECEMBER 12, 2009 BY ESRI ARCIMS SERVICES AND UPDATED OFTEN. THIS SEI UNIFORM NATIONALLY RECOGNIZED DATUM AND CARTOGRAPHY STANDARDS AND A VARIETY OF AVAILABLE SOURCES FROM SEVERAL DATA PROVIDERS.

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- PLAN PROVIDED BY DIGITAL EQUIPMENT CORPORATION (DEC) OF SAN GERMAN, PUERTO RICO ENTITLED "PLAN & PROFILE', DRAWN BY: YELAZQUES, DATED: 01-23-1987, ORIGINAL SCALE: 1:500 OR 1"=41.'

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7) WATER LEVEL DATA SHOWN WITH A "<" DESIGNATION INDICATES WELL WAS DRY AT THE TIME THE MEASUREMENTS WERE TAKEN. VALUE PROVIDED INDICATES BOTTOM OF WELL ELEVATION.

8) THE ESTIMATED GROUNDWATER ELEVATION CONTOURS AND DIRECTION OF GROUNDWATER FLOW ARE BASED ON MEASURED WATER LEVELS IN WIDELY SPACED MONITORING WELLS AND ASSUME AN IDEALIZED SPATIAL DISTRIBUTION OF HYDRAULIC HEAD. ACTUAL GROUNDWATER FLOW WILL OCCUR PREFERENTIALLY ALONG FRACTURE SETS WHICH REPRESENT HIGH PERMEABILITY PATHWAYS. THESE PATHWAYS MAY NOT BE ALIGNED WITH THE LOCAL HYDRAULIC HEAD GRADIENT AND MAY CONSEQUENTLY RESULT IN GROUNDWATER FLOW IN A DIRECTOIN WHICH IS NOT ALIGNED WITH THE DEPICTED MAXIMUM HYDRAULIC GRADIENT.

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PROJECT PROGRESS REPORT
JANUARY 2014 (Q1) THROUGH JUNE 2014 (Q2)
HEWLETT-PACKARD VOLUNTARY REMEDIATION PROJECT
SAN GERMAN, PUERTO RICO

APRIL 2014 GROUNDWATER CONTOURS IN BEDROCK

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com

PREPARED FOR: HEWLETT-PACKARD COMPANY

PROJ MGR: JAC	REVIEWED BY: CAL	CHECKED BY: CAL	FIGURE 3
DESIGNED BY: JY	DRAWN BY: EMD/SMW	SCALE: 1 INCH = 50 FT	
DATE: 10-10-2014	PROJECT NO. 01.0024065.14	REVISION NO.	

© 2014 - GZA GeoEnvironmental, Inc. J:\23.000-24.999\24065\24065-14 JAC\Figures\GIS\MXD\24065-14_GWC_2014AprilData_FIG3.mxd, 10/10/2014, 8:49:19 PM, Elaine.donohue

LEGEND

- OW-305U 25 — MONITORING WELL SCREENED IN FILL
  CHEMICAL CONCENTRATION IN GROUNDWATER FOR TRICHLOROETHENE (TCE) IN FILL UNIT IN MICROGRAMS PER LITER ug/L (APRIL 2014)
- OW-305I 46 — MONITORING WELL SCREENED IN ALLUVIUM
  CHEMICAL CONCENTRATION IN GROUNDWATER FOR TRICHLOROETHENE (TCE) IN ALLUVIUM UNIT IN MICROGRAMS PER LITER ug/L (APRIL 2014)
- MONITORING WELL SCREENED IN SAPROLITE
- MONITORING WELL SCREENED IN BEDROCK
- ABANDONED MONITORING WELL
- ABANDONED BEDROCK EXTRACTION WELL

(DRY) - INDICATES WELL DRY UPON SAMPLING
(NS) - INDICATES NO SAMPLE TAKEN
(ND) - INDICATES VOLATILE ORGANIC COMPOUNDS (VOC's) NOT DETECTED

- 5 — GROUNDWATER CHEMICAL CONCENTRATION CONTOURS IN FILL FOR TRICHLOROETHENE (TCE) MEASURED IN MICROGRAMS PER LITER ug/L (APRIL 2014)
- 5 — INFERRED GROUNDWATER CHEMICAL CONCENTRATION CONTOURS IN FILL FOR TRICHLOROETHENE (TCE) MEASURED IN MICROGRAMS PER LITER ug/L (APRIL 2014)
- AREA WHERE FILL IS ABSENT
- APPROXIMATE PROPERTY BOUNDARY
- ELEVATION CONTOUR (2012 USGS TOPOGRAPHIC QUADRANGLE)

0 25 50 100 150
SCALE IN FEET

NOTES:

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5) HISTORICAL DATA WAS UTILIZED TO HELP DEVELOP CONTOUR INTERPOLATIONS.

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PROJECT PROGRESS REPORT
JANUARY 2014 (Q1) THROUGH JUNE 2014 (Q2)
HEWLETT-PACKARD VOLUNTARY REMEDIATION PROJECT
SAN GERMAN, PUERTO RICO

APRIL 2014
TCE CONTOUR PLAN IN FILL/ALLUVIUM

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
HEWLETT-PACKARD COMPANY

PROJ MGR: JAC	REVIEWED BY: CAL	CHECKED BY: CAL	FIGURE
DESIGNED BY: JY	DRAWN BY: EMD/SMW	SCALE: 1 INCH = 50 FT	4A
DATE: 10-14-2014	PROJECT NO. 01.0024065.14	REVISION NO.	

© 2014 - GZA GeoEnvironmental, Inc. J:\23.0000-24.999\24065\24065-14 JAC\Figures\GIS\MXD\24065-14_TCE_FillAlluvium_2014AprilData_FIG4A.mxd, 10/14/2014, 1:33:01 PM, Elaine.donohue

LEGEND

- MONITORING WELL SCREENED IN FILL
- MONITORING WELL SCREENED IN ALLUVIUM
- OW-401 NS — MONITORING WELL SCREENED IN SAPROLITE — CHEMICAL CONCENTRATION IN GROUNDWATER FOR TRICHLOROETHENE (TCE) IN SAPROLITE UNIT IN MICROGRAMS PER LITER ug/L (APRIL 2014)
- BR-308 NS — MONITORING WELL SCREENED IN BEDROCK — CHEMICAL CONCENTRATION IN GROUNDWATER FOR TRICHLOROETHENE (TCE) IN BEDROCK UNIT IN MICROGRAMS PER LITER ug/L (APRIL 2014)
- ABANDONED MONITORING WELL
- ABANDONED BEDROCK EXTRACTION WELL

(DRY) - INDICATES WELL DRY UPON SAMPLING
(NS) - INDICATES NO SAMPLE TAKEN
(ND) - INDICATES VOLATILE ORGANIC COMPOUNDS (VOC's) NOT DETECTED

- 5 — GROUNDWATER CHEMICAL CONCENTRATION CONTOURS IN SAPROLITE & BEDROCK (HIGHEST VALUE CONTOURED) FOR TRICHLOROETHENE (TCE) MEASURED IN MICROGRAMS PER LITER ug/L (APRIL 2014)
- 5 — INFERRED GROUNDWATER CHEMICAL CONCENTRATION CONTOURS IN SAPROLITE & BEDROCK (HIGHEST VALUE CONTOURED) FOR TRICHLOROETHENE (TCE) MEASURED IN MICROGRAMS PER LITER ug/L (APRIL 2014)
- APPROXIMATE PROPERTY BOUNDARY
- ELEVATION CONTOUR (2012 USGS TOPOGRAPHIC QUADRANGLE)

0 25 50 100 150
SCALE IN FEET

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PROJECT PROGRESS REPORT
JANUARY 2014 (Q1) THROUGH JUNE 2014 (Q2)
HEWLETT-PACKARD VOLUNTARY REMEDIATION PROJECT
SAN GERMAN, PUERTO RICO

APRIL 2014
TCE CONTOUR PLAN IN SAPROLITE/BEDROCK

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: HEWLETT-PACKARD COMPANY	
PROJ MGR: JAC	REVIEWED BY: CAL	CHECKED BY: CAL	FIGURE 4B
DESIGNED BY: JY	DRAWN BY: EMD/SMW	SCALE: 1 INCH = 50 FT	
DATE: 10-10-2014	PROJECT NO. 01.0024065.14	REVISION NO.	

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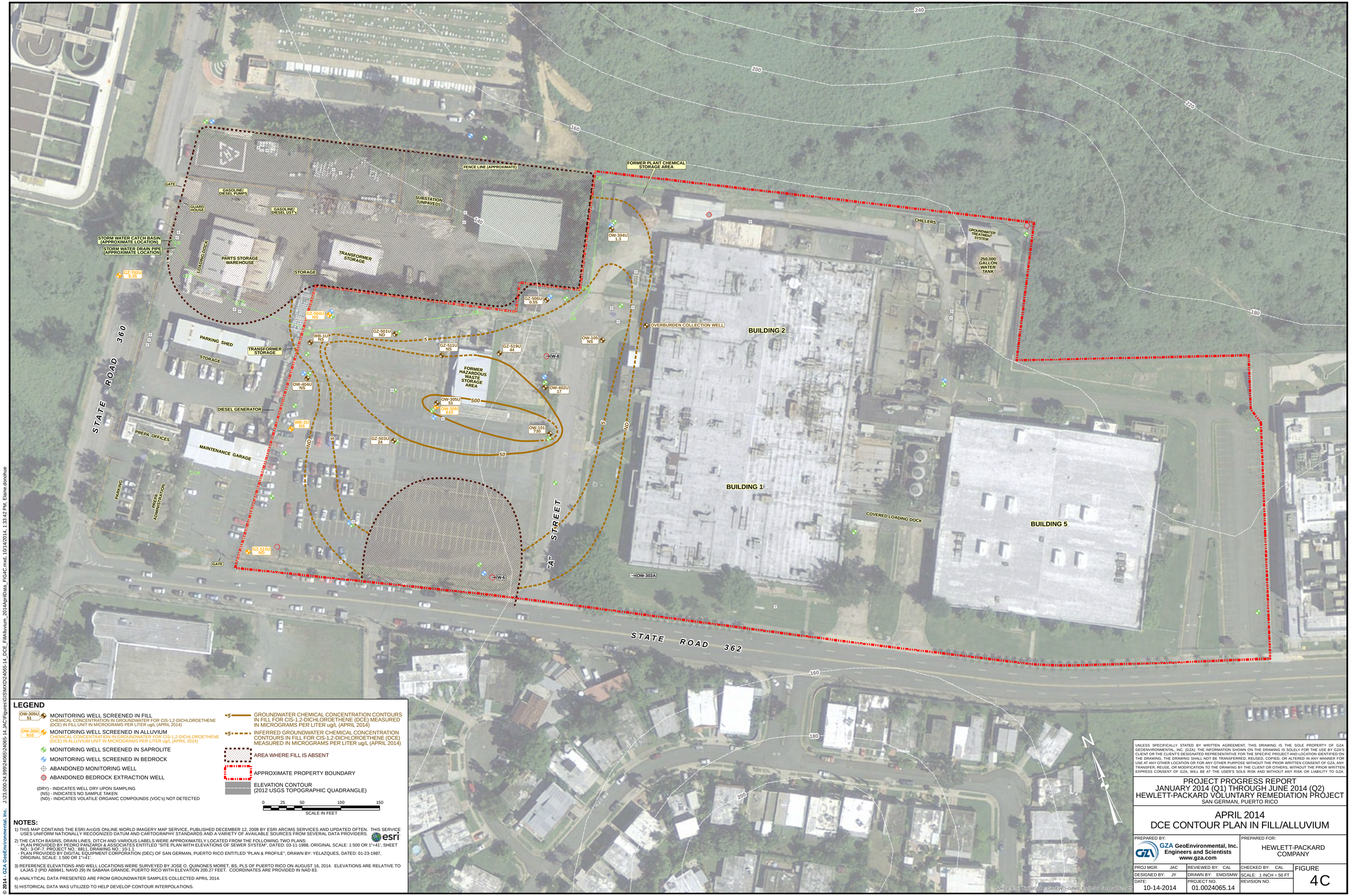

LEGEND

- OW-305U 51 — MONITORING WELL SCREENED IN FILL
  CHEMICAL CONCENTRATION IN GROUNDWATER FOR CIS-1,2-DICHLOROETHENE (DCE) IN FILL UNIT IN MICROGRAMS PER LITER ug/L (APRIL 2014)
- OW-305I 610 — MONITORING WELL SCREENED IN ALLUVIUM
  CHEMICAL CONCENTRATION IN GROUNDWATER FOR CIS-1,2-DICHLOROETHENE (DCE) IN ALLUVIUM UNIT IN MICROGRAMS PER LITER ug/L (APRIL 2014)
- MONITORING WELL SCREENED IN SAPROLITE
- MONITORING WELL SCREENED IN BEDROCK
- ABANDONED MONITORING WELL
- ABANDONED BEDROCK EXTRACTION WELL

(DRY) - INDICATES WELL DRY UPON SAMPLING
(NS) - INDICATES NO SAMPLE TAKEN
(ND) - INDICATES VOLATILE ORGANIC COMPOUNDS (VOC's) NOT DETECTED

- 5 — GROUNDWATER CHEMICAL CONCENTRATION CONTOURS IN FILL FOR CIS-1,2-DICHLOROETHENE (DCE) MEASURED IN MICROGRAMS PER LITER ug/L (APRIL 2014)
- 5 — INFERRED GROUNDWATER CHEMICAL CONCENTRATION CONTOURS IN FILL FOR CIS-1,2-DICHLOROETHENE (DCE) MEASURED IN MICROGRAMS PER LITER ug/L (APRIL 2014)
- AREA WHERE FILL IS ABSENT
- APPROXIMATE PROPERTY BOUNDARY
- ELEVATION CONTOUR (2012 USGS TOPOGRAPHIC QUADRANGLE)

0 25 50 100 150
SCALE IN FEET

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PROJECT PROGRESS REPORT
JANUARY 2014 (Q1) THROUGH JUNE 2014 (Q2)
HEWLETT-PACKARD VOLUNTARY REMEDIATION PROJECT
SAN GERMAN, PUERTO RICO

APRIL 2014
DCE CONTOUR PLAN IN FILL/ALLUVIUM

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
HEWLETT-PACKARD COMPANY

PROJ MGR: JAC	REVIEWED BY: CAL	CHECKED BY: CAL	FIGURE
DESIGNED BY: JY	DRAWN BY: EMD/SMW	SCALE: 1 INCH = 50 FT	4C
DATE: 10-14-2014	PROJECT NO. 01.0024065.14	REVISION NO.	

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LEGEND

- MONITORING WELL SCREENED IN FILL
- MONITORING WELL SCREENED IN ALLUVIUM
- OW-401 NS — MONITORING WELL SCREENED IN SAPROLITE
  CHEMICAL CONCENTRATION IN GROUNDWATER FOR CIS-1,2-DICHLOROETHENE (DCE) IN SAPROLITE UNIT IN MICROGRAMS PER LITER ug/L (APRIL 2014)
- BR-308 NS — MONITORING WELL SCREENED IN BEDROCK
  CHEMICAL CONCENTRATION IN GROUNDWATER FOR CIS-1,2-DICHLOROETHENE (DCE) IN BEDROCK UNIT IN MICROGRAMS PER LITER ug/L (APRIL 2014)
- ABANDONED MONITORING WELL
- ABANDONED BEDROCK EXTRACTION WELL

(DRY) - INDICATES WELL DRY UPON SAMPLING
(NS) - INDICATES NO SAMPLE TAKEN
(ND) - INDICATES VOLATILE ORGANIC COMPOUNDS (VOC's) NOT DETECTED

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- 5 — INFERRED GROUNDWATER CHEMICAL CONCENTRATION CONTOURS IN SAPROLITE & BEDROCK (HIGHEST VALUE CONTOURED) FOR CIS-1,2-DICHLOROETHENE (DCE) MEASURED IN MICROGRAMS PER LITER ug/L (APRIL 2014)
- APPROXIMATE PROPERTY BOUNDARY
- ELEVATION CONTOUR (2012 USGS TOPOGRAPHIC QUADRANGLE)

0 25 50 100 150
SCALE IN FEET

NOTES:

1) THIS MAP CONTAINS THE ESRI ArcGIS ONLINE WORLD IMAGERY MAP SERVICE, PUBLISHED DECEMBER 12, 2009 BY ESRI ARCIMS SERVICES AND UPDATED OFTEN. THIS SERVICE USES UNIFORM NATIONALLY RECOGNIZED DATUM AND CARTOGRAPHY STANDARDS AND A VARIETY OF AVAILABLE SOURCES FROM SEVERAL DATA PROVIDERS.

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- PLAN PROVIDED BY DIGITAL EQUIPMENT CORPORATION (DEC) OF SAN GERMAN, PUERTO RICO ENTITLED "PLAN & PROFILE", DRAWN BY: YELAZQUES, DATED: 01-23-1987, ORIGINAL SCALE: 1:500 OR 1"=41'.

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4) ANALYTICAL DATA PRESENTED ARE FROM GROUNDWATER SAMPLES COLLECTED APRIL 2014.

5) HISTORICAL DATA WAS UTILIZED TO HELP DEVELOP CONTOUR INTERPOLATIONS.

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR THE USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA, ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

PROJECT PROGRESS REPORT
JANUARY 2014 (Q1) THROUGH JUNE 2014 (Q2)
HEWLETT-PACKARD VOLUNTARY REMEDIATION PROJECT
SAN GERMAN, PUERTO RICO

APRIL 2014
DCE CONTOUR PLAN IN SAPROLITE/BEDROCK

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com			PREPARED FOR: HEWLETT-PACKARD COMPANY
PROJ MGR: JAC	REVIEWED BY: CAL	CHECKED BY: CAL	FIGURE 4D
DESIGNED BY: JY	DRAWN BY: EMD/SMW	SCALE: 1 INCH = 50 FT	
DATE: 10-10-2014	PROJECT NO. 01.0024065.14	REVISION NO.	

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LEGEND

- OW-305U 0.93 — MONITORING WELL SCREENED IN FILL
  CHEMICAL CONCENTRATION IN GROUNDWATER FOR VINYL CHLORIDE (VC) IN FILL UNIT IN MICROGRAMS PER LITER ug/L (APRIL 2014)
- OW-305I 81 — MONITORING WELL SCREENED IN ALLUVIUM
  CHEMICAL CONCENTRATION IN GROUNDWATER FOR VINYL CHLORIDE (VC) IN ALLUVIUM UNIT IN MICROGRAMS PER LITER ug/L (APRIL 2014)
- MONITORING WELL SCREENED IN SAPROLITE
- MONITORING WELL SCREENED IN BEDROCK
- ABANDONED MONITORING WELL
- ABANDONED BEDROCK EXTRACTION WELL

(DRY) - INDICATES WELL DRY UPON SAMPLING
(NS) - INDICATES NO SAMPLE TAKEN
(ND) - INDICATES VOLATILE ORGANIC COMPOUNDS (VOC's) NOT DETECTED

- 5 — GROUNDWATER CHEMICAL CONCENTRATION CONTOURS IN FILL FOR VINYL CHLORIDE (VC) MEASURED IN MICROGRAMS PER LITER ug/L (APRIL 2014)
- 5 — INFERRED GROUNDWATER CHEMICAL CONCENTRATION CONTOURS IN FILL FOR VINYL CHLORIDE (VC) MEASURED IN MICROGRAMS PER LITER ug/L (APRIL 2014)
- AREA WHERE FILL IS ABSENT
- APPROXIMATE PROPERTY BOUNDARY
- ELEVATION CONTOUR (2012 USGS TOPOGRAPHIC QUADRANGLE)

0 25 50 100 150
SCALE IN FEET

NOTES:

1) THIS MAP CONTAINS THE ESRI ArcGIS ONLINE WORLD IMAGERY MAP SERVICE, PUBLISHED DECEMBER 12, 2009 BY ESRI ARCIMS SERVICES AND UPDATED OFTEN. THIS SERVICE USES UNIFORM NATIONALLY RECOGNIZED DATUM AND CARTOGRAPHY STANDARDS AND A VARIETY OF AVAILABLE SOURCES FROM SEVERAL DATA PROVIDERS.

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4) ANALYTICAL DATA PRESENTED ARE FROM GROUNDWATER SAMPLES COLLECTED APRIL 2014.

5) HISTORICAL DATA WAS UTILIZED TO HELP DEVELOP CONTOUR INTERPOLATIONS.

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PROJECT PROGRESS REPORT
JANUARY 2014 (Q1) THROUGH JUNE 2014 (Q2)
HEWLETT-PACKARD VOLUNTARY REMEDIATION PROJECT
SAN GERMAN, PUERTO RICO

APRIL 2014
VC CONTOUR PLAN IN FILL/ALLUVIUM

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
HEWLETT-PACKARD COMPANY

PROJ MGR: JAC	REVIEWED BY: CAL	CHECKED BY: CAL	FIGURE
DESIGNED BY: JY	DRAWN BY: EMD/SMW	SCALE: 1 INCH = 50 FT	4E
DATE: 10-14-2014	PROJECT NO. 01.0024065.14	REVISION NO.	

© 2014 - GZA GeoEnvironmental, Inc. J:\23,000-24,999\24065\24065-14.JAC\Figures\GIS\MXD\24065-14_VC_Fill\Alluvium_2014\April\Data_FIG4E.mxd, 10/14/2014, 1:40:23 PM, Elaine.donohue

LEGEND

- MONITORING WELL SCREENED IN FILL
- MONITORING WELL SCREENED IN ALLUVIUM
- OW-401 NS — MONITORING WELL SCREENED IN SAPROLITE
  CHEMICAL CONCENTRATION IN GROUNDWATER FOR VINYL CHLORIDE (VC) IN SAPROLITE UNIT IN MICROGRAMS PER LITER ug/L (APRIL 2014)
- BR-308 NS — MONITORING WELL SCREENED IN BEDROCK
  CHEMICAL CONCENTRATION IN GROUNDWATER FOR VINYL CHLORIDE (VC) IN BEDROCK UNIT IN MICROGRAMS PER LITER ug/L (APRIL 2014)
- ABANDONED MONITORING WELL
- ABANDONED BEDROCK EXTRACTION WELL

(DRY) - INDICATES WELL DRY UPON SAMPLING
(NS) - INDICATES NO SAMPLE TAKEN
(ND) - INDICATES VOLATILE ORGANIC COMPOUNDS (VOC's) NOT DETECTED

- 5 — GROUNDWATER CHEMICAL CONCENTRATION CONTOURS IN SAPROLITE & BEDROCK (HIGHEST VALUE CONTOURED) FOR VINYL CHLORIDE (VC) MEASURED IN MICROGRAMS PER LITER ug/L (APRIL 2014)
- 5 — INFERRED GROUNDWATER CHEMICAL CONCENTRATION CONTOURS IN SAPROLITE & BEDROCK (HIGHEST VALUE CONTOURED) FOR VINYL CHLORIDE (VC) MEASURED IN MICROGRAMS PER LITER ug/L (APRIL 2014)
- APPROXIMATE PROPERTY BOUNDARY
- ELEVATION CONTOUR (2012 USGS TOPOGRAPHIC QUADRANGLE)

0 25 50 100 150
SCALE IN FEET

NOTES:

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PROJECT PROGRESS REPORT
JANUARY 2014 (Q1) THROUGH JUNE 2014 (Q2)
HEWLETT-PACKARD VOLUNTARY REMEDIATION PROJECT
SAN GERMAN, PUERTO RICO

APRIL 2014
VC CONTOUR PLAN IN SAPROLITE/BEDROCK

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
HEWLETT-PACKARD COMPANY

PROJ MGR: JAC	REVIEWED BY: CAL	CHECKED BY: CAL	FIGURE
DESIGNED BY: JY	DRAWN BY: EMD/SMW	SCALE: 1 INCH = 50 FT	4F
DATE: 10-10-2014	PROJECT NO. 01.0024065.14	REVISION NO.	

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APPENDIX A

LIMITATIONS

LIMITATIONS

1. The reported findings submitted in this report are based in part upon previous and recent data obtained from a limited number of samples from widely spaced subsurface explorations and monitoring wells. The nature and extent of variations between these explorations may not become evident until further investigation is performed. If variations or other latent conditions then appear evident, it will be necessary to re-evaluate the conclusions of this Report.

2. Water level readings have been made in the observation wells periodically and under conditions stated in the text. These data have been reviewed and interpretations have been made in the text of this Report. However, it must be noted that fluctuations in the level of the groundwater may occur due to variations in rainfall and other factors different from those prevailing at the time measurements were made.

3. Quantitative laboratory testing was performed as part of the site investigation and remediation work. Where such analyses have been conducted by an outside laboratory, GZA GeoEnvironmental, Inc. (GZA) has relied upon the data provided, and has not conducted an independent evaluation of the reliability of these data.

4. The findings contained in this Report are based in part upon various types of chemical data and are contingent upon their validity. These data have been reviewed and interpretations made in the Report. Some of these data were preliminary "screening" level data, and may have not been confirmed with quantitative analyses. Moreover, it should be noted that variations in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time, and other factors. Should additional chemical data become available in the future, these data should be reviewed by GZA, and the findings presented herein modified accordingly.

5. Chemical analyses have been performed for specific parameters during the course of this study, as detailed in the text. It must be noted that additional constituents not searched for during the current study may be present in soil and groundwater at the site.

APPENDIX B

VOC CONCENTRATION TREND ANALYSIS

Index of VOC Concentration Trend Analysis Charts
Hewlett-Packard Voluntary Remediation Project
San German, Puerto Rico

File No. 01.0024065.14

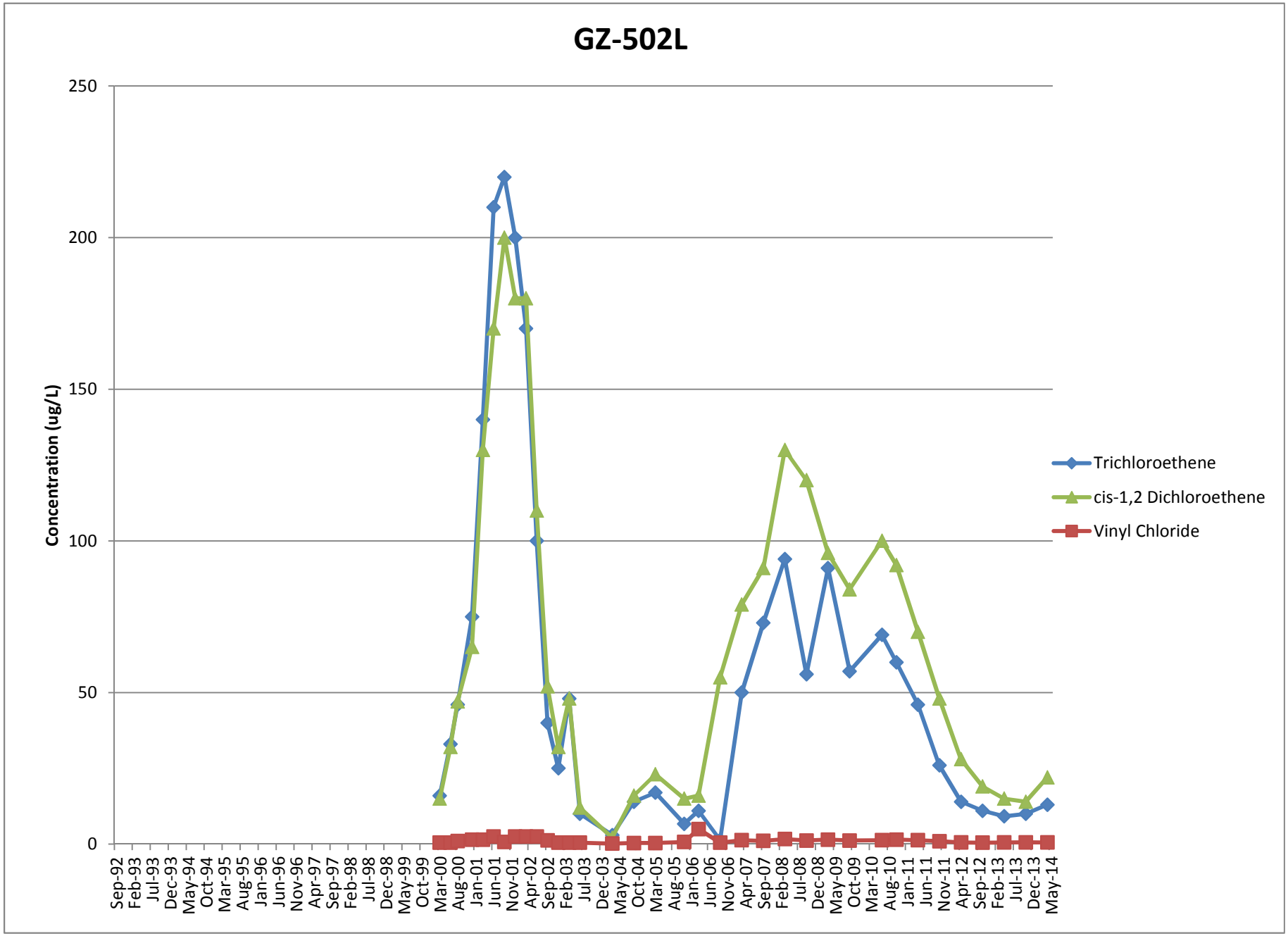
GZ-502L: Screened in the Saprolite Unit	Page 1
GZ-503L: Screened in the Saprolite Unit	Page 2
GZ-504R: Screened in the Bedrock Unit	Page 3
GZ-505L: Screened in the Saprolite Unit	Page 4
GZ-505R: Screened in the Bedrock Unit	Page 5
GZ-506R: Screened in the Bedrock Unit	Page 6
GZ-515U: Screened in the Alluvium Unit	Page 7
OW-101: Screened in the Fill Unit	Page 8
OW-301: Screened in the Saprolite Unit	Page 9
OW-304L: Screened in the Saprolite Unit	Page 10
OW-304R: Screened in the Bedrock Unit	Page 11
OW-305I: Screened in the Alluvium Unit	Page 12
OW-307: Screened in the Saprolite Unit	Page 13
OW-401: Screened in the Saprolite Unit	Page 14
OW-402U: Screened in the Fill Unit	Page 15
OW-402L: Screened in the Saprolite Unit	Page 16
OW-402R: Screened in the Bedrock Unit	Page 17
OW-403L: Screened in the Saprolite Unit	Page 18
OW-404U: Screened in the Fill Unit	Page 19
OW-404L: Screened in the Saprolite Unit	Page 20
OW-404R: Screened in the Bedrock Unit	Page 21
WB-1U: Screened in the Fill Unit	Page 22
WB-1L: Screened in the Saprolite Unit	Page 23
WB-2L: Screened in the Saprolite Unit	Page 24
WB-3L: Screened in the Saprolite Unit	Page 25
WB-4L: Screened in the Saprolite Unit	Page 26

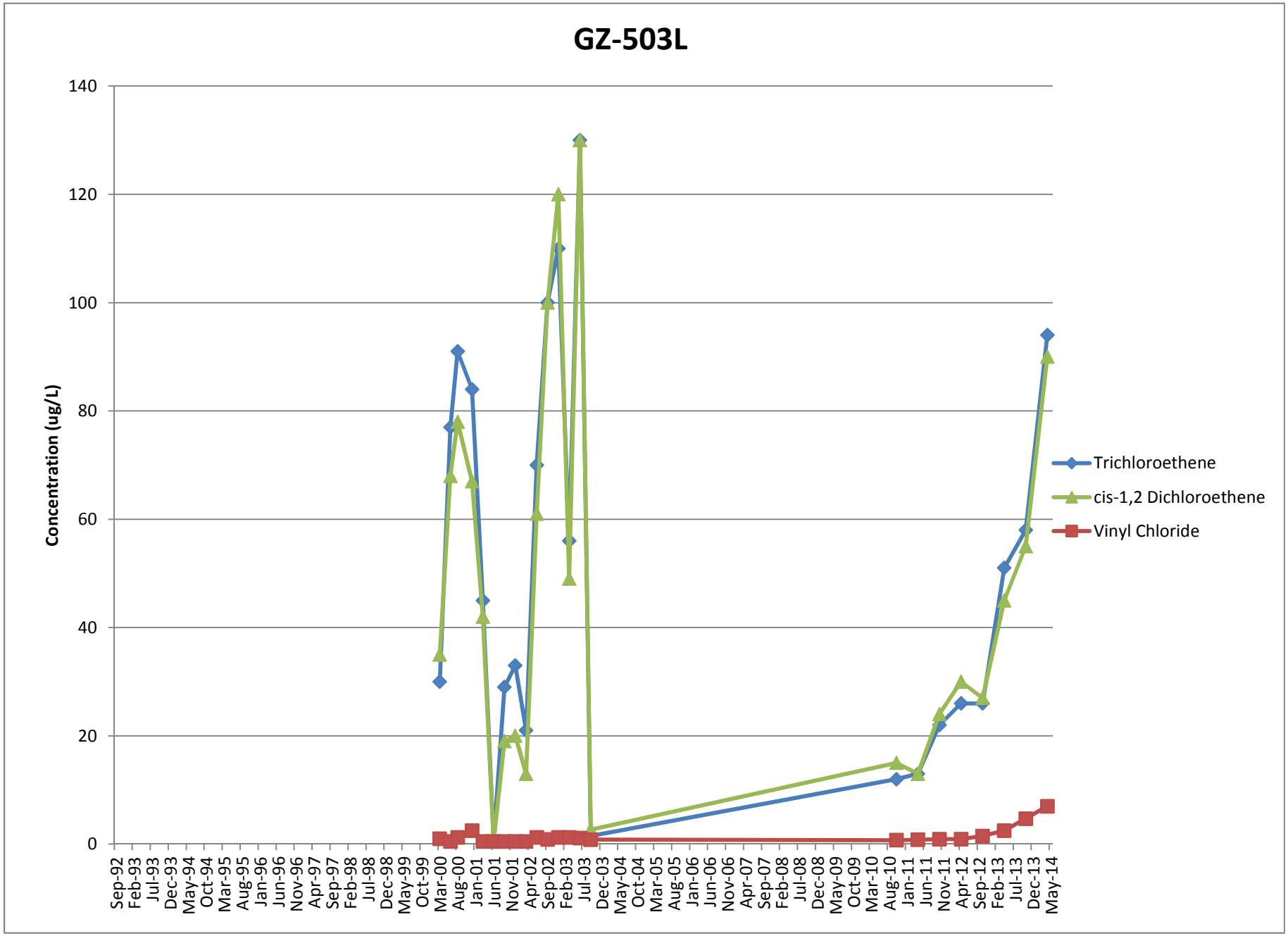
Index of VOC Concentration Trend Analysis Charts
Hewlett-Packard Voluntary Remediation Project
San German, Puerto Rico

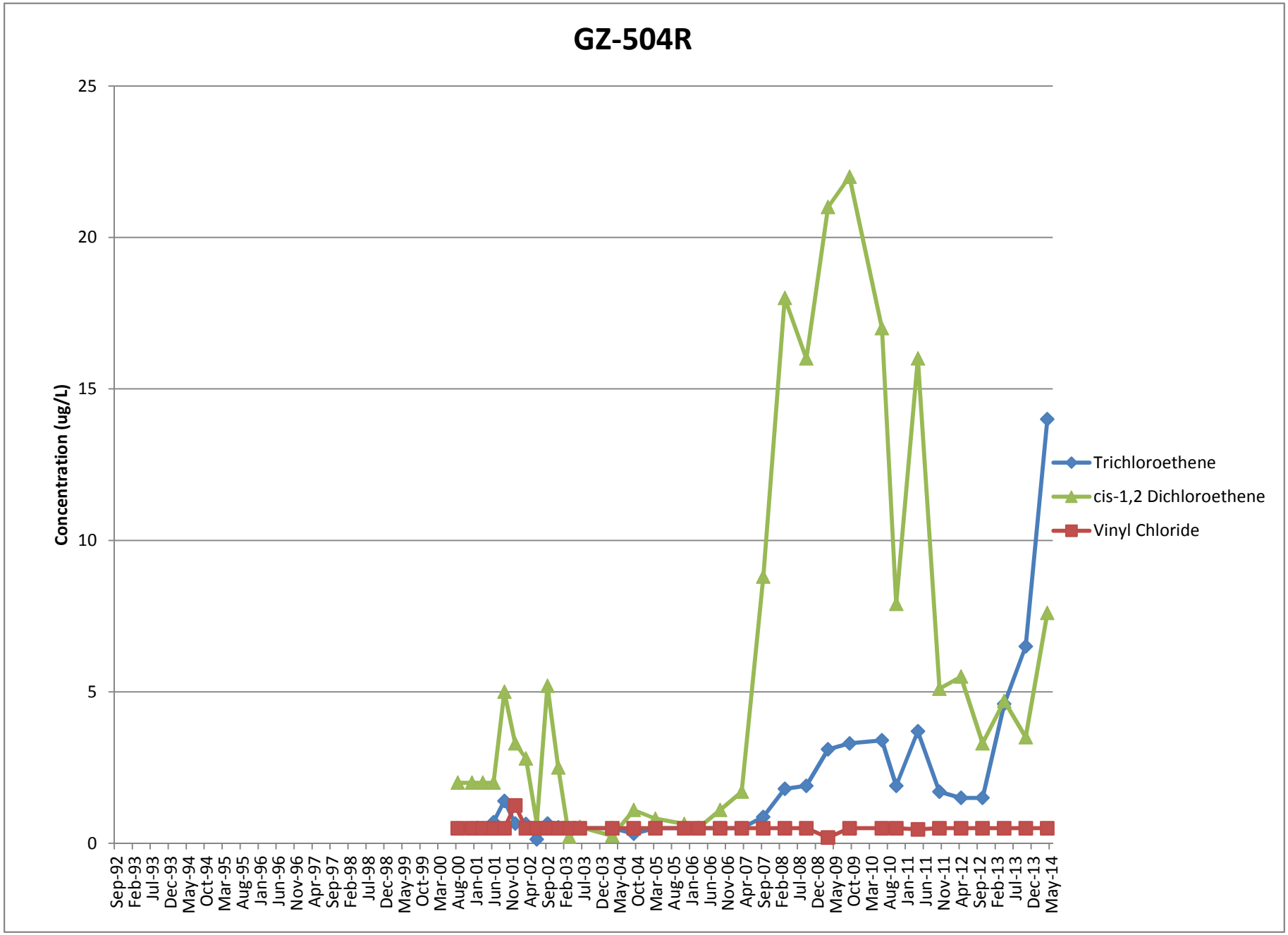
File No. 01.0024065.14

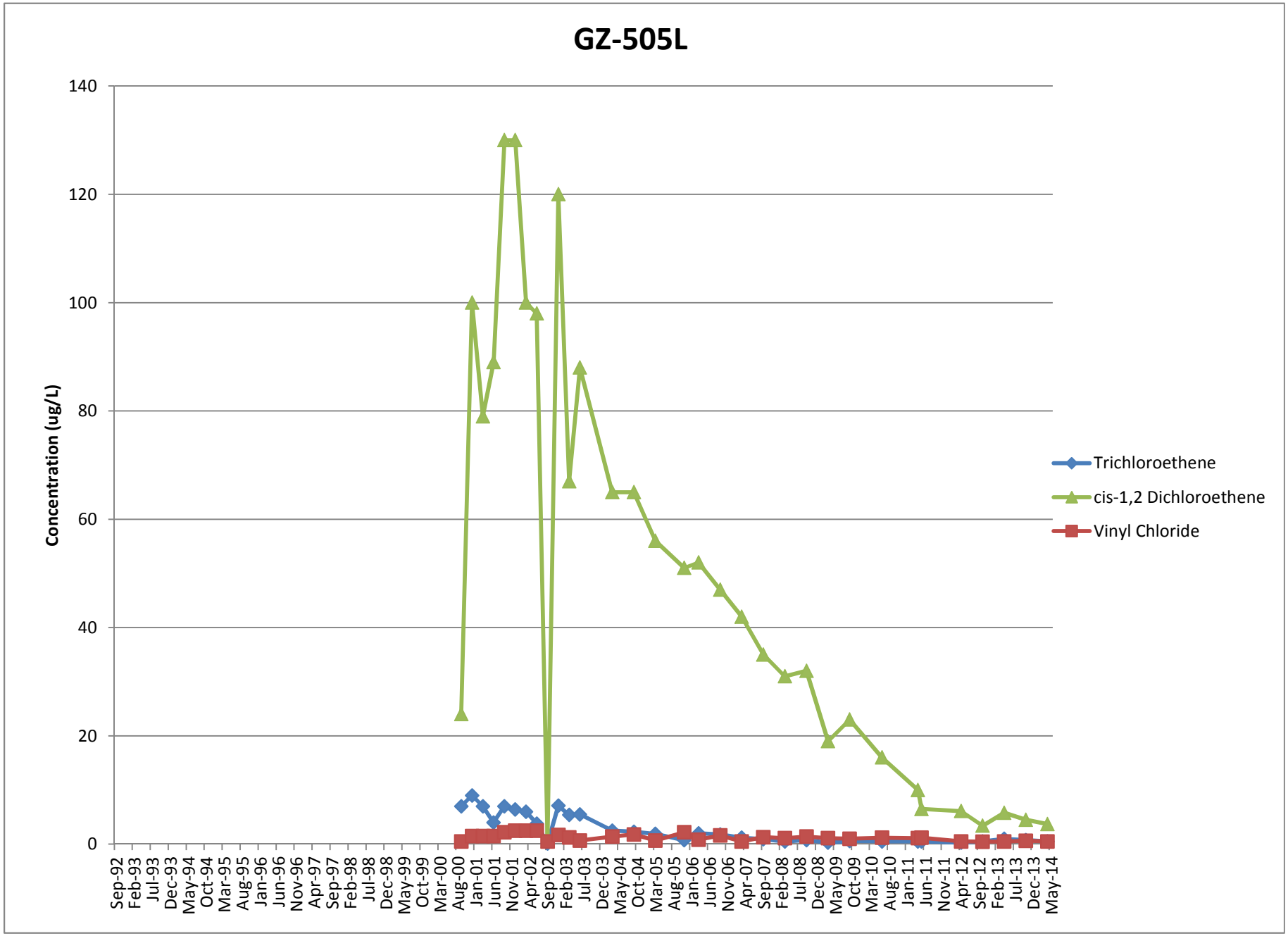
Notes:

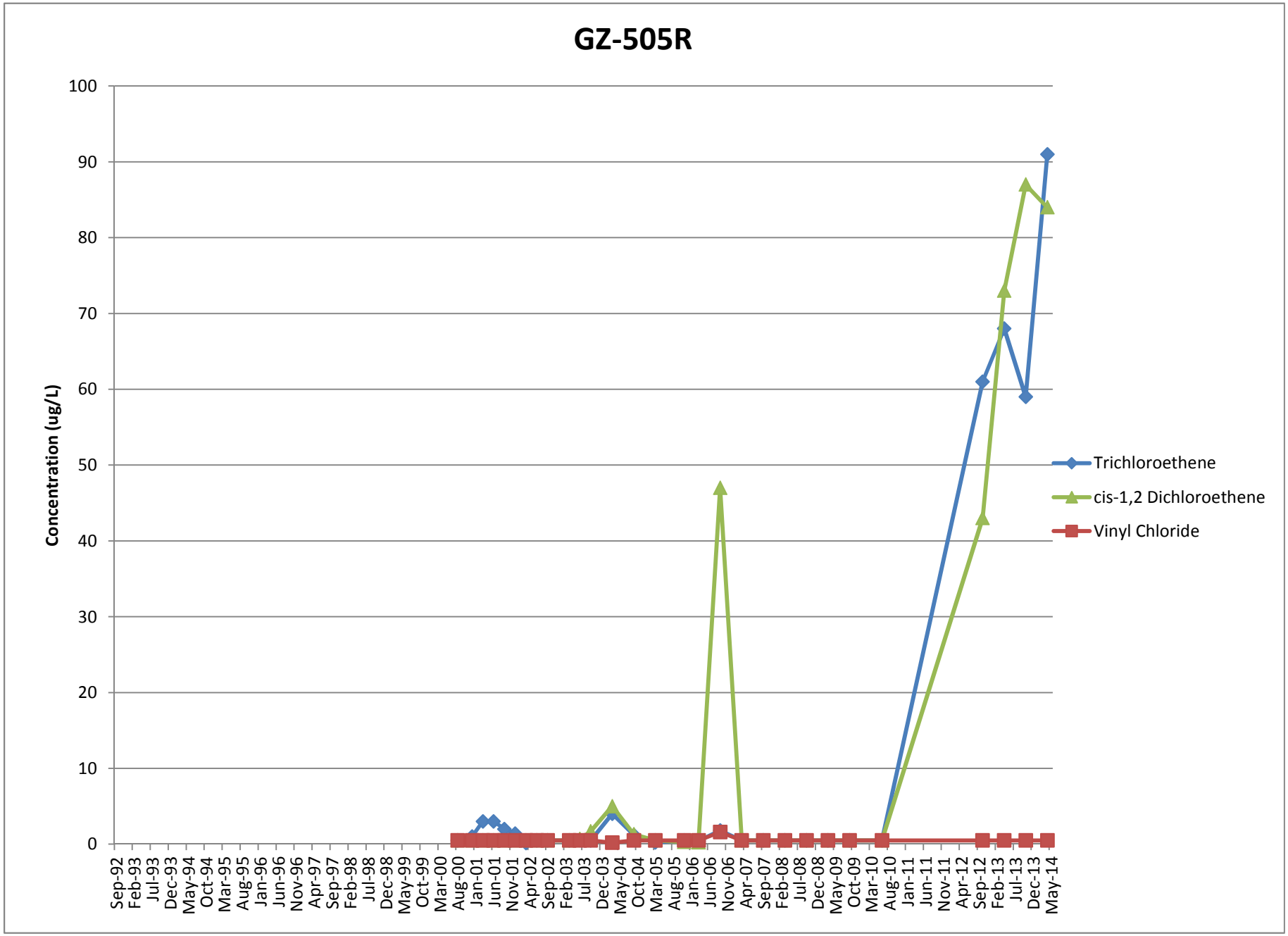
1. In instances where a constituent was not detected, half of the reporting limit was used as the concentration.
2. Data that were reported with qualifiers were treated as if they were not reported with qualifiers in this analysis. In general, this led to a more conservative analysis.
3. VOC = Volatile Organic Compounds.
4. For several wells (GZ-504R, WB-1L, OW-404L, OW-402U, OW-402R, WB-2L, WB-4L, GZ-515U, GZ-506R, and OW-301) the vinyl chloride analysis was based exclusively on non-detect and qualified results. For two wells (GZ-515U and OW-301) this is true for the trichloroethene and the cis-1,2-dichloroethene analyses as well. For some wells (OW-101, OW-304L, OW-403L, and OW-304R), many of the reporting limits were very high. For OW-101, any of the values for vinyl chloride that are greater than 15 ug/L are based on non-detects. For OW-304L, any of the values for vinyl chloride that are greater than 800 ug/L are based on non-detects. For OW-403L, any of the values for vinyl chloride that are greater than 100 ug/L are based on non-detects. For OW-304R, any of the values for vinyl chloride that are greater than 100 ug/L are based on non-detects.

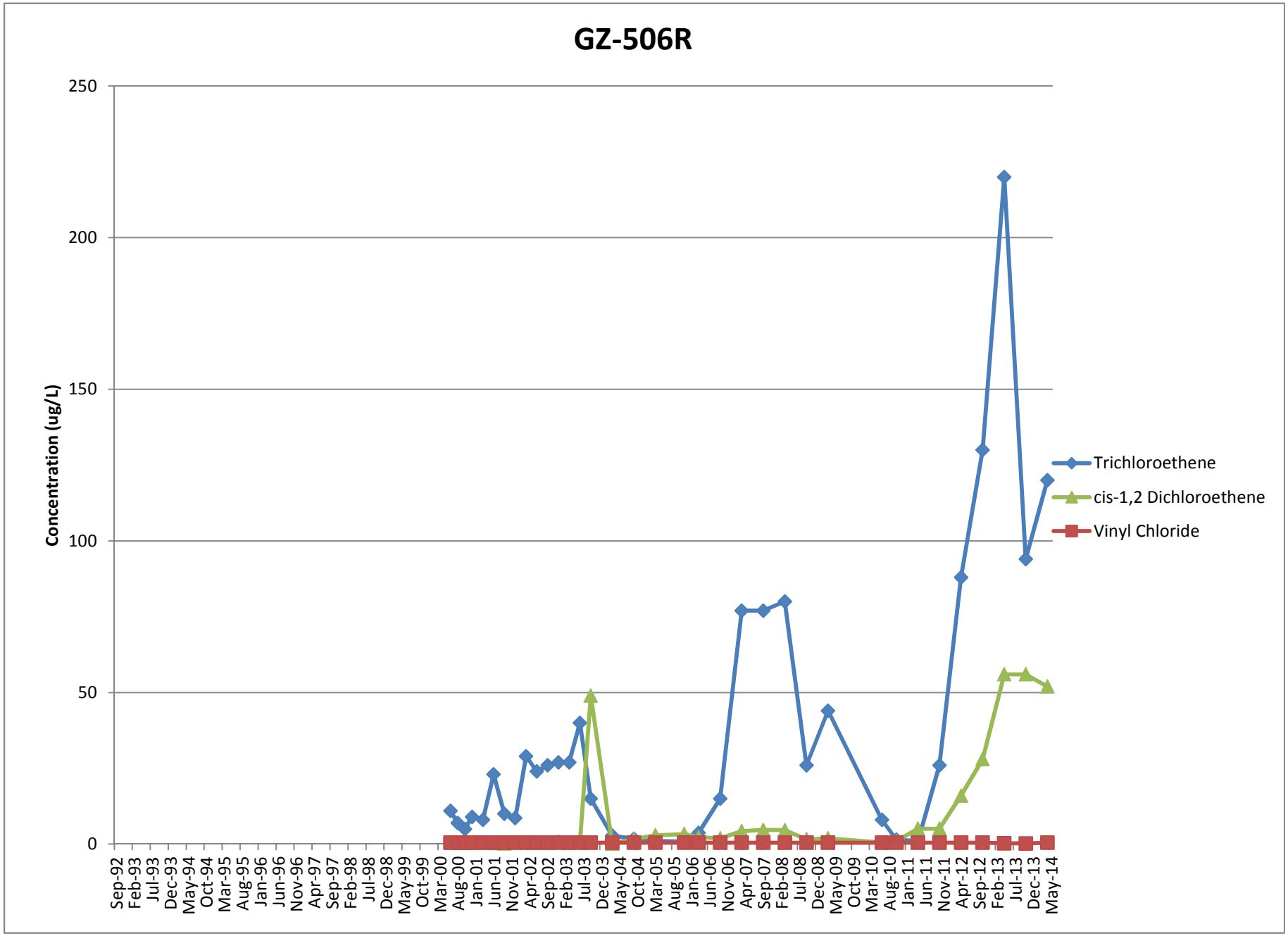

GZ-502L
Concentration (ug/L)
250
200
150
100
50
0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
Feb-98
Jul-98
Dec-98
May-99
Oct-99
Mar-00
Aug-00
Jan-01
Jun-01
Nov-01
Apr-02
Sep-02
Feb-03
Jul-03
Dec-03
May-04
Oct-04
Mar-05
Aug-05
Jan-06
Jun-06
Nov-06
Apr-07
Sep-07
Feb-08
Jul-08
Dec-08
May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
Nov-11
Apr-12
Sep-12
Feb-13
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


GZ-503L
Concentration (ug/L)
140
120
100
80
60
40
20
0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
Feb-98
Jul-98
Dec-98
May-99
Oct-99
Mar-00
Aug-00
Jan-01
Jun-01
Nov-01
Apr-02
Sep-02
Feb-03
Jul-03
Dec-03
May-04
Oct-04
Mar-05
Aug-05
Jan-06
Jun-06
Nov-06
Apr-07
Sep-07
Feb-08
Jul-08
Dec-08
May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
Nov-11
Apr-12
Sep-12
Feb-13
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


GZ-504R
Concentration (ug/L)
25
20
15
10
5
0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
Feb-98
Jul-98
Dec-98
May-99
Oct-99
Mar-00
Aug-00
Jan-01
Jun-01
Nov-01
Apr-02
Sep-02
Feb-03
Jul-03
Dec-03
May-04
Oct-04
Mar-05
Aug-05
Jan-06
Jun-06
Nov-06
Apr-07
Sep-07
Feb-08
Jul-08
Dec-08
May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
Nov-11
Apr-12
Sep-12
Feb-13
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


GZ-505L
Concentration (ug/L)
140
120
100
80
60
40
20
0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
Feb-98
Jul-98
Dec-98
May-99
Oct-99
Mar-00
Aug-00
Jan-01
Jun-01
Nov-01
Apr-02
Sep-02
Feb-03
Jul-03
Dec-03
May-04
Oct-04
Mar-05
Aug-05
Jan-06
Jun-06
Nov-06
Apr-07
Sep-07
Feb-08
Jul-08
Dec-08
May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
Nov-11
Apr-12
Sep-12
Feb-13
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


GZ-505R
Concentration (ug/L)
100
90
80
70
60
50
40
30
20
10
0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
Feb-98
Jul-98
Dec-98
May-99
Oct-99
Mar-00
Aug-00
Jan-01
Jun-01
Nov-01
Apr-02
Sep-02
Feb-03
Jul-03
Dec-03
May-04
Oct-04
Mar-05
Aug-05
Jan-06
Jun-06
Nov-06
Apr-07
Sep-07
Feb-08
Jul-08
Dec-08
May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
Nov-11
Apr-12
Sep-12
Feb-13
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


GZ-506R
Concentration (ug/L)
250
200
150
100
50
0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
Feb-98
Jul-98
Dec-98
May-99
Oct-99
Mar-00
Aug-00
Jan-01
Jun-01
Nov-01
Apr-02
Sep-02
Feb-03
Jul-03
Dec-03
May-04
Oct-04
Mar-05
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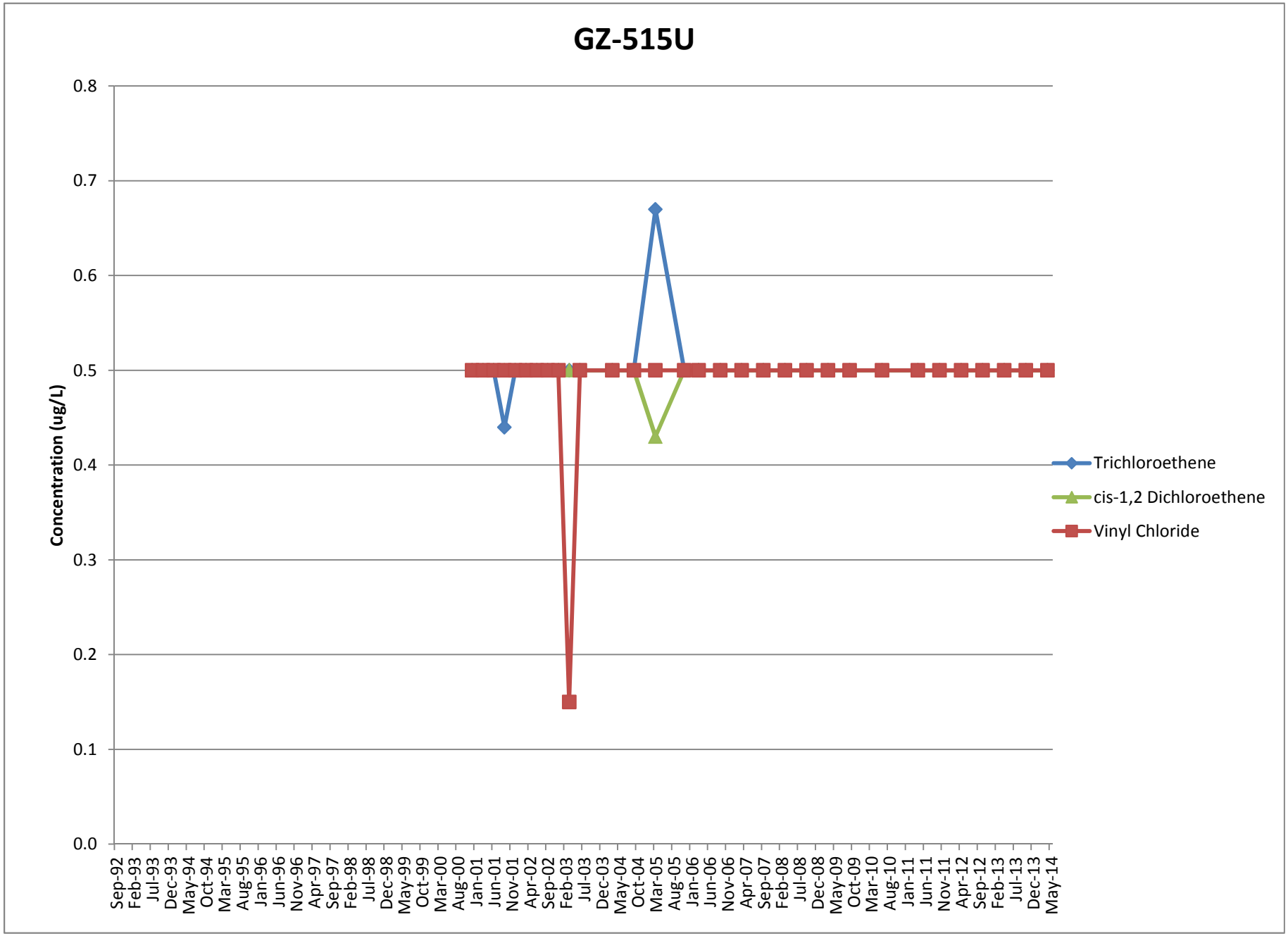
Aug-10
Jan-11
Jun-11
Nov-11
Apr-12
Sep-12
Feb-13
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


GZ-515U
Concentration (ug/L)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
Feb-98
Jul-98
Dec-98
May-99
Oct-99
Mar-00
Aug-00
Jan-01
Jun-01
Nov-01
Apr-02
Sep-02
Feb-03
Jul-03
Dec-03
May-04
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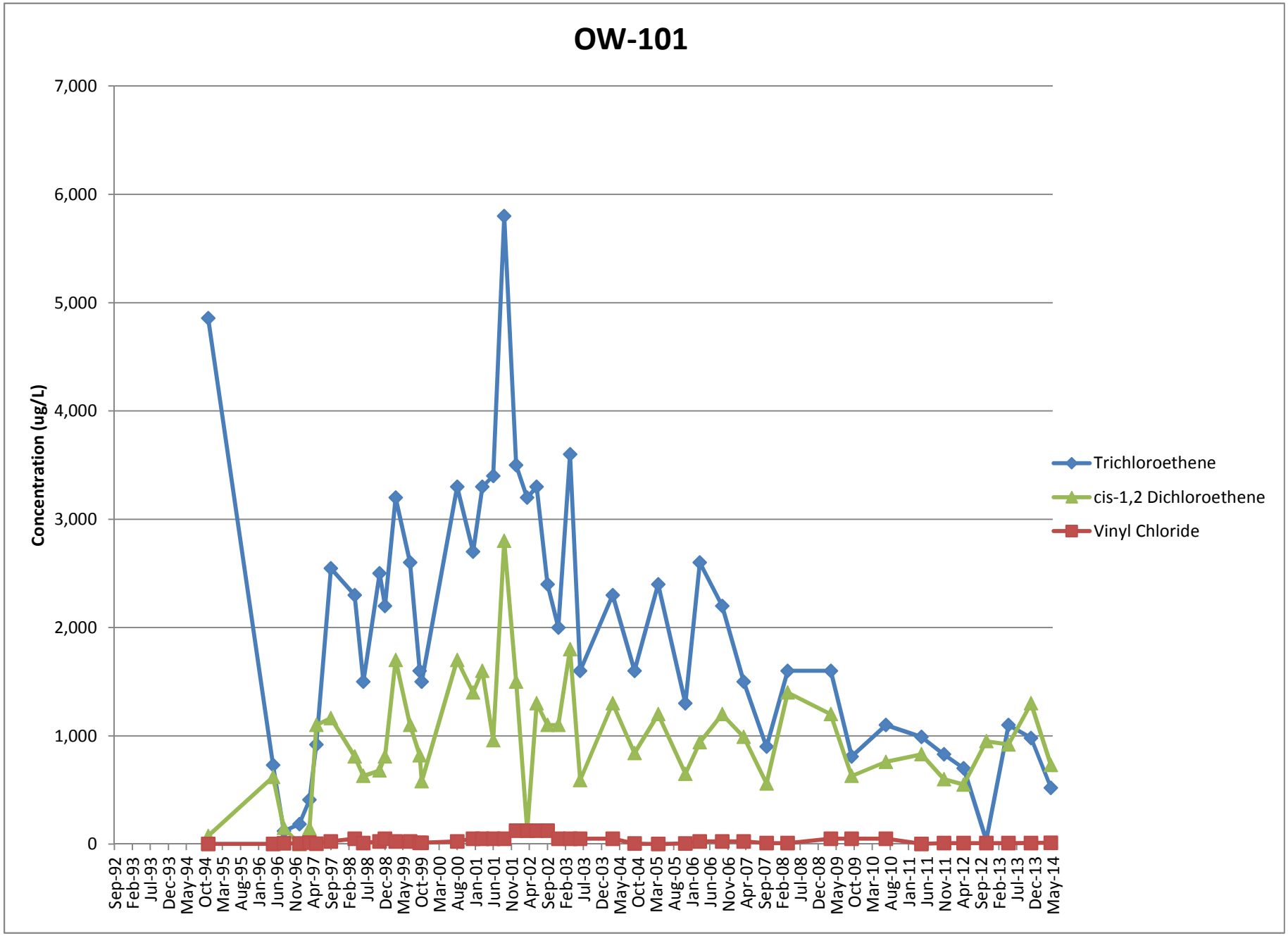
Mar-05
Aug-05
Jan-06
Jun-06
Nov-06
Apr-07
Sep-07
Feb-08
Jul-08
Dec-08
May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
Nov-11
Apr-12
Sep-12
Feb-13
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


OW-101
Concentration (ug/L)
7,000
6,000
5,000
4,000
3,000
2,000
1,000
0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
Feb-98
Jul-98
Dec-98
May-99
Oct-99
Mar-00
Aug-00
Jan-01
Jun-01
Nov-01
Apr-02
Sep-02
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Jul-03
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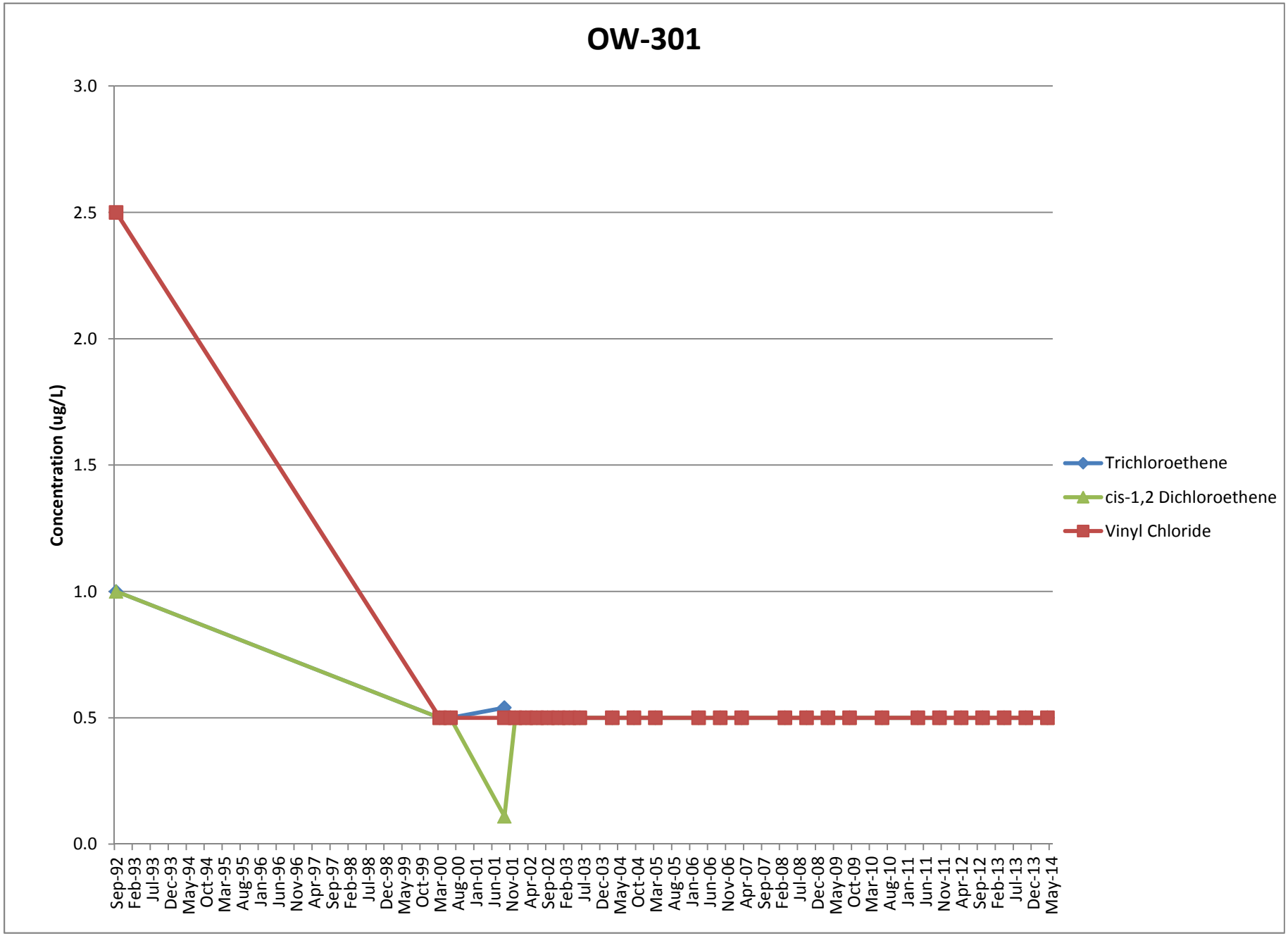
Mar-05
Aug-05
Jan-06
Jun-06
Nov-06
Apr-07
Sep-07
Feb-08
Jul-08
Dec-08
May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
Nov-11
Apr-12
Sep-12
Feb-13
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


OW-301
Concentration (ug/L)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
Feb-98
Jul-98
Dec-98
May-99
Oct-99
Mar-00
Aug-00
Jan-01
Jun-01
Nov-01
Apr-02
Sep-02
Feb-03
Jul-03
Dec-03
May-04
Oct-04
Mar-05
Aug-05
Jan-06
Jun-06
Nov-06
Apr-07
Sep-07
Feb-08
Jul-08
Dec-08
May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
Nov-11
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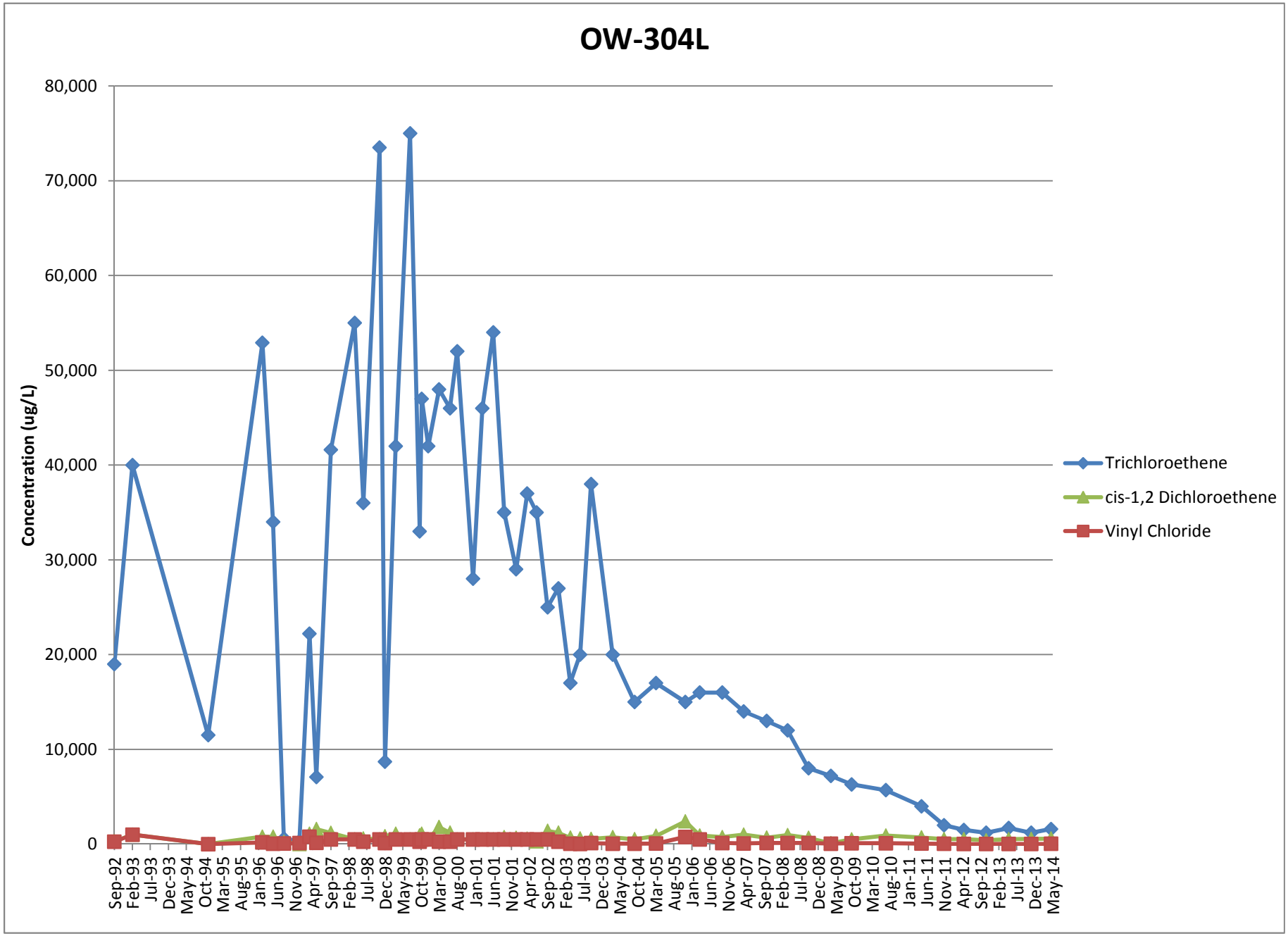
Sep-12
Feb-13
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


OW-304L
Concentration (ug/L)
80,000
70,000
60,000
50,000
40,000
30,000
20,000
10,000
0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
Feb-98
Jul-98
Dec-98
May-99
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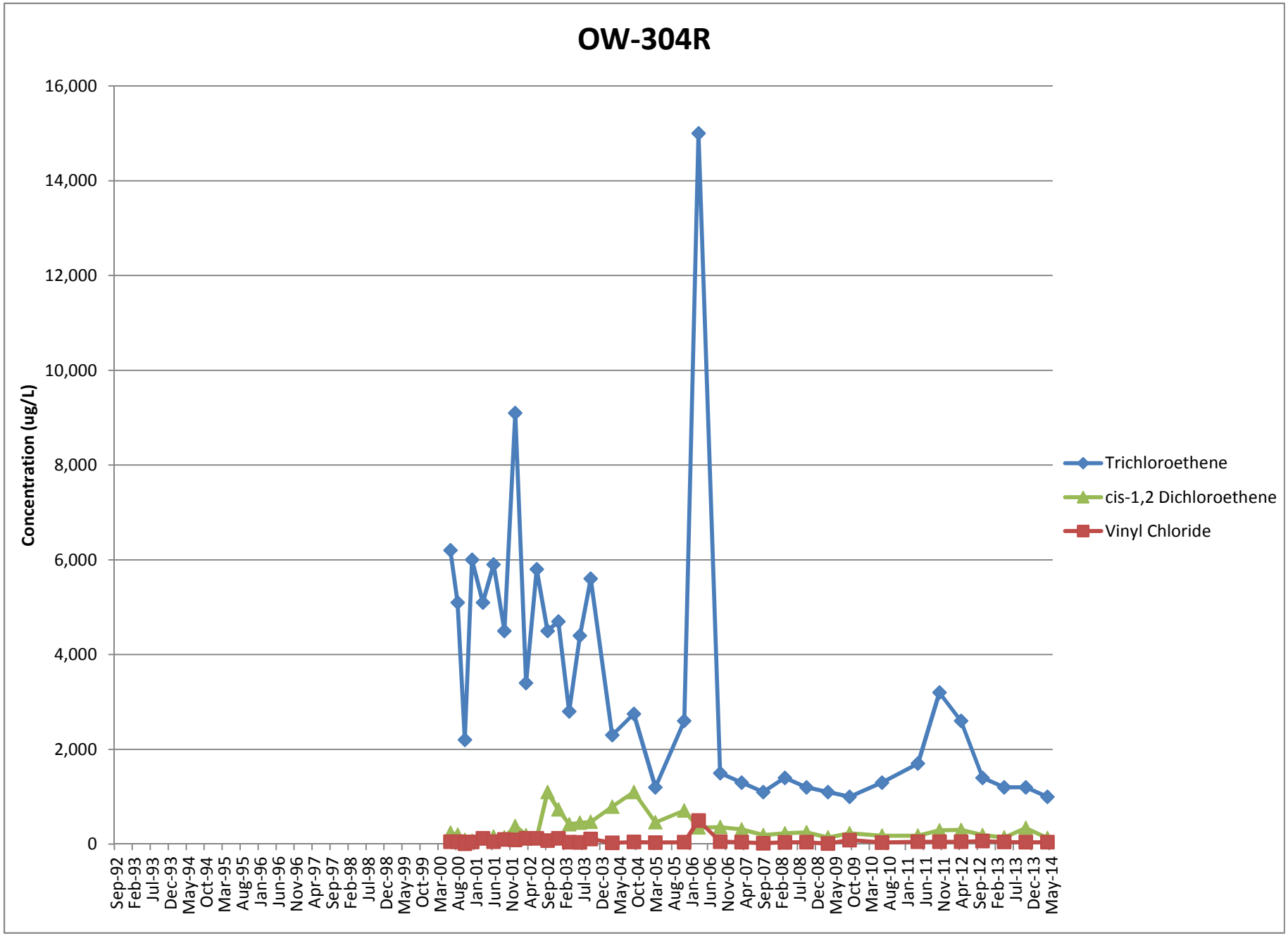
Mar-00
Aug-00
Jan-01
Jun-01
Nov-01
Apr-02
Sep-02
Feb-03
Jul-03
Dec-03
May-04
Oct-04
Mar-05
Aug-05
Jan-06
Jun-06
Nov-06
Apr-07
Sep-07
Feb-08
Jul-08
Dec-08
May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
Nov-11
Apr-12
Sep-12
Feb-13
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


OW-304R
Concentration (ug/L)
16,000
14,000
12,000
10,000
8,000
6,000
4,000
2,000
0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
Feb-98
Jul-98
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Mar-00
Aug-00
Jan-01
Jun-01
Nov-01
Apr-02
Sep-02
Feb-03
Jul-03
Dec-03
May-04
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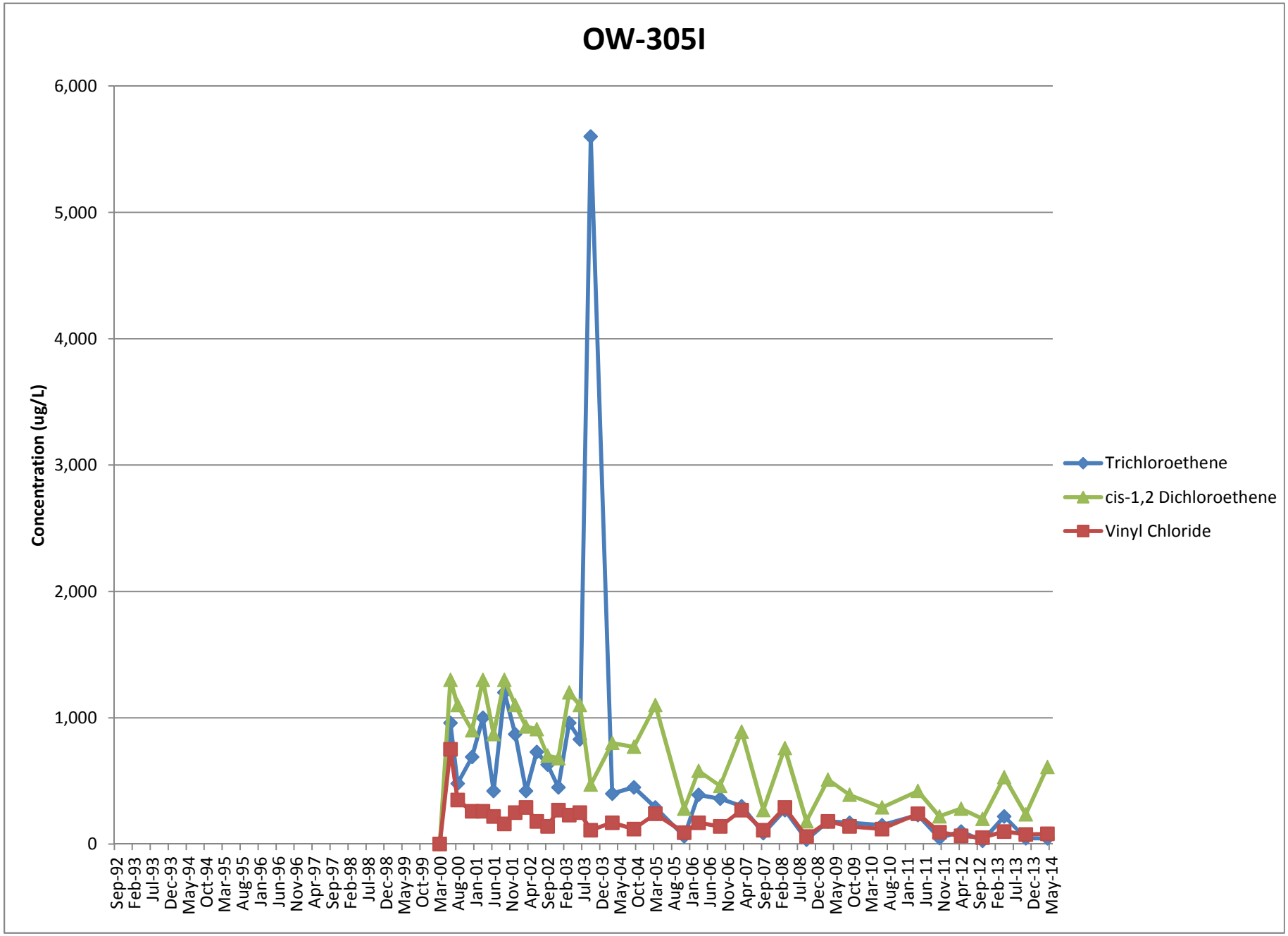
Mar-05
Aug-05
Jan-06
Jun-06
Nov-06
Apr-07
Sep-07
Feb-08
Jul-08
Dec-08
May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
Nov-11
Apr-12
Sep-12
Feb-13
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


OW-305I
Concentration (ug/L)
6,000
5,000
4,000
3,000
2,000
1,000
0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
Feb-98
Jul-98
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Aug-00
Jan-01
Jun-01
Nov-01
Apr-02
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Jul-03
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Mar-05
Aug-05
Jan-06
Jun-06
Nov-06
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Dec-08
May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
Nov-11
Apr-12
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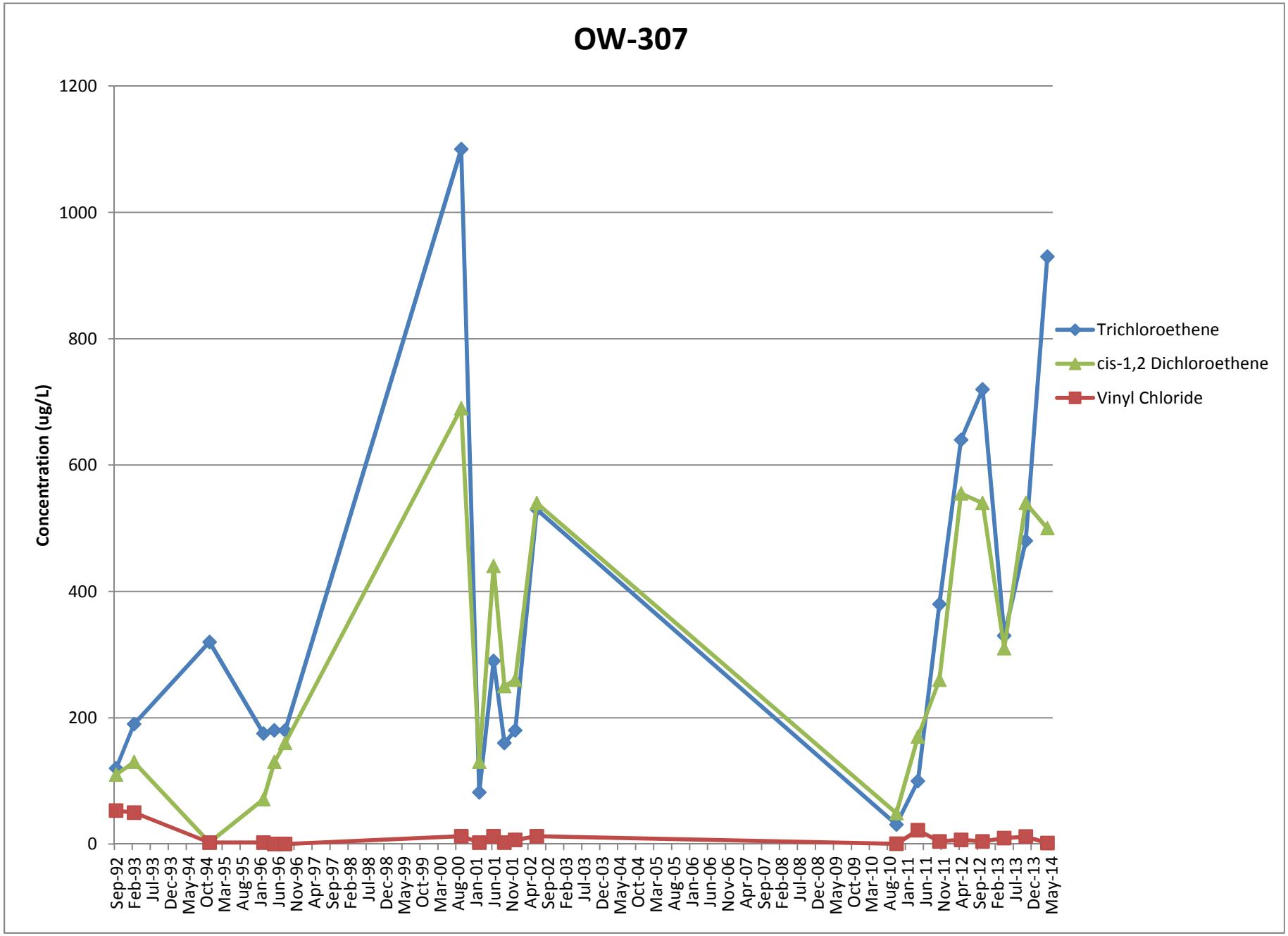
Feb-13
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


OW-307
Concentration (ug/L)
1200
1000
800
600
400
200
0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
Feb-98
Jul-98
Dec-98
May-99
Oct-99
Mar-00
Aug-00
Jan-01
Jun-01
Nov-01
Apr-02
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Feb-03
Jul-03
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May-04
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Mar-05
Aug-05
Jan-06
Jun-06
Nov-06
Apr-07
Sep-07
Feb-08
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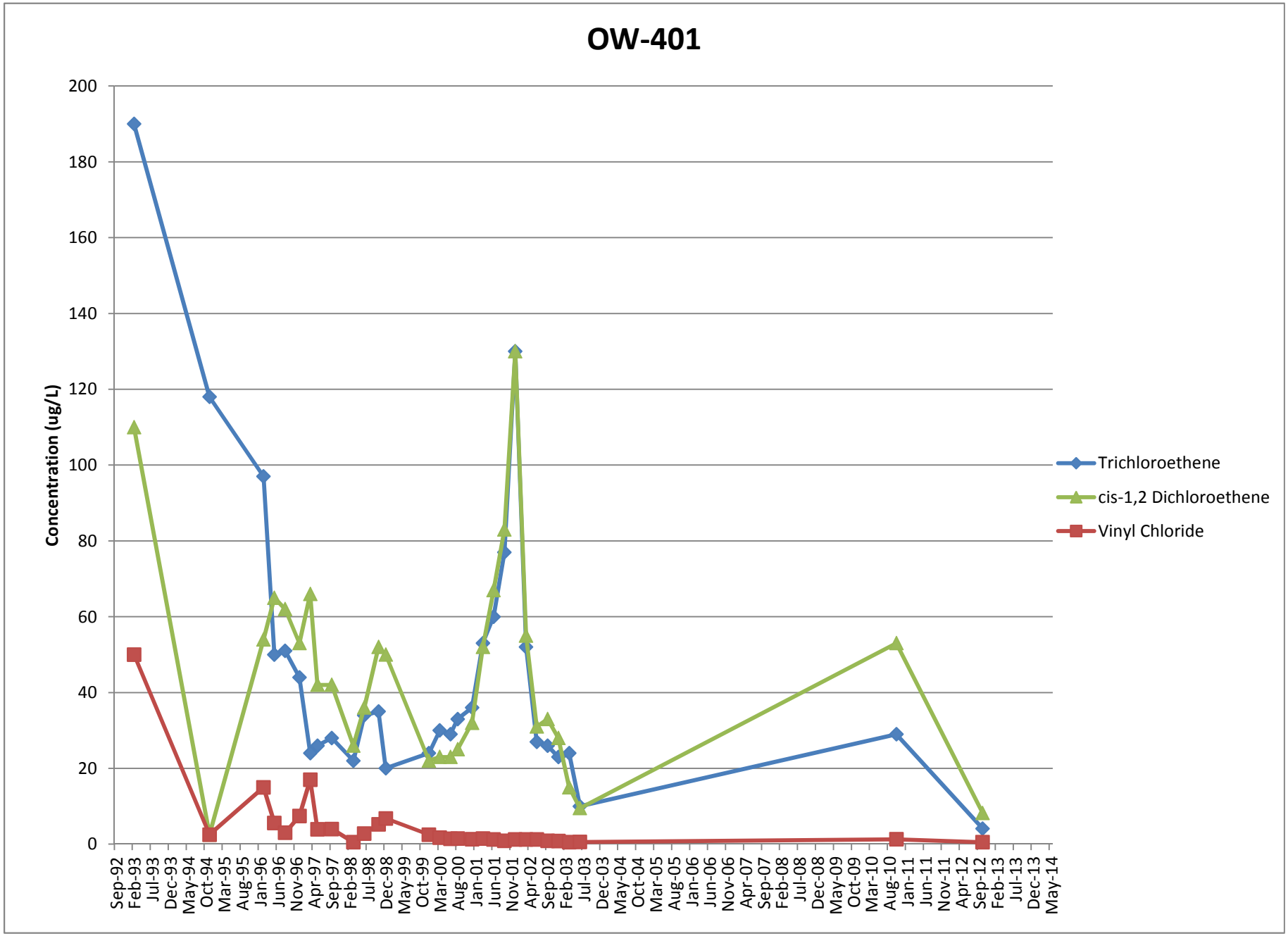
Dec-08
May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
Nov-11
Apr-12
Sep-12
Feb-13
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


OW-401
Concentration (ug/L)
200
180
160
140
120
100
80
60
40
20
0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
Feb-98
Jul-98
Dec-98
May-99
Oct-99
Mar-00
Aug-00
Jan-01
Jun-01
Nov-01
Apr-02
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Feb-03
Jul-03
Dec-03
May-04
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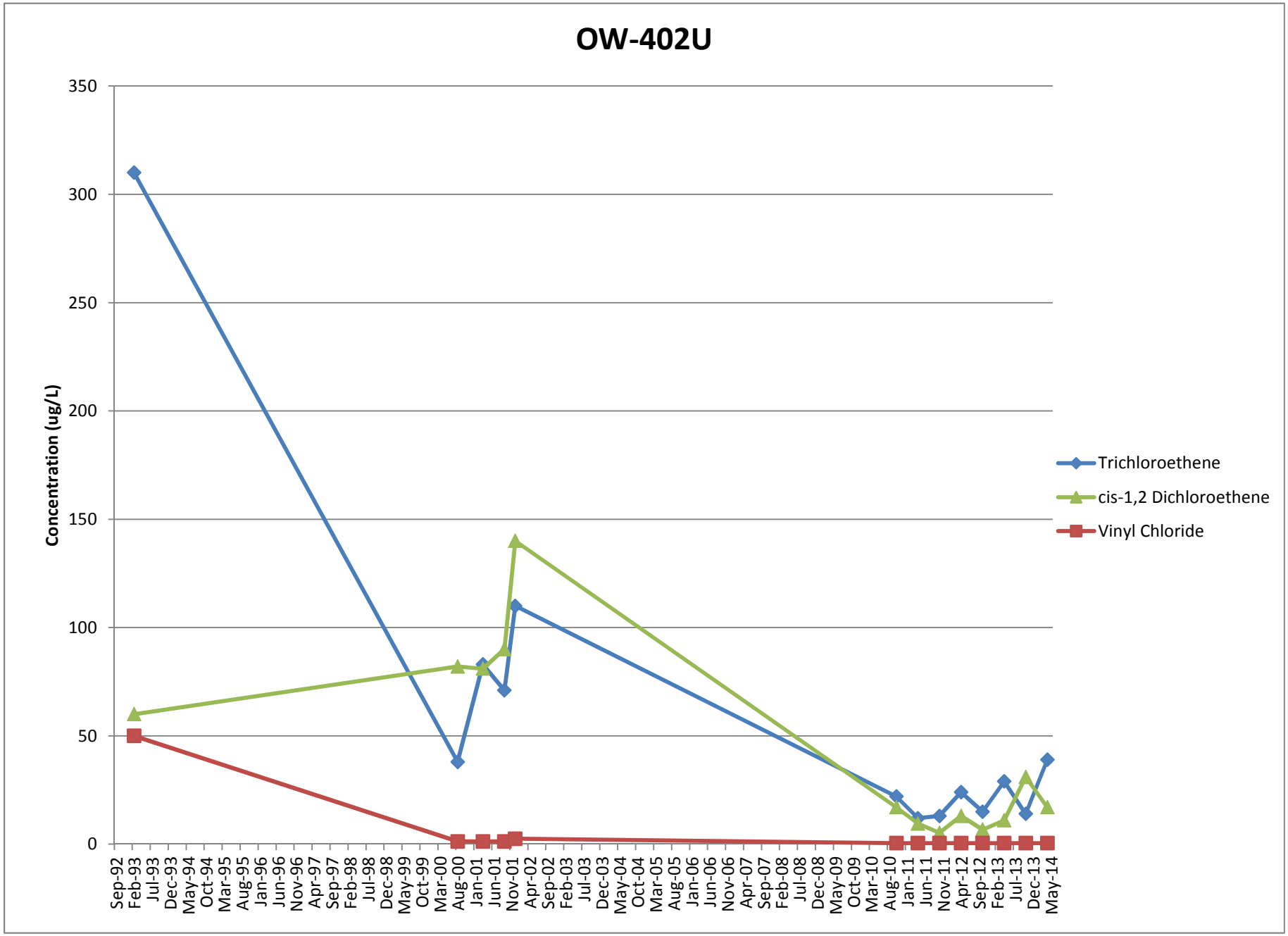
Mar-05
Aug-05
Jan-06
Jun-06
Nov-06
Apr-07
Sep-07
Feb-08
Jul-08
Dec-08
May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
Nov-11
Apr-12
Sep-12
Feb-13
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


OW-402U
Concentration (ug/L)
350
300
250
200
150
100
50
0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
Feb-98
Jul-98
Dec-98
May-99
Oct-99
Mar-00
Aug-00
Jan-01
Jun-01
Nov-01
Apr-02
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Aug-05
Jan-06
Jun-06
Nov-06
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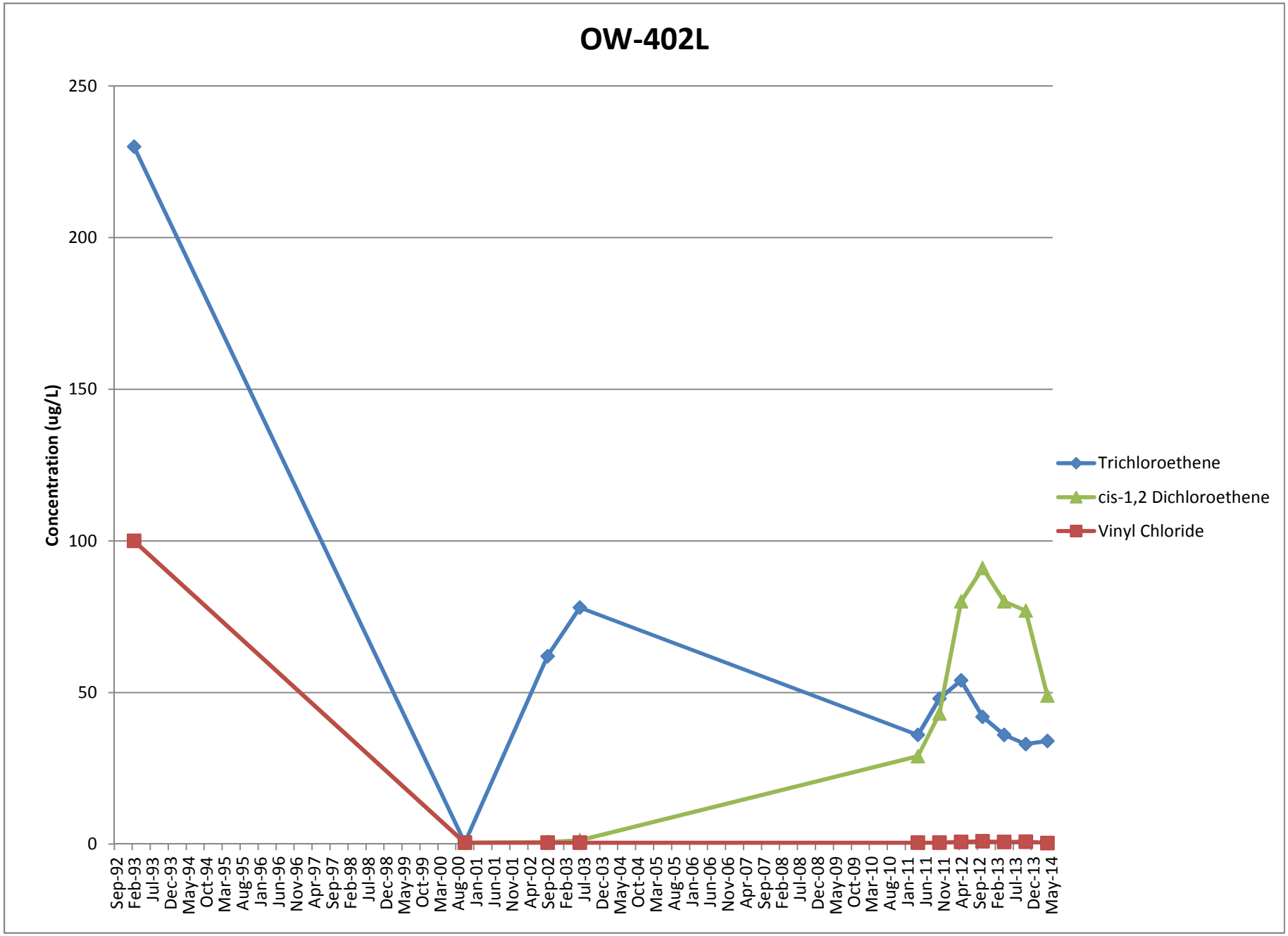
Jul-08
Dec-08
May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
Nov-11
Apr-12
Sep-12
Feb-13
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


OW-402L
Concentration (ug/L)
250
200
150
100
50
0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
Feb-98
Jul-98
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Mar-00
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Jul-03
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Jun-06
Nov-06
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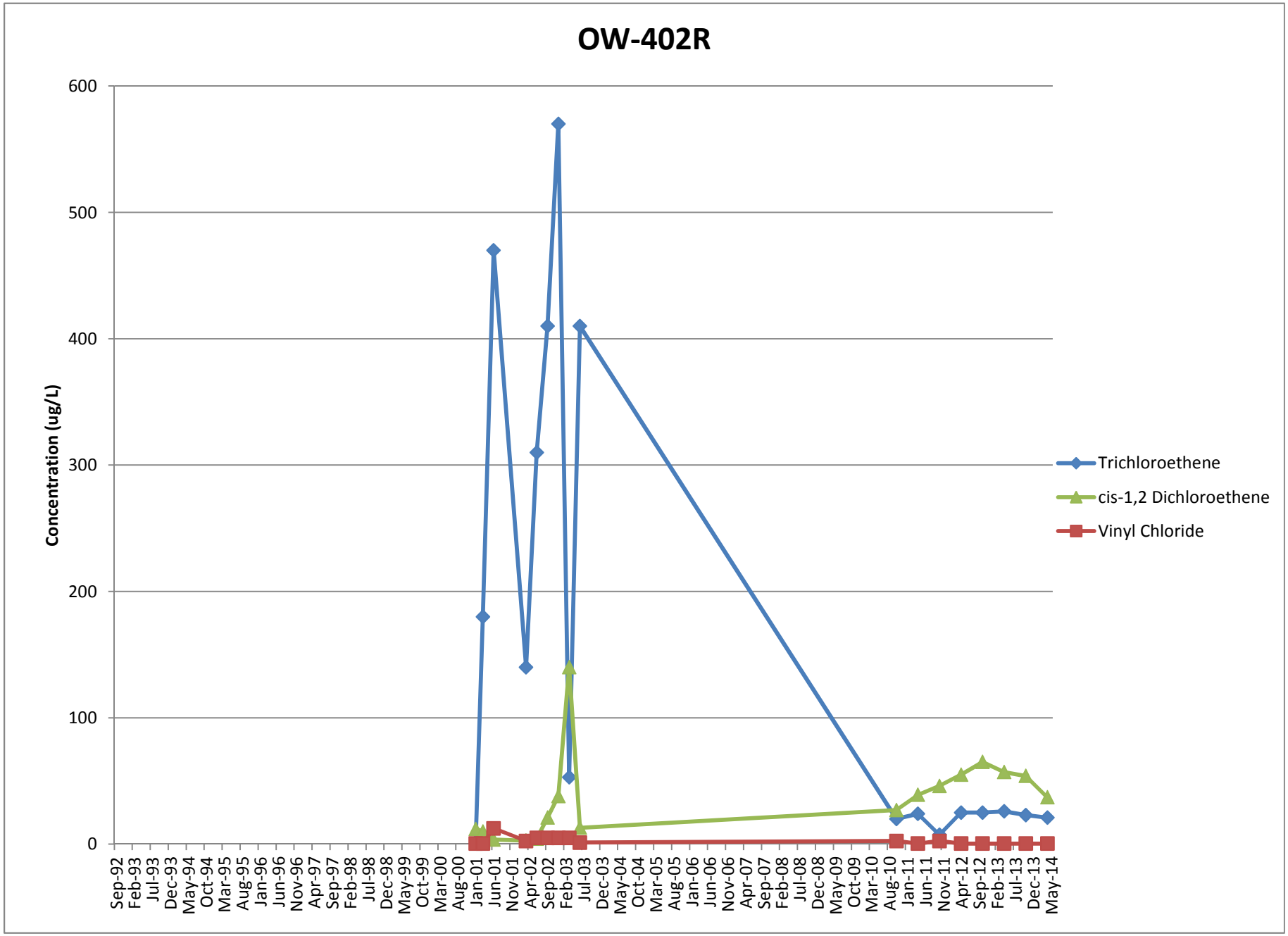
Jul-08
Dec-08
May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
Nov-11
Apr-12
Sep-12
Feb-13
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


OW-402R
Concentration (ug/L)
600
500
400
300
200
100
0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
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Aug-00
Jan-01
Jun-01
Nov-01
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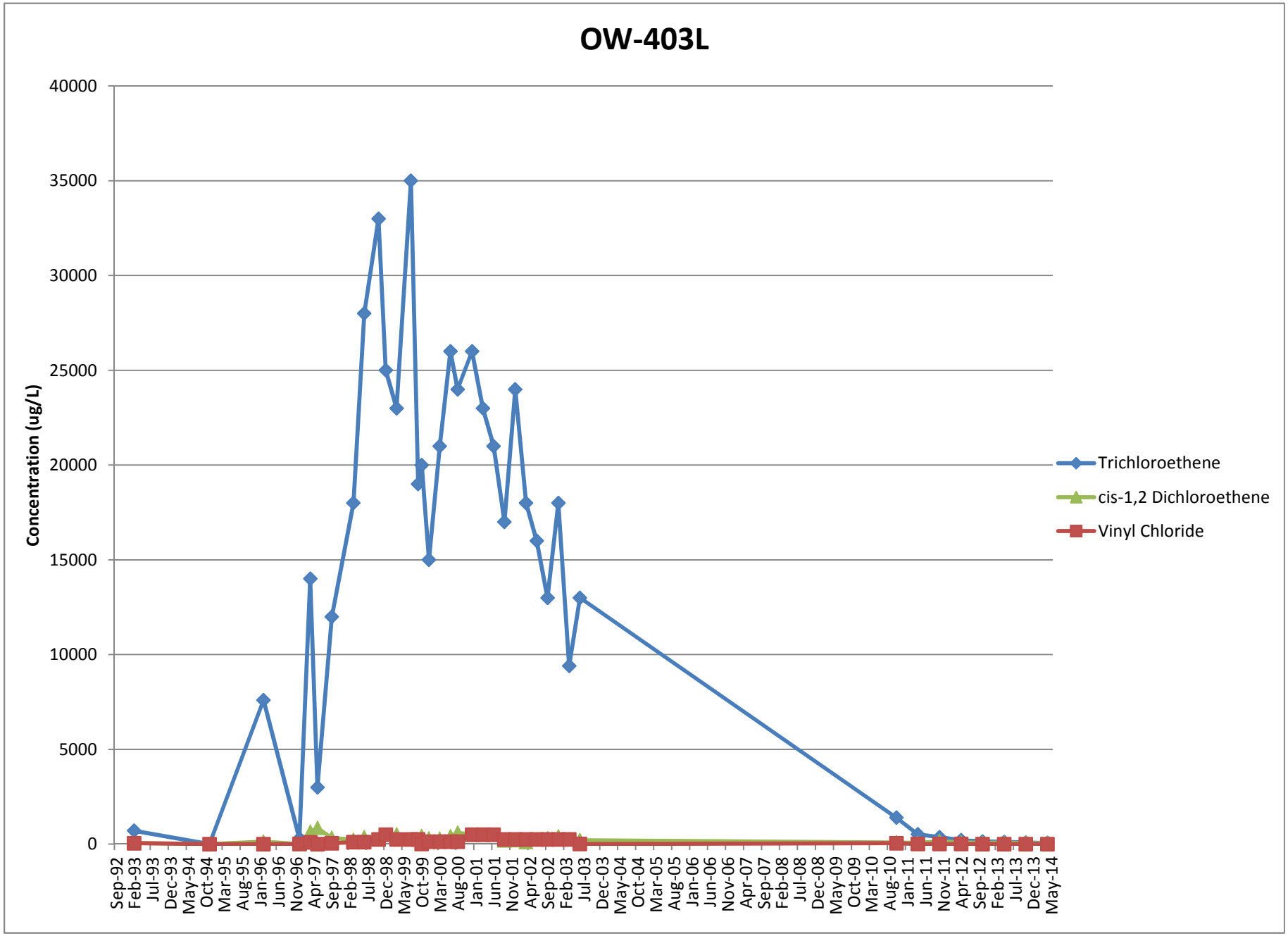
Dec-08
May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
Nov-11
Apr-12
Sep-12
Feb-13
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


OW-403L
Concentration (ug/L)
40000
35000
30000
25000
20000
15000
10000
5000
0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
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Dec-08
May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
Nov-11
Apr-12
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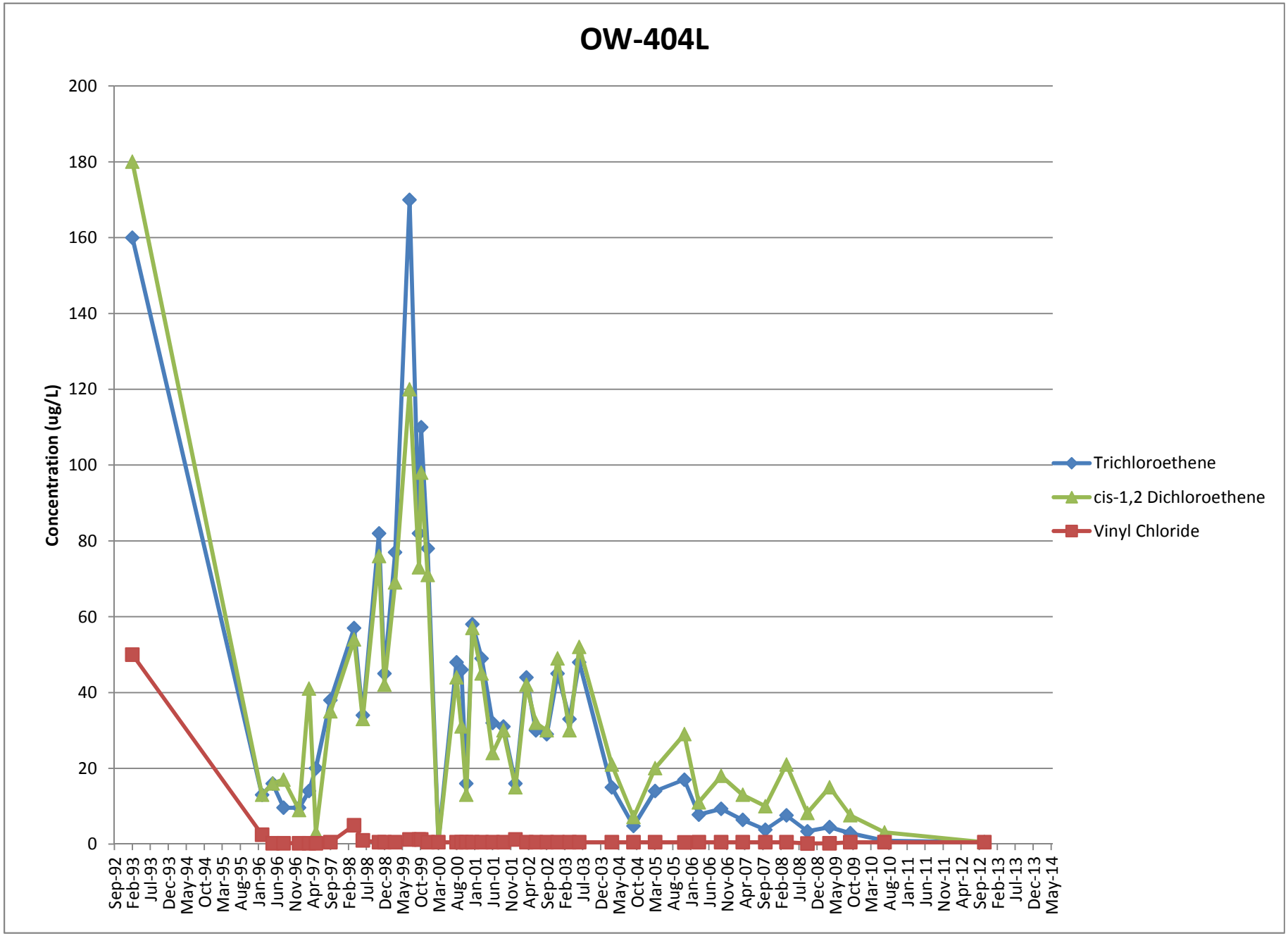
Feb-13
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


OW-404L
Concentration (ug/L)
200
180
160
140
120
100
80
60
40
20
0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
Feb-98
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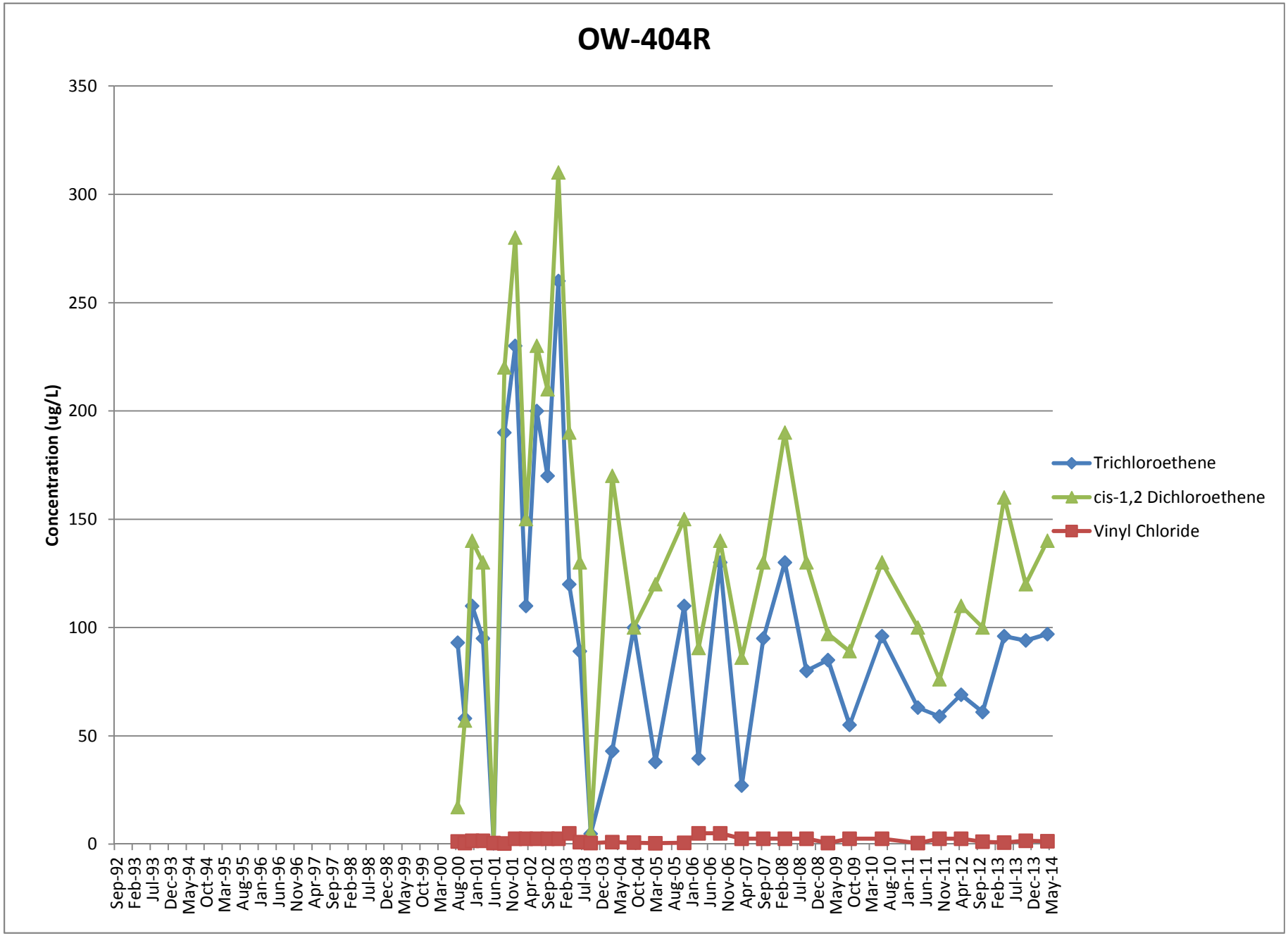
May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
Nov-11
Apr-12
Sep-12
Feb-13
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


OW-404R
Concentration (ug/L)
350
300
250
200
150
100
50
0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
Feb-98
Jul-98
Dec-98
May-99
Oct-99
Mar-00
Aug-00
Jan-01
Jun-01
Nov-01
Apr-02
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May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
Nov-11
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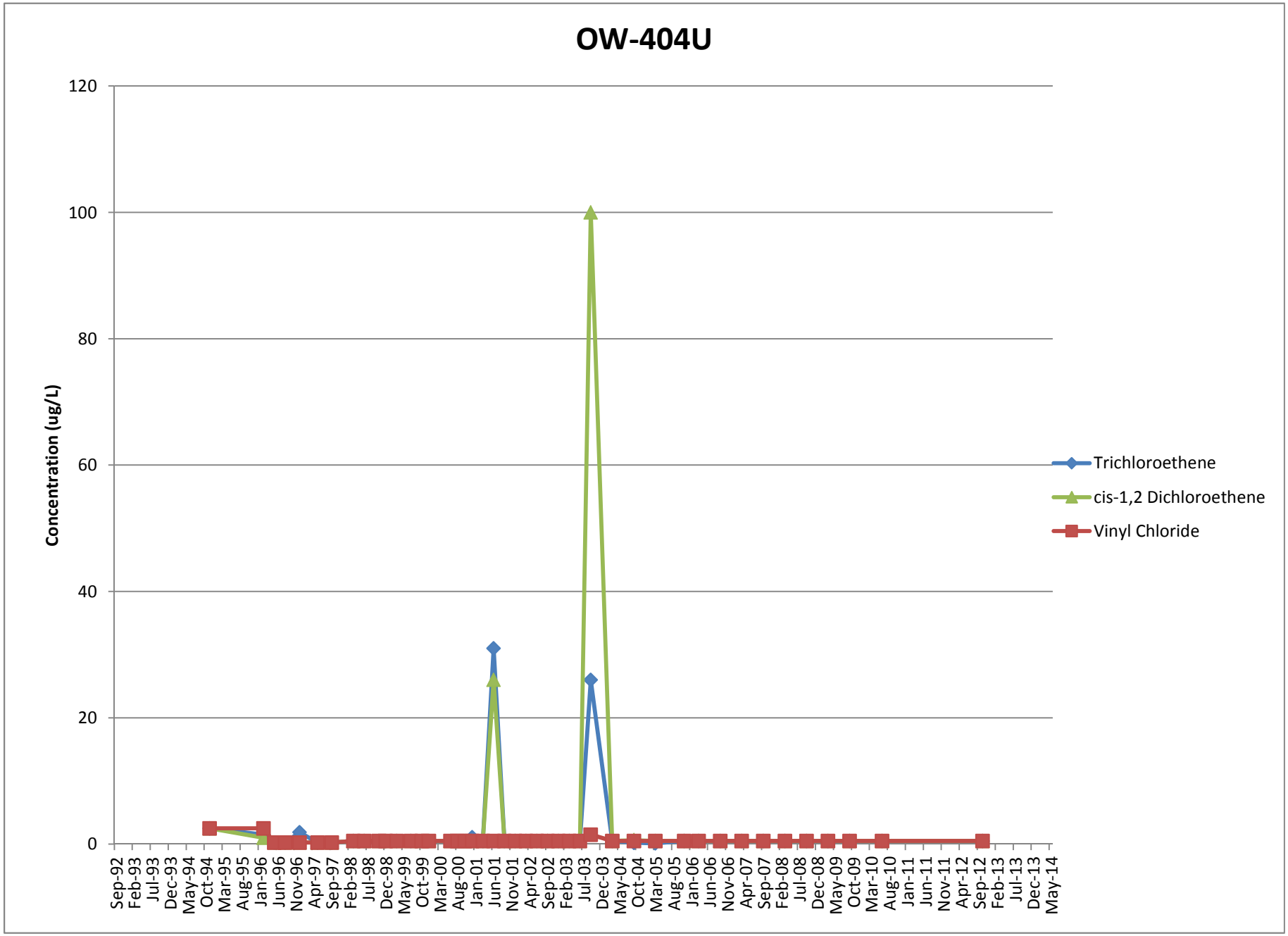
Feb-13
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


OW-404U
Concentration (ug/L)
120
100
80
60
40
20
0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
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Dec-08
May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
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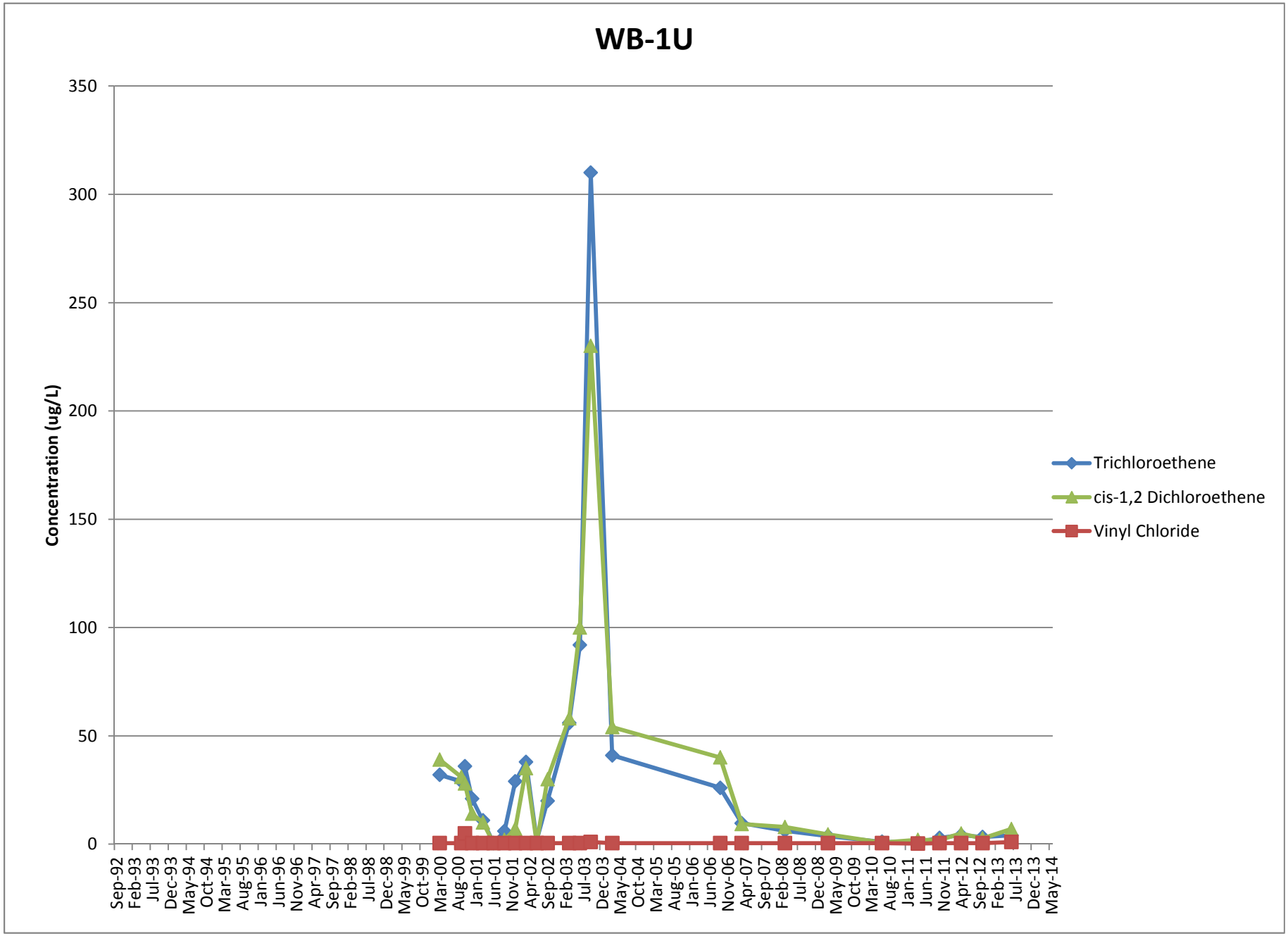
Feb-13
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


WB-1U
Concentration (ug/L)
350
300
250
200
150
100
50
0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
Feb-98
Jul-98
Dec-98
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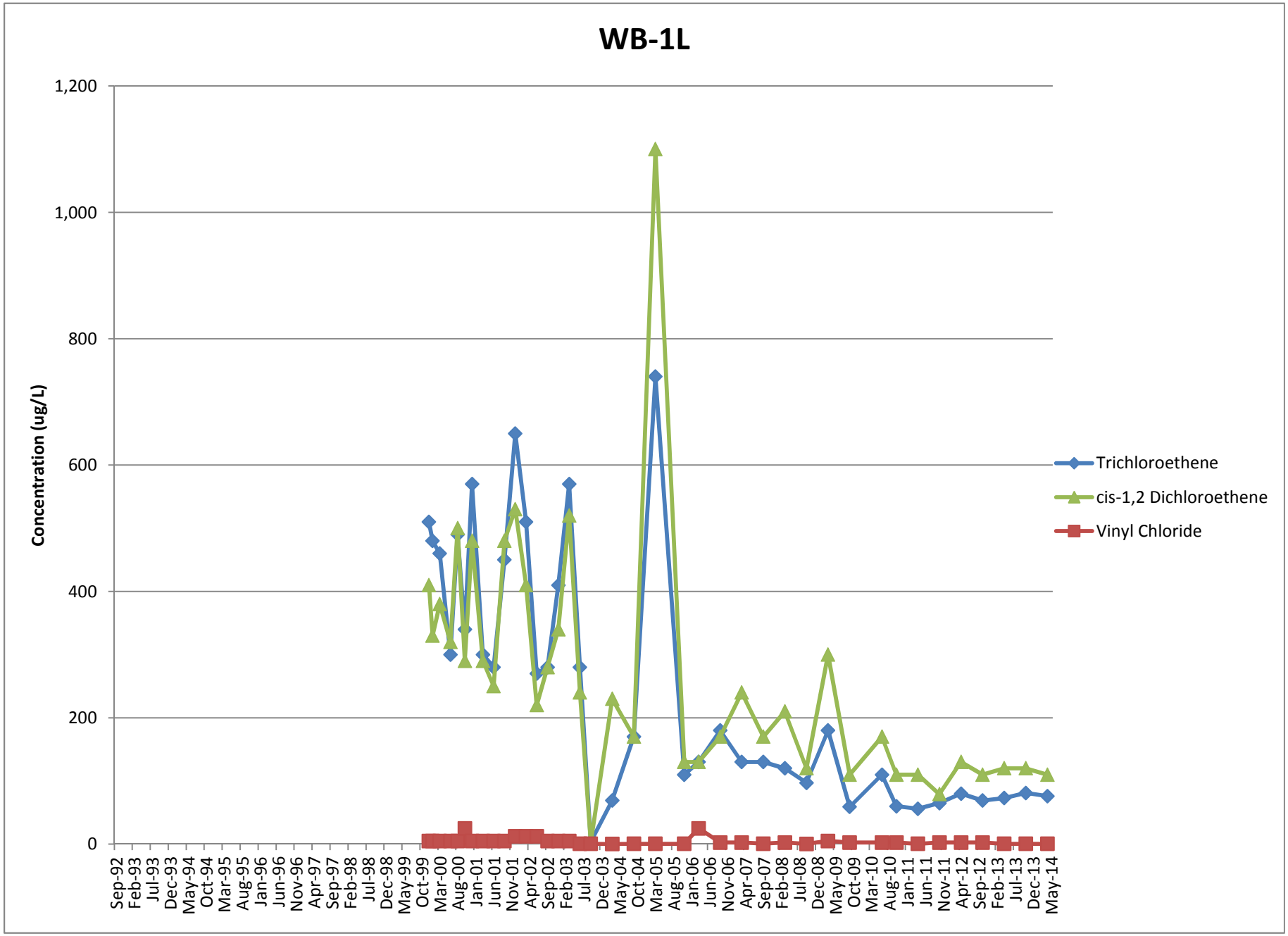
Dec-08
May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
Nov-11
Apr-12
Sep-12
Feb-13
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


WB-1L
Concentration (ug/L)
1,200
1,000
800
600
400
200
0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
Feb-98
Jul-98
Dec-98
May-99
Oct-99
Mar-00
Aug-00
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Jun-01
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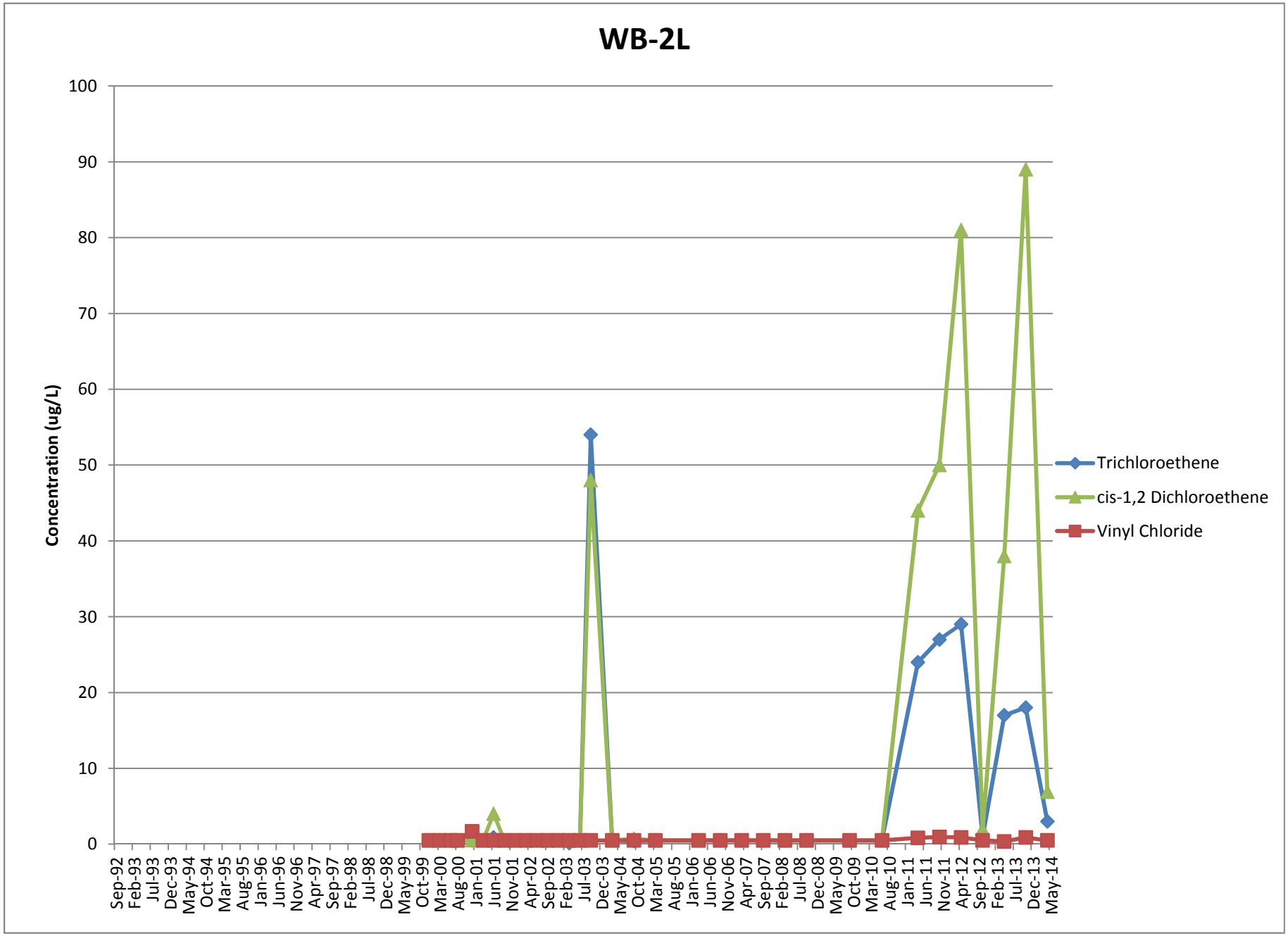
Feb-08
Jul-08
Dec-08
May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
Nov-11
Apr-12
Sep-12
Feb-13
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


WB-2L
Concentration (ug/L)
100
90
80
70
60
50
40
30
20
10
0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
Feb-98
Jul-98
Dec-98
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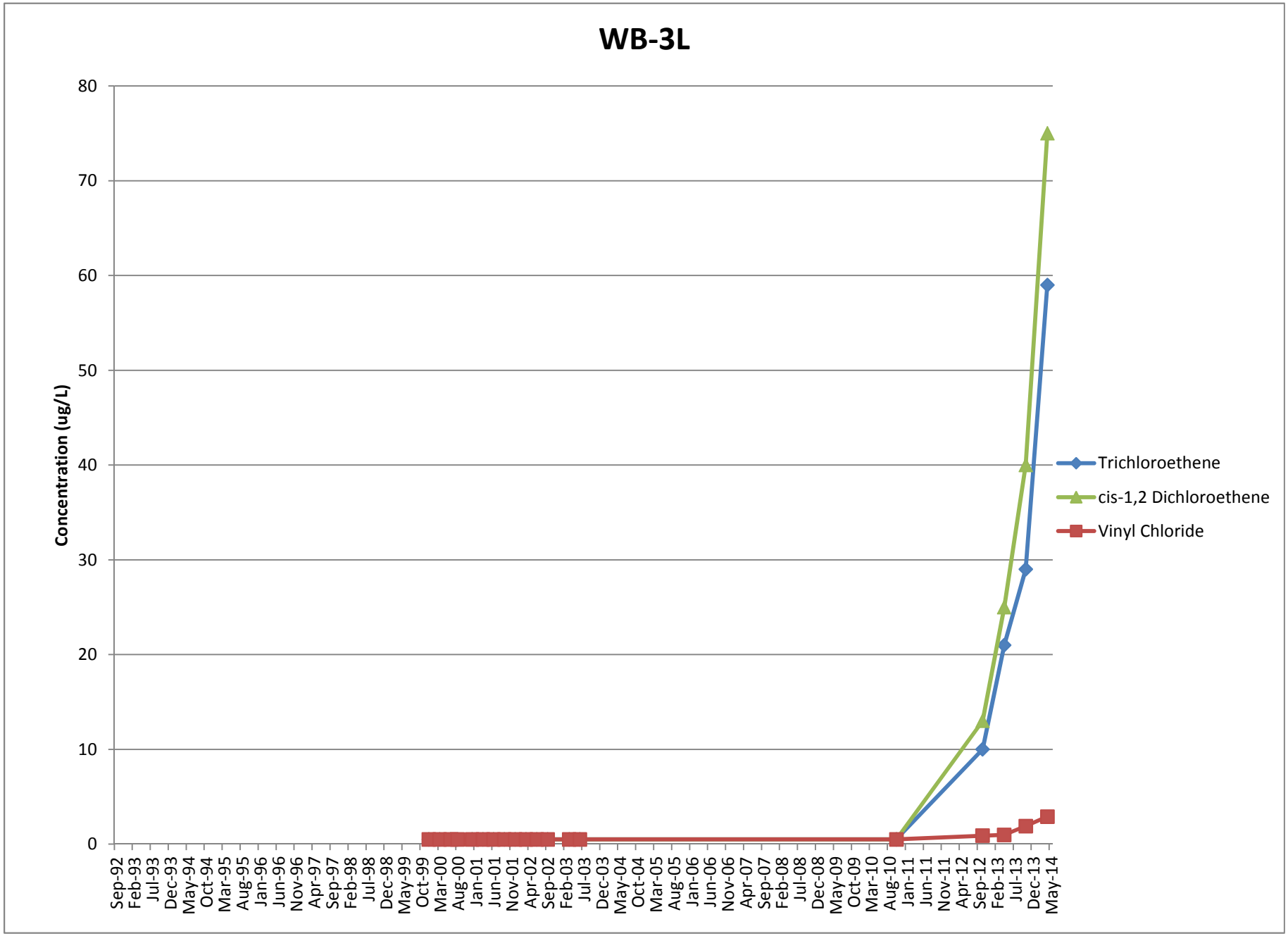
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


WB-3L
Concentration (ug/L)
80
70
60
50
40
30
20
10
0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
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Jul-98
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May-99
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Mar-00
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Apr-07
Sep-07
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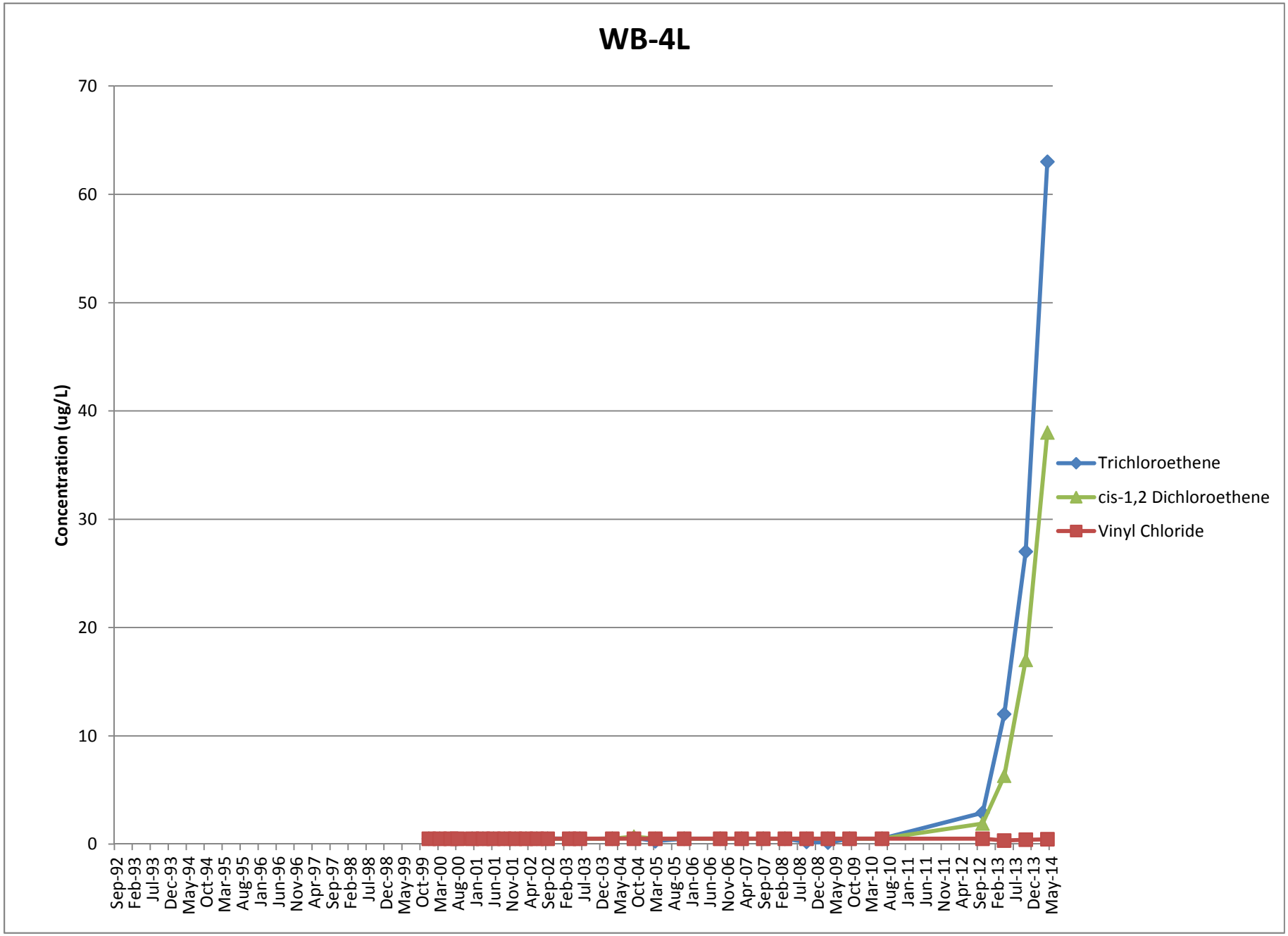
Dec-08
May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
Nov-11
Apr-12
Sep-12
Feb-13
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


WB-4L
Concentration (ug/L)
70
60
50
40
30
20
10
0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
Feb-98
Jul-98
Dec-98
May-99
Oct-99
Mar-00
Aug-00
Jan-01
Jun-01
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May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
Nov-11
Apr-12
Sep-12
Feb-13
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride

APPENDIX C

VOC MOLARITY TREND ANALYSIS

Index of VOC Molarity Trend Analysis Charts
Hewlett-Packard Voluntary Remediation Project
San German, Puerto Rico

File No. 01.0024065.14

GZ-502L: Screened in the Saprolite Unit	Page 1
GZ-503L: Screened in the Saprolite Unit	Page 2
GZ-504R: Screened in the Bedrock Unit	Page 3
GZ-505L: Screened in the Saprolite Unit	Page 4
GZ-505R: Screened in the Bedrock Unit	Page 5
GZ-506R: Screened in the Bedrock Unit	Page 6
GZ-515U: Screened in the Alluvium Unit	Page 7
OW-101: Screened in the Fill Unit	Page 8
OW-301: Screened in the Saprolite Unit	Page 9
OW-304L: Screened in the Saprolite Unit	Page 10
OW-304R: Screened in the Bedrock Unit	Page 11
OW-305I: Screened in the Alluvium Unit	Page 12
OW-307: Screened in the Saprolite Unit	Page 13
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OW-402U: Screened in the Fill Unit	Page 15
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OW-403L: Screened in the Saprolite Unit	Page 18
OW-404U: Screened in the Fill Unit	Page 19
OW-404L: Screened in the Saprolite Unit	Page 20
OW-404R: Screened in the Bedrock Unit	Page 21
WB-1U: Screened in the Fill Unit	Page 22
WB-1L: Screened in the Saprolite Unit	Page 23
WB-2L: Screened in the Saprolite Unit	Page 24
WB-3L: Screened in the Saprolite Unit	Page 25
WB-4L: Screened in the Saprolite Unit	Page 26

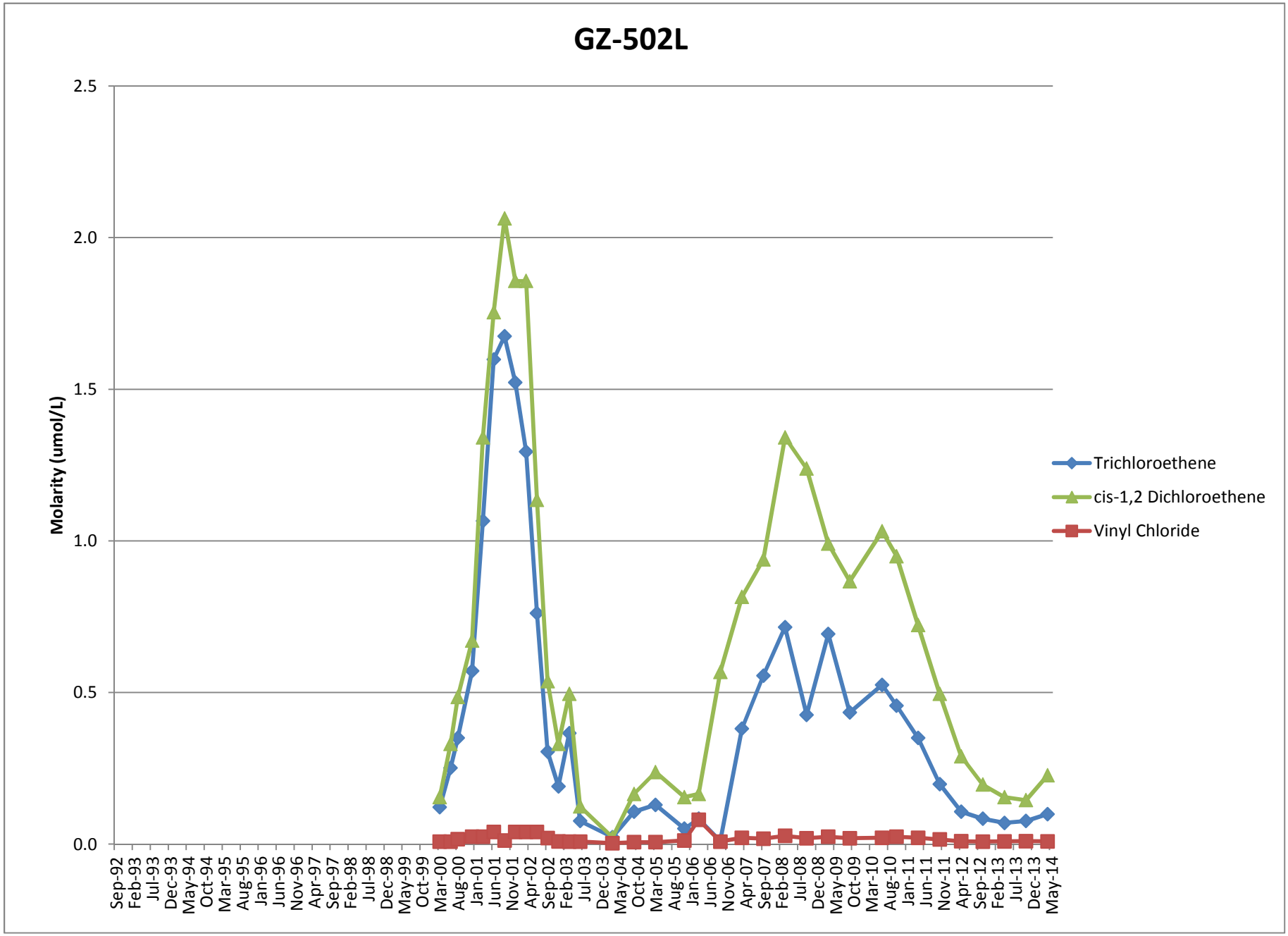
Index of VOC Molarity Trend Analysis Charts
Hewlett-Packard Voluntary Remediation Project
San German, Puerto Rico

File No. 01.0024065.14

Notes:

1. In instances where a constituent was not detected, half of the reporting limit was used as the molarity.
2. Data that were reported with qualifiers were treated as if they were not reported with qualifiers in this analysis. In general, this led to a more conservative analysis.
3. VOC = Volatile Organic Compounds; TCE = Trichloroethene; DCE = cis-1,2-Dichloroethene; VC = Vinyl Chloride; ug/L = micrograms per liter; ug/umol = micrograms per micromole.
4. For several wells (GZ-504R, WB-1L, OW-404L, OW-402U, OW-402R, WB-2L, WB-4L, GZ-515U, GZ-506R, and OW-301) the VC analysis was based exclusively on non-detect and qualified results. For two wells (GZ-515U and OW-301) this is true for the TCE and the DCE analyses as well. For OW-101, OW-304L, OW-403L, and OW-304R for VC, many of the reporting limits are very high compared to the detected molarities.
5. Molecular weights for the carbon (C – 12.01 ug/umol), hydrogen (H – 1.01 ug/umol), and chloride (Cl – 35.45 ug/umol) atoms were used to calculate the molecular weights of TCE (C_2HCl_3 – 131.38 ug/umol), DCE ($C_2H_2Cl_2$ – 96.94 ug/umol), and VC (C_2H_3Cl – 62.50 ug/umol).
6. Molarity (in umol/L) was calculated by dividing the concentration (in ug/L) by the molecular weight (in ug/umol).

J:\23,000-24,999\24065\24065-14.JAC\Semi-Annual Reports\Q1-Q2 2014\Appendices\Appendix C - Molarity Trend Figures\Index for Molarity Charts.docx


GZ-502L
Molarity (umol/L)
2.5
2.0
1.5
1.0
0.5
0.0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
Feb-98
Jul-98
Dec-98
May-99
Oct-99
Mar-00
Aug-00
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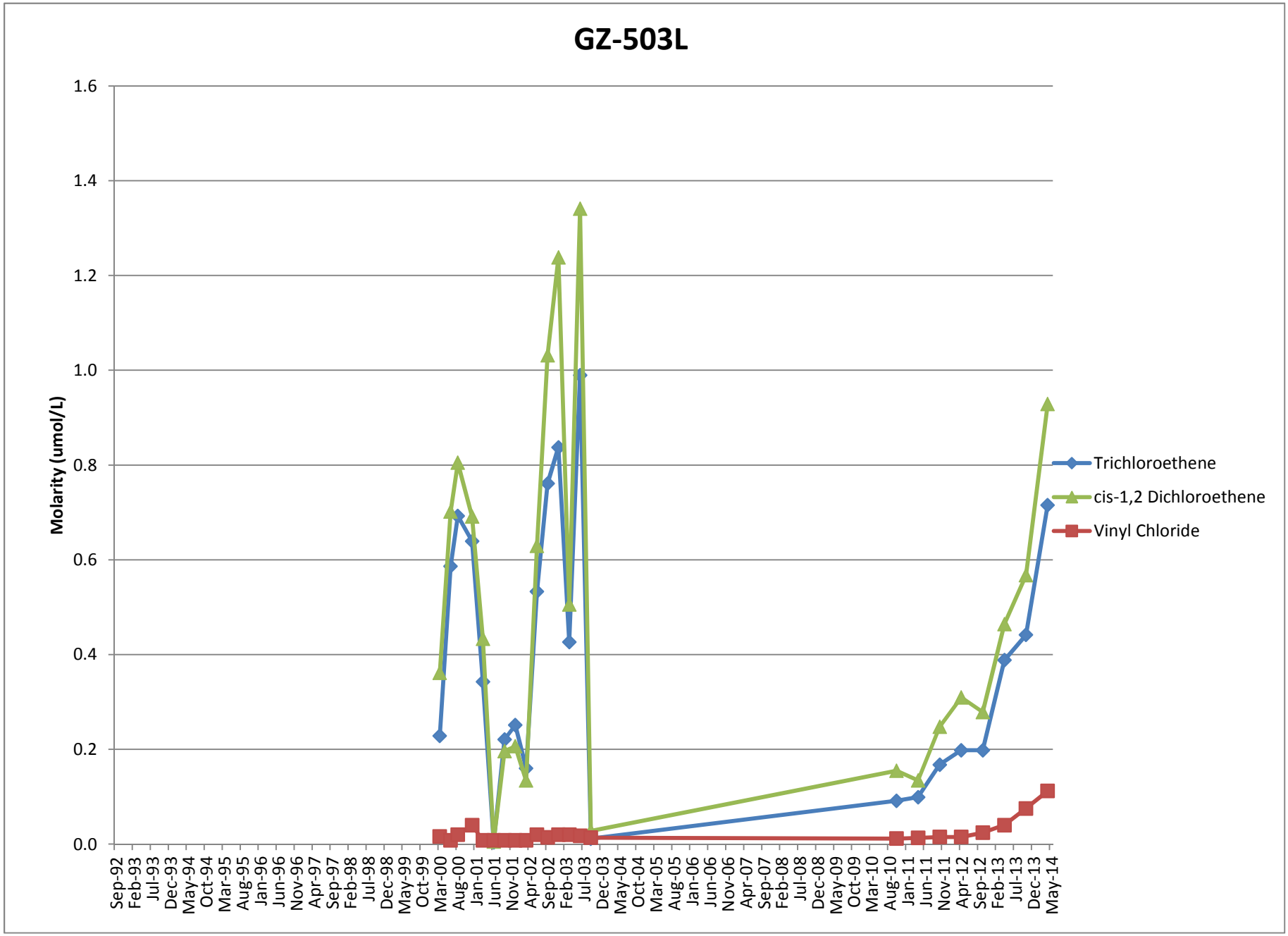
Aug-05
Jan-06
Jun-06
Nov-06
Apr-07
Sep-07
Feb-08
Jul-08
Dec-08
May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
Nov-11
Apr-12
Sep-12
Feb-13
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


GZ-503L
Molarity (umol/L)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
Feb-98
Jul-98
Dec-98
May-99
Oct-99
Mar-00
Aug-00
Jan-01
Jun-01
Nov-01
Apr-02
Sep-02
Feb-03
Jul-03
Dec-03
May-04
Oct-04
Mar-05
Aug-05
Jan-06
Jun-06
Nov-06
Apr-07
Sep-07
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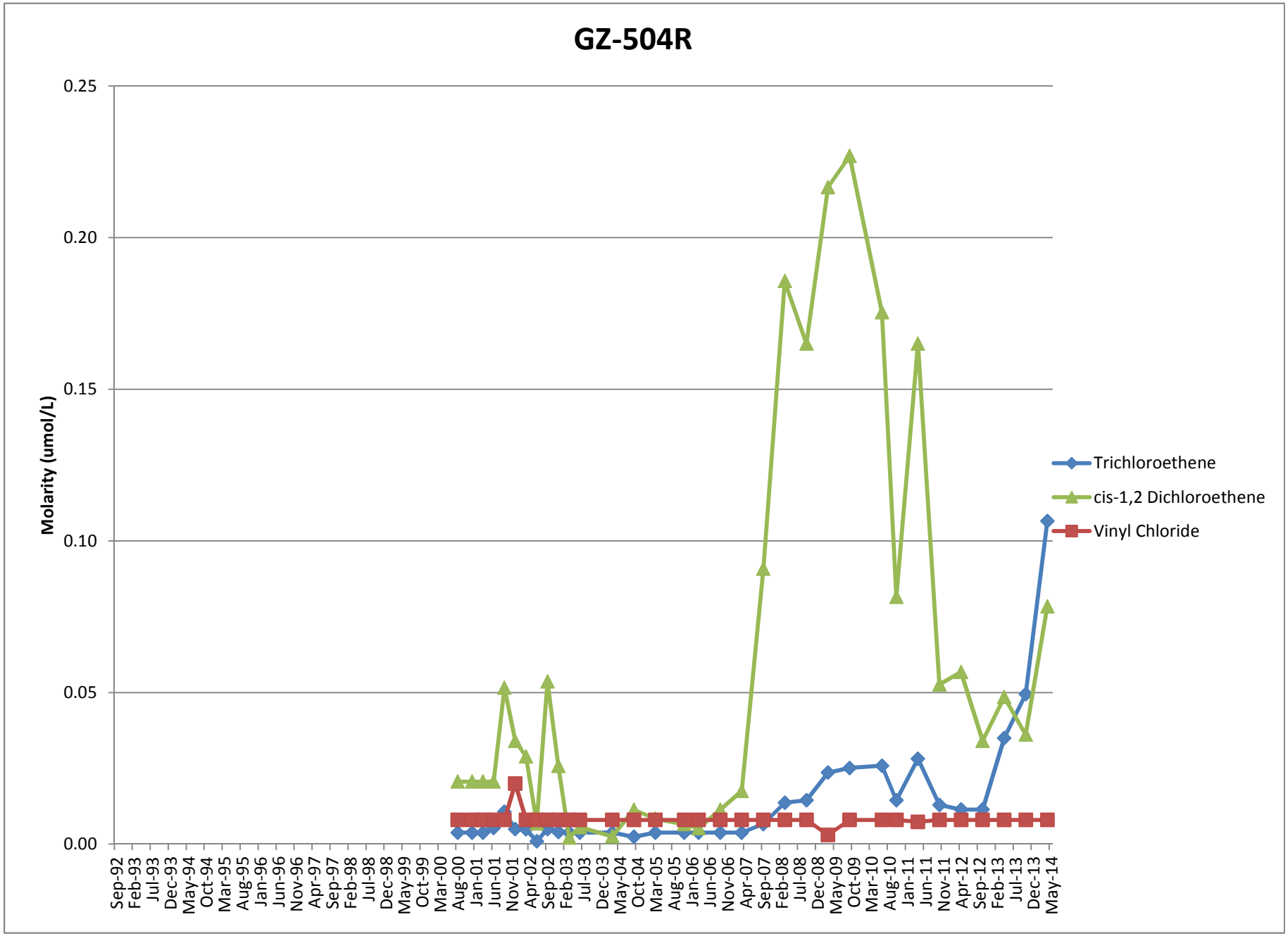
Jul-08
Dec-08
May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
Nov-11
Apr-12
Sep-12
Feb-13
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


GZ-504R
Molarity (umol/L)
0.25
0.20
0.15
0.10
0.05
0.00
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
Feb-98
Jul-98
Dec-98
May-99
Oct-99
Mar-00
Aug-00
Jan-01
Jun-01
Nov-01
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Dec-08
May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
Nov-11
Apr-12
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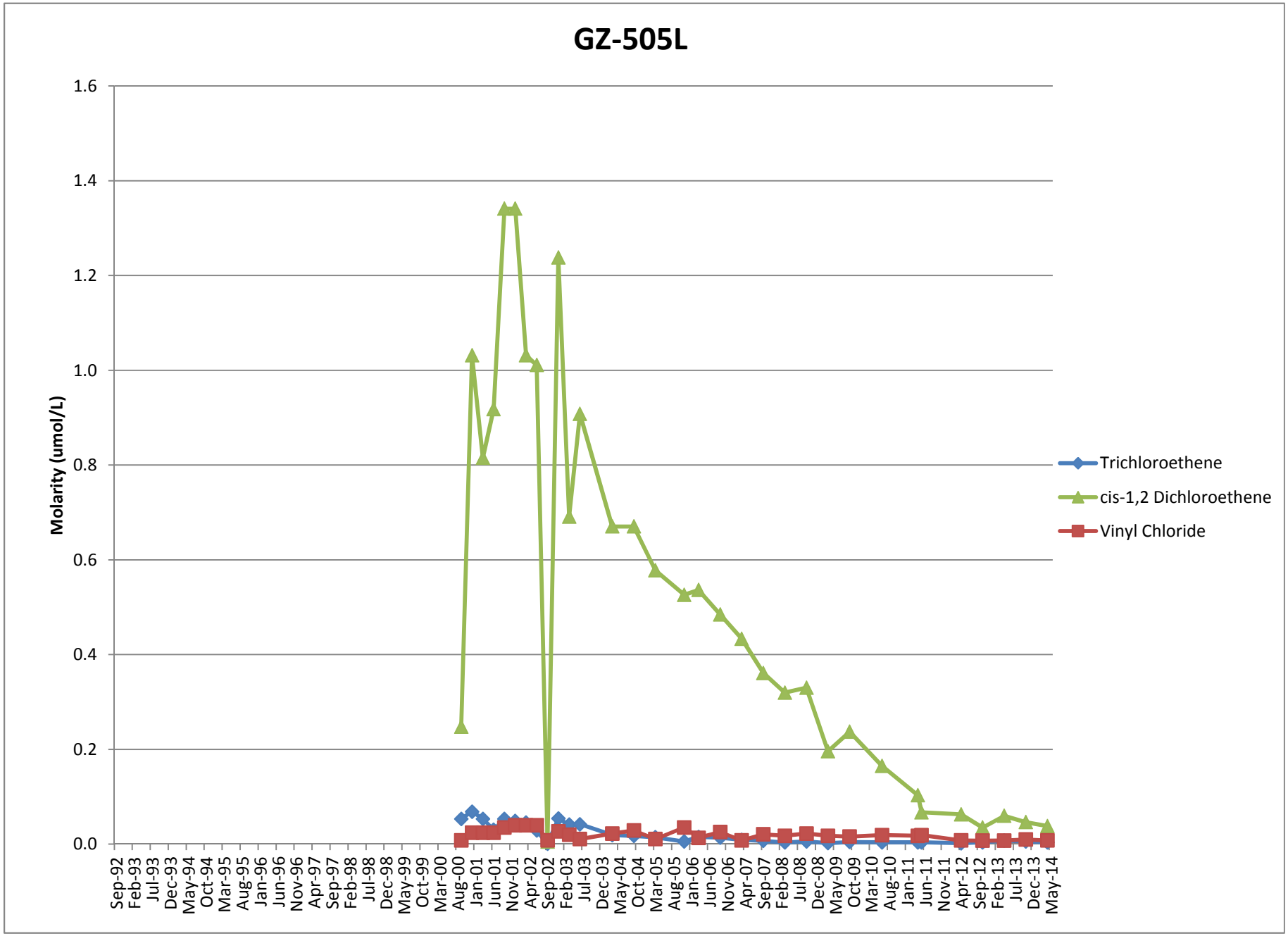
Feb-13
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


GZ-505L
Molarity (umol/L)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
Feb-98
Jul-98
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May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
Nov-11
Apr-12
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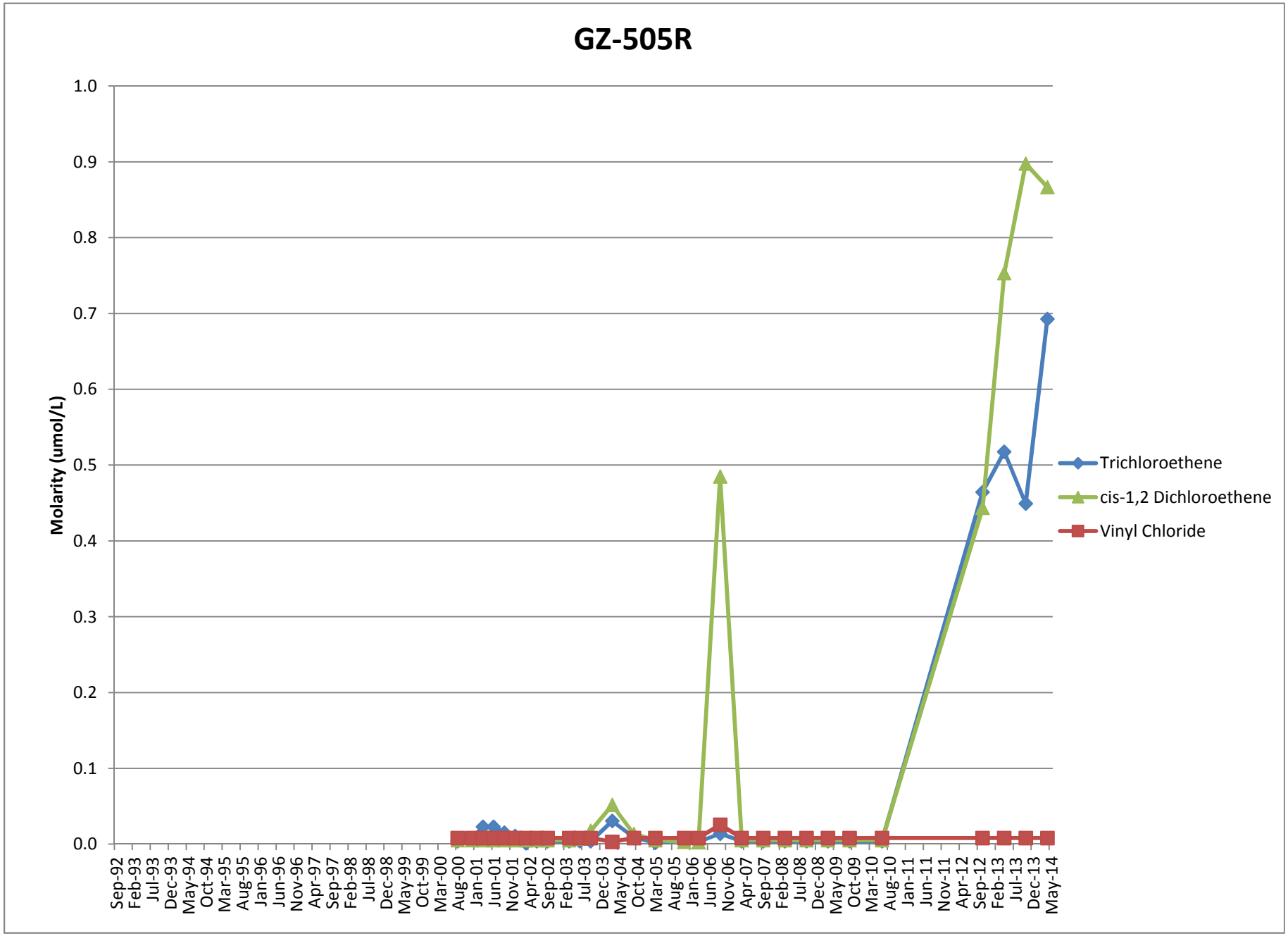
Feb-13
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


GZ-505R
Molarity (umol/L)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
Feb-98
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May-99
Oct-99
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Aug-05
Jan-06
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Dec-08
May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
Nov-11
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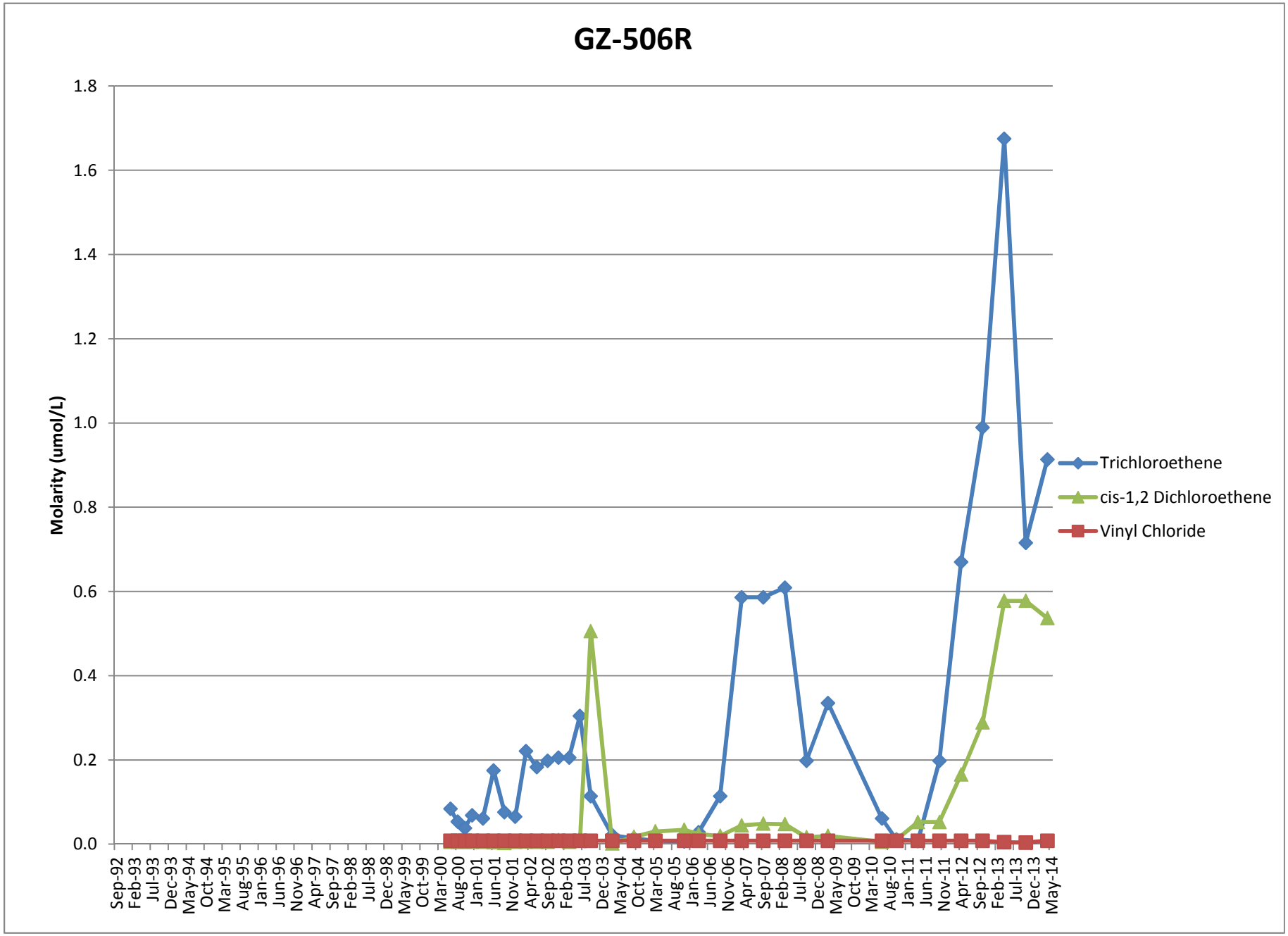
Sep-12
Feb-13
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


GZ-506R
Molarity (umol/L)
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
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Aug-00
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May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
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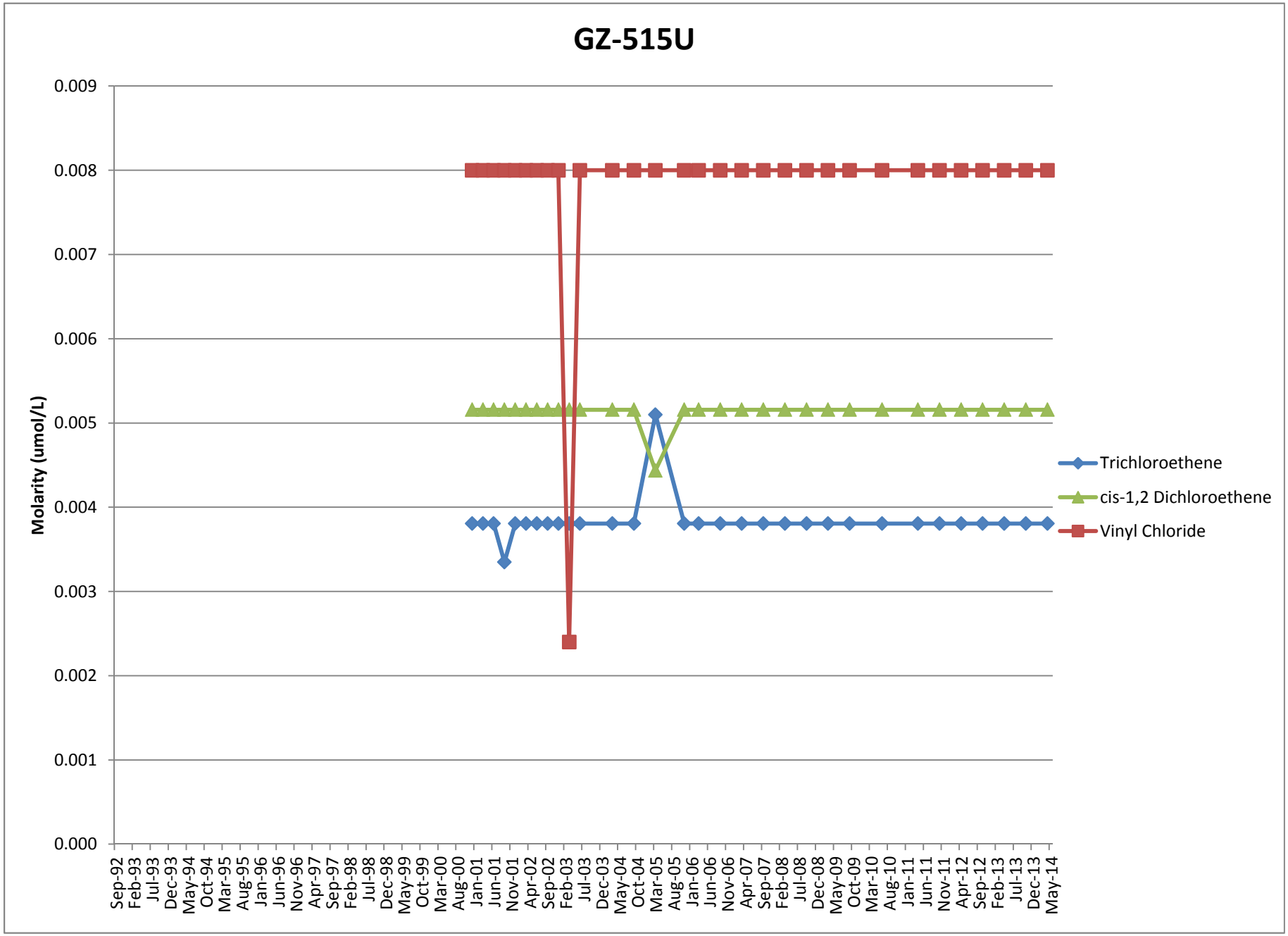
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


GZ-515U
Molarity (umol/L)
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
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Mar-00
Aug-00
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May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
Nov-11
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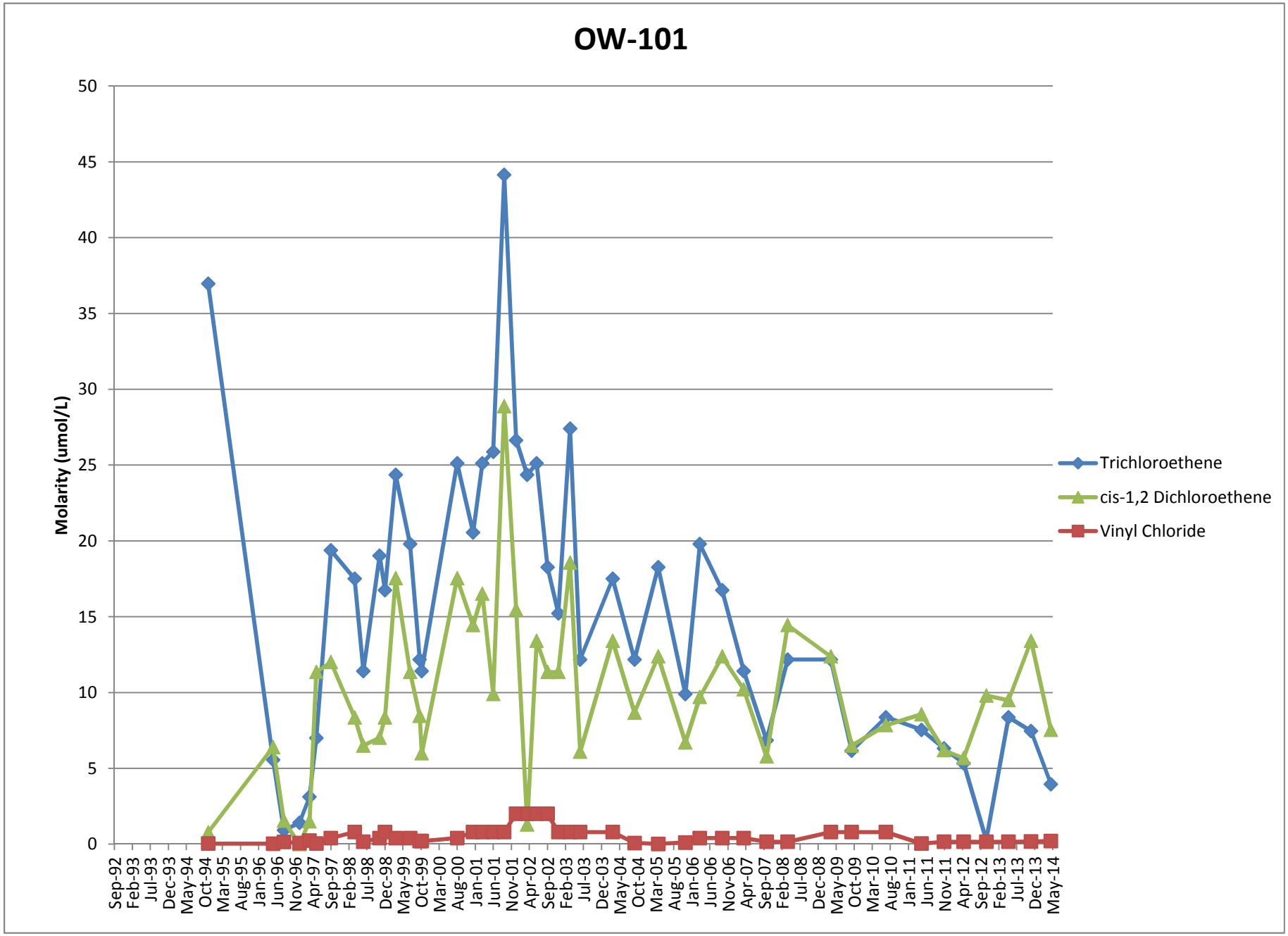
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


OW-101
Molarity (umol/L)
50
45
40
35
30
25
20
15
10
5
0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
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Jul-98
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May-09
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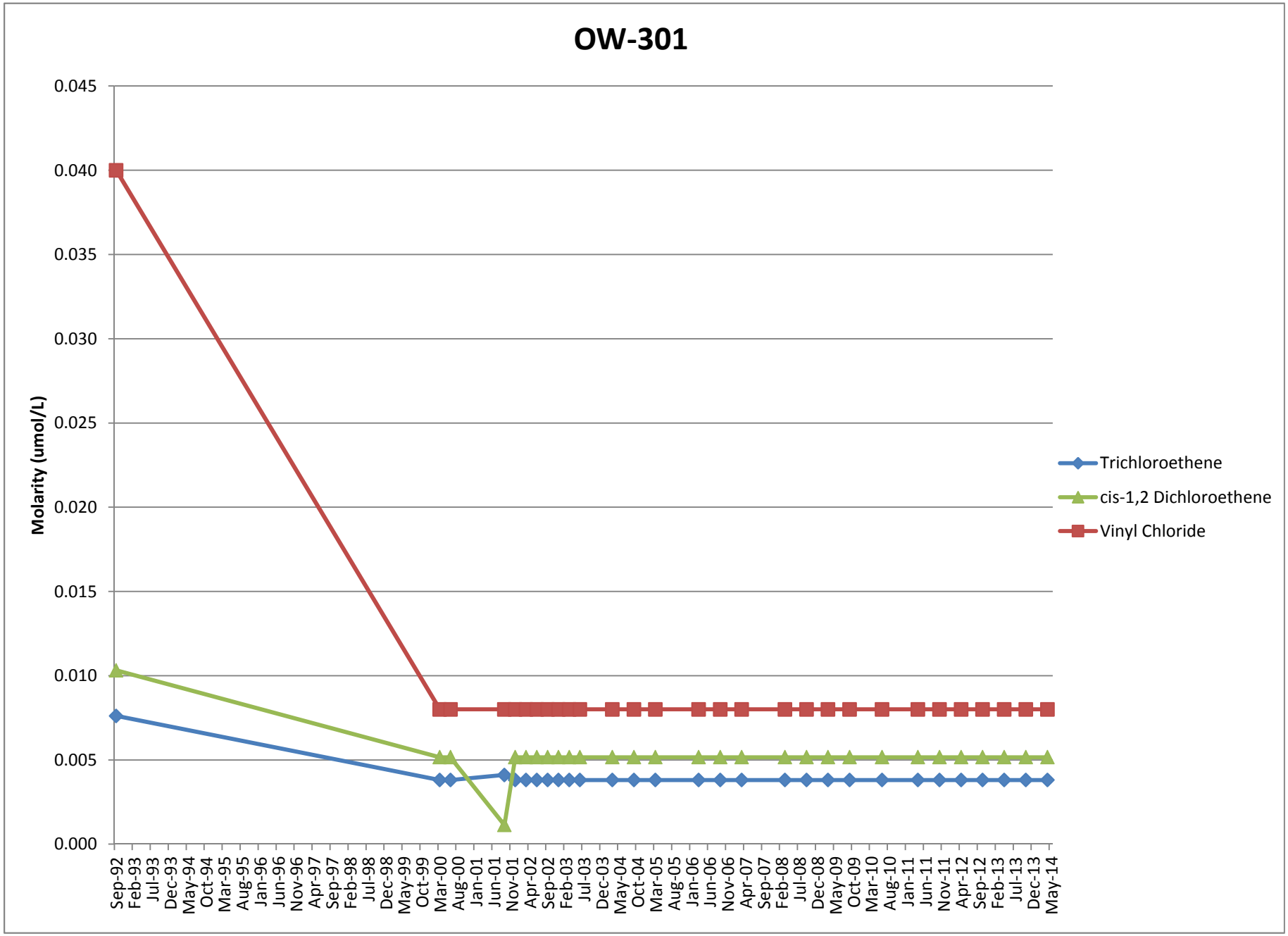
Mar-10
Aug-10
Jan-11
Jun-11
Nov-11
Apr-12
Sep-12
Feb-13
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


OW-301
Molarity (umol/L)
0.045
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
Feb-98
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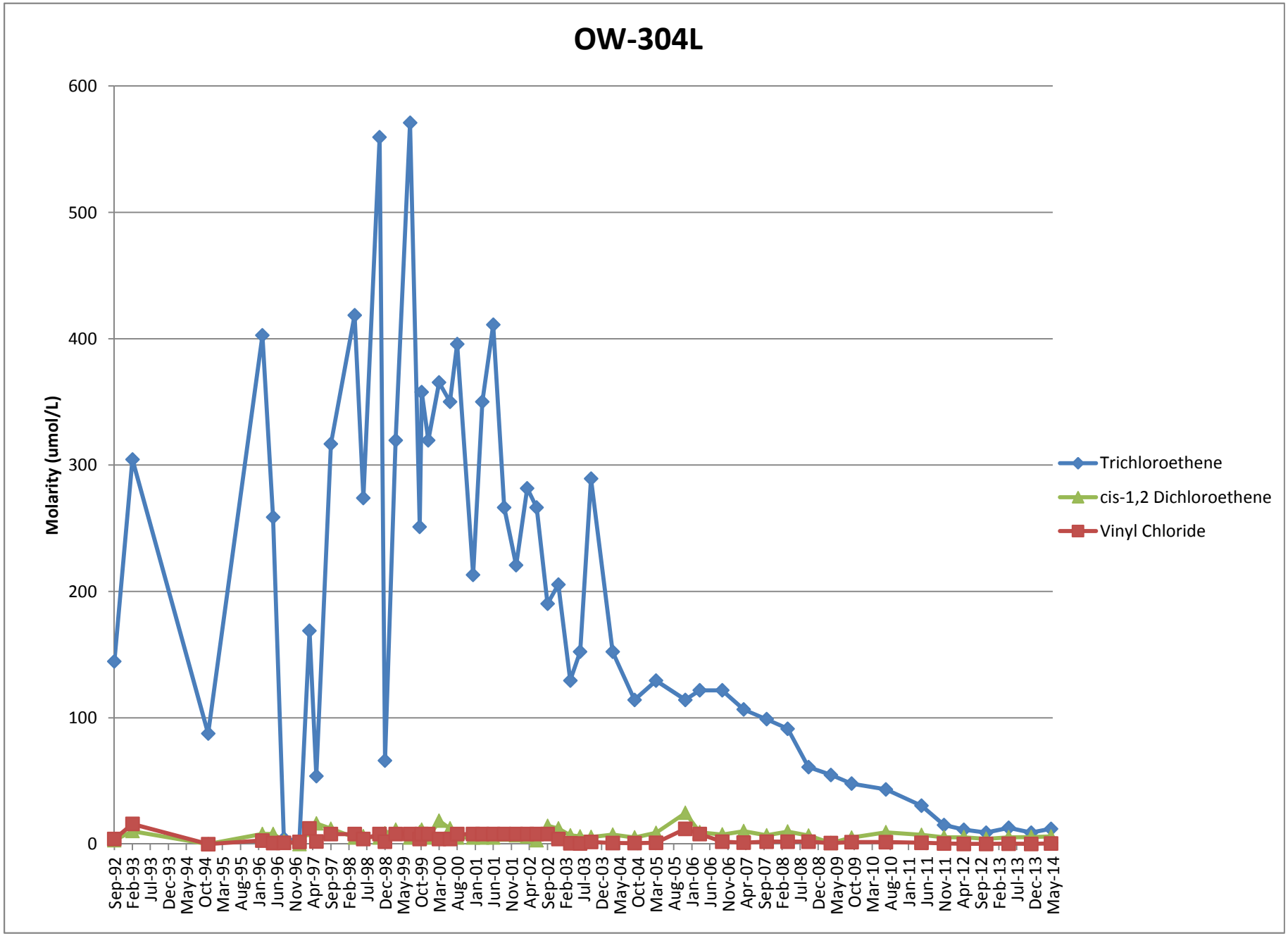
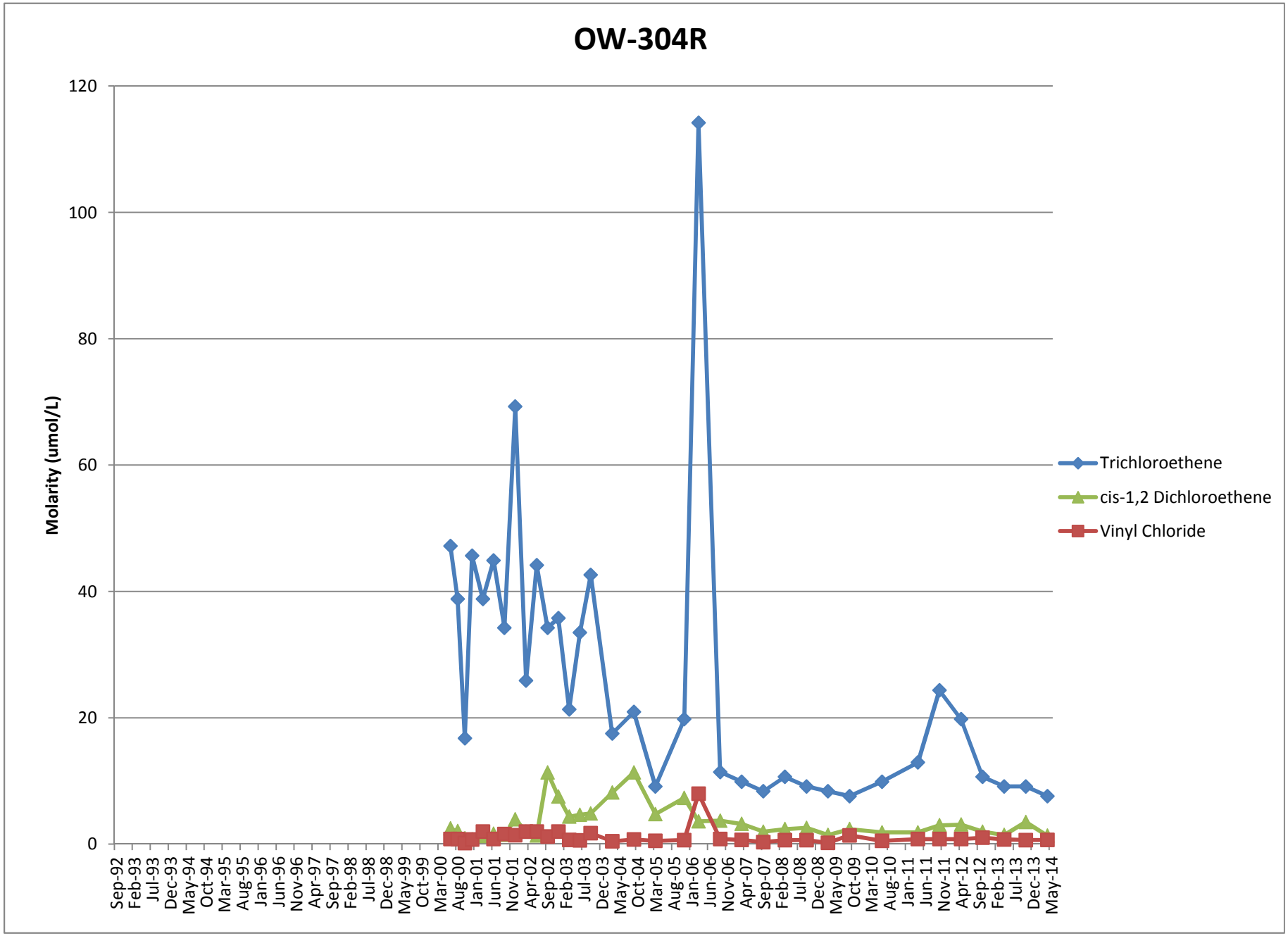
Dec-08
May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
Nov-11
Apr-12
Sep-12
Feb-13
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


OW-304L
Molarity (umol/L)
600
500
400
300
200
100
0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
Feb-98
Jul-98
Dec-98
May-99
Oct-99
Mar-00
Aug-00
Jan-01
Jun-01
Nov-01
Apr-02
Sep-02
Feb-03
Jul-03
Dec-03
May-04
Oct-04
Mar-05
Aug-05
Jan-06
Jun-06
Nov-06
Apr-07
Sep-07
Feb-08
Jul-08
Dec-08
May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
Nov-11
Apr-12
Sep-12
Feb-13
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


OW-304R
Molarity (umol/L)
120
100
80
60
40
20
0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
Feb-98
Jul-98
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May-99
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Aug-10
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Jun-11
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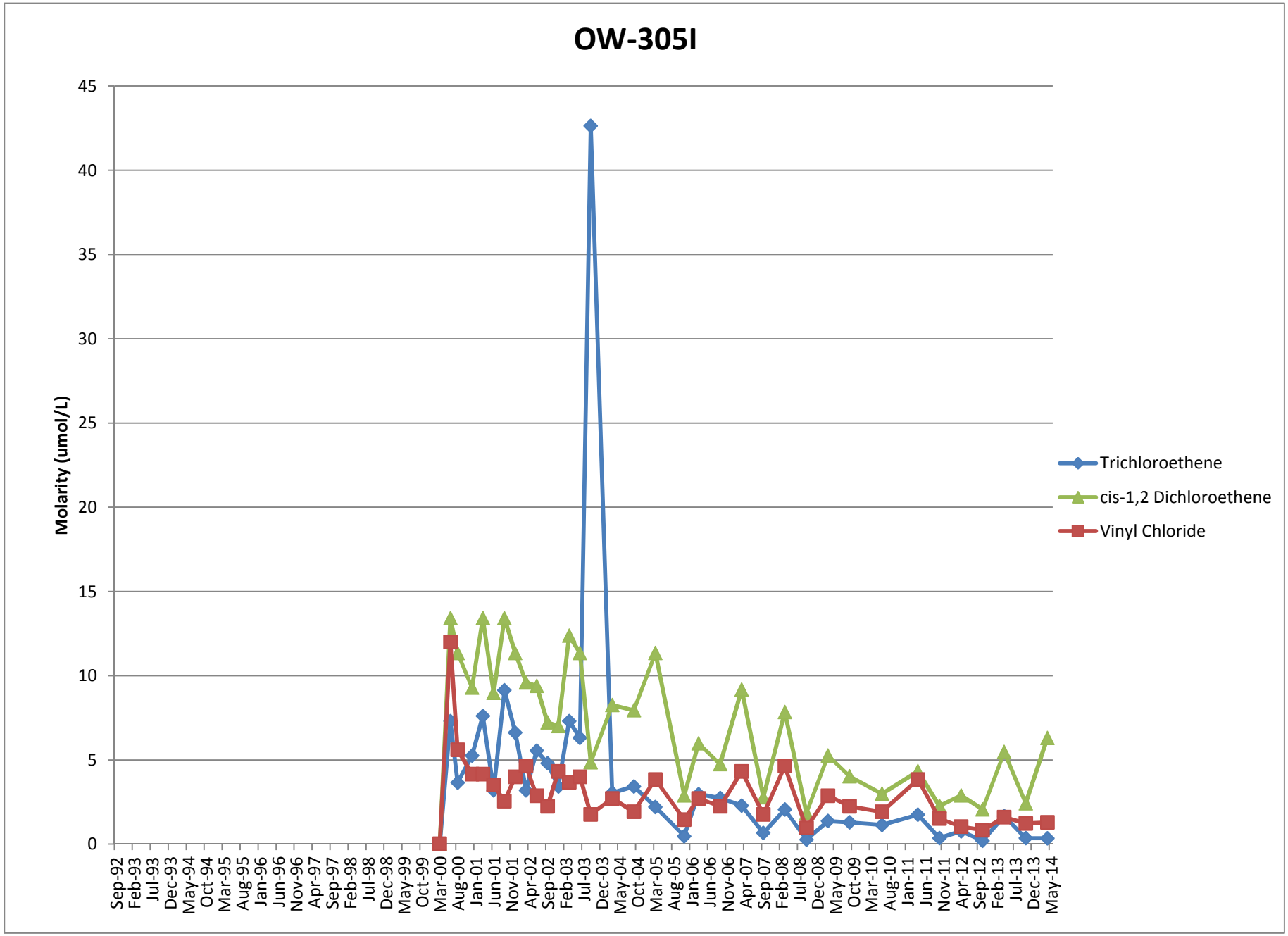
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


OW-305I
Molarity (umol/L)
45
40
35
30
25
20
15
10
5
0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
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May-99
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Mar-00
Aug-00
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Jun-01
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Apr-02
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Jan-06
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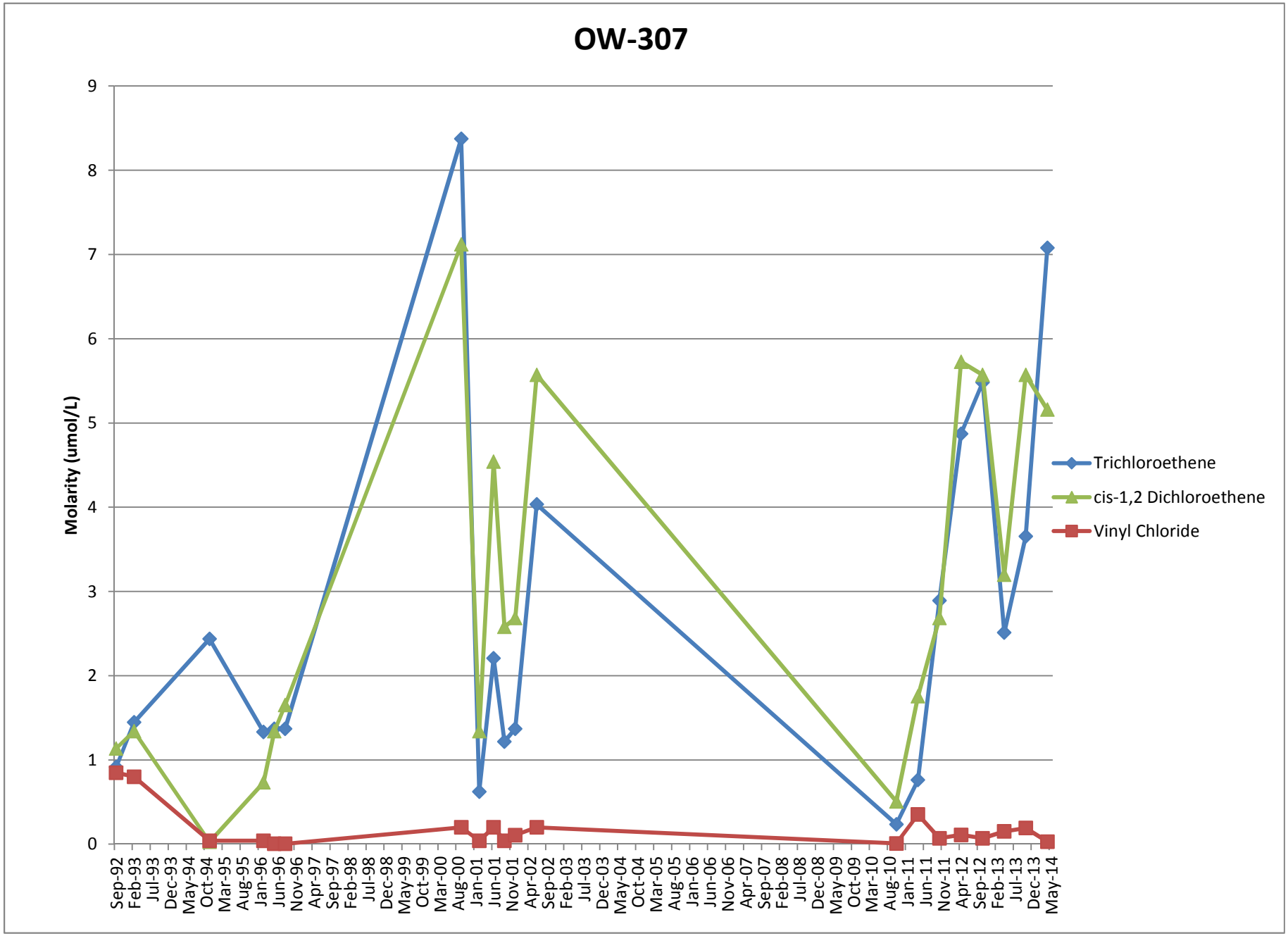
Jul-08
Dec-08
May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
Nov-11
Apr-12
Sep-12
Feb-13
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


OW-307
Molarity (umol/L)
0
1
2
3
4
5
6
7
8
9
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
Feb-98
Jul-98
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Aug-00
Jan-01
Jun-01
Nov-01
Apr-02
Sep-02
Feb-03
Jul-03
Dec-03
May-04
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Jan-06
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May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
Nov-11
Apr-12
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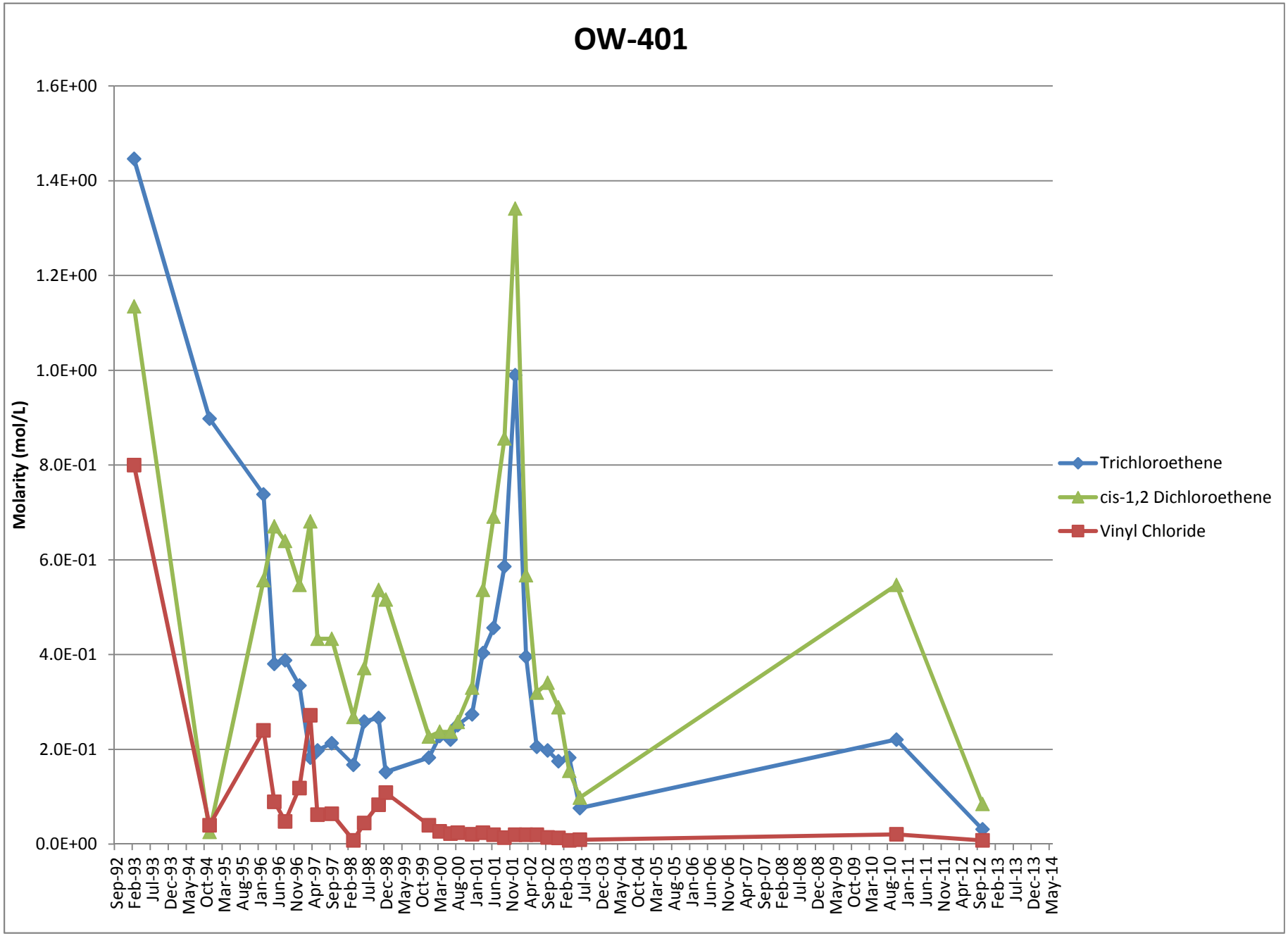
Feb-13
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride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Molarity (mol/L)
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1.4E+00
1.2E+00
1.0E+00
8.0E-01
6.0E-01
4.0E-01
2.0E-01
0.0E+00
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
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May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
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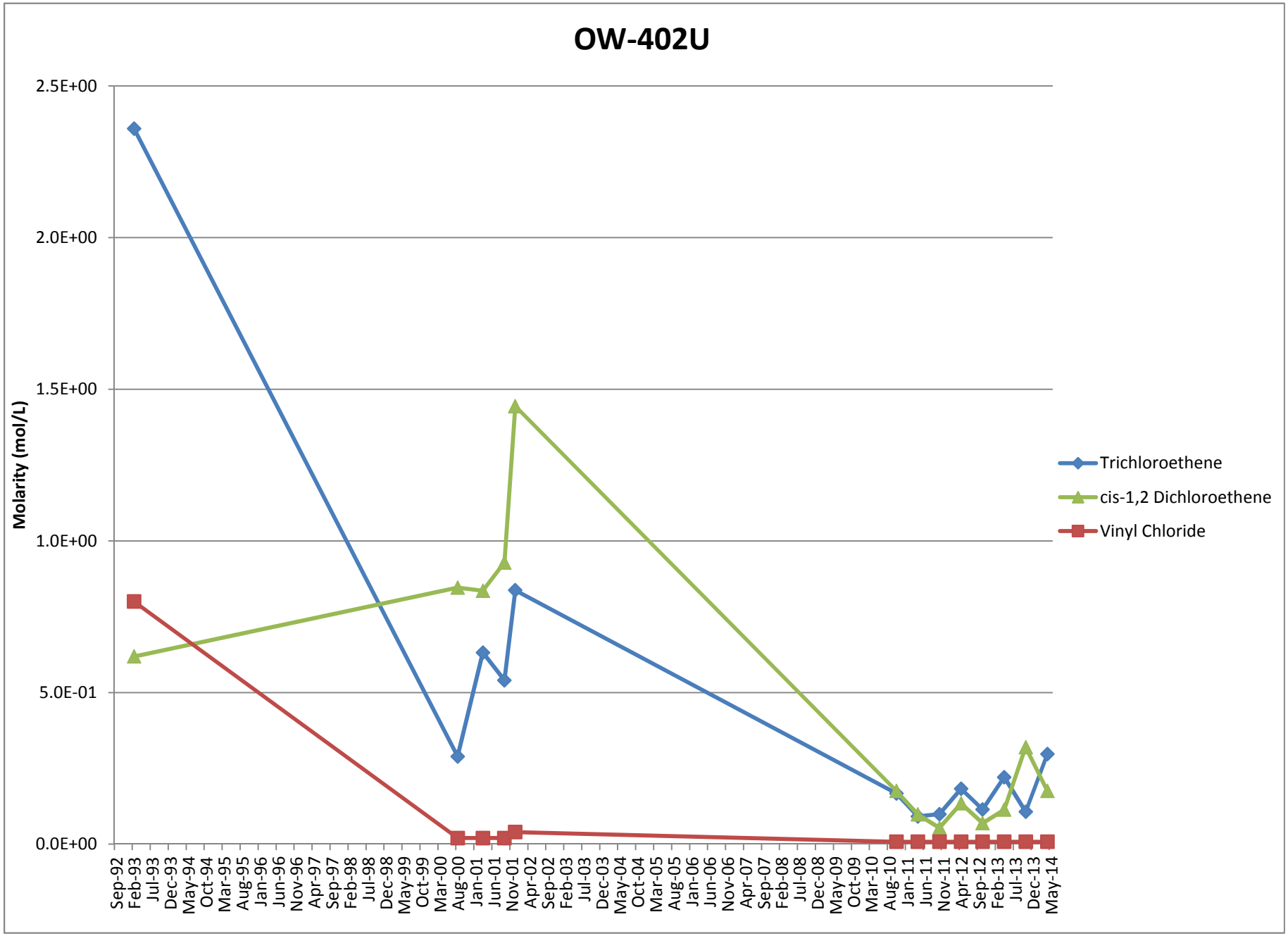
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride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Molarity (mol/L)
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2.0E+00
1.5E+00
1.0E+00
5.0E-01
0.0E+00
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
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Jun-11
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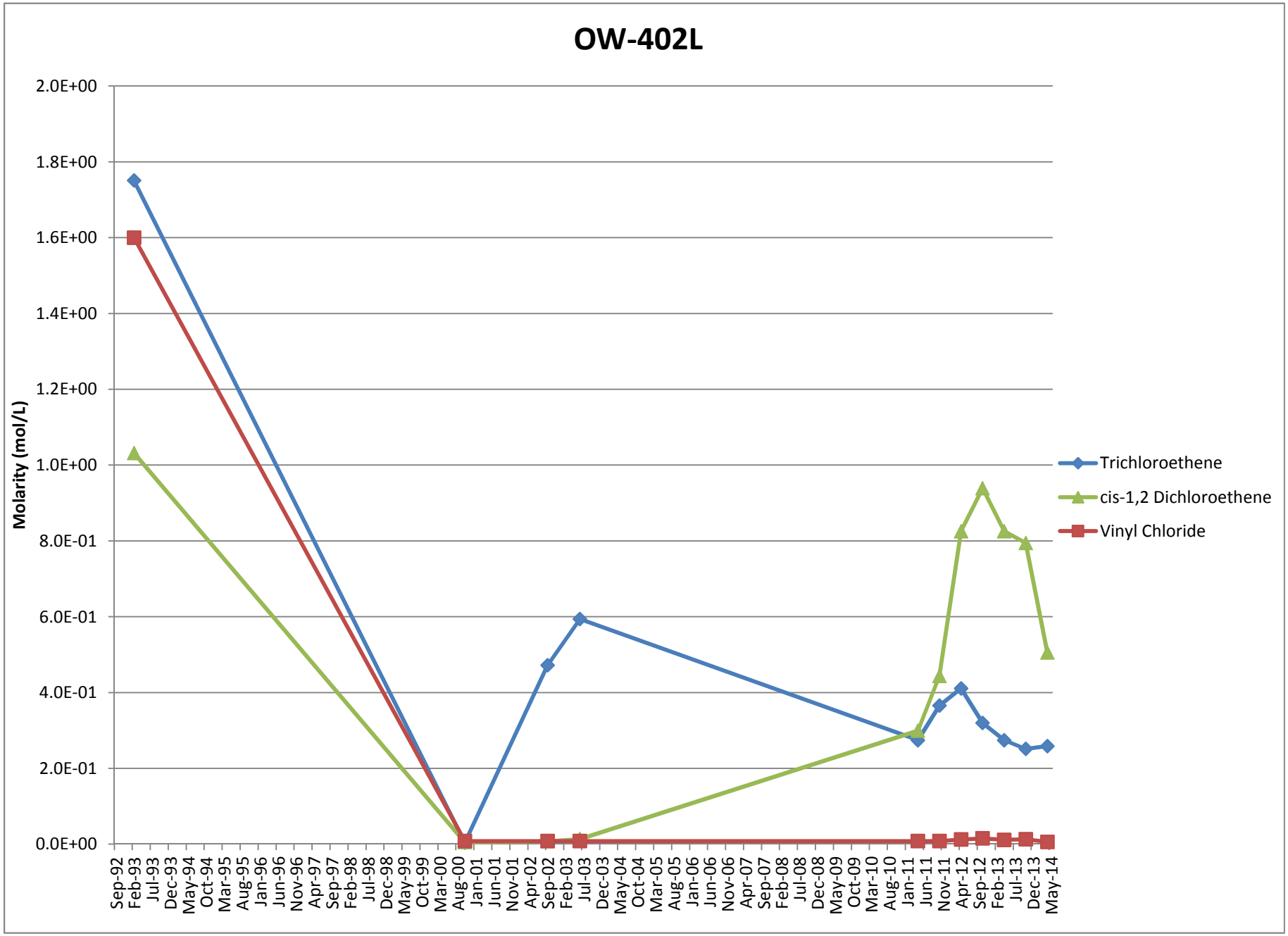
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


OW-402L
Molarity (mol/L)
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1.6E+00
1.4E+00
1.2E+00
1.0E+00
8.0E-01
6.0E-01
4.0E-01
2.0E-01
0.0E+00
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
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May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
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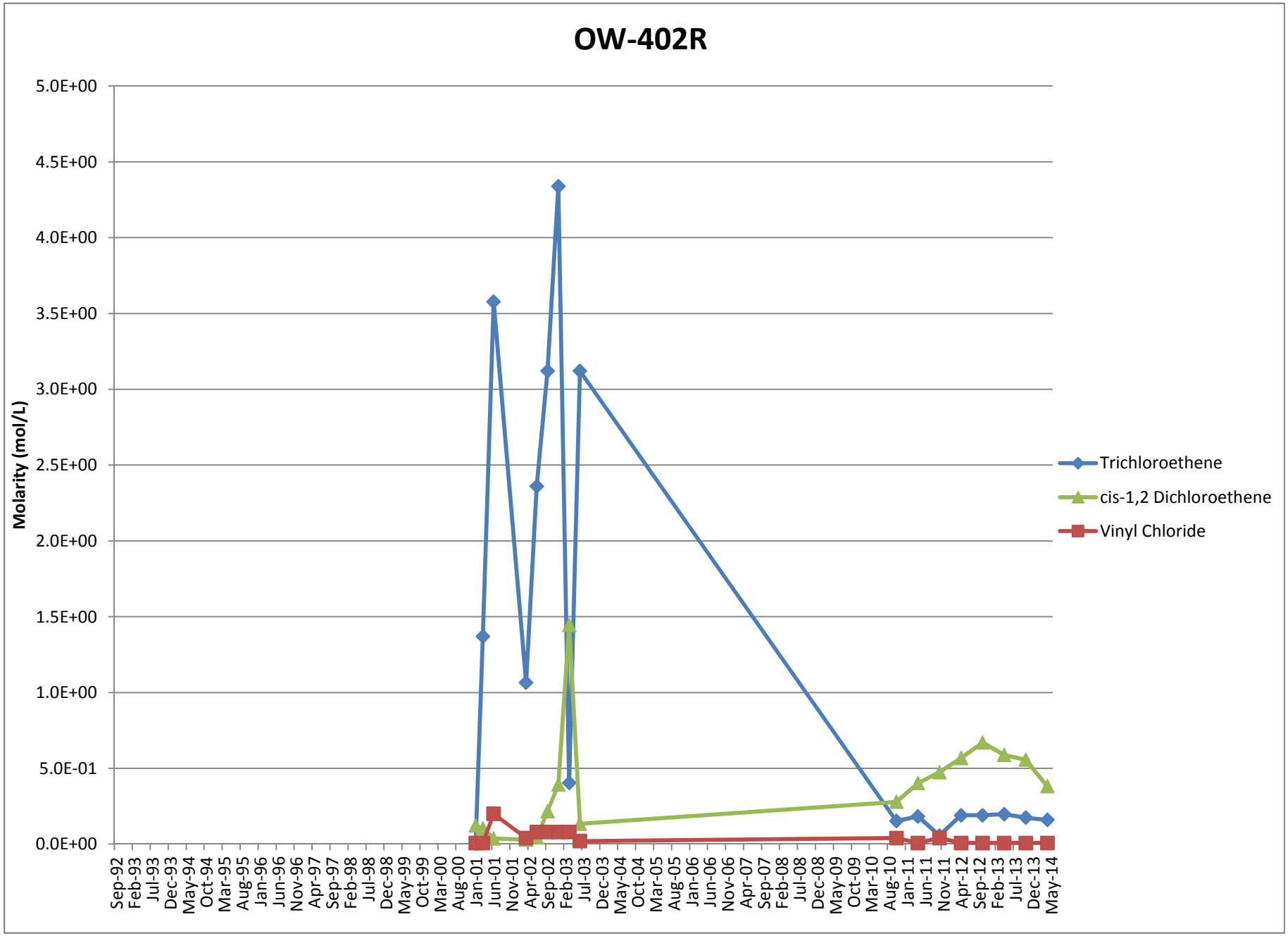
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


OW-402R
Molarity (mol/L)
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4.0E+00
3.5E+00
3.0E+00
2.5E+00
2.0E+00
1.5E+00
1.0E+00
5.0E-01
0.0E+00
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
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Aug-10
Jan-11
Jun-11
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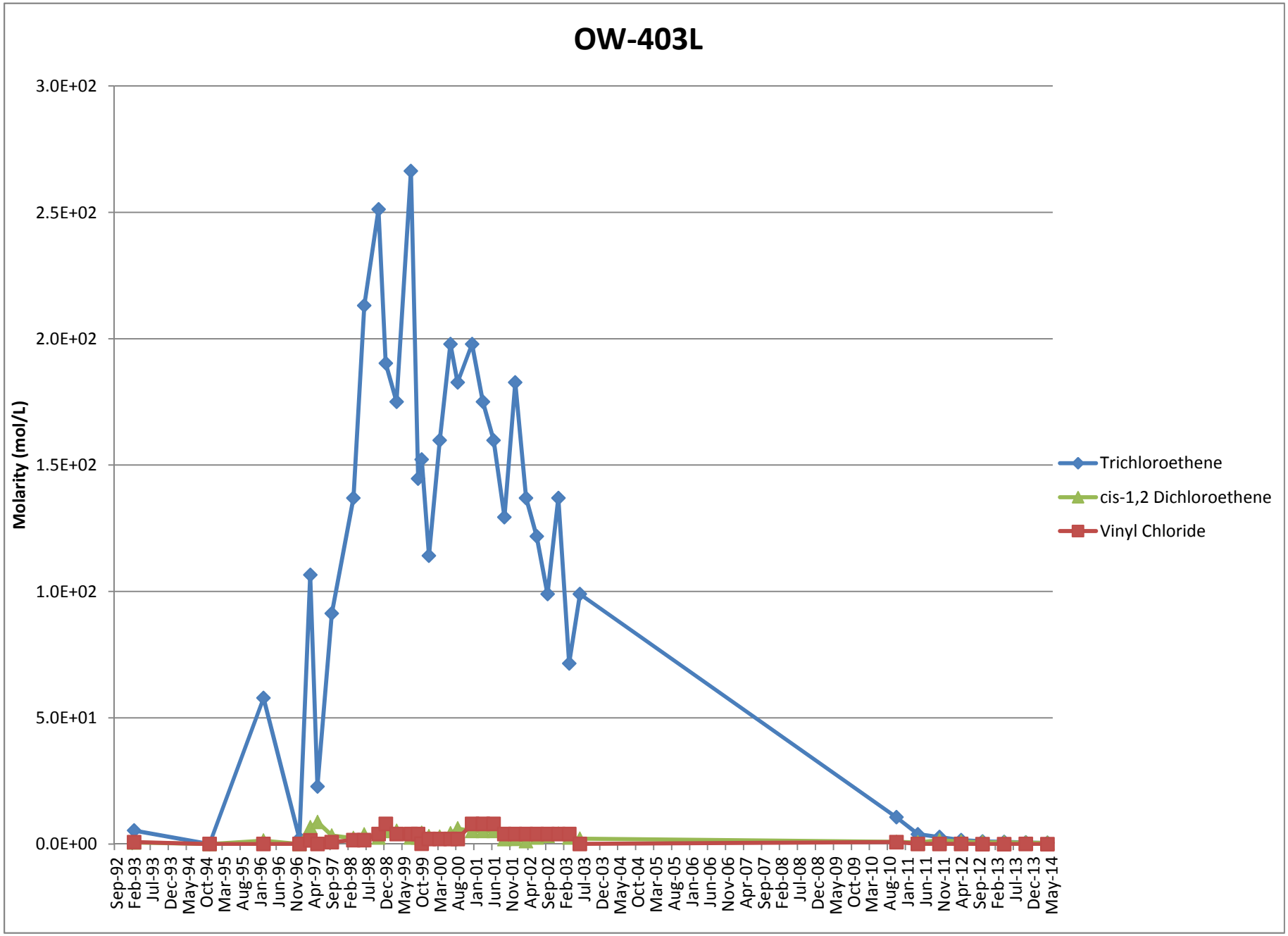
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


OW-403L
Molarity (mol/L)
3.0E+02
2.5E+02
2.0E+02
1.5E+02
1.0E+02
5.0E+01
0.0E+00
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
Feb-98
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May-09
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Mar-10
Aug-10
Jan-11
Jun-11
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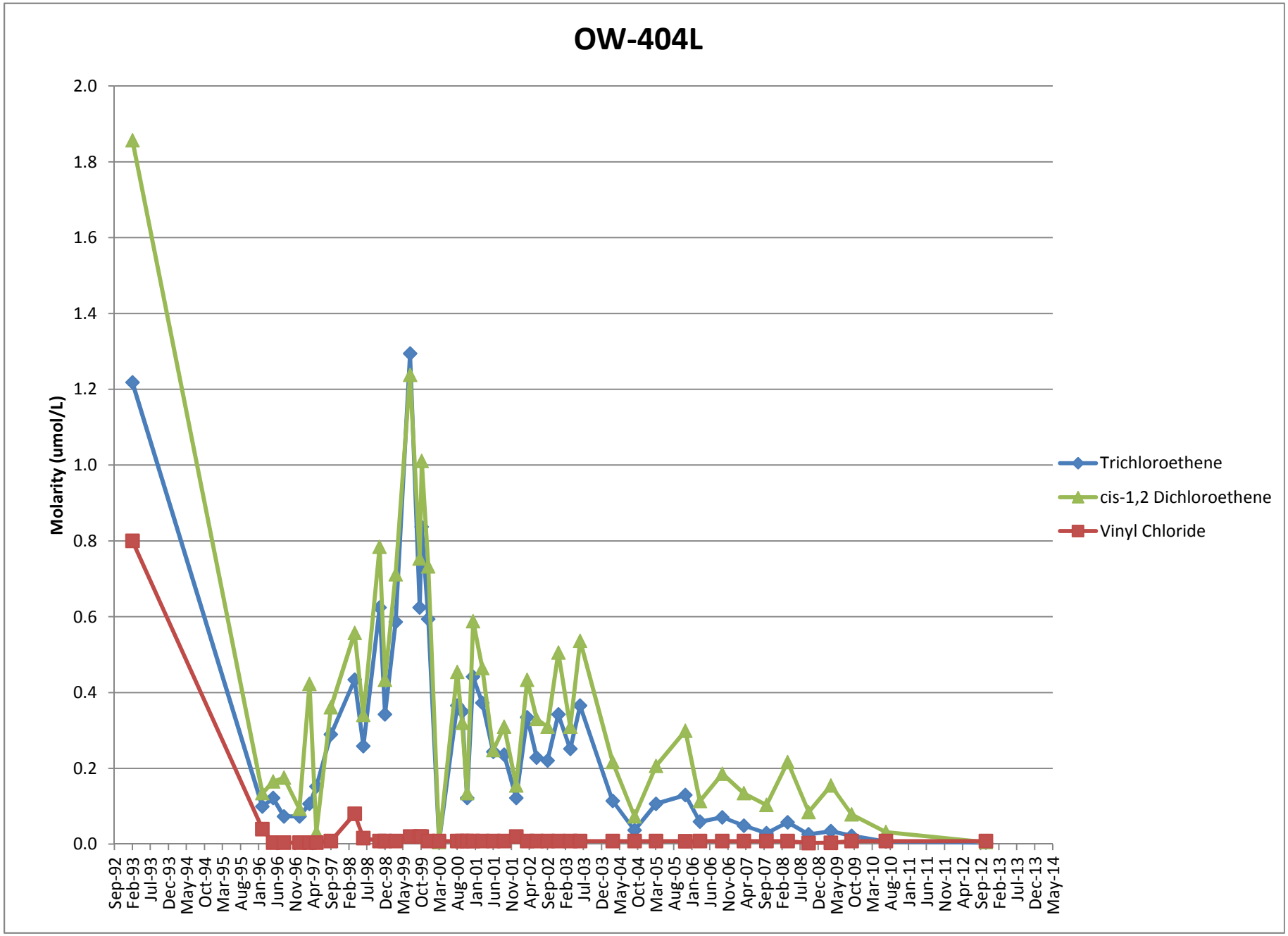
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


OW-404L
Molarity (umol/L)
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
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May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
Nov-11
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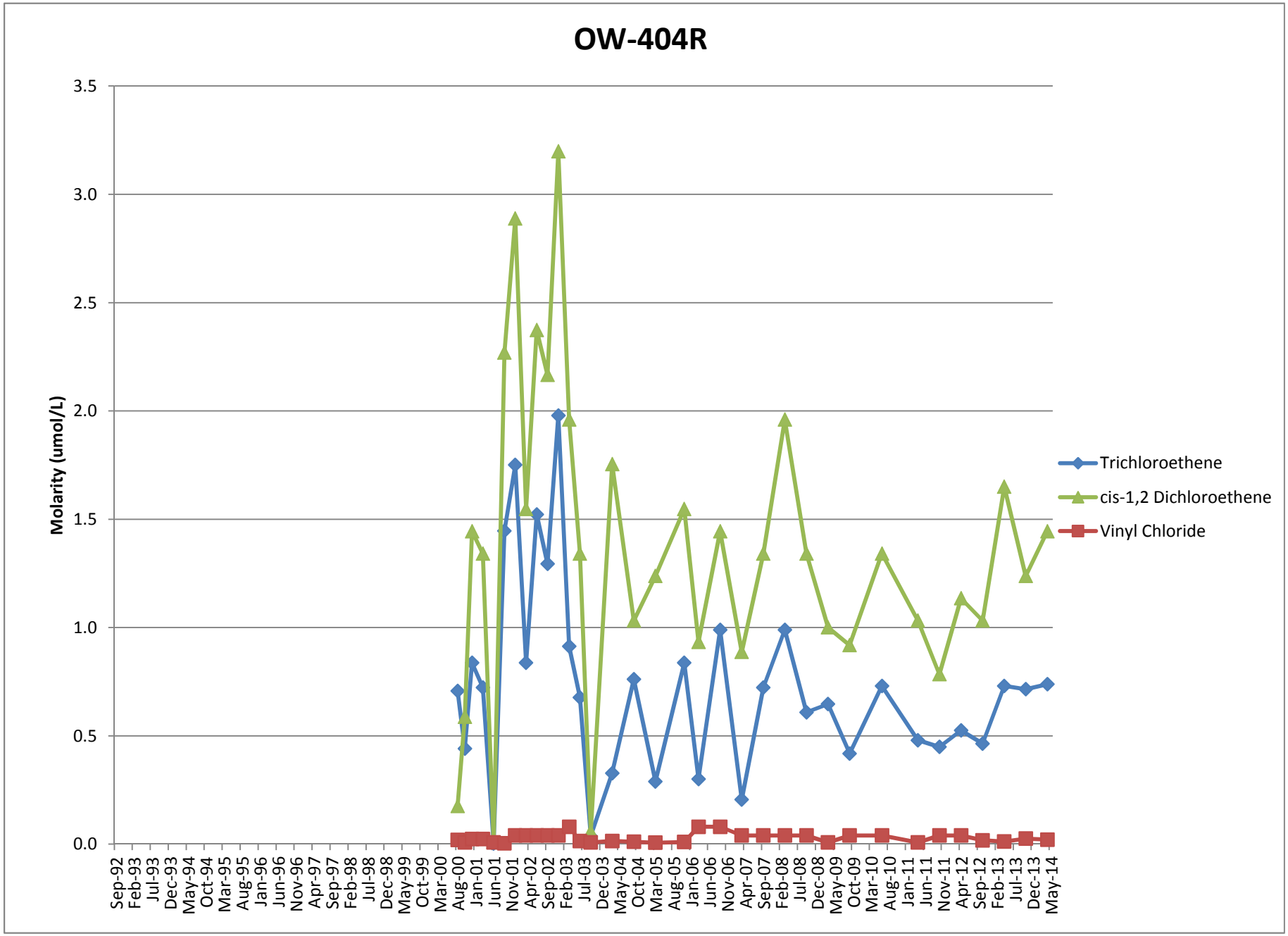
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


OW-404R
Molarity (umol/L)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
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Jan-11
Jun-11
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Jul-13
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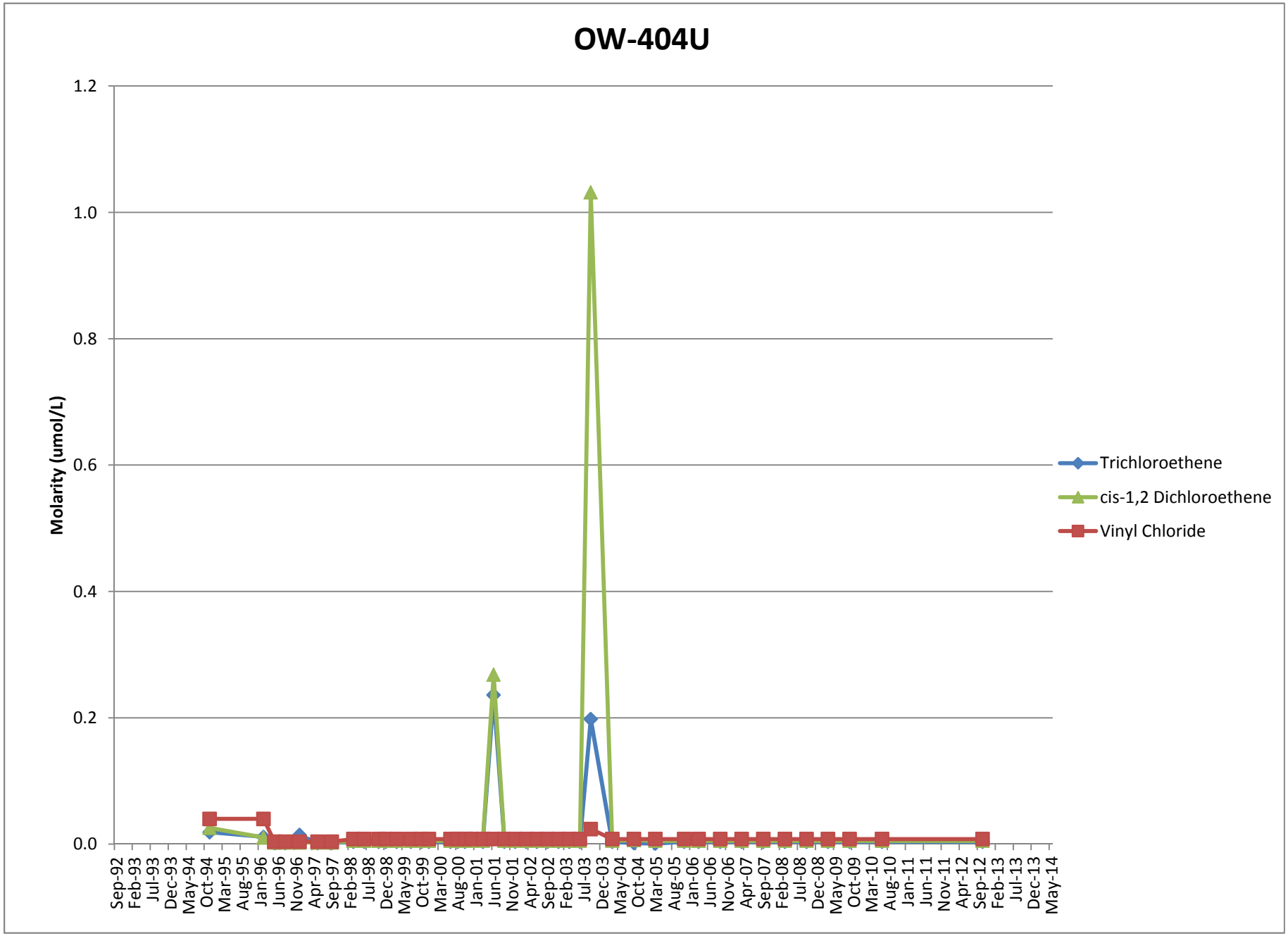
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


OW-404U
Molarity (umol/L)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
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May-09
Oct-09
Mar-10
Aug-10
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Jul-13
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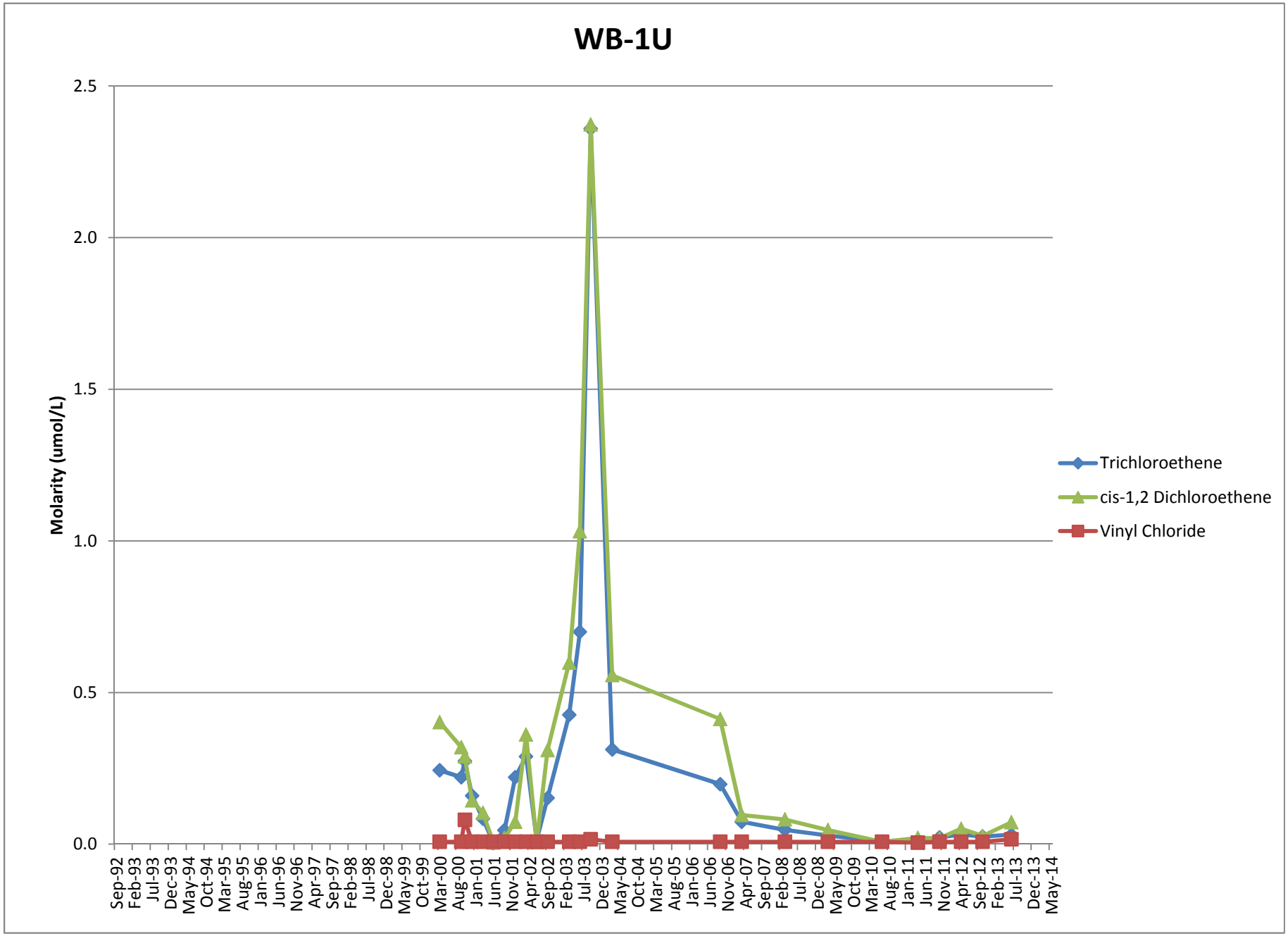
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


WB-1U
Molarity (umol/L)
2.5
2.0
1.5
1.0
0.5
0.0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
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Jun-11
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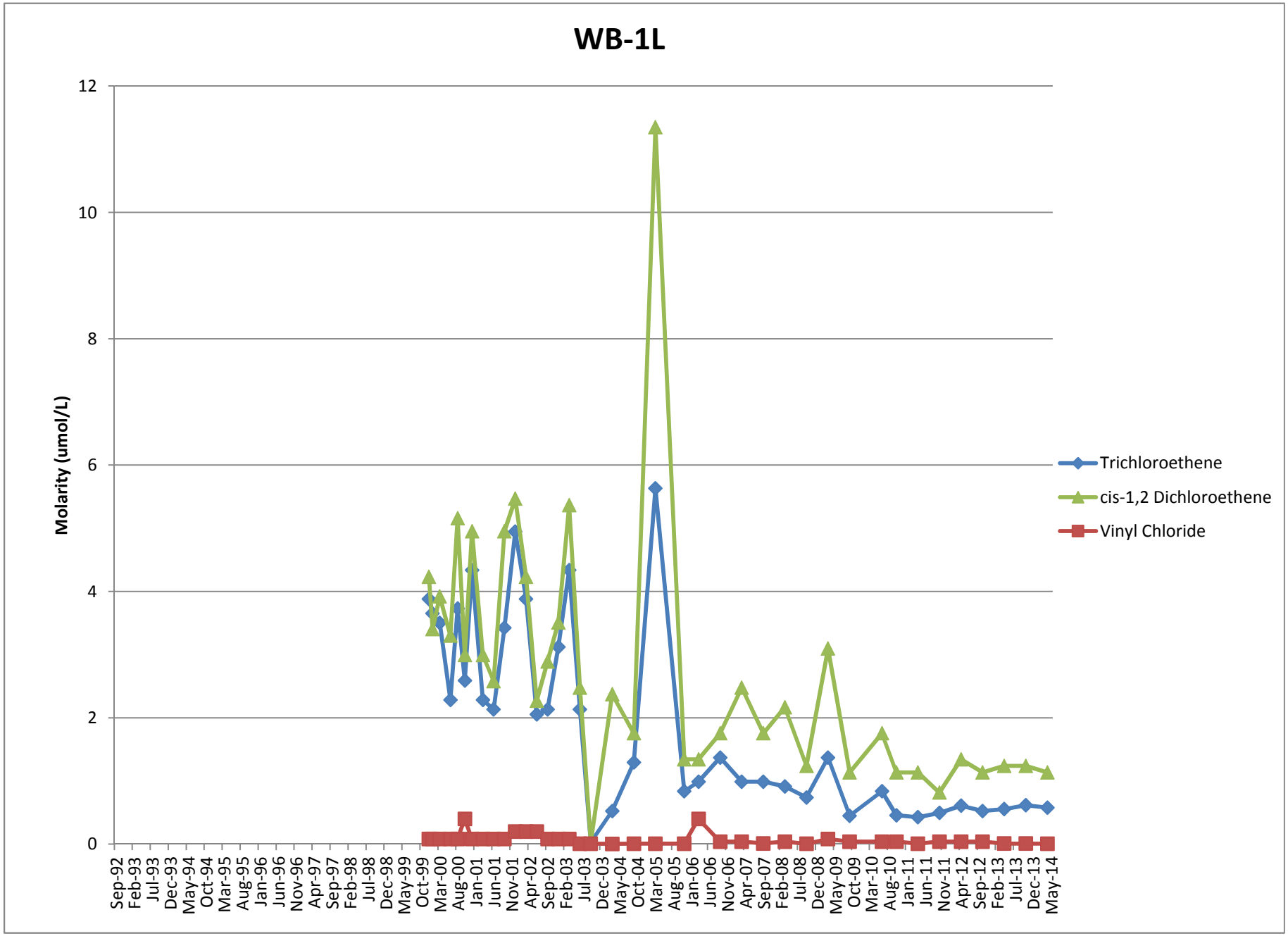
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


WB-1L
Molarity (umol/L)
0
2
4
6
8
10
12
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
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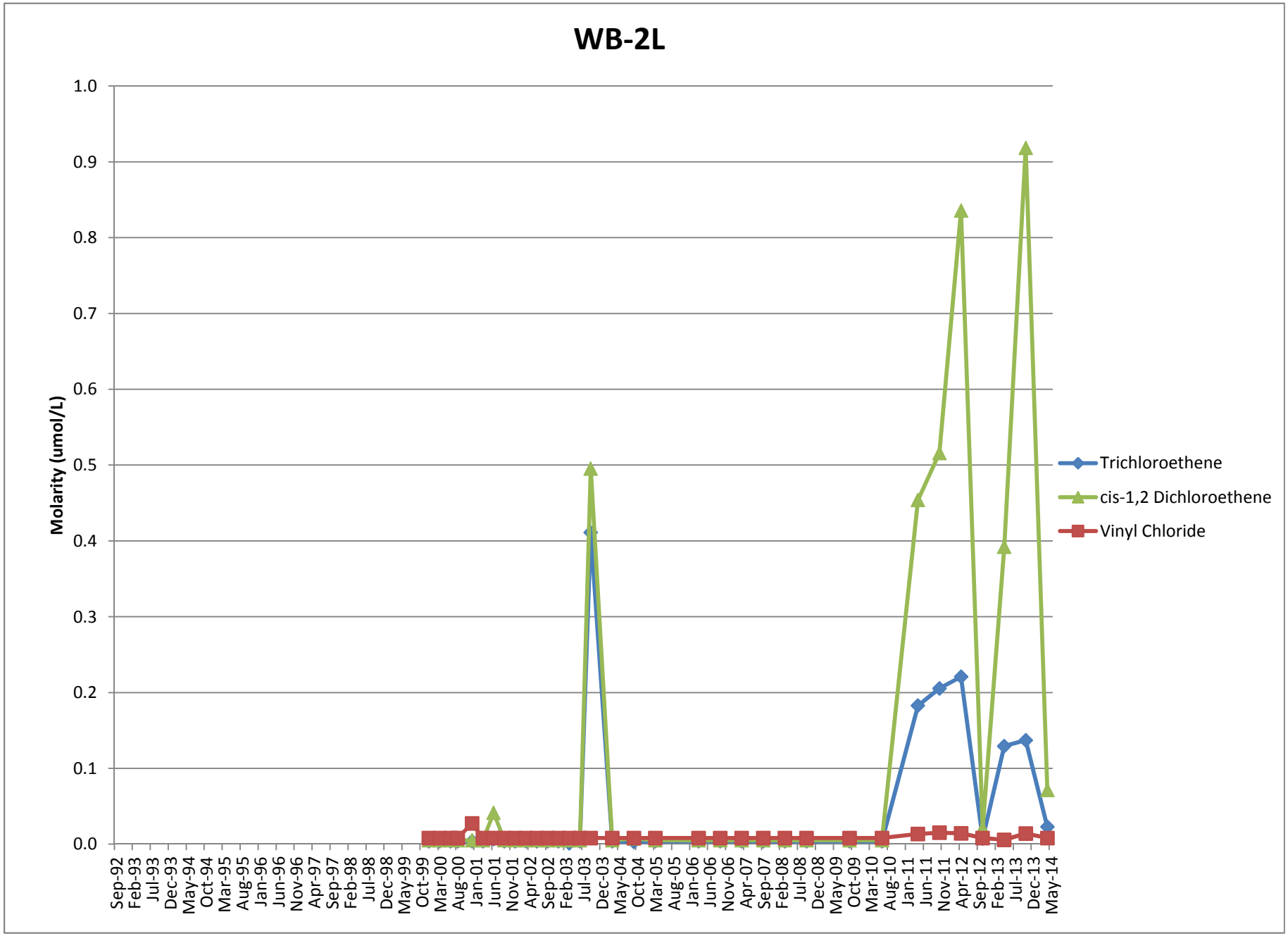
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


WB-2L
Molarity (umol/L)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
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Aug-10
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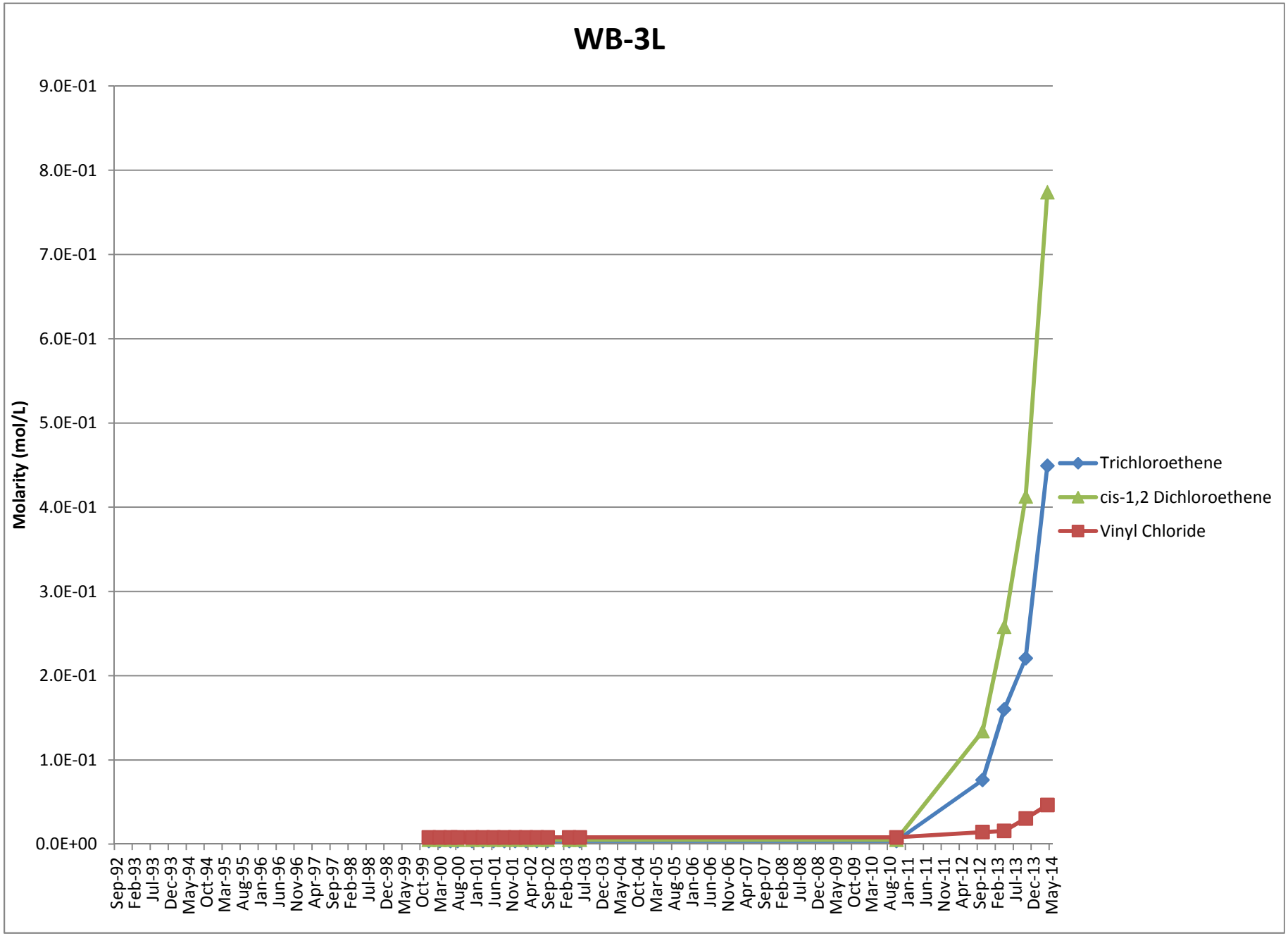
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride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Molarity (mol/L)
9.0E-01
8.0E-01
7.0E-01
6.0E-01
5.0E-01
4.0E-01
3.0E-01
2.0E-01
1.0E-01
0.0E+00
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
Apr-97
Sep-97
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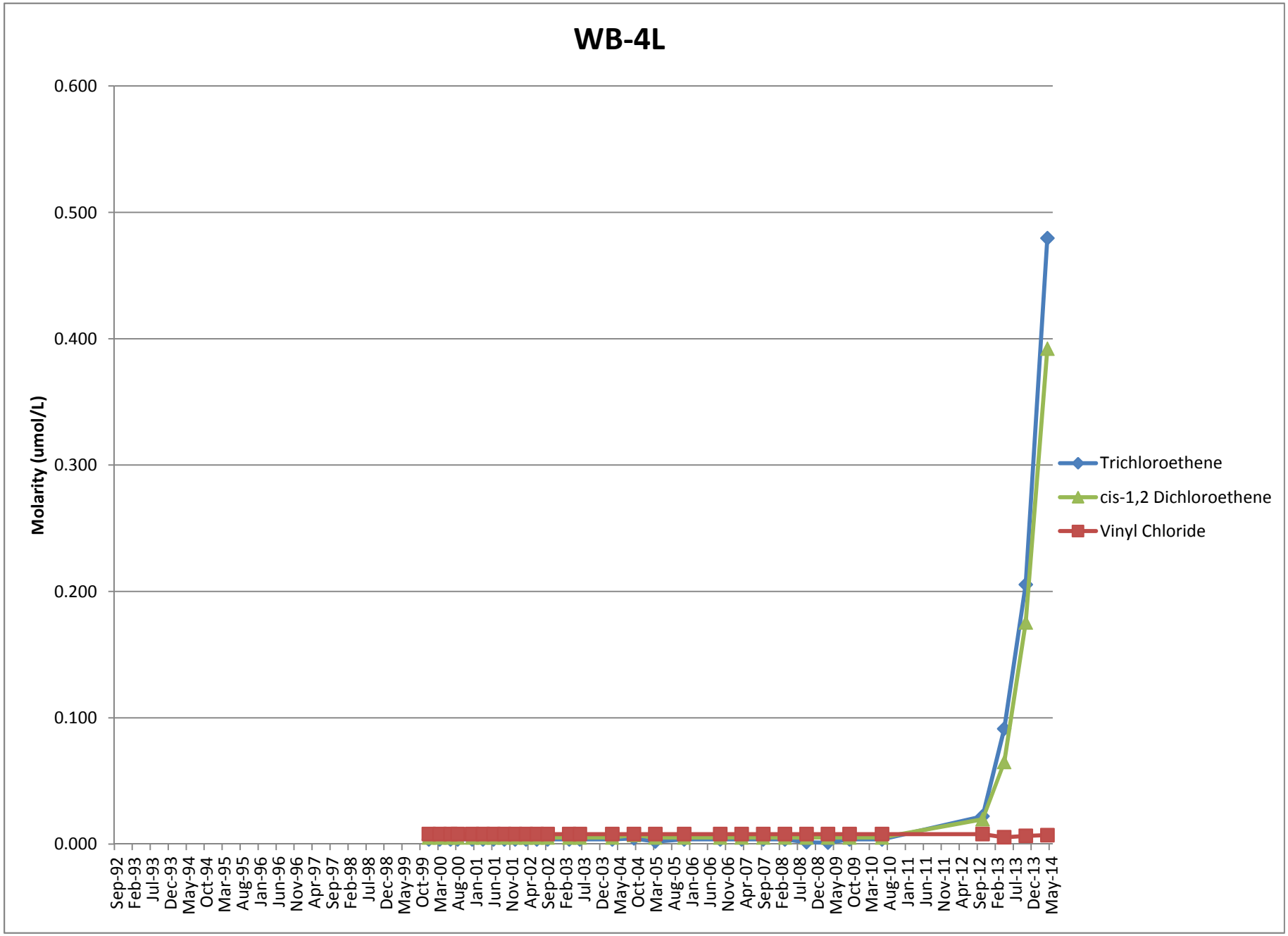
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride


WB-4L
Molarity (umol/L)
0.600
0.500
0.400
0.300
0.200
0.100
0.000
Sep-92
Feb-93
Jul-93
Dec-93
May-94
Oct-94
Mar-95
Aug-95
Jan-96
Jun-96
Nov-96
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Aug-10
Jan-11
Jun-11
Nov-11
Apr-12
Sep-12
Feb-13
Jul-13
Dec-13
May-14
Trichloroethene
cis-1,2 Dichloroethene
Vinyl Chloride

APPENDIX D

IB PARAMETER TREND ANALYSIS

Index of Intrinsic Biodegradation Parameters Trend Analysis Charts File No. 01.0024065.14
Hewlett-Packard Voluntary Remediation Project
San German, Puerto Rico

Total Organic Carbon: Fill/Alluvium	Page 1
Total Organic Carbon: Saprolite	Page 2
Total Organic Carbon: Bedrock	Page 3
Dissolved Iron: Fill/Alluvium	Page 4
Dissolved Iron: Saprolite	Page 5
Dissolved Iron: Bedrock	Page 6
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Ethane: Saprolite	Page 14
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Ethene: Saprolite	Page 17
Ethene: Bedrock	Page 18
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Dissolved Oxygen: Saprolite	Page 26
Dissolved Oxygen: Bedrock	Page 27

Oxidation-Reduction Potential: Fill/Alluvium Page 28

Oxidation-Reduction Potential: Saprolite Page 29

Oxidation-Reduction Potential: Bedrock Page 30

pH: Fill/Alluvium Page 31

pH: Saprolite Page 32

pH: Bedrock Page 33

Notes:

1. In instances where a constituent was not detected, half of the reporting limit was used as the concentration.
2. Data that were reported with qualifiers were treated as if they were not reported with qualifiers in this analysis. In general, this led to a more conservative analysis.
3. For ethene and ethane, the analysis was based primarily on non-detect and qualified results.

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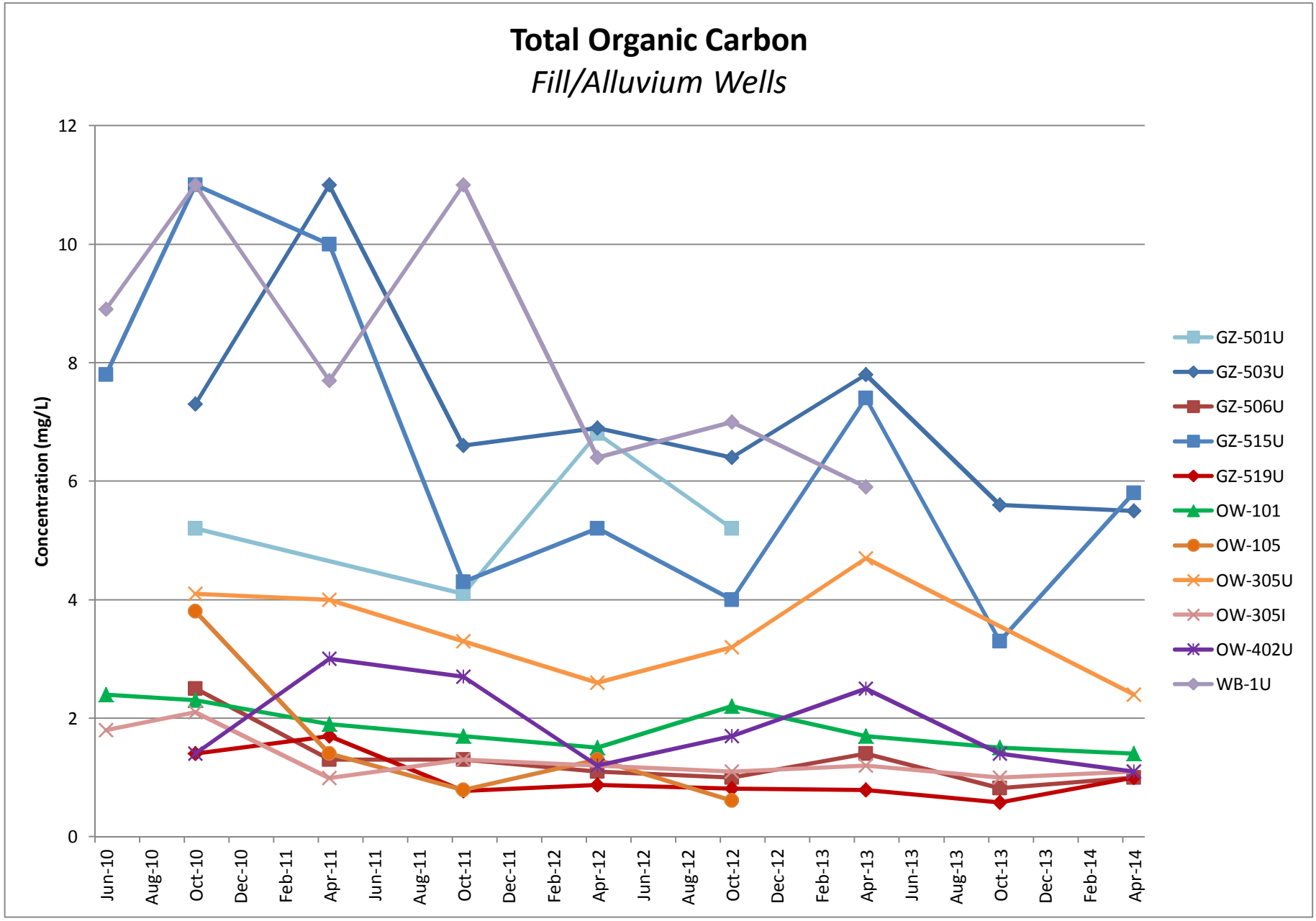
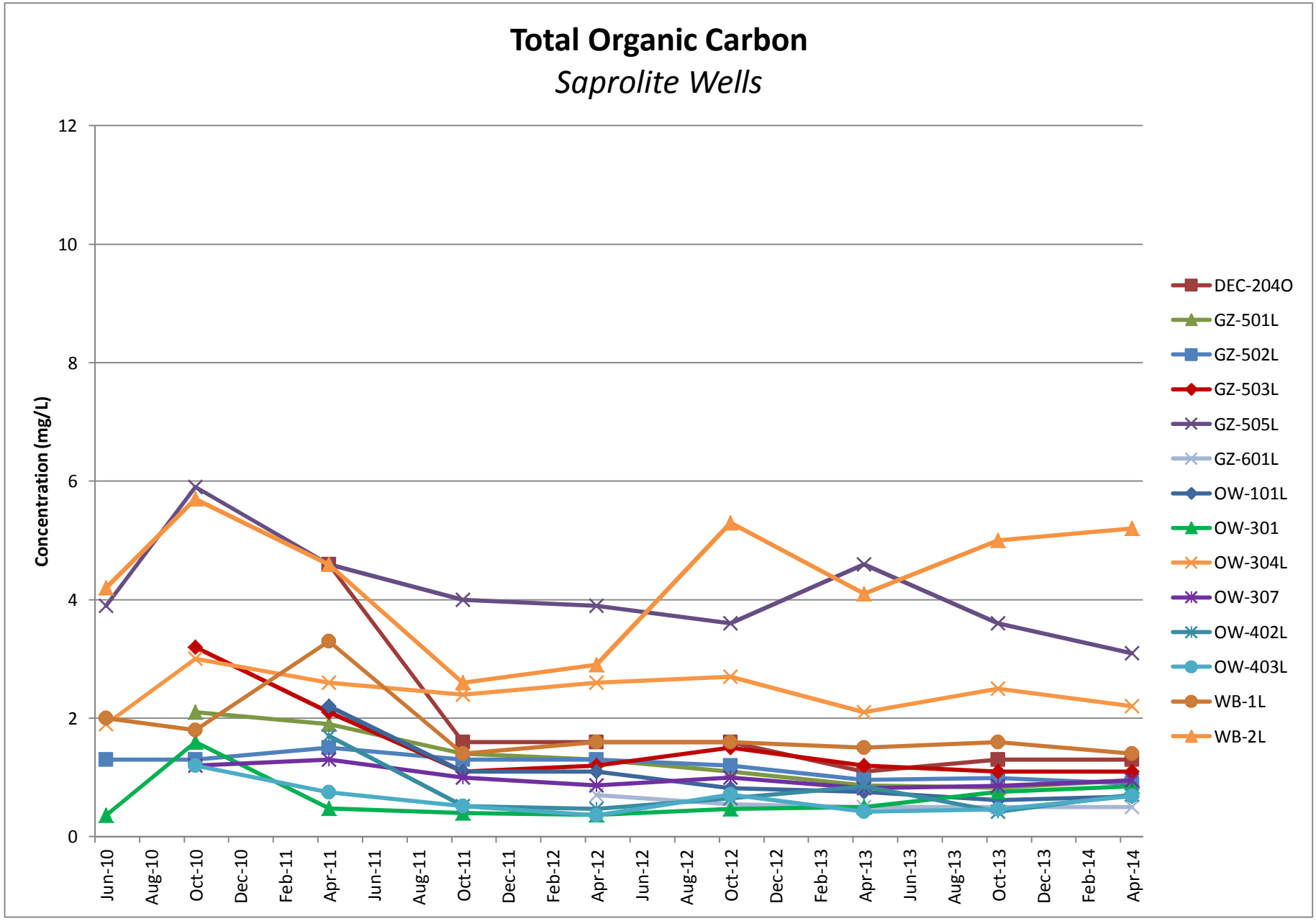
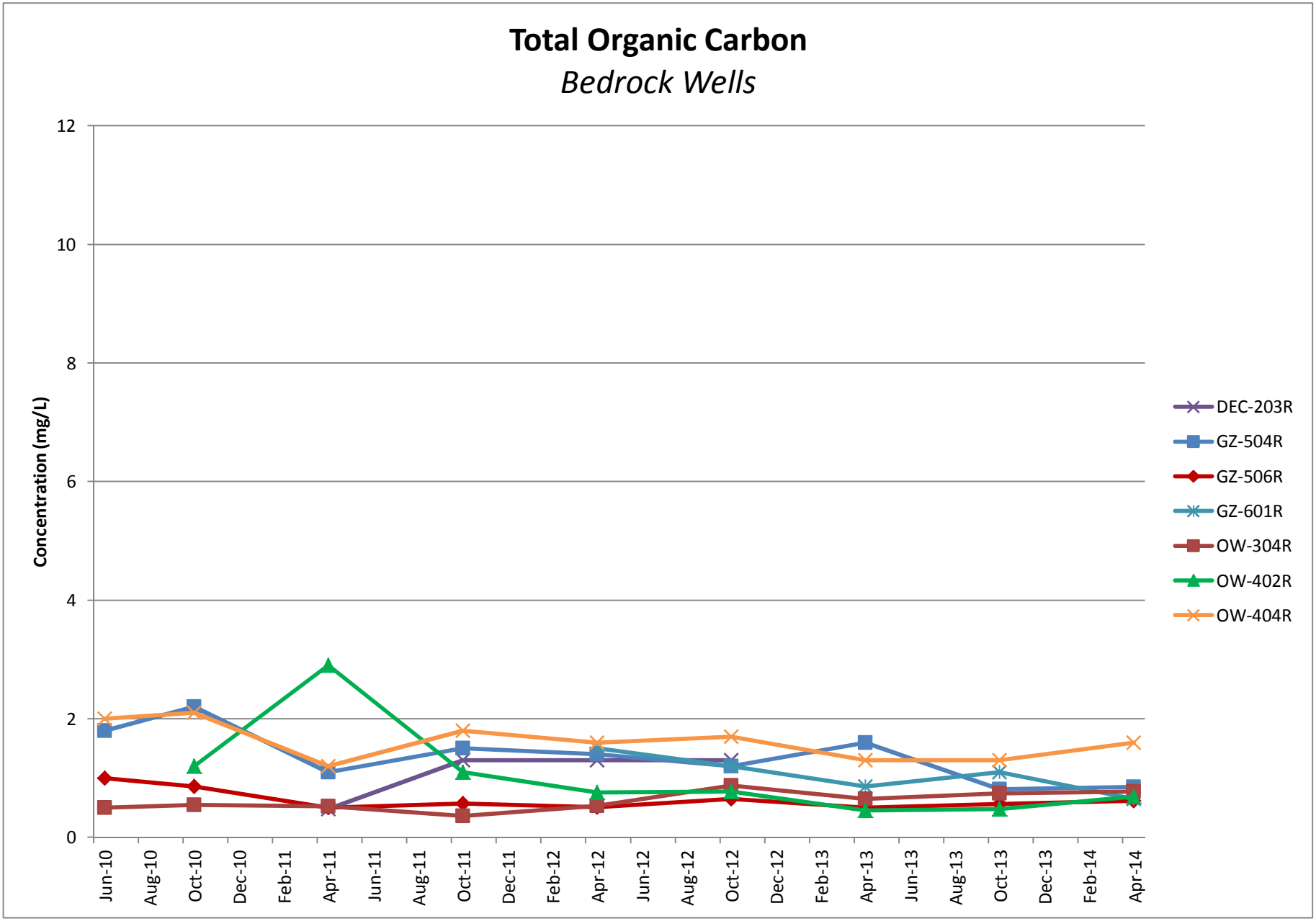
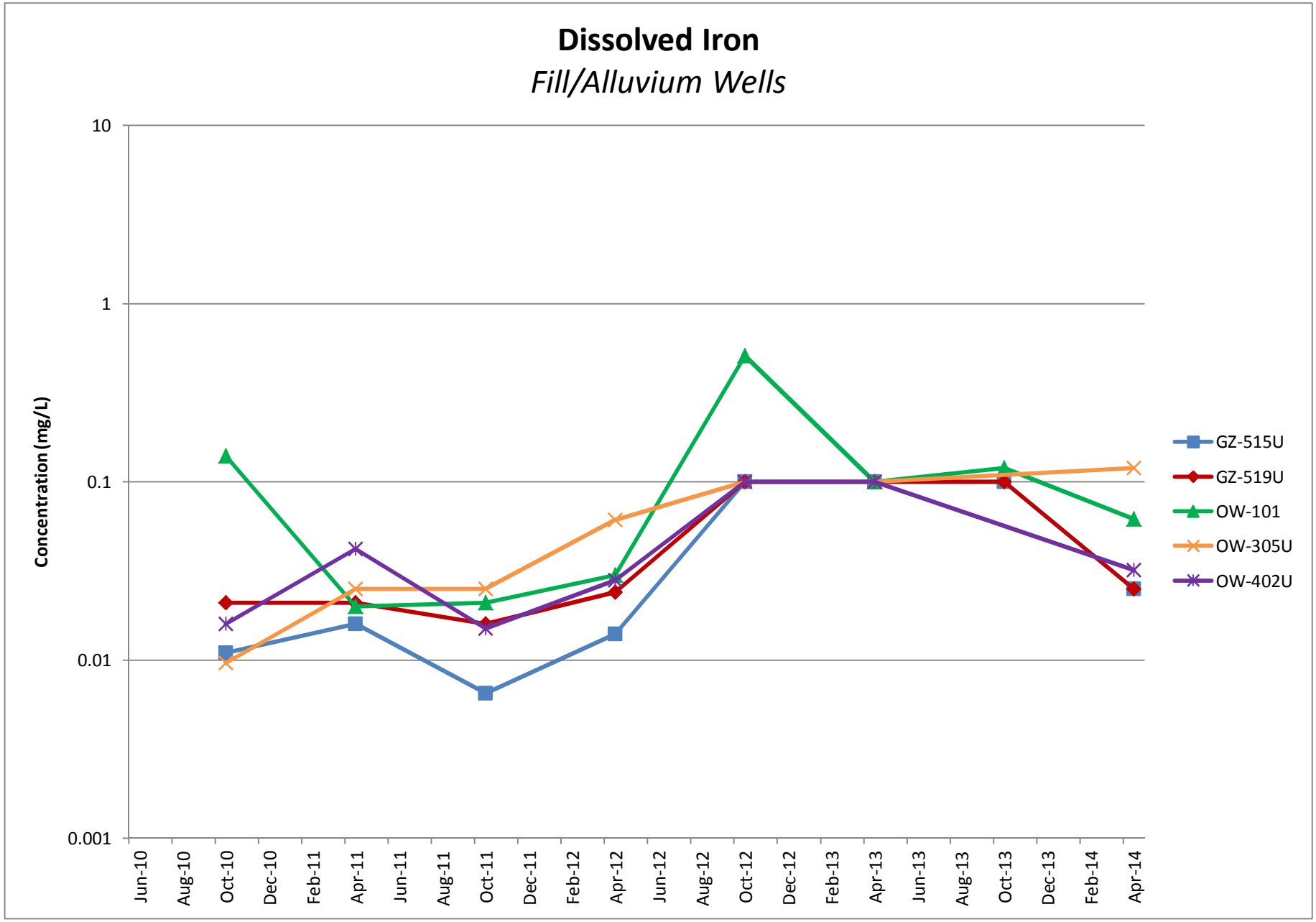

Total Organic Carbon
Fill/Alluvium Wells
Concentration (mg/L)
0
2
4
6
8
10
12
Jun-10
Aug-10
Oct-10
Dec-10
Feb-11
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
Jun-13
Aug-13
Oct-13
Dec-13
Feb-14
Apr-14
GZ-501U
GZ-503U
GZ-506U
GZ-515U
GZ-519U
OW-101
OW-105
OW-305U
OW-305I
OW-402U
WB-1U


Total Organic Carbon
Saprolite Wells
Concentration (mg/L)
0
2
4
6
8
10
12
Jun-10
Aug-10
Oct-10
Dec-10
Feb-11
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
Jun-13
Aug-13
Oct-13
Dec-13
Feb-14
Apr-14
DEC-204O
GZ-501L
GZ-502L
GZ-503L
GZ-505L
GZ-601L
OW-101L
OW-301
OW-304L
OW-307
OW-402L
OW-403L
WB-1L
WB-2L


Total Organic Carbon
Bedrock Wells
Concentration (mg/L)
12
10
8
6
4
2
0
Jun-10
Aug-10
Oct-10
Dec-10
Feb-11
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
Jun-13
Aug-13
Oct-13
Dec-13
Feb-14
Apr-14
DEC-203R
GZ-504R
GZ-506R
GZ-601R
OW-304R
OW-402R
OW-404R


Dissolved Iron
Fill/Alluvium Wells
Concentration (mg/L)
10
1
0.1
0.01
0.001
Jun-10
Aug-10
Oct-10
Dec-10
Feb-11
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
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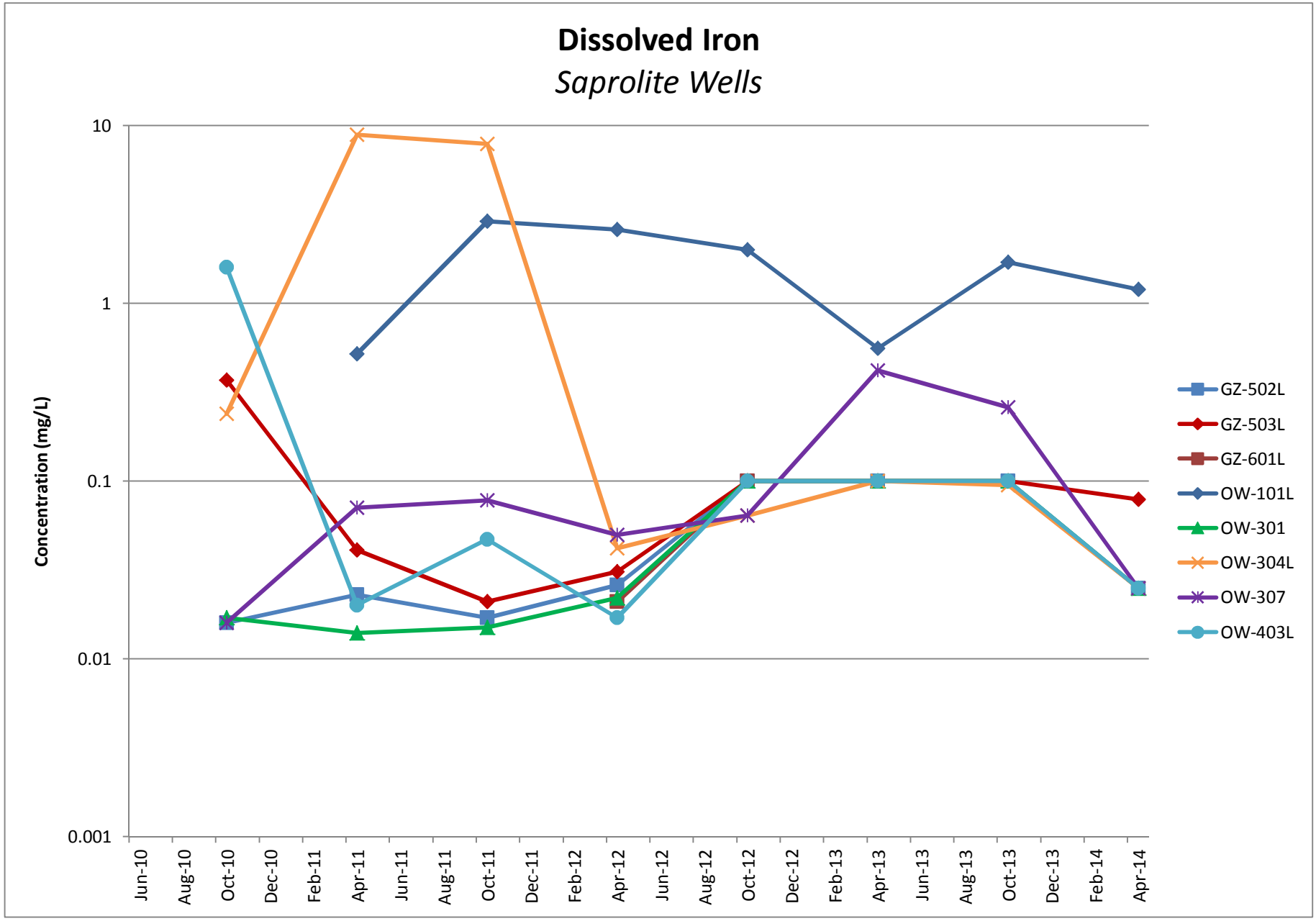
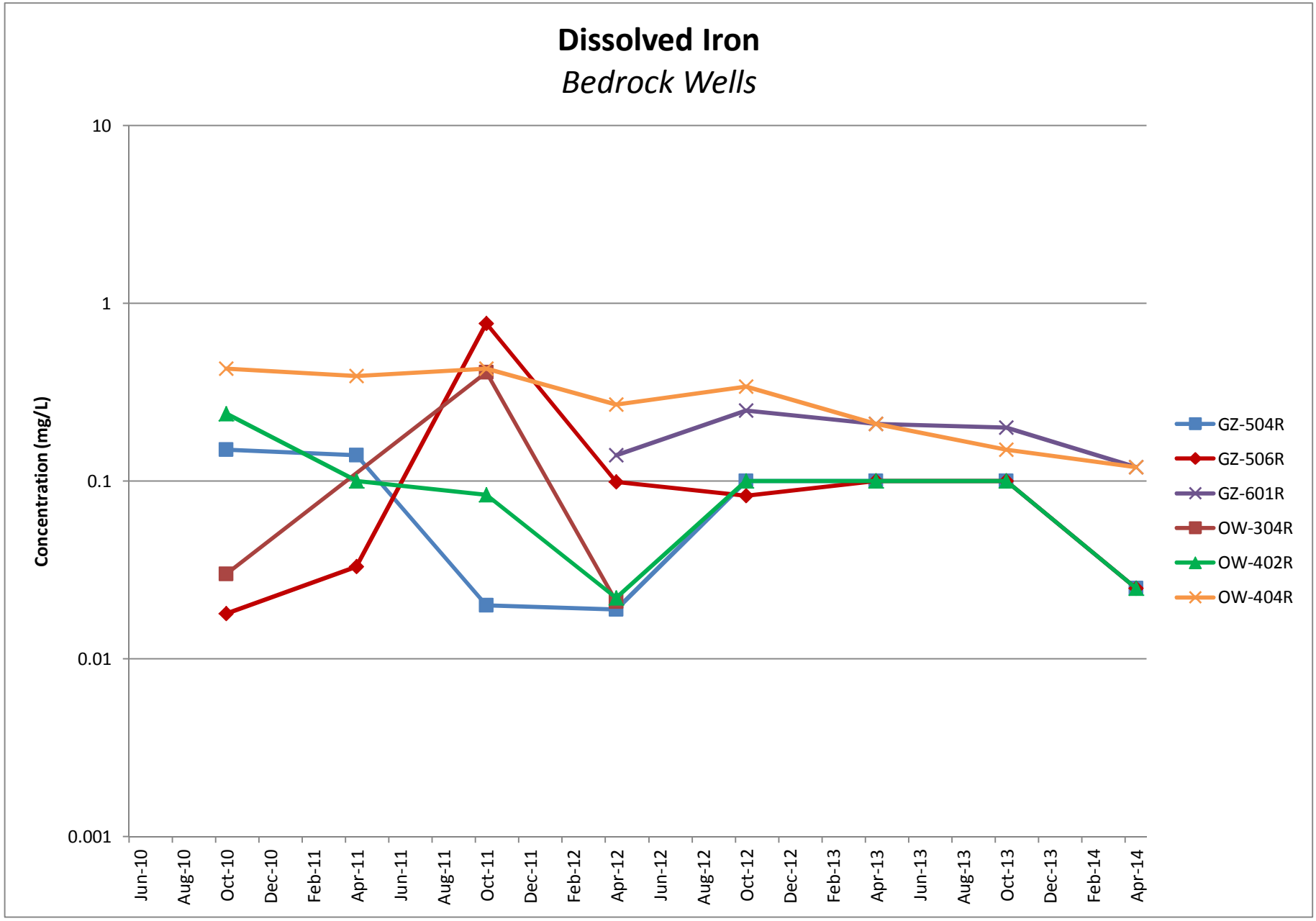
OW-101
OW-305U
OW-402U


Dissolved Iron
Saprolite Wells
Concentration (mg/L)
10
1
0.1
0.01
0.001
Jun-10
Aug-10
Oct-10
Dec-10
Feb-11
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
Jun-13
Aug-13
Oct-13
Dec-13
Feb-14
Apr-14
GZ-502L
GZ-503L
GZ-601L
OW-101L
OW-301
OW-304L
OW-307
OW-403L


Dissolved Iron
Bedrock Wells
Concentration (mg/L)
10
1
0.1
0.01
0.001
Jun-10
Aug-10
Oct-10
Dec-10
Feb-11
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
Jun-13
Aug-13
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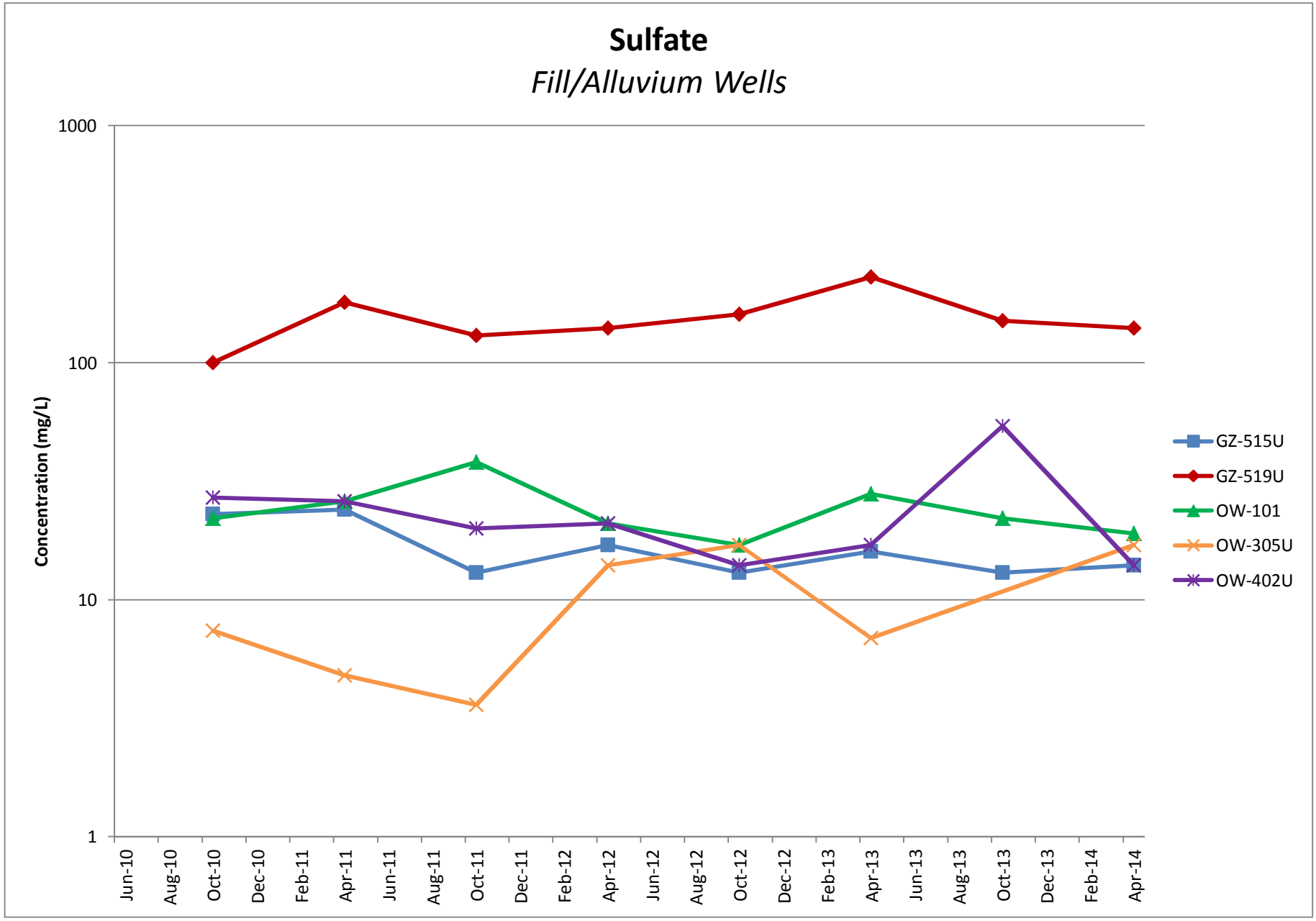
OW-304R
OW-402R
OW-404R


Sulfate
Fill/Alluvium Wells
Concentration (mg/L)
1000
100
10
1
Jun-10
Aug-10
Oct-10
Dec-10
Feb-11
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
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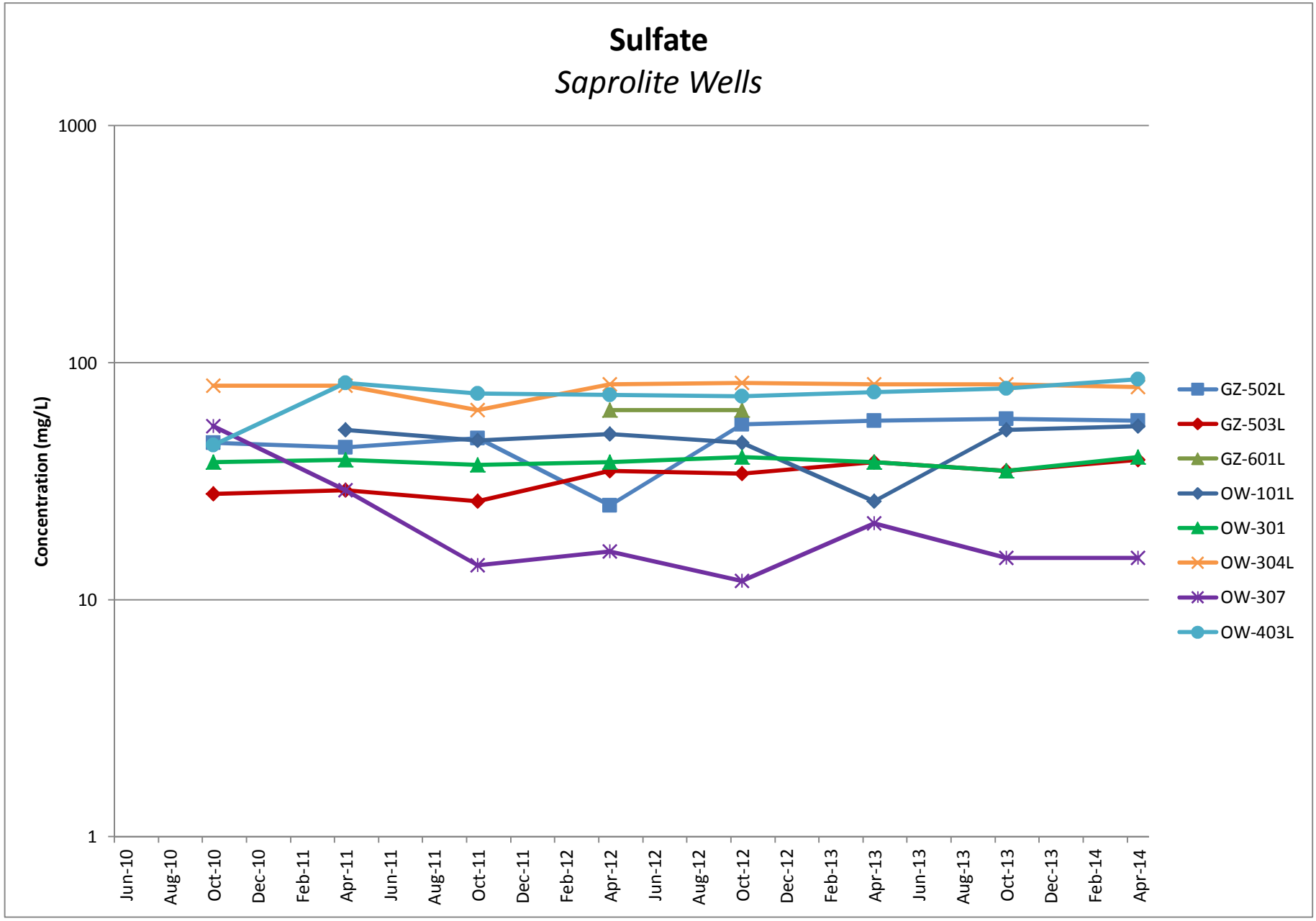
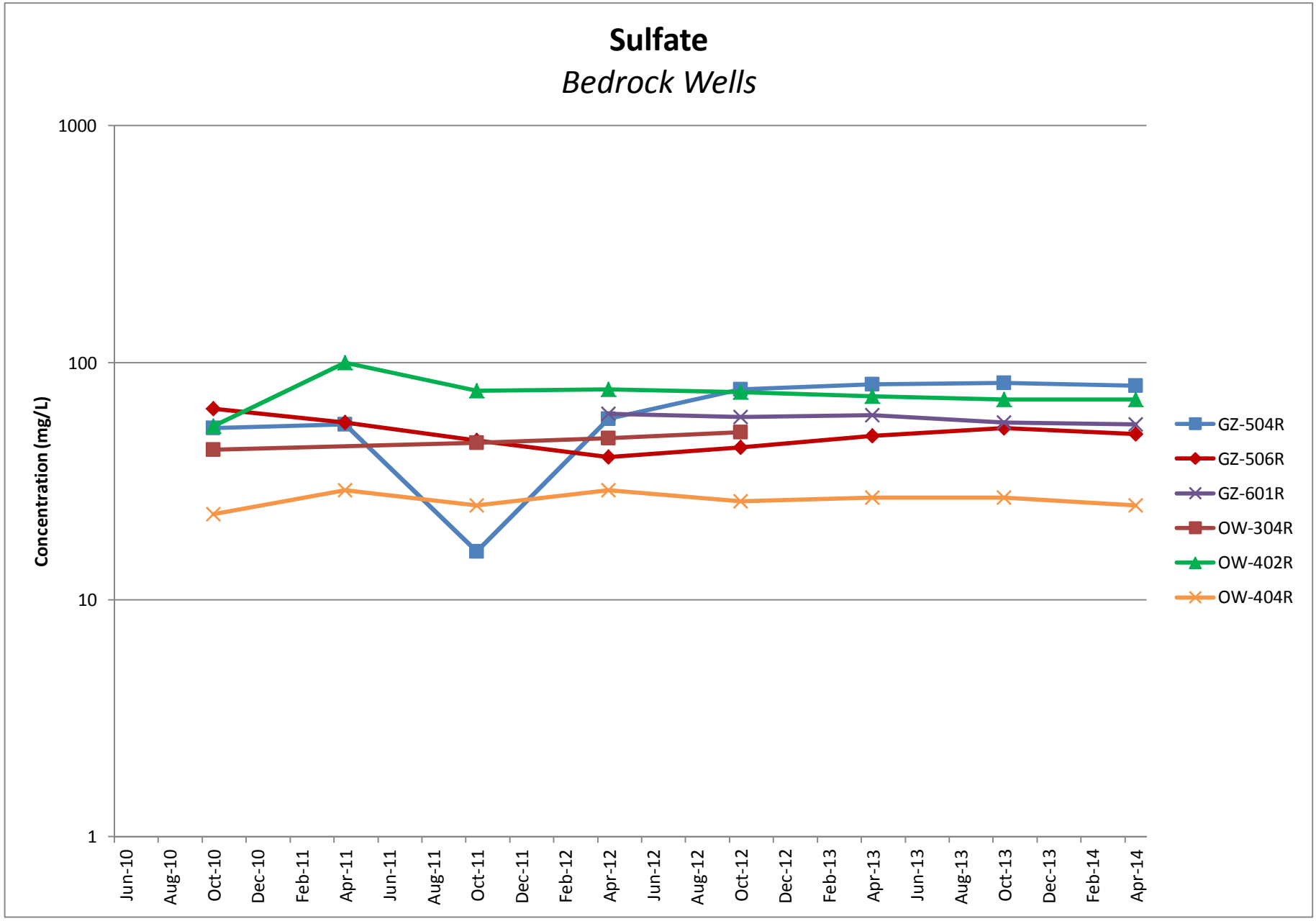
GZ-515U
GZ-519U
OW-101
OW-305U
OW-402U


Sulfate
Saprolite Wells
Concentration (mg/L)
1000
100
10
1
Jun-10
Aug-10
Oct-10
Dec-10
Feb-11
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
Jun-13
Aug-13
Oct-13
Dec-13
Feb-14
Apr-14
GZ-502L
GZ-503L
GZ-601L
OW-101L
OW-301
OW-304L
OW-307
OW-403L


Sulfate
Bedrock Wells
Concentration (mg/L)
1000
100
10
1
Jun-10
Aug-10
Oct-10
Dec-10
Feb-11
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
Jun-13
Aug-13
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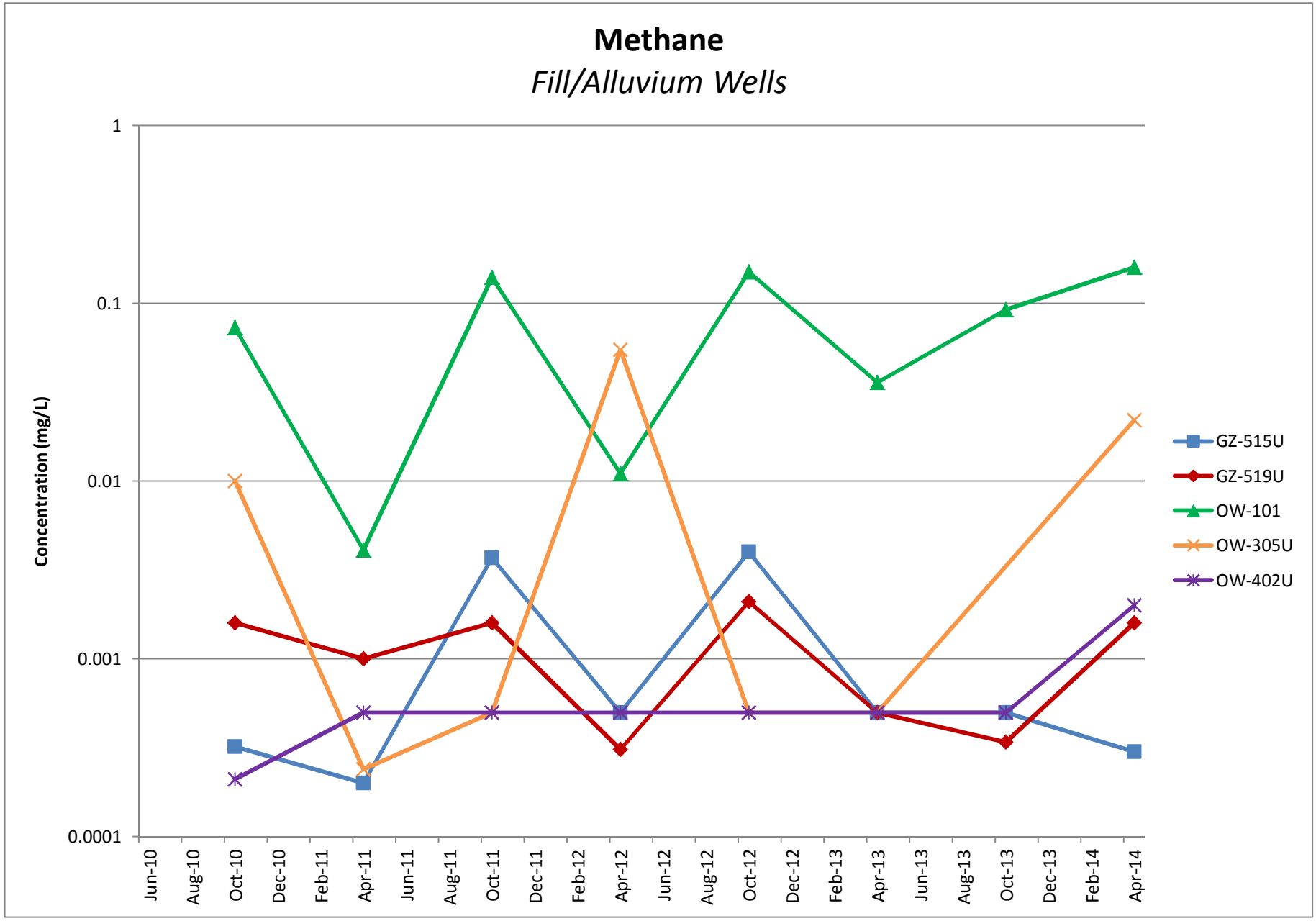
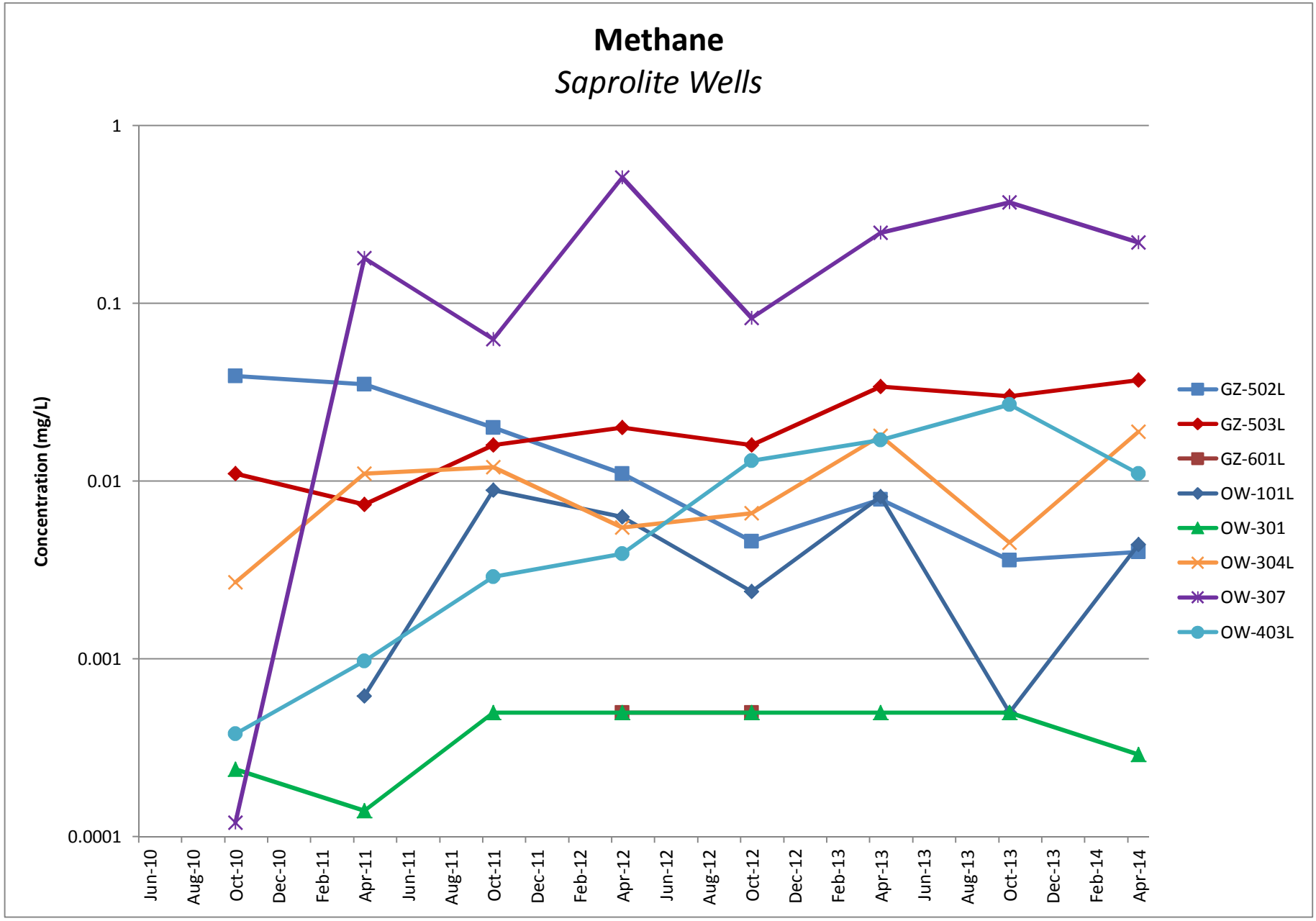
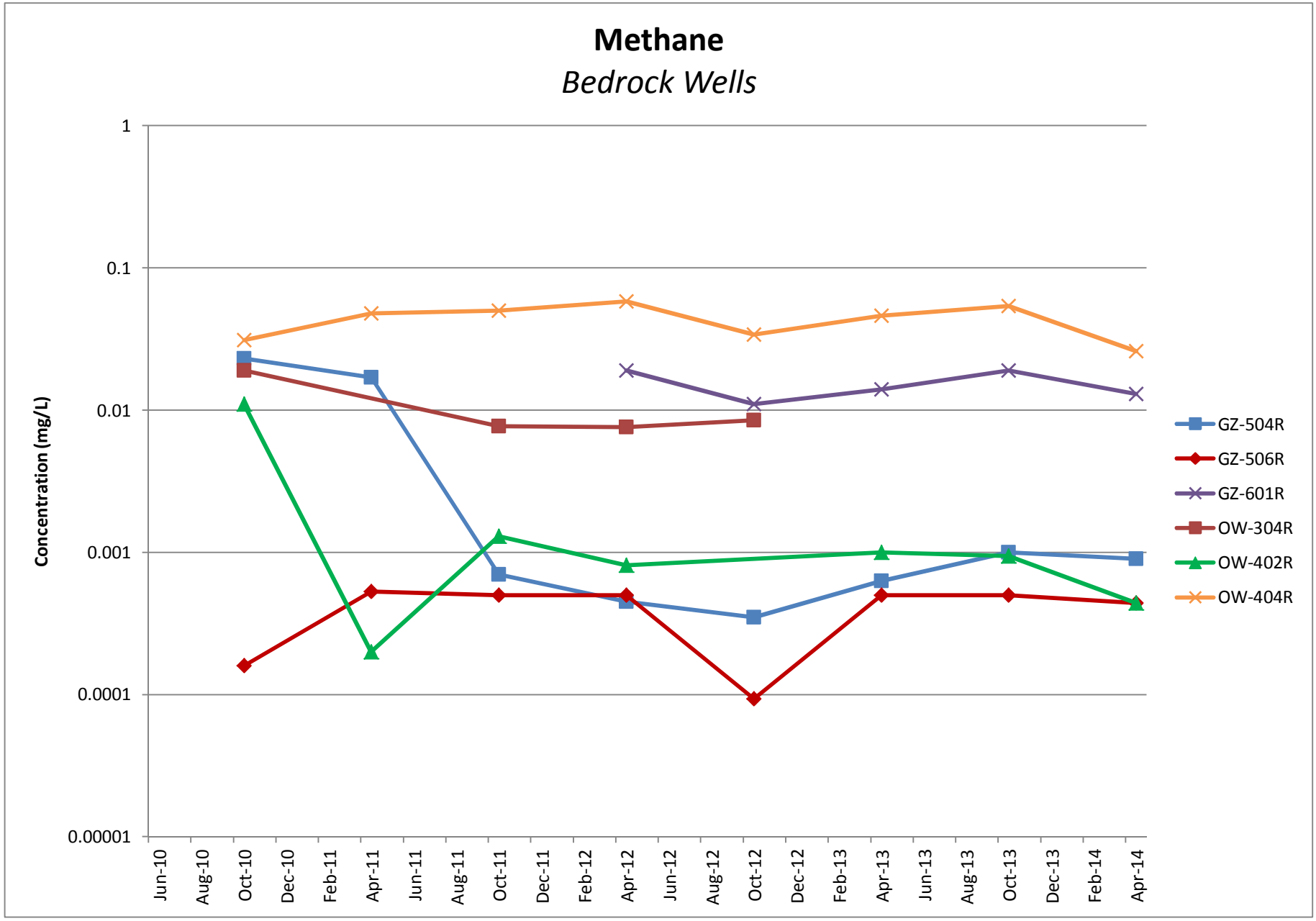
OW-304R
OW-402R
OW-404R


Methane
Fill/Alluvium Wells
Concentration (mg/L)
1
0.1
0.01
0.001
0.0001
Jun-10
Aug-10
Oct-10
Dec-10
Feb-11
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
Jun-13
Aug-13
Oct-13
Dec-13
Feb-14
Apr-14
GZ-515U
GZ-519U
OW-101
OW-305U
OW-402U


Methane
Saprolite Wells
Concentration (mg/L)
1
0.1
0.01
0.001
0.0001
Jun-10
Aug-10
Oct-10
Dec-10
Feb-11
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
Jun-13
Aug-13
Oct-13
Dec-13
Feb-14
Apr-14
GZ-502L
GZ-503L
GZ-601L
OW-101L
OW-301
OW-304L
OW-307
OW-403L


Methane
Bedrock Wells
Concentration (mg/L)
1
0.1
0.01
0.001
0.0001
0.00001
Jun-10
Aug-10
Oct-10
Dec-10
Feb-11
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
Jun-13
Aug-13
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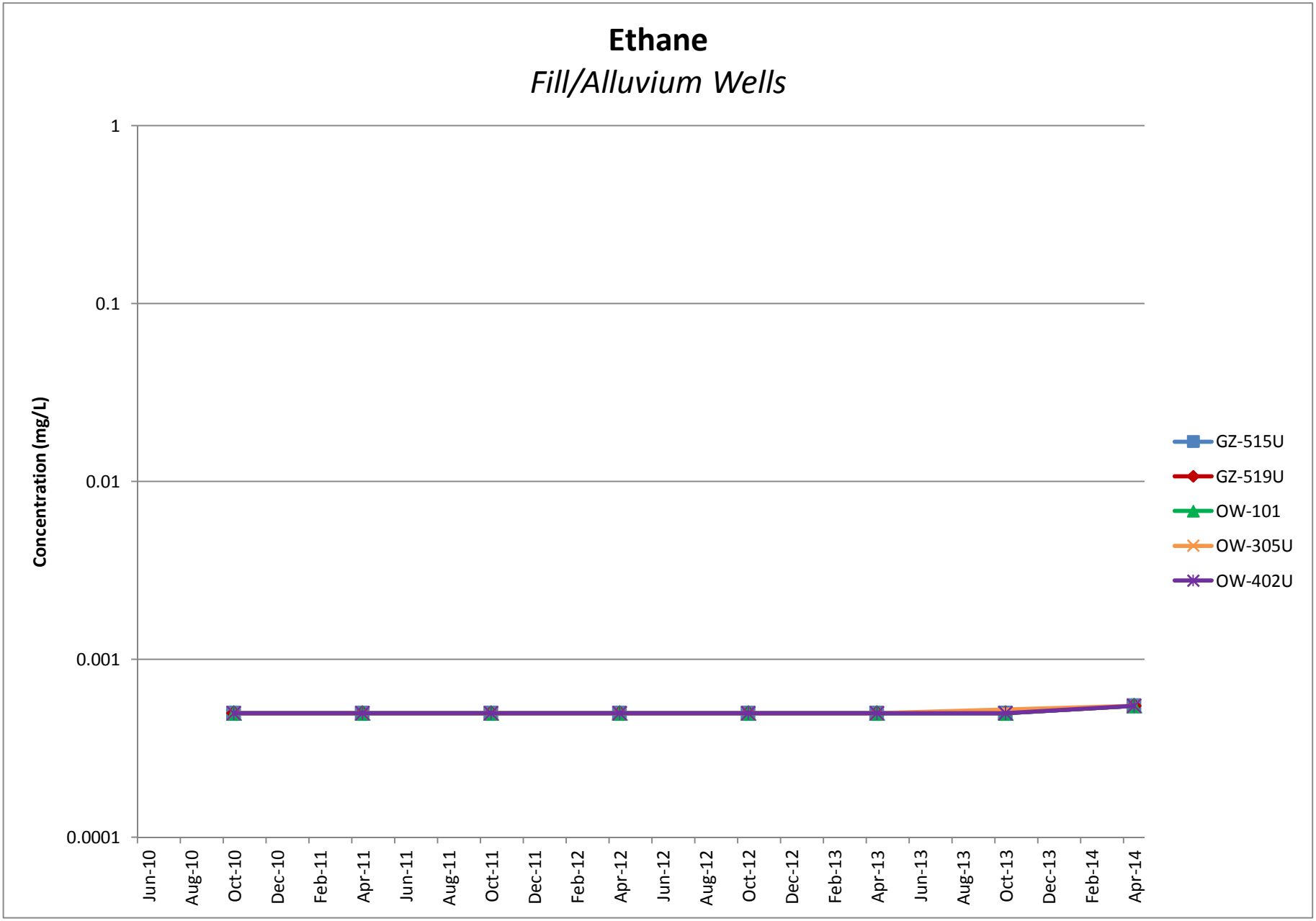
Feb-14
Apr-14
GZ-504R
GZ-506R
GZ-601R
OW-304R
OW-402R
OW-404R


Ethane
Fill/Alluvium Wells
Concentration (mg/L)
1
0.1
0.01
0.001
0.0001
Jun-10
Aug-10
Oct-10
Dec-10
Feb-11
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
Jun-13
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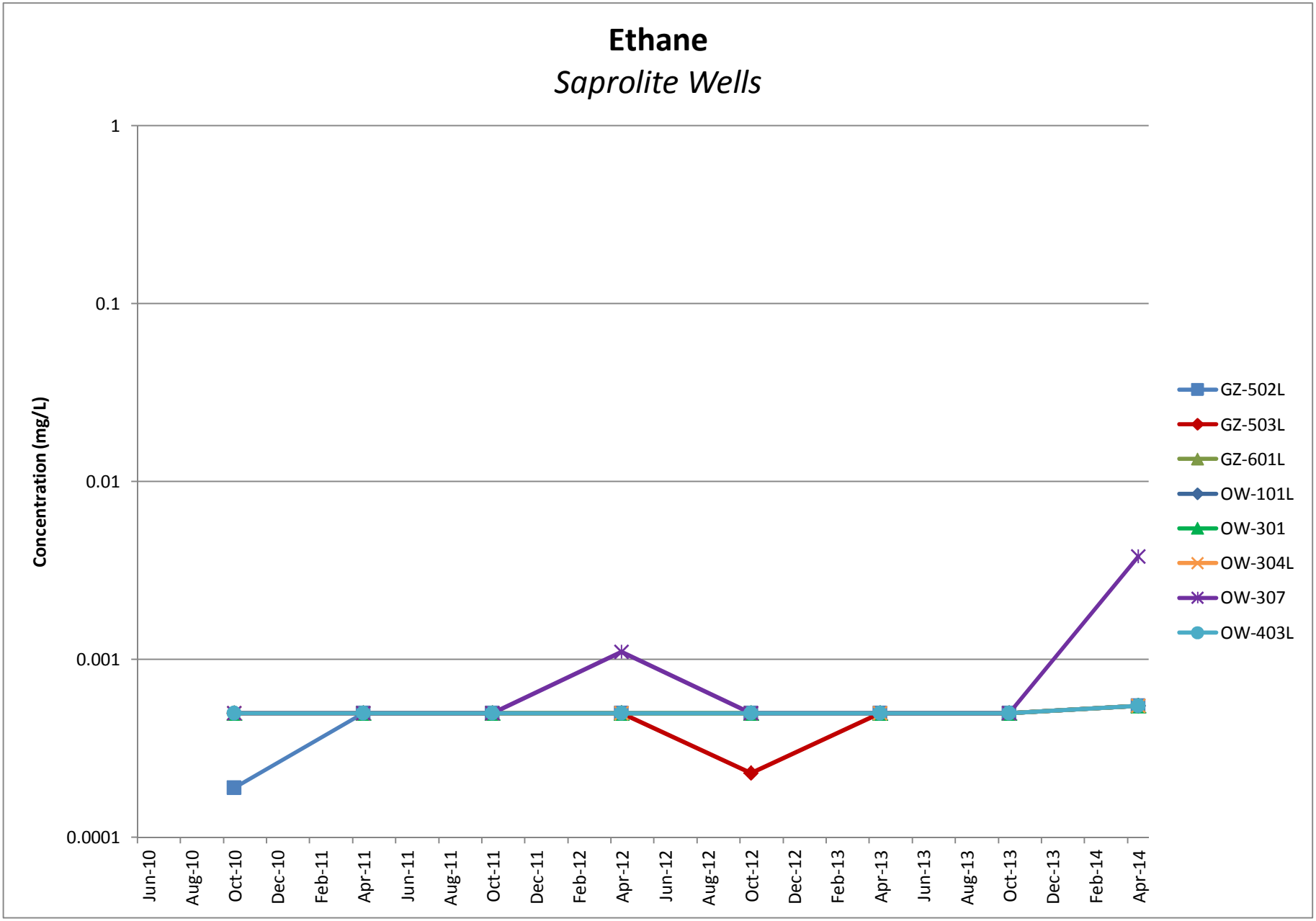
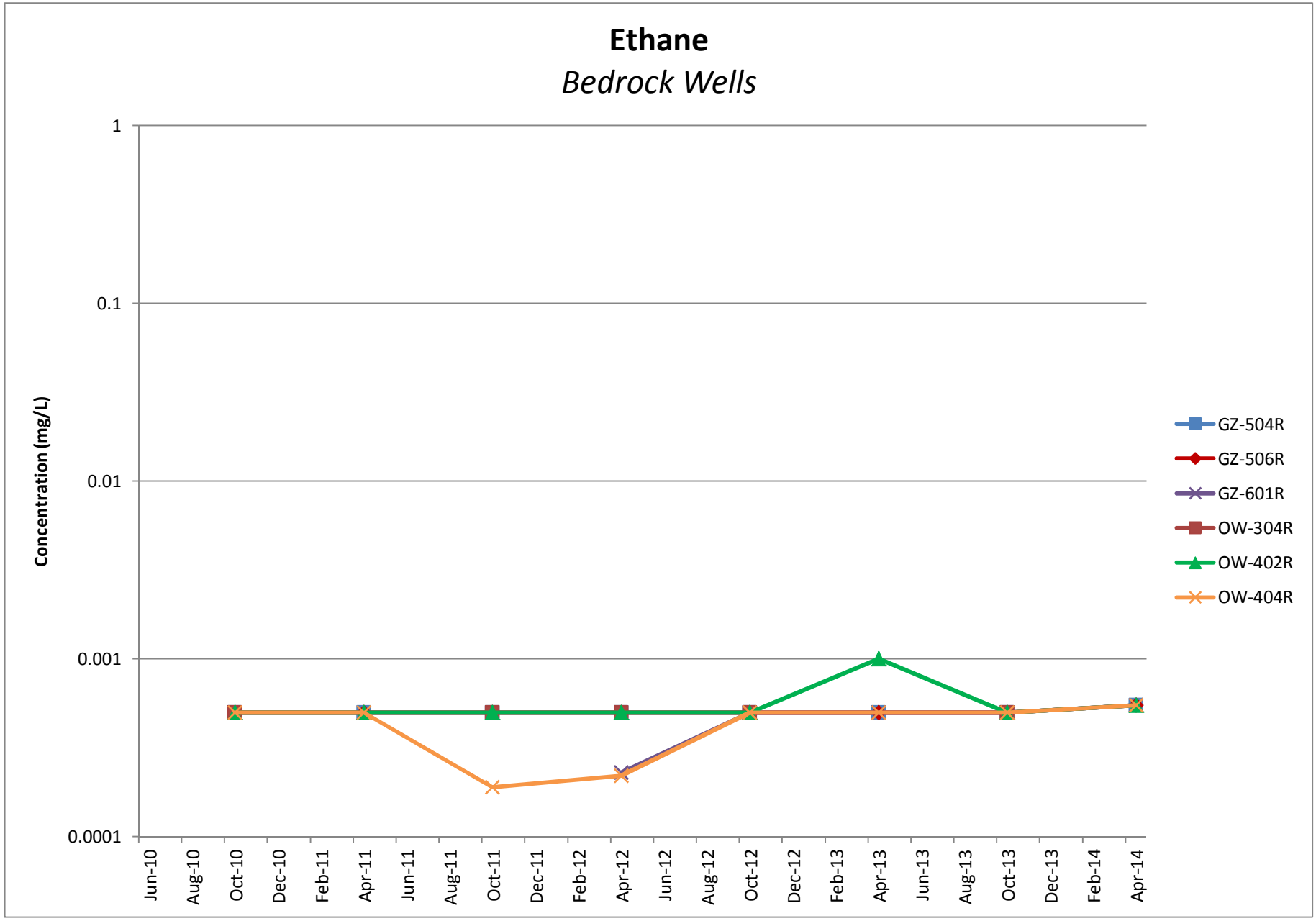
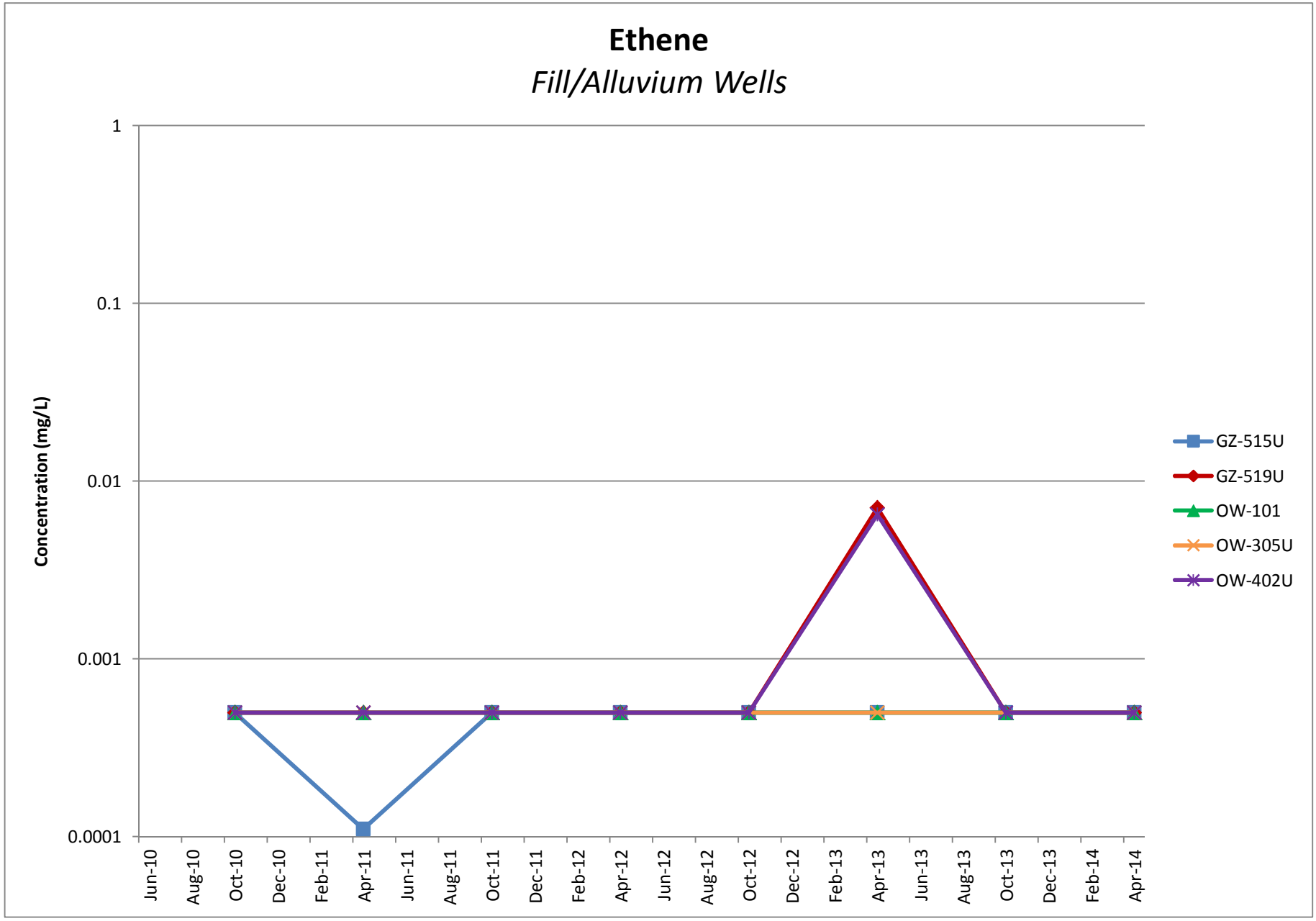
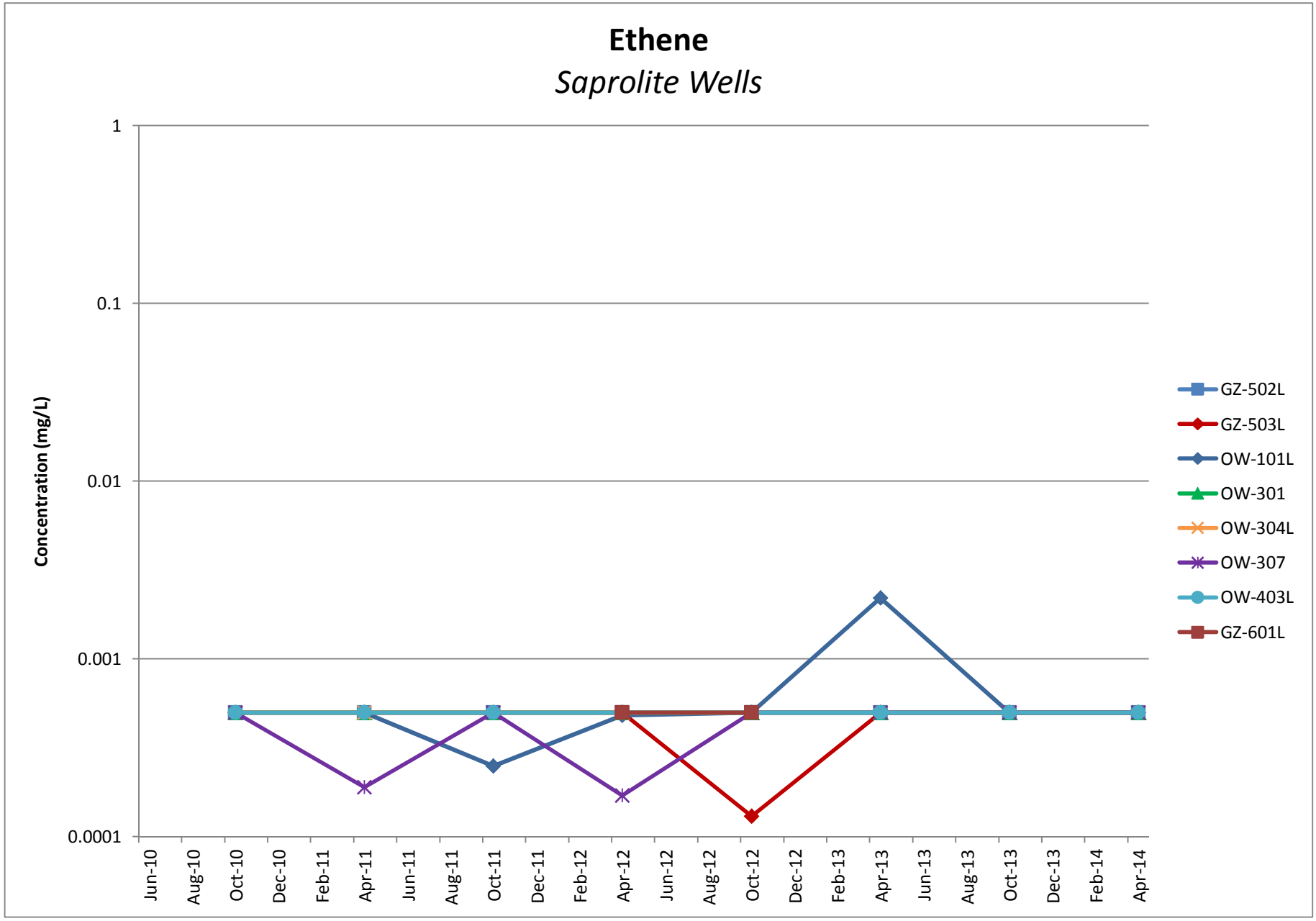
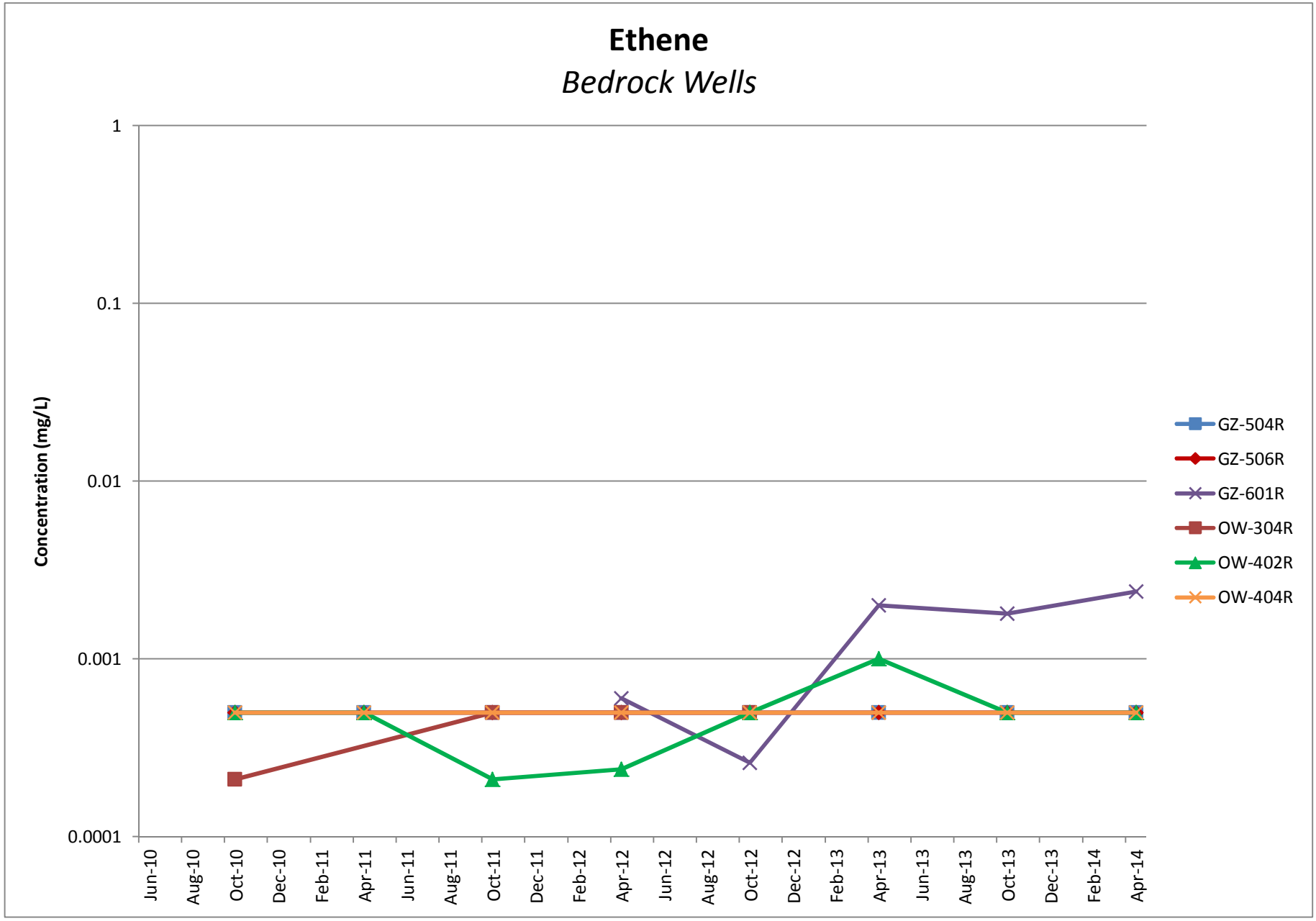
Dec-13
Feb-14
Apr-14
GZ-515U
GZ-519U
OW-101
OW-305U
OW-402U

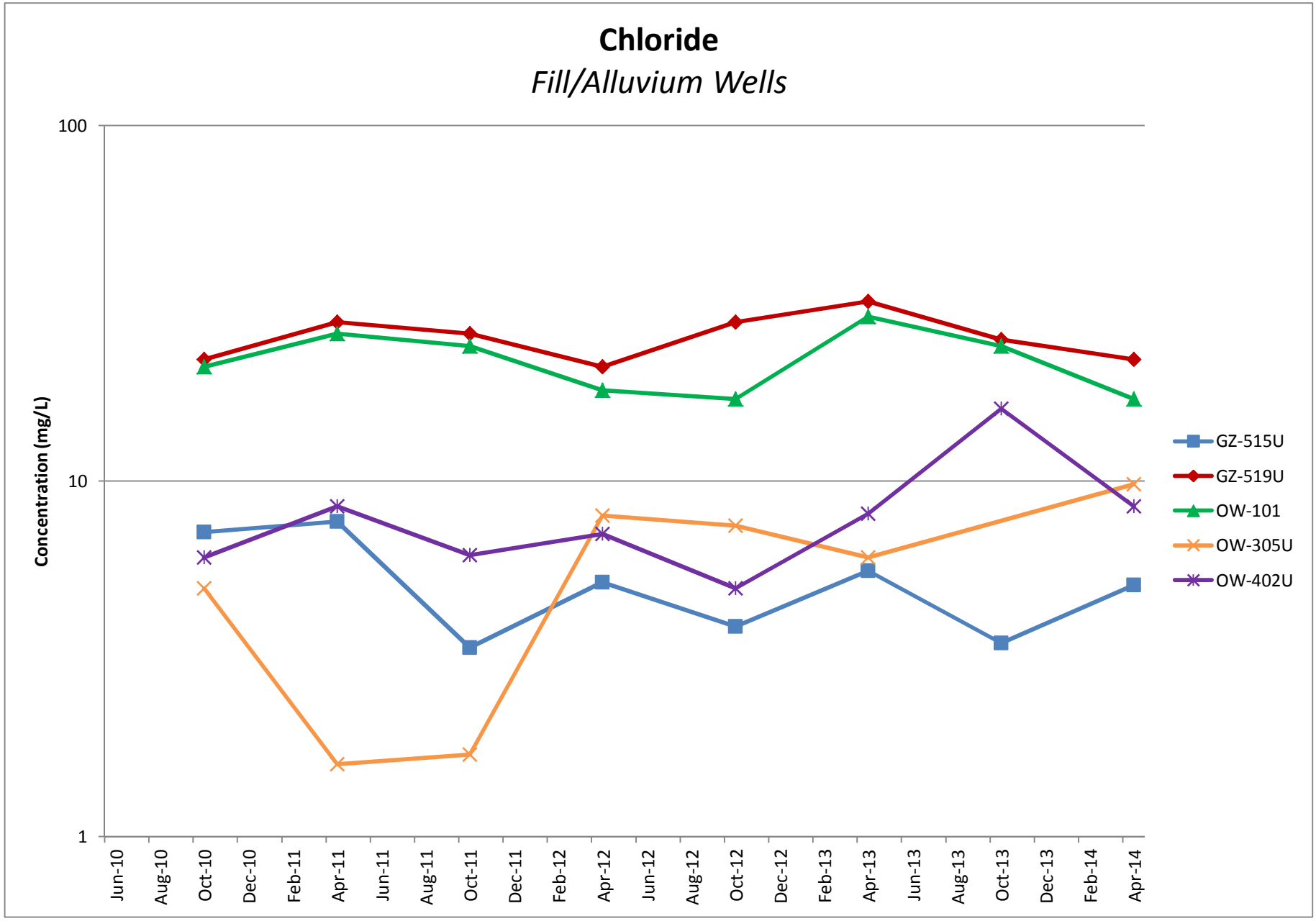

Ethane
Saprolite Wells
Concentration (mg/L)
1
0.1
0.01
0.001
0.0001
Jun-10
Aug-10
Oct-10
Dec-10
Feb-11
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
Jun-13
Aug-13
Oct-13
Dec-13
Feb-14
Apr-14
GZ-502L
GZ-503L
GZ-601L
OW-101L
OW-301
OW-304L
OW-307
OW-403L


Ethane
Bedrock Wells
Concentration (mg/L)
1
0.1
0.01
0.001
0.0001
Jun-10
Aug-10
Oct-10
Dec-10
Feb-11
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
Jun-13
Aug-13
Oct-13
Dec-13
Feb-14
Apr-14
GZ-504R
GZ-506R
GZ-601R
OW-304R
OW-402R
OW-404R


Ethene
Fill/Alluvium Wells
Concentration (mg/L)
1
0.1
0.01
0.001
0.0001
Jun-10
Aug-10
Oct-10
Dec-10
Feb-11
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
Jun-13
Aug-13
Oct-13
Dec-13
Feb-14
Apr-14
GZ-515U
GZ-519U
OW-101
OW-305U
OW-402U


Ethene
Saprolite Wells
Concentration (mg/L)
1
0.1
0.01
0.001
0.0001
Jun-10
Aug-10
Oct-10
Dec-10
Feb-11
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
Jun-13
Aug-13
Oct-13
Dec-13
Feb-14
Apr-14
GZ-502L
GZ-503L
OW-101L
OW-301
OW-304L
OW-307
OW-403L
GZ-601L


Ethene
Bedrock Wells
Concentration (mg/L)
1
0.1
0.01
0.001
0.0001
Jun-10
Aug-10
Oct-10
Dec-10
Feb-11
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
Jun-13
Aug-13
Oct-13
Dec-13
Feb-14
Apr-14
GZ-504R
GZ-506R
GZ-601R
OW-304R
OW-402R
OW-404R


Chloride
Fill/Alluvium Wells
Concentration (mg/L)
100
10
1
Jun-10
Aug-10
Oct-10
Dec-10
Feb-11
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
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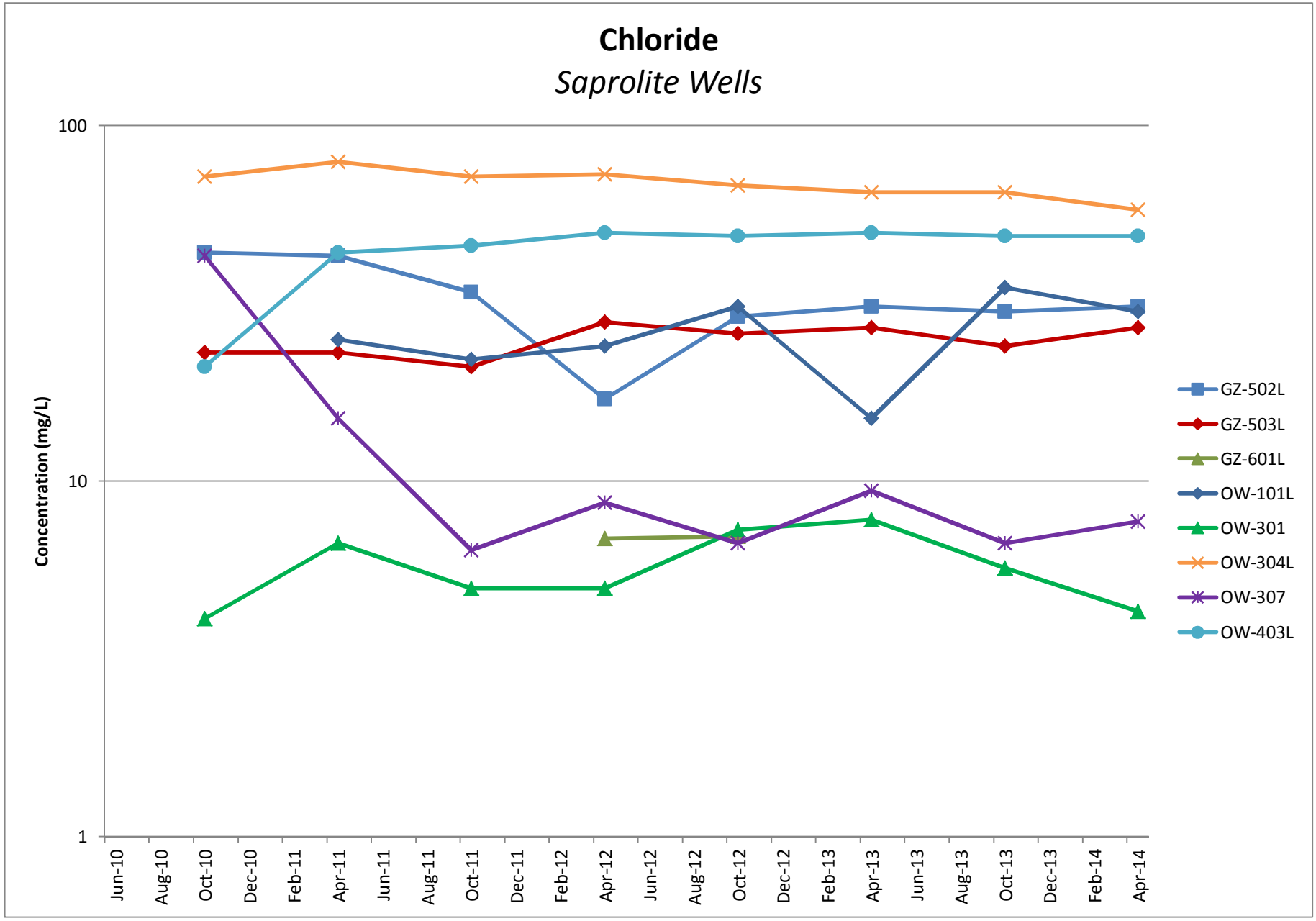
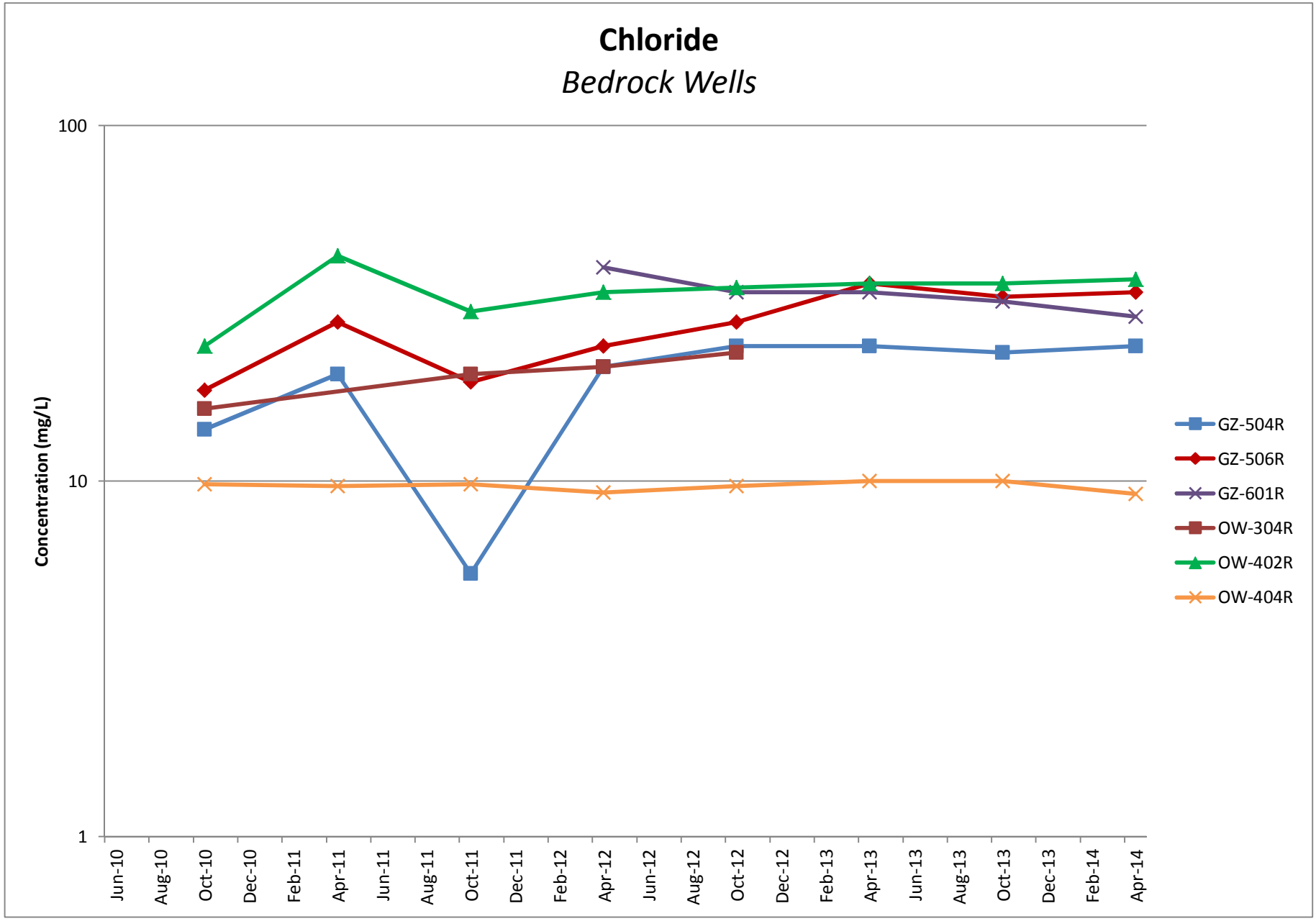
Feb-14
Apr-14
GZ-515U
GZ-519U
OW-101
OW-305U
OW-402U


Chloride
Saprolite Wells
Concentration (mg/L)
100
10
1
Jun-10
Aug-10
Oct-10
Dec-10
Feb-11
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
Jun-13
Aug-13
Oct-13
Dec-13
Feb-14
Apr-14
GZ-502L
GZ-503L
GZ-601L
OW-101L
OW-301
OW-304L
OW-307
OW-403L


Chloride
Bedrock Wells
Concentration (mg/L)
100
10
1
Jun-10
Aug-10
Oct-10
Dec-10
Feb-11
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
Jun-13
Aug-13
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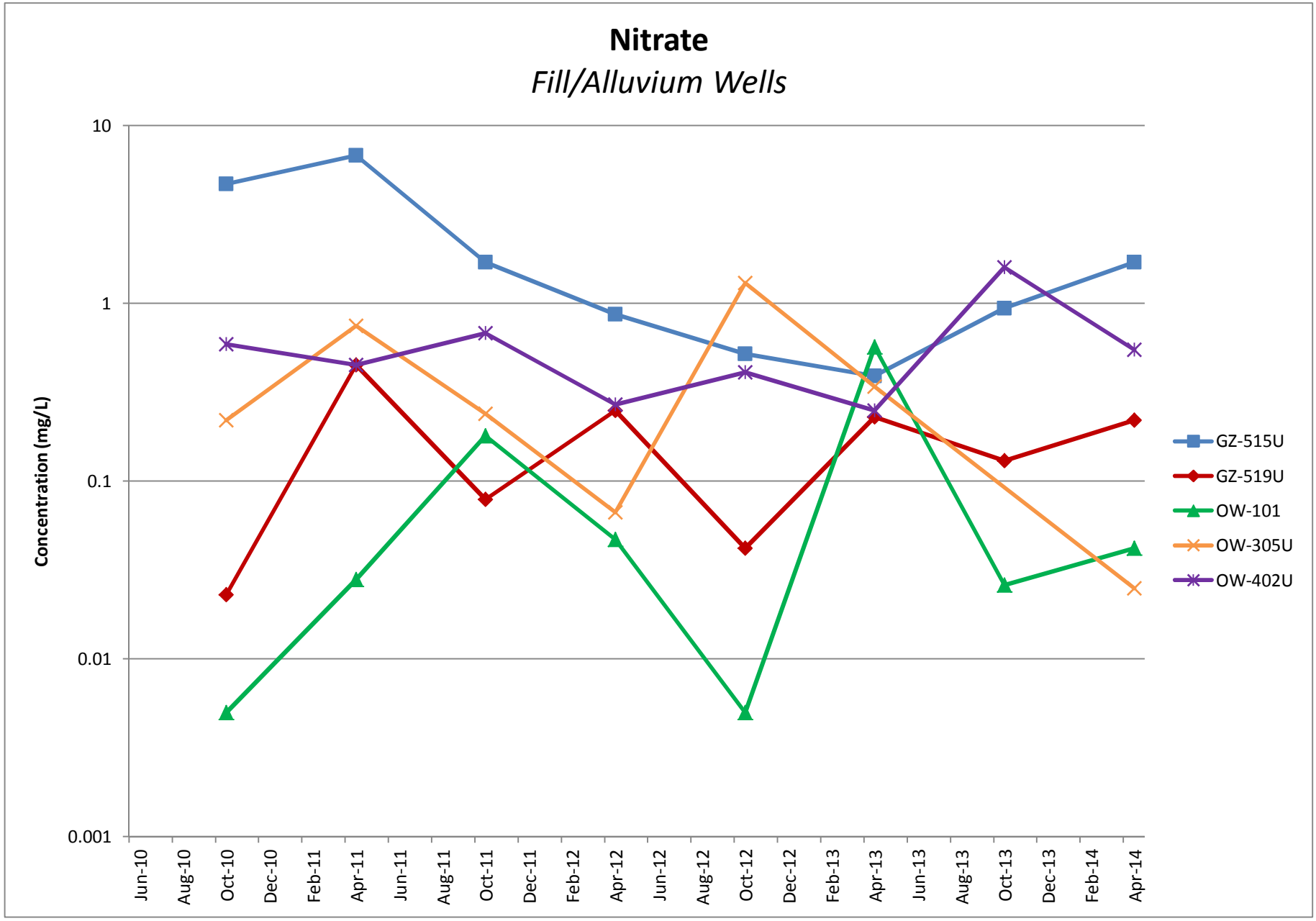
Feb-14
Apr-14
GZ-504R
GZ-506R
GZ-601R
OW-304R
OW-402R
OW-404R


Nitrate
Fill/Alluvium Wells
Concentration (mg/L)
10
1
0.1
0.01
0.001
Jun-10
Aug-10
Oct-10
Dec-10
Feb-11
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
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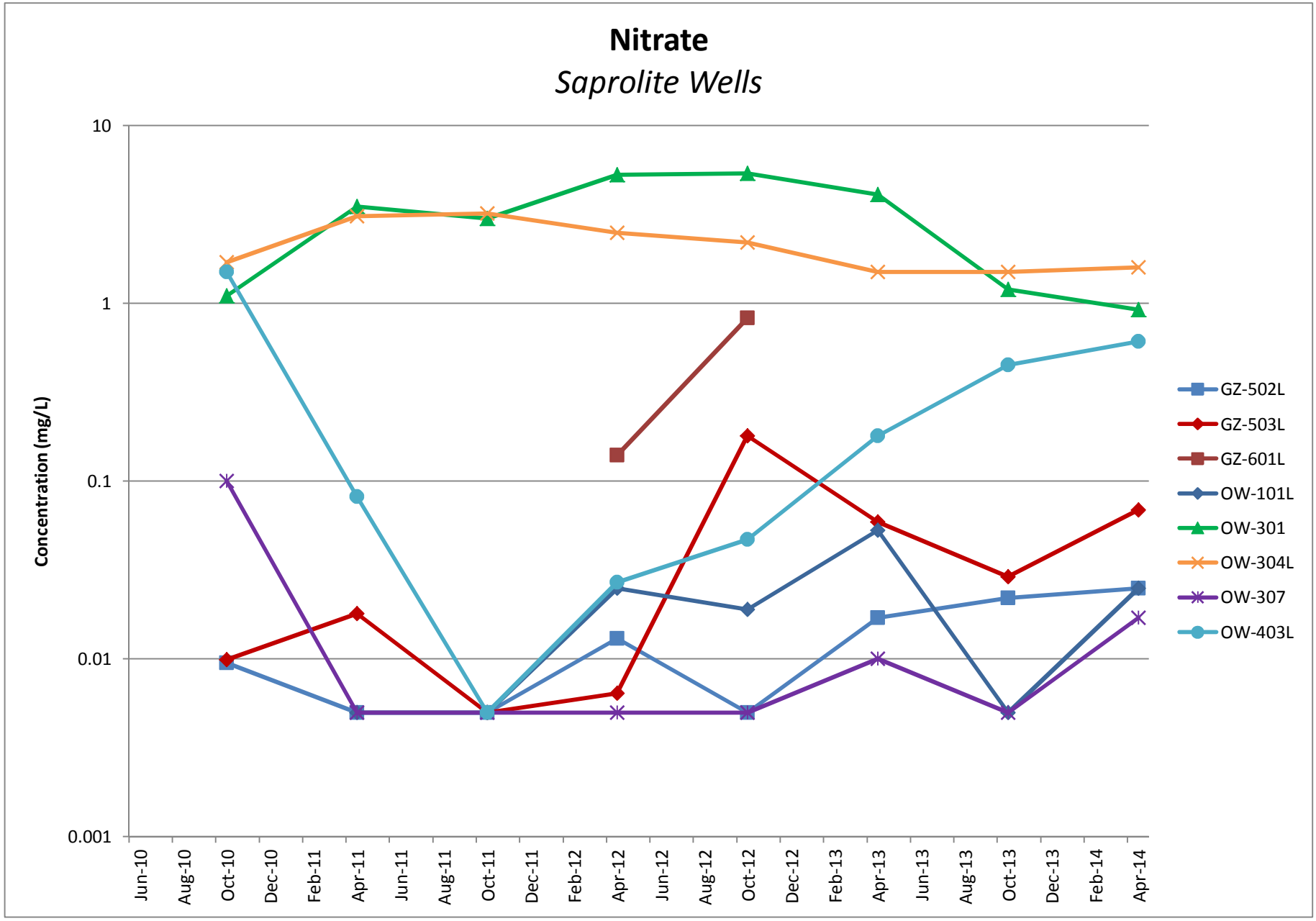
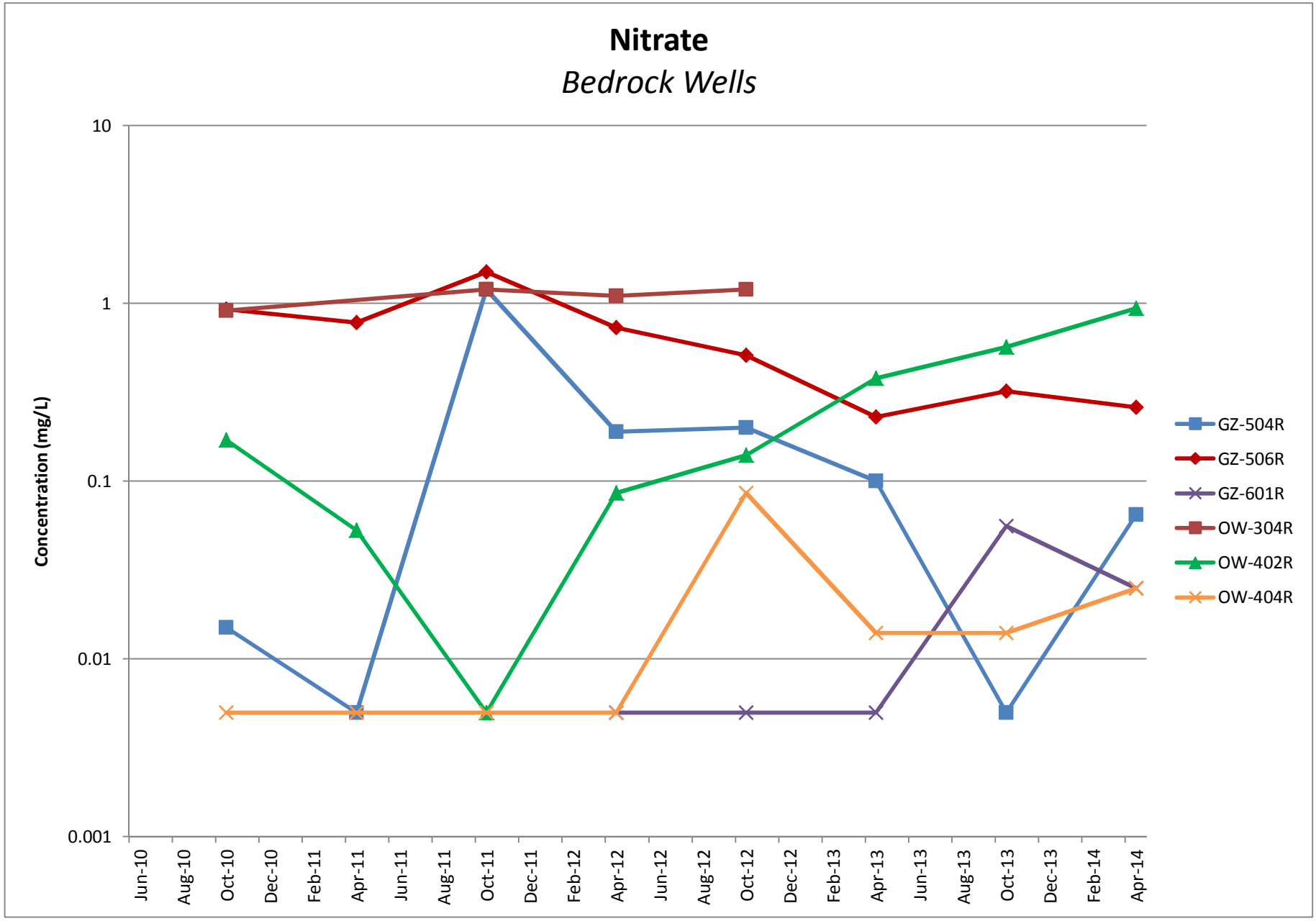
Feb-14
Apr-14
GZ-515U
GZ-519U
OW-101
OW-305U
OW-402U


Nitrate
Saprolite Wells
Concentration (mg/L)
10
1
0.1
0.01
0.001
Jun-10
Aug-10
Oct-10
Dec-10
Feb-11
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
Jun-13
Aug-13
Oct-13
Dec-13
Feb-14
Apr-14
GZ-502L
GZ-503L
GZ-601L
OW-101L
OW-301
OW-304L
OW-307
OW-403L


Nitrate
Bedrock Wells
Concentration (mg/L)
10
1
0.1
0.01
0.001
Jun-10
Aug-10
Oct-10
Dec-10
Feb-11
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
Jun-13
Aug-13
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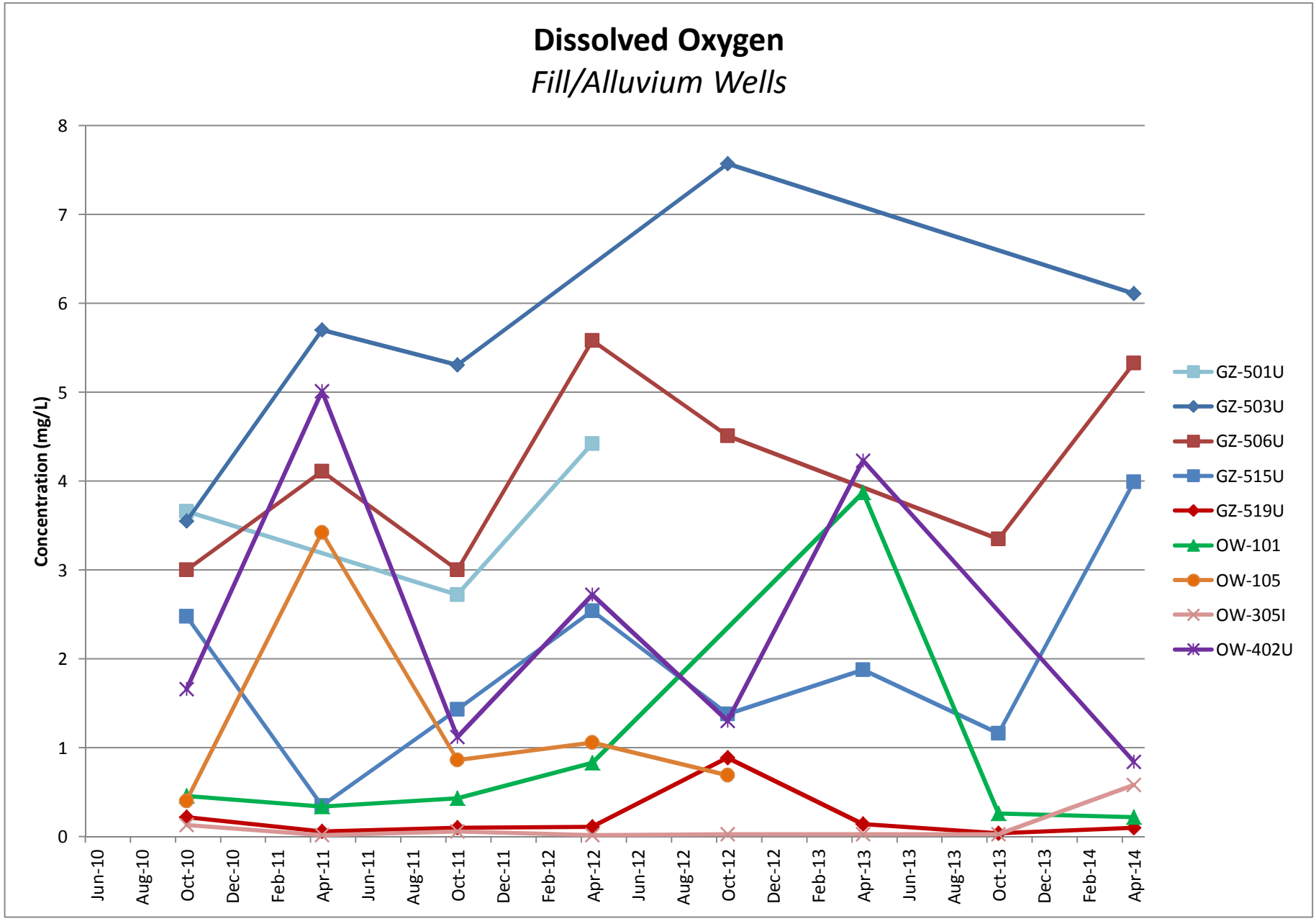
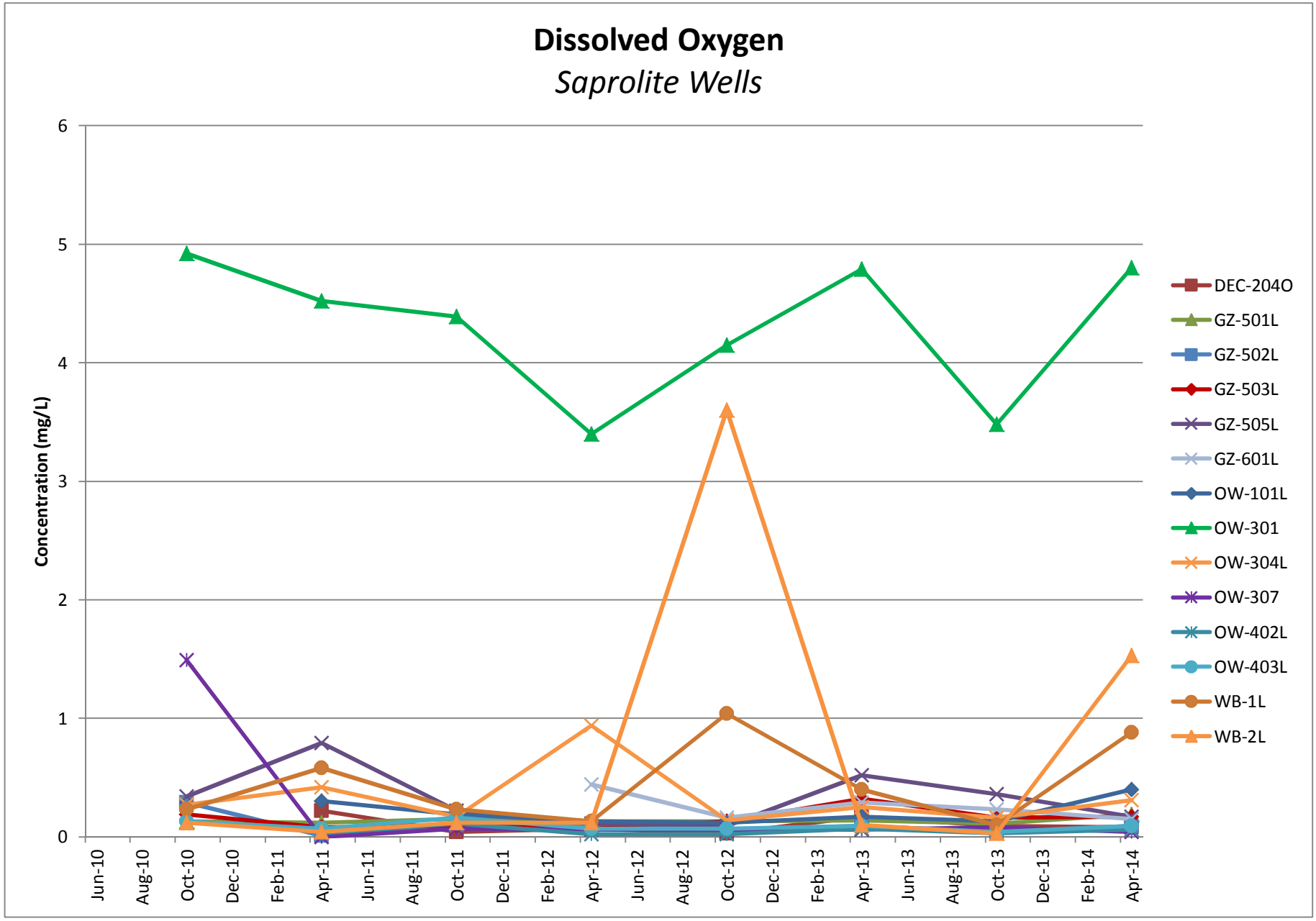
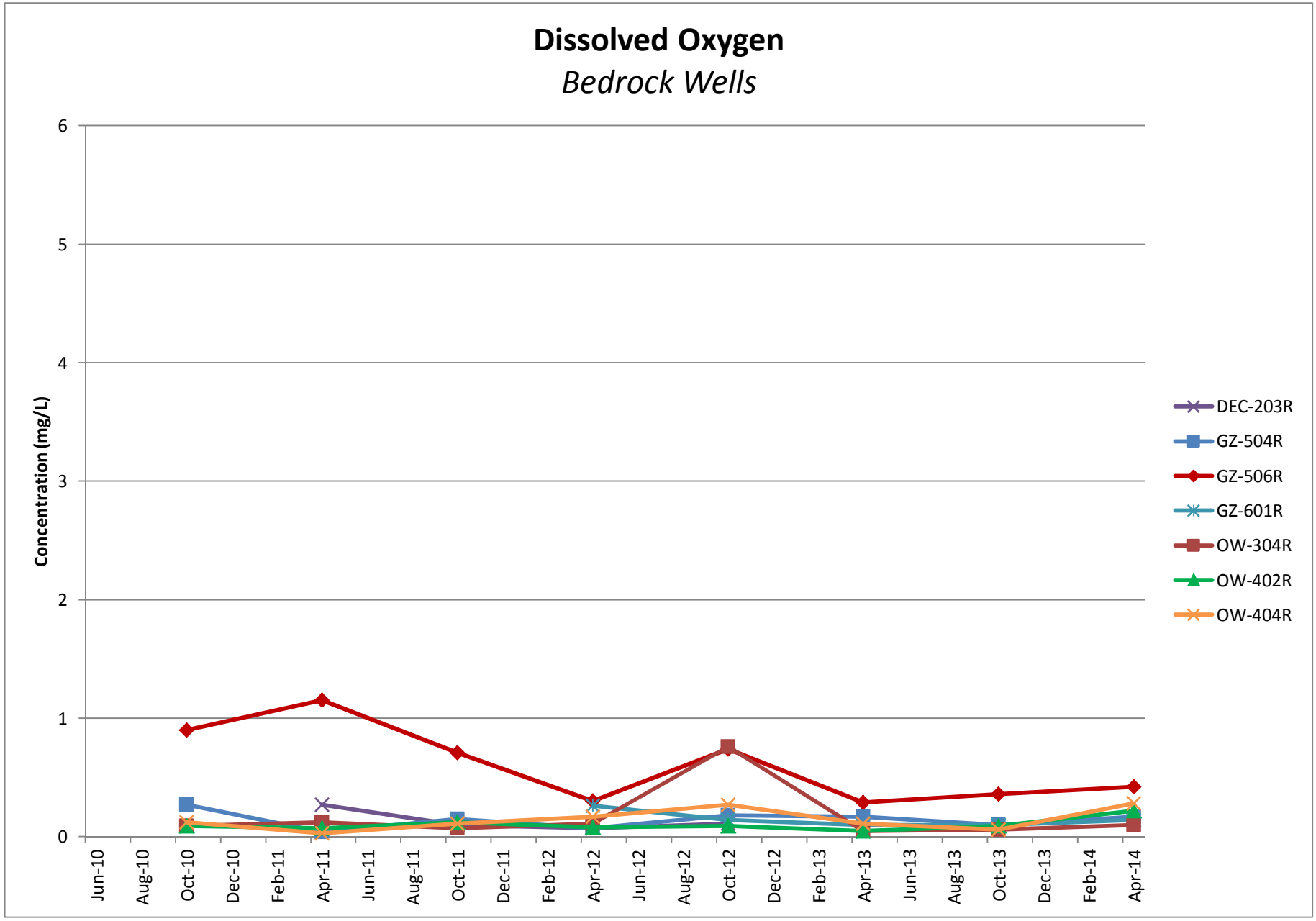
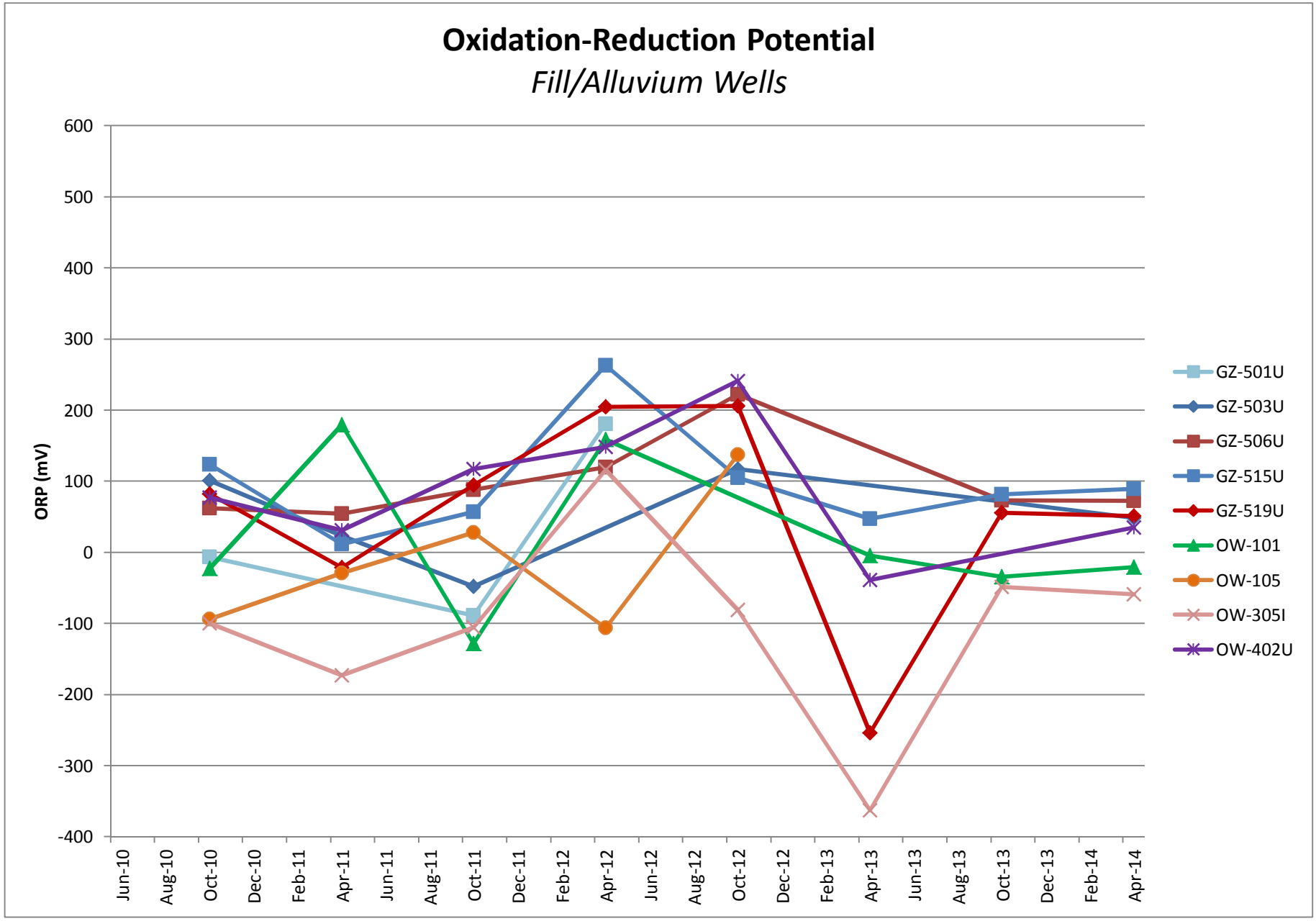
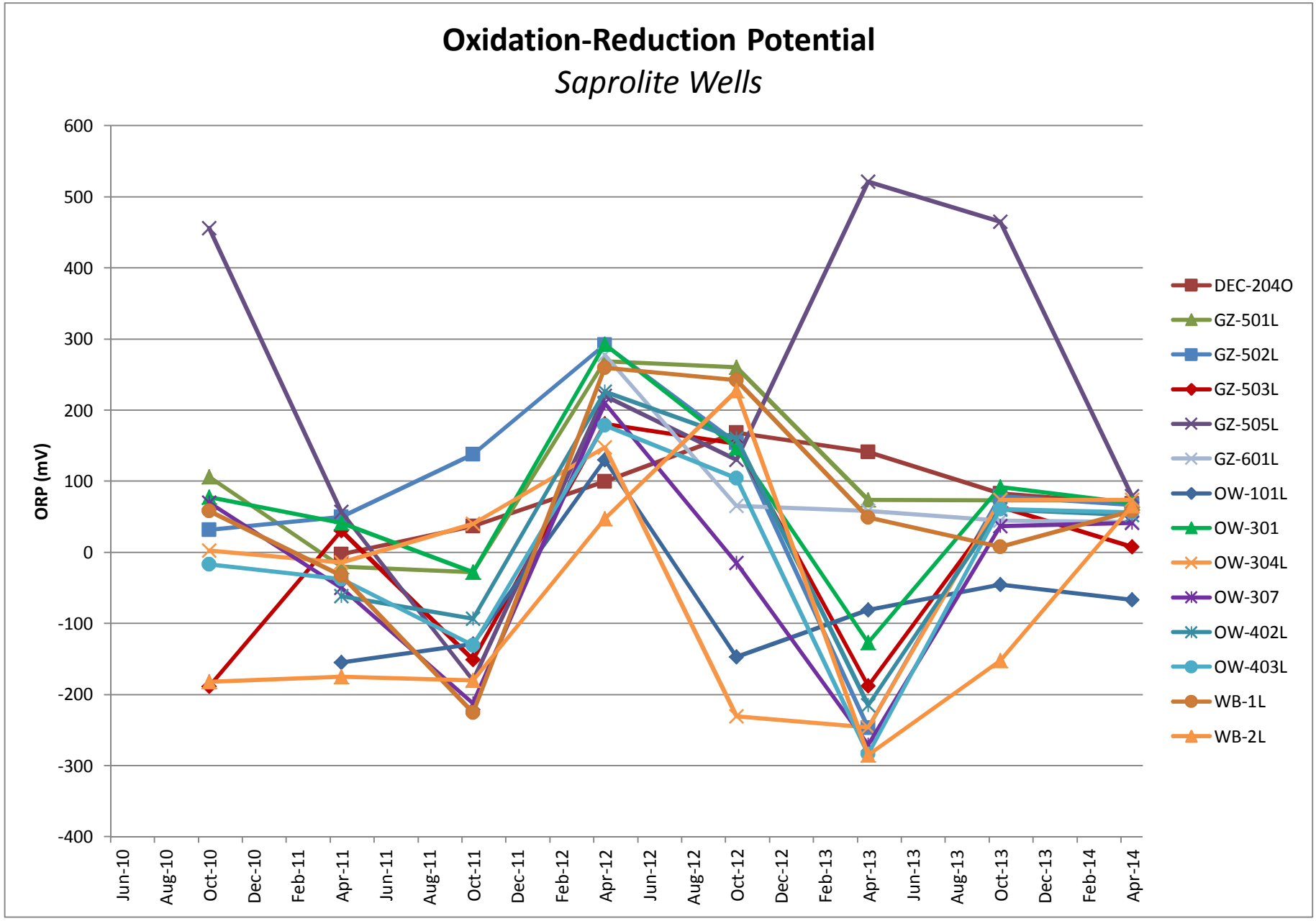
Feb-14
Apr-14
GZ-504R
GZ-506R
GZ-601R
OW-304R
OW-402R
OW-404R

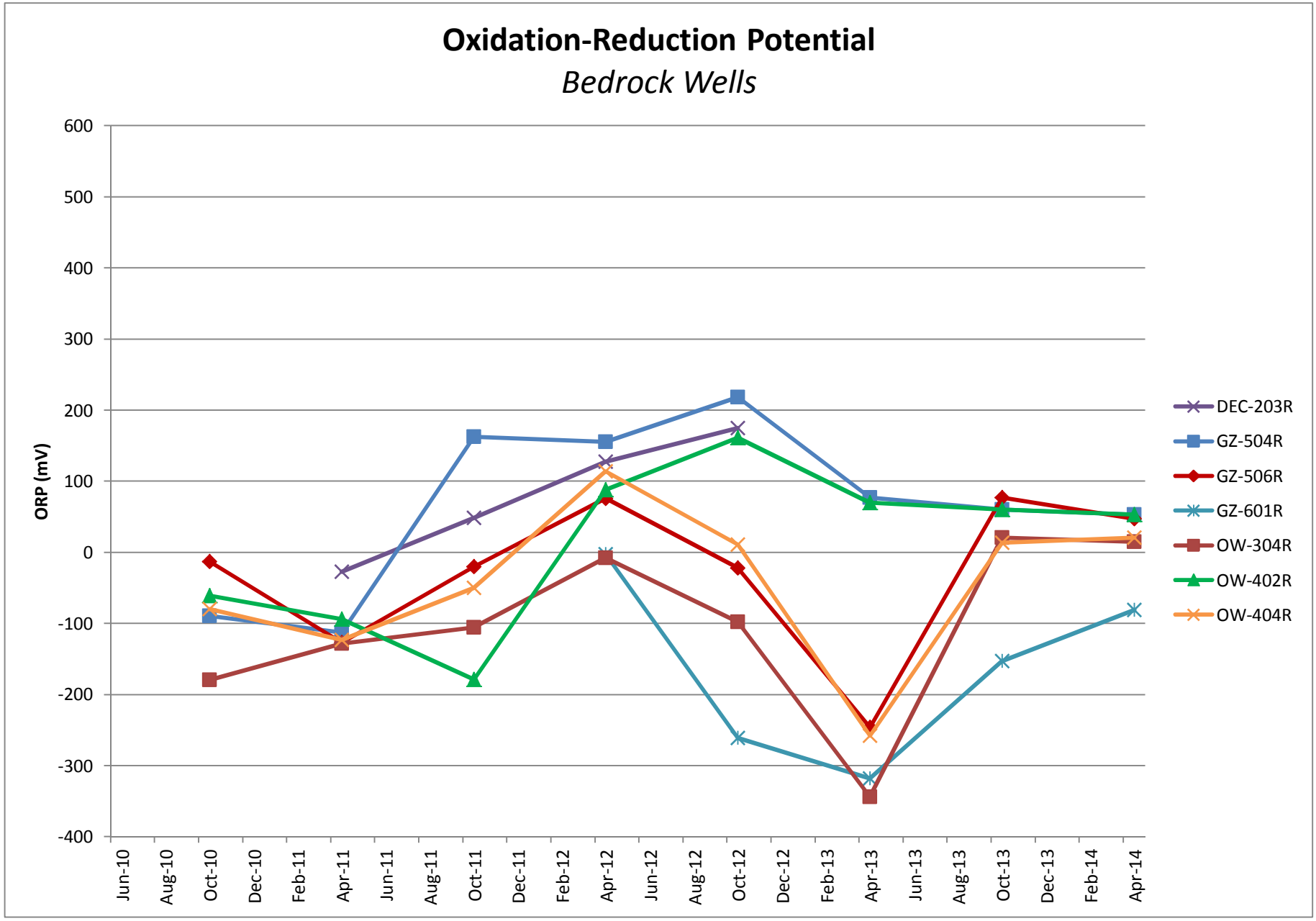

Dissolved Oxygen
Fill/Alluvium Wells
Concentration (mg/L)
0
1
2
3
4
5
6
7
8
Jun-10
Aug-10
Oct-10
Dec-10
Feb-11
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
Jun-13
Aug-13
Oct-13
Dec-13
Feb-14
Apr-14
GZ-501U
GZ-503U
GZ-506U
GZ-515U
GZ-519U
OW-101
OW-105
OW-305I
OW-402U

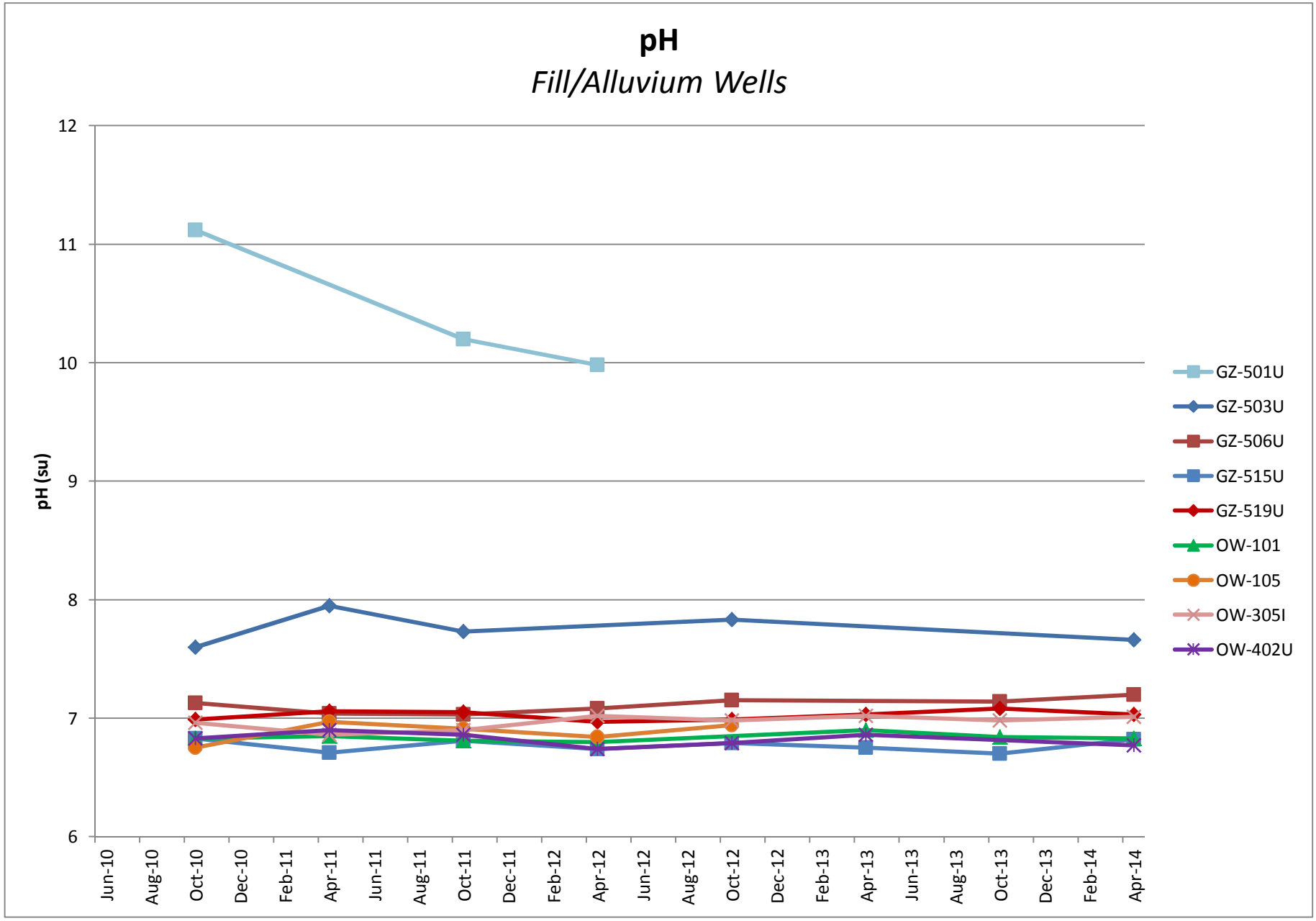

Dissolved Oxygen
Saprolite Wells
Concentration (mg/L)
0
1
2
3
4
5
6
Jun-10
Aug-10
Oct-10
Dec-10
Feb-11
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
Jun-13
Aug-13
Oct-13
Dec-13
Feb-14
Apr-14
DEC-204O
GZ-501L
GZ-502L
GZ-503L
GZ-505L
GZ-601L
OW-101L
OW-301
OW-304L
OW-307
OW-402L
OW-403L
WB-1L
WB-2L

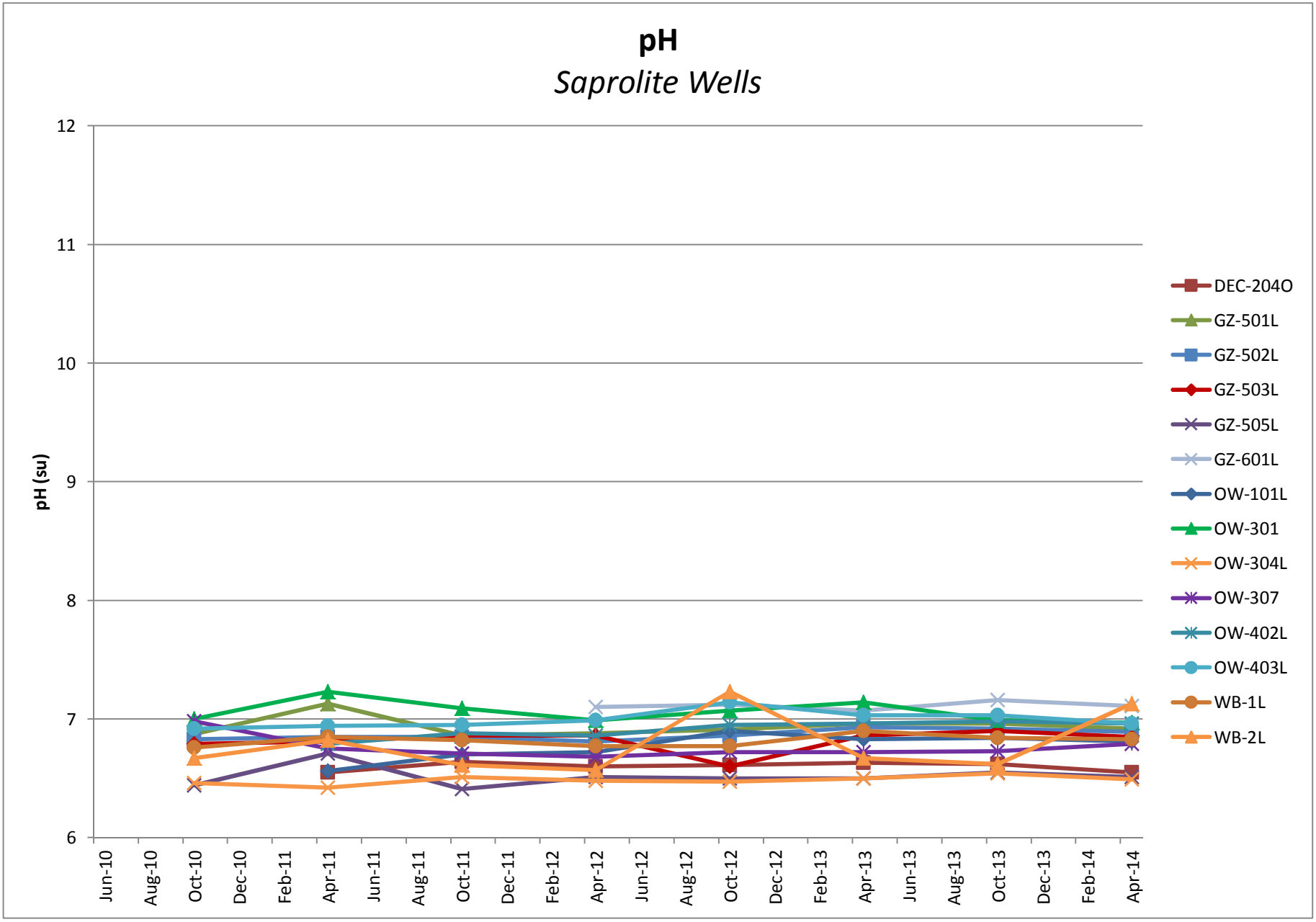

Dissolved Oxygen
Bedrock Wells
Concentration (mg/L)
0
1
2
3
4
5
6
Jun-10
Aug-10
Oct-10
Dec-10
Feb-11
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
Jun-13
Aug-13
Oct-13
Dec-13
Feb-14
Apr-14
DEC-203R
GZ-504R
GZ-506R
GZ-601R
OW-304R
OW-402R
OW-404R

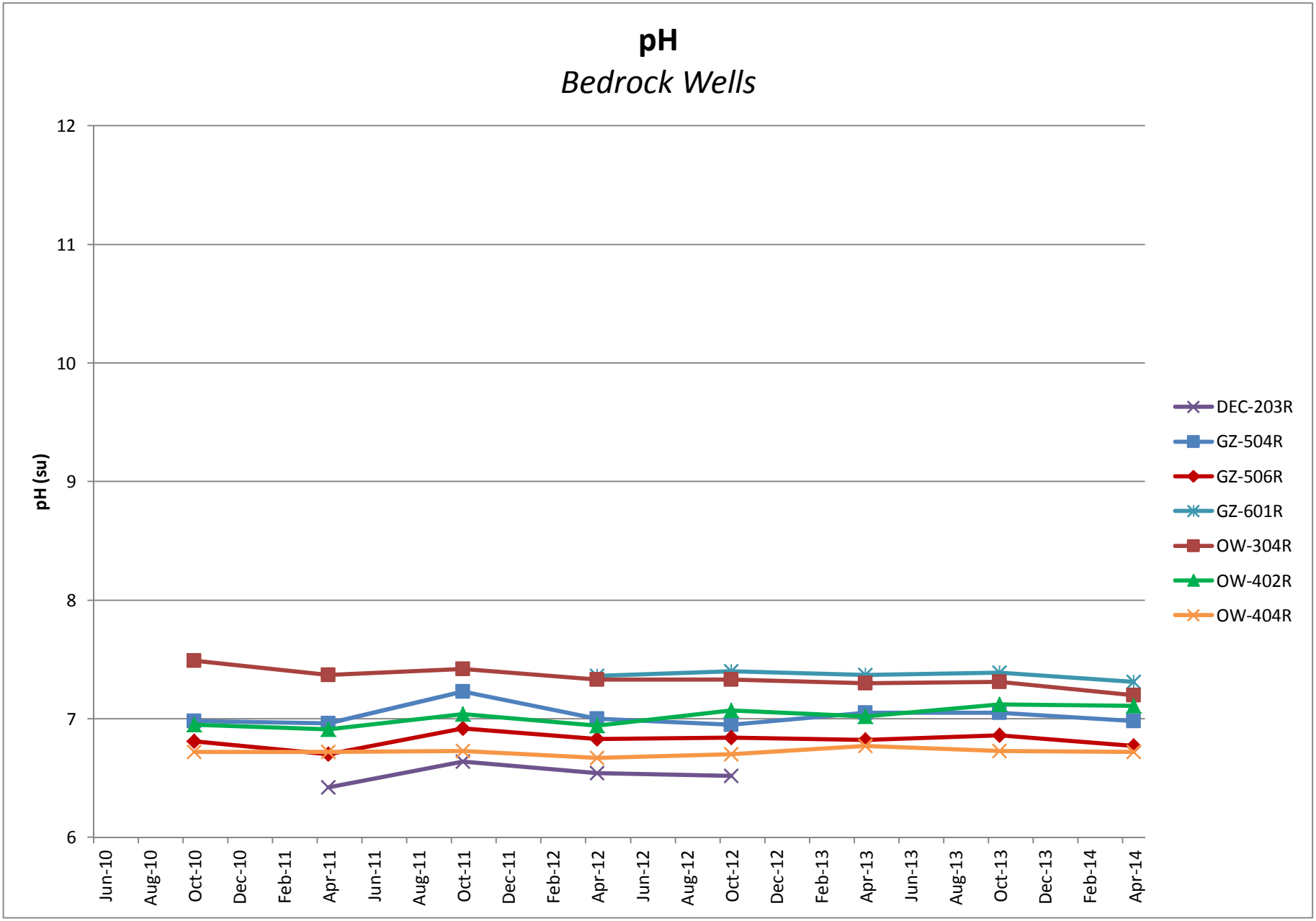

Oxidation-Reduction Potential
Fill/Alluvium Wells
ORP (mV)
600
500
400
300
200
100
0
-100
-200
-300
-400
Jun-10
Aug-10
Oct-10
Dec-10
Feb-11
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
Jun-13
Aug-13
Oct-13
Dec-13
Feb-14
Apr-14
GZ-501U
GZ-503U
GZ-506U
GZ-515U
GZ-519U
OW-101
OW-105
OW-305I
OW-402U


Oxidation-Reduction Potential
Saprolite Wells
ORP (mV)
600
500
400
300
200
100
0
-100
-200
-300
-400
Jun-10
Aug-10
Oct-10
Dec-10
Feb-11
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
Jun-13
Aug-13
Oct-13
Dec-13
Feb-14
Apr-14
DEC-204O
GZ-501L
GZ-502L
GZ-503L
GZ-505L
GZ-601L
OW-101L
OW-301
OW-304L
OW-307
OW-402L
OW-403L
WB-1L
WB-2L


Oxidation-Reduction Potential
Bedrock Wells
ORP (mV)
600
500
400
300
200
100
0
-100
-200
-300
-400
Jun-10
Aug-10
Oct-10
Dec-10
Feb-11
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
Jun-13
Aug-13
Oct-13
Dec-13
Feb-14
Apr-14
DEC-203R
GZ-504R
GZ-506R
GZ-601R
OW-304R
OW-402R
OW-404R


pH
Fill/Alluvium Wells
pH (su)
12
11
10
9
8
7
6
Jun-10
Aug-10
Oct-10
Dec-10
Feb-11
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
Jun-13
Aug-13
Oct-13
Dec-13
Feb-14
Apr-14
GZ-501U
GZ-503U
GZ-506U
GZ-515U
GZ-519U
OW-101
OW-105
OW-305I
OW-402U


pH
Saprolite Wells
pH (su)
12
11
10
9
8
7
6
Jun-10
Aug-10
Oct-10
Dec-10
Feb-11
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
Jun-13
Aug-13
Oct-13
Dec-13
Feb-14
Apr-14
DEC-204O
GZ-501L
GZ-502L
GZ-503L
GZ-505L
GZ-601L
OW-101L
OW-301
OW-304L
OW-307
OW-402L
OW-403L
WB-1L
WB-2L


pH
Bedrock Wells
pH (su)
12
11
10
9
8
7
6
Jun-10
Aug-10
Oct-10
Dec-10
Feb-11
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
Jun-13
Aug-13
Oct-13
Dec-13
Feb-14
Apr-14
DEC-203R
GZ-504R
GZ-506R
GZ-601R
OW-304R
OW-402R
OW-404R

APPENDIX E

LABORATORY ANALYTICAL REPORT

(The following pages have been excluded from the associated laboratory report: 640-47518-1: 2-5 and 125-2171. Pages are available upon request.)

Daliz Estades Santaliz

Licensed Chemist

To Whom It May Concern:

I, Daliz M. Estades Santaliz, in my capacity as Puerto Rico Certified Chemist, hereby certify the attached Analytical Results from Project HP San German IB (Water Samples) and Laboratory ID Numbers:

640-47518-1	640-47539-6	640-47571-1
640-47518-2	640-47539-7	640-47571-2
640-47518-3	640-47539-8	640-47571-3
640-47518-4	640-47539-9	640-47571-4
640-47518-5	640-47539-10	640-47571-5
640-47518-6	640-47539-11	640-47571-6
640-47518-7	640-47539-12	640-47571-7
640-47518-8	640-47539-13	640-47571-8
640-47518-9	640-47539-14	640-47571-9
640-47518-10	640-47539-15	640-47571-10
640-47518-11	640-47539-16	640-47571-11
640-47518-12	640-47539-17	640-47571-13
640-47518-13	640-47539-18	640-47571-14
640-47518-14		640-47571-16
640-47518-15		
640-47518-16		
640-47518-17		
640-47518-18		
640-47518-19		
640-47518-20		
640-47539-1		
640-47539-2		
640-47539-3		
640-47539-4		

Lcda. Daliz M. Estades Santaliz

ESTADO LIBRE ASOCIADO DE PUERTO RICO
Daliz M. Estades Santaliz
Lic. 4026
QUIMICO LICENCIADO

$1.00 A 1478150

PO Box 727
Dorado, PR 00646-0727

ANALYTICAL REPORT

Job Number: 640-47518-1

SDG Number: 47518

Job Description: HP-San German IB

For:
GZA GeoEnvironmental, Inc.
249 Vanderbilt Ave
Norwood, MA 02062

Attention: Ms. Jessica Yeager

Approved for release.
Amy Marks
Project Manager II
5/12/2014 5:14 PM

Amy Marks, Project Manager II
2846 Industrial Plaza Drive, Tallahassee, FL, 32301
(850)878-3994
amy.marks@testamericainc.com
05/12/2014

These test results meet all the requirements of NELAC unless specified in the case narrative. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request. The results contained in this test report relate only to the samples included herein.

TestAmerica Tallahassee NELAC (FL) Certification No. E81005

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	RPD of the LCS and LCSD exceeds the control limits
X	Surrogate is outside control limits

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job Narrative
640-47518-1

Comments
Results for the following samples are reported under separate cover per client request: GZ-702U Drill Water (640-47571-12), Treated Purge Water (640-47571-15). All other results are included in the attached report.

Receipt
The samples were received on 4/16/2014 9:45 AM, 4/17/2014 9:35 AM and 4/18/2014 9:35 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 0.2º C, 0.6º C, 1.0º C, 2.2º C and 4.8º C.

Except:

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): DEC-204O. The container labels list DEC-204O while the COC lists OW-204O. The client was contacted and verified the correct sample ID as DEC-204O.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): Trip Blank 4. The container labels list Trip Blank 4 while the COC lists Trip Blank 3. The client was contacted and verified the correct sample ID as Trip Blank 4.

GC/MS VOA
Method 8260B: Cis-1,2-Dichloroethene and Trichloroethene were detected above the reporting limit (RL) in the Equipment Blank associated with this project. Insufficient sample was provided for re-analysis.

Method 8260B: The following samples were diluted due to the abundance of target analytes: OW-305I (64-47518-6), OW-101 (640-47539-16), OW-307 (640-47539-17), OW-304L (640-47571-6), OW-304L DUP (640-47571-7), GZ-703R (640-47571-8), OW-304R (640-47571-14). Elevated reporting limits are provided.

Method 8260B: Surrogate recovery for the method blank (MB) in batch 326794 was outside the upper project specific control limit. This blank did not contain any target analytes; therefore, re-analysis was not performed.

Method 8260B: The precision (RPD) of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch 326297 recovered outside control limits for the following analyte: Dichlorodifluoromethane. All accuracy (%Rec) criteria were met and the affected target analyte was not detected in any of the associated samples; therefore, results have been qualified and reported.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate(MS/MSD) associated with batches 327297, 326410 and 326794.

No other analytical or quality issues were noted.

GC VOA
Method RSK-175: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 326613.

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 353.2: The following sample was analyzed for Nitrite as N outside of the method required 48 hour analytical holding time for an unpreserved sample due to laboratory error: OW-402U (640-47539-11). The combined Nitrate Nitrite as N was analyzed from a preserved container within the 28-day holding time and the results are included in the attached report for this sample. Nitrate as N was calculated and reported using the in hold Nitrate Nitrite as N result and the out of hold Nitrite as N result. Results have been qualified accordingly.

No other analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: GZA GeoEnvironmental, Inc.
Project/Site: HP-San German IB

TestAmerica Job ID: 640-47518-1
SDG: 47518

Client Sample ID: GZ-505L — Lab Sample ID: 640-47518-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethylene	3.7		1.0	0.15	ug/L	1		8260B	Total/NA
Total Organic Carbon	3.1		1.0	0.50	mg/L	1		5310 B-2011	Total/NA

Client Sample ID: GZ-505R — Lab Sample ID: 640-47518-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethylene	84		1.0	0.15	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.73	J	1.0	0.11	ug/L	1		8260B	Total/NA
Tetrachloroethene	1.0		1.0	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.66	J	1.0	0.20	ug/L	1		8260B	Total/NA
Trichloroethene	91		1.0	0.13	ug/L	1		8260B	Total/NA
Methane	33		0.58	0.29	ug/L	1		RSK-175	Total/NA
Chloride	15		0.50	0.25	mg/L	1		300.0	Total/NA
Sulfate	35		0.50	0.25	mg/L	1		300.0	Total/NA
Nitrate as N	0.81		0.25	0.050	mg/L	5		353.2	Total/NA
Total Organic Carbon	0.74	J	1.0	0.50	mg/L	1		5310 B-2011	Total/NA

Client Sample ID: GZ-503U — Lab Sample ID: 640-47518-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethylene	24		1.0	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.71	J	1.0	0.20	ug/L	1		8260B	Total/NA
Trichloroethene	0.60	J	1.0	0.13	ug/L	1		8260B	Total/NA
Total Organic Carbon	5.5		1.0	0.50	mg/L	1		5310 B-2011	Total/NA

Client Sample ID: GZ-502L — Lab Sample ID: 640-47518-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethylene	22		1.0	0.15	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.34	J	1.0	0.11	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.27	J	1.0	0.20	ug/L	1		8260B	Total/NA
Trichloroethene	13		1.0	0.13	ug/L	1		8260B	Total/NA
Vinyl chloride	0.56	J	1.0	0.18	ug/L	1		8260B	Total/NA
Methane	4.0		0.58	0.29	ug/L	1		RSK-175	Total/NA
Chloride	31		0.50	0.25	mg/L	1		300.0	Total/NA
Sulfate	57		1.0	0.50	mg/L	2		300.0	Total/NA
Total Organic Carbon	0.90	J	1.0	0.50	mg/L	1		5310 B-2011	Total/NA

Client Sample ID: OW-305U — Lab Sample ID: 640-47518-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethylene	51		1.0	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.87	J	1.0	0.20	ug/L	1		8260B	Total/NA
Trichloroethene	25		1.0	0.13	ug/L	1		8260B	Total/NA
Vinyl chloride	0.93	J	1.0	0.18	ug/L	1		8260B	Total/NA
Methane	22		0.58	0.29	ug/L	1		RSK-175	Total/NA
Chloride	9.8		0.50	0.25	mg/L	1		300.0	Total/NA
Sulfate	17		0.50	0.25	mg/L	1		300.0	Total/NA
Dissolved Iron	120		50	24	ug/L	1		6010B	Dissolved
Total Organic Carbon	2.4		1.0	0.50	mg/L	1		5310 B-2011	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: GZA GeoEnvironmental, Inc.
Project/Site: HP-San German IB

TestAmerica Job ID: 640-47518-1
SDG: 47518

Client Sample ID: OW-305I — Lab Sample ID: 640-47518-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethylene	610		10	1.5	ug/L	10		8260B	Total/NA
trans-1,2-Dichloroethene	17		10	2.0	ug/L	10		8260B	Total/NA
Trichloroethene	46		10	1.3	ug/L	10		8260B	Total/NA
Vinyl chloride	81		10	1.8	ug/L	10		8260B	Total/NA
Total Organic Carbon	1.1		1.0	0.50	mg/L	1		5310 B-2011	Total/NA

Client Sample ID: GZ-503L — Lab Sample ID: 640-47518-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethylene	90		1.0	0.15	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.81	J	1.0	0.11	ug/L	1		8260B	Total/NA
Tetrachloroethene	1.8		1.0	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	4.2		1.0	0.20	ug/L	1		8260B	Total/NA
Trichloroethene	94		1.0	0.13	ug/L	1		8260B	Total/NA
Vinyl chloride	7.0		1.0	0.18	ug/L	1		8260B	Total/NA
Methane	37		0.58	0.29	ug/L	1		RSK-175	Total/NA
Chloride	27		0.50	0.25	mg/L	1		300.0	Total/NA
Sulfate	39		0.50	0.25	mg/L	1		300.0	Total/NA
Dissolved Iron	79		50	24	ug/L	1		6010B	Dissolved
Nitrate as N	0.069		0.050	0.010	mg/L	1		353.2	Total/NA
Total Organic Carbon	1.1		1.0	0.50	mg/L	1		5310 B-2011	Total/NA

Client Sample ID: GZ-501L — Lab Sample ID: 640-47518-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethylene	13		1.0	0.15	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.41	J	1.0	0.11	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.68	J	1.0	0.15	ug/L	1		8260B	Total/NA
Trichloroethene	22		1.0	0.13	ug/L	1		8260B	Total/NA
Total Organic Carbon	0.95	J	1.0	0.50	mg/L	1		5310 B-2011	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 640-47518-9

No Detections.

Client Sample ID: GZ-515U — Lab Sample ID: 640-47518-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	0.30	J	0.58	0.29	ug/L	1		RSK-175	Total/NA
Chloride	5.1		0.50	0.25	mg/L	1		300.0	Total/NA
Sulfate	14		0.50	0.25	mg/L	1		300.0	Total/NA
Nitrate as N	1.7		0.25	0.050	mg/L	5		353.2	Total/NA
Total Organic Carbon	5.8		1.0	0.50	mg/L	1		5310 B-2011	Total/NA

Client Sample ID: WB-4L — Lab Sample ID: 640-47518-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethylene	38		1.0	0.15	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.41	J	1.0	0.11	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.33	J	1.0	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.42	J	1.0	0.20	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: GZA GeoEnvironmental, Inc.
Project/Site: HP-San German IB

TestAmerica Job ID: 640-47518-1
SDG: 47518

Client Sample ID: WB-4L (Continued) — Lab Sample ID: 640-47518-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	63		1.0	0.13	ug/L	1		8260B	Total/NA
Vinyl chloride	0.45	J	1.0	0.18	ug/L	1		8260B	Total/NA
Methane	1.4		0.58	0.29	ug/L	1		RSK-175	Total/NA
Chloride	19		0.50	0.25	mg/L	1		300.0	Total/NA
Sulfate	31		0.50	0.25	mg/L	1		300.0	Total/NA
Total Organic Carbon	0.95	J	1.0	0.50	mg/L	1		5310 B-2011	Total/NA

Client Sample ID: WB-3L — Lab Sample ID: 640-47518-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethylene	75		1.0	0.15	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.48	J	1.0	0.11	ug/L	1		8260B	Total/NA
Tetrachloroethene	3.7		1.0	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	2.6		1.0	0.20	ug/L	1		8260B	Total/NA
Trichloroethene	59		1.0	0.13	ug/L	1		8260B	Total/NA
Vinyl chloride	2.9		1.0	0.18	ug/L	1		8260B	Total/NA
Methane	2.0		0.58	0.29	ug/L	1		RSK-175	Total/NA
Chloride	24		0.50	0.25	mg/L	1		300.0	Total/NA
Sulfate	34		0.50	0.25	mg/L	1		300.0	Total/NA
Dissolved Iron	84		50	24	ug/L	1		6010B	Dissolved
Nitrate as N	0.38		0.050	0.010	mg/L	1		353.2	Total/NA
Total Organic Carbon	0.78	J	1.0	0.50	mg/L	1		5310 B-2011	Total/NA

Client Sample ID: WB-2L — Lab Sample ID: 640-47518-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethylene	6.9		1.0	0.15	ug/L	1		8260B	Total/NA
Trichloroethene	3.0		1.0	0.13	ug/L	1		8260B	Total/NA
Total Organic Carbon	5.2		1.0	0.50	mg/L	1		5310 B-2011	Total/NA

Client Sample ID: WB-2L DUP — Lab Sample ID: 640-47518-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethylene	7.5		1.0	0.15	ug/L	1		8260B	Total/NA
Trichloroethene	3.0		1.0	0.13	ug/L	1		8260B	Total/NA

Client Sample ID: OW-404R — Lab Sample ID: 640-47518-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethylene	140		1.0	0.15	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.55	J	1.0	0.11	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.6		1.0	0.20	ug/L	1		8260B	Total/NA
Trichloroethene	97		1.0	0.13	ug/L	1		8260B	Total/NA
Vinyl chloride	1.3		1.0	0.18	ug/L	1		8260B	Total/NA
Methane	26		0.58	0.29	ug/L	1		RSK-175	Total/NA
Chloride	9.2		0.50	0.25	mg/L	1		300.0	Total/NA
Sulfate	25		0.50	0.25	mg/L	1		300.0	Total/NA
Dissolved Iron	120		50	24	ug/L	1		6010B	Dissolved
Total Organic Carbon	1.6		1.0	0.50	mg/L	1		5310 B-2011	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: GZA GeoEnvironmental, Inc.
Project/Site: HP-San German IB

TestAmerica Job ID: 640-47518-1
SDG: 47518

Client Sample ID: WB-1L — Lab Sample ID: 640-47518-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethylene	110		1.0	0.15	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.51	J	1.0	0.11	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.1		1.0	0.20	ug/L	1		8260B	Total/NA
Trichloroethene	76		1.0	0.13	ug/L	1		8260B	Total/NA
Total Organic Carbon	1.4		1.0	0.50	mg/L	1		5310 B-2011	Total/NA

Client Sample ID: Field Blank — Lab Sample ID: 640-47518-17

No Detections.

Client Sample ID: GZ-504R — Lab Sample ID: 640-47518-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethylene	7.6		1.0	0.15	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.17	J	1.0	0.11	ug/L	1		8260B	Total/NA
Trichloroethene	14		1.0	0.13	ug/L	1		8260B	Total/NA
Methane	0.90		0.58	0.29	ug/L	1		RSK-175	Total/NA
Chloride	24		0.50	0.25	mg/L	1		300.0	Total/NA
Sulfate	80		1.0	0.50	mg/L	2		300.0	Total/NA
Nitrate as N	0.065		0.050	0.010	mg/L	1		353.2	Total/NA
Total Organic Carbon	0.85	J	1.0	0.50	mg/L	1		5310 B-2011	Total/NA

Client Sample ID: Trip Blank 2 — Lab Sample ID: 640-47518-19

No Detections.

Client Sample ID: GZ-504L — Lab Sample ID: 640-47518-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethylene	28		1.0	0.15	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.17	J	1.0	0.11	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.34	J	1.0	0.20	ug/L	1		8260B	Total/NA
Trichloroethene	5.4		1.0	0.13	ug/L	1		8260B	Total/NA
Total Organic Carbon	1.0		1.0	0.50	mg/L	1		5310 B-2011	Total/NA

Client Sample ID: GZ-506U — Lab Sample ID: 640-47539-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethylene	0.55	J	1.0	0.15	ug/L	1		8260B	Total/NA
Trichloroethene	1.3		1.0	0.13	ug/L	1		8260B	Total/NA
Total Organic Carbon	1.0		1.0	0.50	mg/L	1		5310 B-2011	Total/NA

Client Sample ID: OW-102 — Lab Sample ID: 640-47539-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethylene	2.1		1.0	0.15	ug/L	1		8260B	Total/NA
Trichloroethene	2.0		1.0	0.13	ug/L	1		8260B	Total/NA
Total Organic Carbon	0.59	J	1.0	0.50	mg/L	1		5310 B-2011	Total/NA

Client Sample ID: OW-102 DUP — Lab Sample ID: 640-47539-3

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: GZA GeoEnvironmental, Inc.
Project/Site: HP-San German IB

TestAmerica Job ID: 640-47518-1
SDG: 47518

Client Sample ID: OW-102 DUP (Continued) — Lab Sample ID: 640-47539-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethylene	2.3		1.0	0.15	ug/L	1		8260B	Total/NA
Trichloroethene	1.7		1.0	0.13	ug/L	1		8260B	Total/NA

Client Sample ID: OW-403L — Lab Sample ID: 640-47539-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethylene	47		1.0	0.15	ug/L	1		8260B	Total/NA
Dichlorodifluoromethane	4.7		1.0	0.25	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	0.92	J	1.0	0.25	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.47	J	1.0	0.11	ug/L	1		8260B	Total/NA
Tetrachloroethene	1.1		1.0	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.53	J	1.0	0.20	ug/L	1		8260B	Total/NA
Trichloroethene	66		1.0	0.13	ug/L	1		8260B	Total/NA
Vinyl chloride	2.0		1.0	0.18	ug/L	1		8260B	Total/NA
Methane	22		0.58	0.29	ug/L	1		RSK-175	Total/NA
Chloride	49		1.0	0.50	mg/L	2		300.0	Total/NA
Sulfate	85		1.0	0.50	mg/L	2		300.0	Total/NA
Nitrate as N	0.61		0.10	0.020	mg/L	2		353.2	Total/NA
Total Organic Carbon	0.69	J	1.0	0.50	mg/L	1		5310 B-2011	Total/NA

Client Sample ID: DEC-204O — Lab Sample ID: 640-47539-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.11	J	1.0	0.11	ug/L	1		8260B	Total/NA
Tetrachloroethene	1.5		1.0	0.15	ug/L	1		8260B	Total/NA
Trichloroethene	0.56	J	1.0	0.13	ug/L	1		8260B	Total/NA
Total Organic Carbon	1.3		1.0	0.50	mg/L	1		5310 B-2011	Total/NA

Client Sample ID: OW-301 — Lab Sample ID: 640-47539-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4.3		0.50	0.25	mg/L	1		300.0	Total/NA
Sulfate	40		0.50	0.25	mg/L	1		300.0	Total/NA
Nitrate as N	0.92		0.10	0.020	mg/L	2		353.2	Total/NA
Total Organic Carbon	0.85	J	1.0	0.50	mg/L	1		5310 B-2011	Total/NA

Client Sample ID: OW-408 — Lab Sample ID: 640-47539-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethylene	40		1.0	0.15	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	1.2		1.0	0.11	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	11		1.0	0.20	ug/L	1		8260B	Total/NA
Trichloroethene	1.7		1.0	0.13	ug/L	1		8260B	Total/NA
Vinyl chloride	1.8		1.0	0.18	ug/L	1		8260B	Total/NA
Total Organic Carbon	0.83	J	1.0	0.50	mg/L	1		5310 B-2011	Total/NA

Client Sample ID: Trip Blank 4 — Lab Sample ID: 640-47539-9

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: GZA GeoEnvironmental, Inc.
Project/Site: HP-San German IB

TestAmerica Job ID: 640-47518-1
SDG: 47518

Client Sample ID: Field Blank — Lab Sample ID: 640-47539-10

No Detections.

Client Sample ID: OW-402U — Lab Sample ID: 640-47539-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethylene	17		1.0	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.55	J	1.0	0.20	ug/L	1		8260B	Total/NA
Trichloroethene	39		1.0	0.13	ug/L	1		8260B	Total/NA
Methane	2.0		0.58	0.29	ug/L	1		RSK-175	Total/NA
Chloride	8.5		0.50	0.25	mg/L	1		300.0	Total/NA
Sulfate	14		0.50	0.25	mg/L	1		300.0	Total/NA
Dissolved Iron	32	J	50	24	ug/L	1		6010B	Dissolved
Nitrate as N	0.55	H	0.050	0.010	mg/L	1		353.2	Total/NA
Nitrate Nitrite as N	0.55		0.050	0.010	mg/L	1		353.2	Total/NA
Total Organic Carbon	1.1		1.0	0.50	mg/L	1		5310 B-2011	Total/NA

Client Sample ID: OW-402L — Lab Sample ID: 640-47539-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.34	J	1.0	0.14	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethylene	49		1.0	0.15	ug/L	1		8260B	Total/NA
Dichlorodifluoromethane	0.77	J	1.0	0.25	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	0.49	J	1.0	0.25	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.52	J	1.0	0.11	ug/L	1		8260B	Total/NA
Tetrachloroethene	12		1.0	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.68	J	1.0	0.20	ug/L	1		8260B	Total/NA
Trichloroethene	34		1.0	0.13	ug/L	1		8260B	Total/NA
Vinyl chloride	0.38	J	1.0	0.18	ug/L	1		8260B	Total/NA
Total Organic Carbon	0.71	J	1.0	0.50	mg/L	1		5310 B-2011	Total/NA

Client Sample ID: OW-402R — Lab Sample ID: 640-47539-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.20	J	1.0	0.14	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethylene	37		1.0	0.15	ug/L	1		8260B	Total/NA
Dichlorodifluoromethane	0.46	J	1.0	0.25	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	0.35	J	1.0	0.25	ug/L	1		8260B	Total/NA
Tetrachloroethene	5.5		1.0	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.93	J	1.0	0.20	ug/L	1		8260B	Total/NA
Trichloroethene	21		1.0	0.13	ug/L	1		8260B	Total/NA
Methane	0.44	J	0.58	0.29	ug/L	1		RSK-175	Total/NA
Chloride	37		0.50	0.25	mg/L	1		300.0	Total/NA
Sulfate	70		1.0	0.50	mg/L	2		300.0	Total/NA
Nitrate as N	0.94		0.10	0.020	mg/L	2		353.2	Total/NA
Total Organic Carbon	0.69	J	1.0	0.50	mg/L	1		5310 B-2011	Total/NA

Client Sample ID: GZ-519U — Lab Sample ID: 640-47539-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	2.7		1.0	0.14	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethylene	44		1.0	0.15	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	1.1		1.0	0.11	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: GZA GeoEnvironmental, Inc.
Project/Site: HP-San German IB

TestAmerica Job ID: 640-47518-1
SDG: 47518

Client Sample ID: GZ-519U (Continued) — Lab Sample ID: 640-47539-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	1.2		1.0	0.20	ug/L	1		8260B	Total/NA
Trichloroethene	110		1.0	0.13	ug/L	1		8260B	Total/NA
Methane	1.6		0.58	0.29	ug/L	1		RSK-175	Total/NA
Chloride	22		0.50	0.25	mg/L	1		300.0	Total/NA
Sulfate	140		2.0	1.0	mg/L	4		300.0	Total/NA
Nitrate as N	0.22		0.050	0.010	mg/L	1		353.2	Total/NA
Total Organic Carbon	1.0		1.0	0.50	mg/L	1		5310 B-2011	Total/NA

Client Sample ID: OW-101L — Lab Sample ID: 640-47539-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethylene	70		1.0	0.15	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.60	J	1.0	0.11	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.91	J	1.0	0.20	ug/L	1		8260B	Total/NA
Trichloroethene	3.2		1.0	0.13	ug/L	1		8260B	Total/NA
Vinyl chloride	0.85	J	1.0	0.18	ug/L	1		8260B	Total/NA
Methane	4.4		0.58	0.29	ug/L	1		RSK-175	Total/NA
Chloride	30		0.50	0.25	mg/L	1		300.0	Total/NA
Sulfate	54		1.0	0.50	mg/L	2		300.0	Total/NA
Dissolved Iron	1200		50	24	ug/L	1		6010B	Dissolved
Total Organic Carbon	0.68	J	1.0	0.50	mg/L	1		5310 B-2011	Total/NA

Client Sample ID: OW-101 — Lab Sample ID: 640-47539-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethylene	730		5.0	0.75	ug/L	5		8260B	Total/NA
1,1-Dichloroethene	9.2		5.0	0.55	ug/L	5		8260B	Total/NA
trans-1,2-Dichloroethene	120		5.0	1.0	ug/L	5		8260B	Total/NA
Trichloroethene	520		5.0	0.65	ug/L	5		8260B	Total/NA
Vinyl chloride	13		5.0	0.90	ug/L	5		8260B	Total/NA
Methane	160		0.58	0.29	ug/L	1		RSK-175	Total/NA
Chloride	17		0.50	0.25	mg/L	1		300.0	Total/NA
Sulfate	19		0.50	0.25	mg/L	1		300.0	Total/NA
Dissolved Iron	62		50	24	ug/L	1		6010B	Dissolved
Nitrate as N	0.042	J	0.050	0.010	mg/L	1		353.2	Total/NA
Total Organic Carbon	1.4		1.0	0.50	mg/L	1		5310 B-2011	Total/NA

Client Sample ID: OW-307 — Lab Sample ID: 640-47539-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethylene	500		5.0	0.75	ug/L	5		8260B	Total/NA
trans-1,2-Dichloroethene	7.3		5.0	1.0	ug/L	5		8260B	Total/NA
Trichloroethene	930		5.0	0.65	ug/L	5		8260B	Total/NA
Vinyl chloride	1.9	J	5.0	0.90	ug/L	5		8260B	Total/NA
Ethane	3.8		1.1	0.55	ug/L	1		RSK-175	Total/NA
Methane	220		0.58	0.29	ug/L	1		RSK-175	Total/NA
Chloride	7.7		0.50	0.25	mg/L	1		300.0	Total/NA
Sulfate	15		0.50	0.25	mg/L	1		300.0	Total/NA
Nitrate as N	0.017	J	0.050	0.010	mg/L	1		353.2	Total/NA
Total Organic Carbon	0.95	J	1.0	0.50	mg/L	1		5310 B-2011	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: GZA GeoEnvironmental, Inc.
Project/Site: HP-San German IB

TestAmerica Job ID: 640-47518-1
SDG: 47518

Client Sample ID: Trip Blank 3 — Lab Sample ID: 640-47539-18

No Detections.

Client Sample ID: OW-304U — Lab Sample ID: 640-47571-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethylene	1.3		1.0	0.15	ug/L	1		8260B	Total/NA
Total Organic Carbon	1.5		1.0	0.50	mg/L	1		5310 B-2011	Total/NA

Client Sample ID: GZ-702U — Lab Sample ID: 640-47571-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethylene	0.35	J	1.0	0.15	ug/L	1		8260B	Total/NA

Client Sample ID: GZ-701L — Lab Sample ID: 640-47571-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.58	J	1.0	0.14	ug/L	1		8260B	Total/NA

Client Sample ID: GZ-701R — Lab Sample ID: 640-47571-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.29	J	1.0	0.14	ug/L	1		8260B	Total/NA

Client Sample ID: Trip Blank 5 — Lab Sample ID: 640-47571-5

No Detections.

Client Sample ID: OW-304L — Lab Sample ID: 640-47571-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	4.3	J	10	1.4	ug/L	10		8260B	Total/NA
Chloromethane	4.0	J	10	3.3	ug/L	10		8260B	Total/NA
cis-1,2-Dichloroethylene	590		10	1.5	ug/L	10		8260B	Total/NA
1,1-Dichloroethane	12		10	2.5	ug/L	10		8260B	Total/NA
1,1-Dichloroethene	10		10	1.1	ug/L	10		8260B	Total/NA
Tetrachloroethene	3.5	J	10	1.5	ug/L	10		8260B	Total/NA
trans-1,2-Dichloroethene	5.3	J	10	2.0	ug/L	10		8260B	Total/NA
Trichloroethene	1600		10	1.3	ug/L	10		8260B	Total/NA
Vinyl chloride	33		10	1.8	ug/L	10		8260B	Total/NA
Methane	19		0.58	0.29	ug/L	1		RSK-175	Total/NA
Chloride	58		1.0	0.50	mg/L	2		300.0	Total/NA
Sulfate	79		1.0	0.50	mg/L	2		300.0	Total/NA
Nitrate as N	1.6		0.050	0.010	mg/L	1		353.2	Total/NA
Total Organic Carbon	2.2		1.0	0.50	mg/L	1		5310 B-2011	Total/NA

Client Sample ID: OW-304L DUP — Lab Sample ID: 640-47571-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethylene	510		10	1.5	ug/L	10		8260B	Total/NA
1,1-Dichloroethane	7.1	J	10	2.5	ug/L	10		8260B	Total/NA
1,2-Dichloroethane	4.6	J	10	1.0	ug/L	10		8260B	Total/NA
1,1-Dichloroethene	6.7	J	10	1.1	ug/L	10		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: OW-304L DUP (Continued) — Lab Sample ID: 640-47571-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	3.4	J	10	1.5	ug/L	10		8260B	Total/NA
trans-1,2-Dichloroethene	3.5	J	10	2.0	ug/L	10		8260B	Total/NA
Trichloroethene	1600		10	1.3	ug/L	10		8260B	Total/NA
Vinyl chloride	28		10	1.8	ug/L	10		8260B	Total/NA

Client Sample ID: GZ-703R — Lab Sample ID: 640-47571-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethylene	25		2.0	0.30	ug/L	2		8260B	Total/NA
1,1-Dichloroethene	2.4		2.0	0.22	ug/L	2		8260B	Total/NA
Tetrachloroethene	2.1		2.0	0.30	ug/L	2		8260B	Total/NA
Trichloroethene	230		2.0	0.26	ug/L	2		8260B	Total/NA

Client Sample ID: GZ-506R — Lab Sample ID: 640-47571-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.28	J	1.0	0.14	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethylene	52		1.0	0.15	ug/L	1		8260B	Total/NA
Dichlorodifluoromethane	0.72	J	1.0	0.25	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	0.65	J	1.0	0.25	ug/L	1		8260B	Total/NA
1,2-Dichloroethane	0.20	J	1.0	0.10	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.76	J	1.0	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.83	J	1.0	0.20	ug/L	1		8260B	Total/NA
Trichloroethene	120		1.0	0.13	ug/L	1		8260B	Total/NA
Methane	0.44	J	0.58	0.29	ug/L	1		RSK-175	Total/NA
Chloride	34		0.50	0.25	mg/L	1		300.0	Total/NA
Sulfate	50		1.0	0.50	mg/L	2		300.0	Total/NA
Nitrate as N	0.26		0.050	0.010	mg/L	1		353.2	Total/NA
Total Organic Carbon	0.62	J	1.0	0.50	mg/L	1		5310 B-2011	Total/NA

Client Sample ID: GZ-601L — Lab Sample ID: 640-47571-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.38	J	10	0.20	ug/L	1		8260B	Total/NA

Client Sample ID: GZ-601R — Lab Sample ID: 640-47571-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethylene	32		1.0	0.15	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	0.67	J	1.0	0.25	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.60	J	1.0	0.11	ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	110		10	0.20	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.27	J	1.0	0.20	ug/L	1		8260B	Total/NA
Trichloroethene	2.4		1.0	0.13	ug/L	1		8260B	Total/NA
Vinyl chloride	0.58	J	1.0	0.18	ug/L	1		8260B	Total/NA
Ethylene	2.4		1.0	0.50	ug/L	1		RSK-175	Total/NA
Methane	13		0.58	0.29	ug/L	1		RSK-175	Total/NA
Chloride	29		0.50	0.25	mg/L	1		300.0	Total/NA
Sulfate	55		1.0	0.50	mg/L	2		300.0	Total/NA
Dissolved Iron	120		50	24	ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: GZA GeoEnvironmental, Inc.
Project/Site: HP-San German IB

TestAmerica Job ID: 640-47518-1
SDG: 47518

Client Sample ID: GZ-601R (Continued) — Lab Sample ID: 640-47571-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	0.65	J	1.0	0.50	mg/L	1		5310 B-2011	Total/NA

Client Sample ID: Field Blank — Lab Sample ID: 640-47571-13

No Detections.

Client Sample ID: OW-304R — Lab Sample ID: 640-47571-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethylene	130		10	1.5	ug/L	10		8260B	Total/NA
1,1-Dichloroethane	3.0	J	10	2.5	ug/L	10		8260B	Total/NA
1,2-Dichloroethane	4.2	J	10	1.0	ug/L	10		8260B	Total/NA
Tetrachloroethene	3.4	J	10	1.5	ug/L	10		8260B	Total/NA
trans-1,2-Dichloroethene	2.6	J	10	2.0	ug/L	10		8260B	Total/NA
Trichloroethene	1000		10	1.3	ug/L	10		8260B	Total/NA
Vinyl chloride	41		10	1.8	ug/L	10		8260B	Total/NA
Total Organic Carbon	0.77	J	1.0	0.50	mg/L	1		5310 B-2011	Total/NA

Client Sample ID: Equipment Blank — Lab Sample ID: 640-47571-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethylene	4.2		1.0	0.15	ug/L	1		8260B	Total/NA
Trichloroethene	9.8		1.0	0.13	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: GZ-505L

Lab Sample ID: 640-47518-1

Date Collected: 04/15/14 09:55

Matrix: Water

Date Received: 04/16/14 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/25/14 19:31	1
Bromoform	<1.0		1.0	0.50	ug/L			04/25/14 19:31	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/25/14 19:31	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/25/14 19:31	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/25/14 19:31	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/25/14 19:31	1
Chloroform	<1.0		1.0	0.14	ug/L			04/25/14 19:31	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/25/14 19:31	1
cis-1,2-Dichloroethylene	**3.7**		1.0	0.15	ug/L			04/25/14 19:31	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/25/14 19:31	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/25/14 19:31	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/25/14 19:31	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/25/14 19:31	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/25/14 19:31	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/25/14 19:31	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/25/14 19:31	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/25/14 19:31	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/25/14 19:31	1
1,1-Dichloroethene	<1.0		1.0	0.11	ug/L			04/25/14 19:31	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/25/14 19:31	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/25/14 19:31	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/25/14 19:31	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/25/14 19:31	1
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/25/14 19:31	1
trans-1,2-Dichloroethene	<1.0		1.0	0.20	ug/L			04/25/14 19:31	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/25/14 19:31	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/25/14 19:31	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/25/14 19:31	1
Trichloroethene	<1.0		1.0	0.13	ug/L			04/25/14 19:31	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/25/14 19:31	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/25/14 19:31	1
Vinyl chloride	<1.0		1.0	0.18	ug/L			04/25/14 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*70 - 119*		*04/25/14 19:31*	*1*
Dibromofluoromethane	*118*		*83 - 123*		*04/25/14 19:31*	*1*
Toluene-d8 (Surr)	*100*		*78 - 126*		*04/25/14 19:31*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**3.1**		1.0	0.50	mg/L			04/30/14 17:47	1

Client Sample ID: GZ-505R

Lab Sample ID: 640-47518-2

Date Collected: 04/15/14 10:40

Matrix: Water

Date Received: 04/16/14 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/26/14 14:31	1
Bromoform	<1.0		1.0	0.50	ug/L			04/26/14 14:31	1

Client Sample ID: GZ-505R

Date Collected: 04/15/14 10:40
Date Received: 04/16/14 09:45

Lab Sample ID: 640-47518-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<5.0		5.0	2.0	ug/L			04/26/14 14:31	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/26/14 14:31	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/26/14 14:31	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/26/14 14:31	1
Chloroform	<1.0		1.0	0.14	ug/L			04/26/14 14:31	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/26/14 14:31	1
cis-1,2-Dichloroethylene	**84**		1.0	0.15	ug/L			04/26/14 14:31	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/26/14 14:31	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/26/14 14:31	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/26/14 14:31	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/26/14 14:31	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/26/14 14:31	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/26/14 14:31	1
Dichlorodifluoromethane	<1.0	*	1.0	0.25	ug/L			04/26/14 14:31	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/26/14 14:31	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/26/14 14:31	1
1,1-Dichloroethene	**0.73**	**J**	1.0	0.11	ug/L			04/26/14 14:31	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/26/14 14:31	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/26/14 14:31	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/26/14 14:31	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/26/14 14:31	1
Tetrachloroethene	**1.0**		1.0	0.15	ug/L			04/26/14 14:31	1
trans-1,2-Dichloroethene	**0.66**	**J**	1.0	0.20	ug/L			04/26/14 14:31	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/26/14 14:31	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/26/14 14:31	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/26/14 14:31	1
Trichloroethene	**91**		1.0	0.13	ug/L			04/26/14 14:31	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/26/14 14:31	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/26/14 14:31	1
Vinyl chloride	<1.0		1.0	0.18	ug/L			04/26/14 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 119*		*04/26/14 14:31*	*1*
Dibromofluoromethane	*111*		*83 - 123*		*04/26/14 14:31*	*1*
Toluene-d8 (Surr)	*97*		*78 - 126*		*04/26/14 14:31*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	<1.1		1.1	0.55	ug/L			04/29/14 12:36	1
Ethylene	<1.0		1.0	0.50	ug/L			04/29/14 12:36	1
Methane	**33**		0.58	0.29	ug/L			04/29/14 12:36	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15**		0.50	0.25	mg/L			04/29/14 17:44	1
Sulfate	**35**		0.50	0.25	mg/L			04/29/14 17:44	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Iron	<50		50	24	ug/L		04/17/14 08:35	04/17/14 16:59	1

Client Sample ID: GZ-505R

Lab Sample ID: 640-47518-2

Date Collected: 04/15/14 10:40

Matrix: Water

Date Received: 04/16/14 09:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.81**		0.25	0.050	mg/L			04/16/14 19:12	5
Total Organic Carbon	**0.74**	**J**	1.0	0.50	mg/L			04/30/14 18:33	1

Client Sample ID: GZ-503U

Lab Sample ID: 640-47518-3

Date Collected: 04/15/14 11:30

Matrix: Water

Date Received: 04/16/14 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/25/14 20:16	1
Bromoform	<1.0		1.0	0.50	ug/L			04/25/14 20:16	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/25/14 20:16	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/25/14 20:16	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/25/14 20:16	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/25/14 20:16	1
Chloroform	<1.0		1.0	0.14	ug/L			04/25/14 20:16	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/25/14 20:16	1
cis-1,2-Dichloroethylene	**24**		1.0	0.15	ug/L			04/25/14 20:16	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/25/14 20:16	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/25/14 20:16	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/25/14 20:16	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/25/14 20:16	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/25/14 20:16	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/25/14 20:16	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/25/14 20:16	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/25/14 20:16	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/25/14 20:16	1
1,1-Dichloroethene	<1.0		1.0	0.11	ug/L			04/25/14 20:16	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/25/14 20:16	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/25/14 20:16	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/25/14 20:16	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/25/14 20:16	1
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/25/14 20:16	1
trans-1,2-Dichloroethene	**0.71**	**J**	1.0	0.20	ug/L			04/25/14 20:16	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/25/14 20:16	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/25/14 20:16	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/25/14 20:16	1
Trichloroethene	**0.60**	**J**	1.0	0.13	ug/L			04/25/14 20:16	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/25/14 20:16	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/25/14 20:16	1
Vinyl chloride	<1.0		1.0	0.18	ug/L			04/25/14 20:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 119*		*04/25/14 20:16*	*1*
Dibromofluoromethane	*114*		*83 - 123*		*04/25/14 20:16*	*1*
Toluene-d8 (Surr)	*101*		*78 - 126*		*04/25/14 20:16*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**5.5**		1.0	0.50	mg/L			04/30/14 18:47	1

Client Sample Results

Client: GZA GeoEnvironmental, Inc.
Project/Site: HP-San German IB

TestAmerica Job ID: 640-47518-1
SDG: 47518

Client Sample ID: GZ-502L

Date Collected: 04/15/14 12:20
Date Received: 04/16/14 09:45

Lab Sample ID: 640-47518-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/25/14 20:39	1
Bromoform	<1.0		1.0	0.50	ug/L			04/25/14 20:39	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/25/14 20:39	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/25/14 20:39	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/25/14 20:39	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/25/14 20:39	1
Chloroform	<1.0		1.0	0.14	ug/L			04/25/14 20:39	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/25/14 20:39	1
cis-1,2-Dichloroethylene	**22**		1.0	0.15	ug/L			04/25/14 20:39	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/25/14 20:39	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/25/14 20:39	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/25/14 20:39	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/25/14 20:39	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/25/14 20:39	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/25/14 20:39	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/25/14 20:39	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/25/14 20:39	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/25/14 20:39	1
1,1-Dichloroethene	**0.34**	**J**	1.0	0.11	ug/L			04/25/14 20:39	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/25/14 20:39	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/25/14 20:39	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/25/14 20:39	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/25/14 20:39	1
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/25/14 20:39	1
trans-1,2-Dichloroethene	**0.27**	**J**	1.0	0.20	ug/L			04/25/14 20:39	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/25/14 20:39	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/25/14 20:39	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/25/14 20:39	1
Trichloroethene	**13**		1.0	0.13	ug/L			04/25/14 20:39	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/25/14 20:39	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/25/14 20:39	1
Vinyl chloride	**0.56**	**J**	1.0	0.18	ug/L			04/25/14 20:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 119*		*04/25/14 20:39*	*1*
Dibromofluoromethane	*115*		*83 - 123*		*04/25/14 20:39*	*1*
Toluene-d8 (Surr)	*99*		*78 - 126*		*04/25/14 20:39*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	<1.1		1.1	0.55	ug/L			04/29/14 12:49	1
Ethylene	<1.0		1.0	0.50	ug/L			04/29/14 12:49	1
Methane	**4.0**		0.58	0.29	ug/L			04/29/14 12:49	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**31**		0.50	0.25	mg/L			04/29/14 17:59	1
Sulfate	**57**		1.0	0.50	mg/L			04/29/14 18:13	2

Client Sample ID: GZ-502L

Lab Sample ID: 640-47518-4

Date Collected: 04/15/14 12:20

Matrix: Water

Date Received: 04/16/14 09:45

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Iron	<50		50	24	ug/L		04/17/14 08:35	04/17/14 17:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.050		0.050	0.010	mg/L			04/16/14 19:08	1
Total Organic Carbon	**0.90**	**J**	1.0	0.50	mg/L			04/30/14 19:06	1

Client Sample ID: OW-305U

Lab Sample ID: 640-47518-5

Date Collected: 04/15/14 13:20

Matrix: Water

Date Received: 04/16/14 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/26/14 14:53	1
Bromoform	<1.0		1.0	0.50	ug/L			04/26/14 14:53	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/26/14 14:53	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/26/14 14:53	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/26/14 14:53	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/26/14 14:53	1
Chloroform	<1.0		1.0	0.14	ug/L			04/26/14 14:53	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/26/14 14:53	1
cis-1,2-Dichloroethylene	**51**		1.0	0.15	ug/L			04/26/14 14:53	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/26/14 14:53	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/26/14 14:53	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/26/14 14:53	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/26/14 14:53	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/26/14 14:53	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/26/14 14:53	1
Dichlorodifluoromethane	<1.0	*	1.0	0.25	ug/L			04/26/14 14:53	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/26/14 14:53	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/26/14 14:53	1
1,1-Dichloroethene	<1.0		1.0	0.11	ug/L			04/26/14 14:53	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/26/14 14:53	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/26/14 14:53	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/26/14 14:53	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/26/14 14:53	1
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/26/14 14:53	1
trans-1,2-Dichloroethene	**0.87**	**J**	1.0	0.20	ug/L			04/26/14 14:53	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/26/14 14:53	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/26/14 14:53	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/26/14 14:53	1
Trichloroethene	**25**		1.0	0.13	ug/L			04/26/14 14:53	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/26/14 14:53	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/26/14 14:53	1
Vinyl chloride	**0.93**	**J**	1.0	0.18	ug/L			04/26/14 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*70 - 119*		*04/26/14 14:53*	*1*
Dibromofluoromethane	*114*		*83 - 123*		*04/26/14 14:53*	*1*
Toluene-d8 (Surr)	*98*		*78 - 126*		*04/26/14 14:53*	*1*

Client Sample ID: OW-305U

Lab Sample ID: 640-47518-5

Date Collected: 04/15/14 13:20

Matrix: Water

Date Received: 04/16/14 09:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	<1.1		1.1	0.55	ug/L			04/29/14 13:02	1
Ethylene	<1.0		1.0	0.50	ug/L			04/29/14 13:02	1
Methane	**22**		0.58	0.29	ug/L			04/29/14 13:02	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.8**		0.50	0.25	mg/L			04/29/14 18:28	1
Sulfate	**17**		0.50	0.25	mg/L			04/29/14 18:28	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Iron	**120**		50	24	ug/L		04/17/14 08:35	04/17/14 17:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.050		0.050	0.010	mg/L			04/16/14 19:09	1
Total Organic Carbon	**2.4**		1.0	0.50	mg/L			04/30/14 19:22	1

Client Sample ID: OW-305I

Lab Sample ID: 640-47518-6

Date Collected: 04/15/14 14:05

Matrix: Water

Date Received: 04/16/14 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<10		10	1.6	ug/L			04/26/14 14:08	10
Bromoform	<10		10	5.0	ug/L			04/26/14 14:08	10
Bromomethane	<50		50	20	ug/L			04/26/14 14:08	10
Carbon tetrachloride	<10		10	5.0	ug/L			04/26/14 14:08	10
Chlorobenzene	<10		10	2.5	ug/L			04/26/14 14:08	10
Chloroethane	<50		50	20	ug/L			04/26/14 14:08	10
Chloroform	<10		10	1.4	ug/L			04/26/14 14:08	10
Chloromethane	<10		10	3.3	ug/L			04/26/14 14:08	10
cis-1,2-Dichloroethylene	**610**		10	1.5	ug/L			04/26/14 14:08	10
cis-1,3-Dichloropropene	<10		10	1.1	ug/L			04/26/14 14:08	10
Dibromochloromethane	<10		10	1.0	ug/L			04/26/14 14:08	10
Dibromomethane	<10		10	2.0	ug/L			04/26/14 14:08	10
1,2-Dichlorobenzene	<10		10	2.1	ug/L			04/26/14 14:08	10
1,3-Dichlorobenzene	<10		10	2.5	ug/L			04/26/14 14:08	10
1,4-Dichlorobenzene	<10		10	2.8	ug/L			04/26/14 14:08	10
Dichlorodifluoromethane	<10	*	10	2.5	ug/L			04/26/14 14:08	10
1,1-Dichloroethane	<10		10	2.5	ug/L			04/26/14 14:08	10
1,2-Dichloroethane	<10		10	1.0	ug/L			04/26/14 14:08	10
1,1-Dichloroethene	<10		10	1.1	ug/L			04/26/14 14:08	10
1,2-Dichloropropane	<10		10	1.3	ug/L			04/26/14 14:08	10
Methylene Chloride	<50		50	10	ug/L			04/26/14 14:08	10
1,1,1,2-Tetrachloroethane	<10		10	3.3	ug/L			04/26/14 14:08	10
1,1,2,2-Tetrachloroethane	<10		10	1.8	ug/L			04/26/14 14:08	10
Tetrachloroethene	<10		10	1.5	ug/L			04/26/14 14:08	10
trans-1,2-Dichloroethene	**17**		10	2.0	ug/L			04/26/14 14:08	10
trans-1,3-Dichloropropene	<10		10	2.1	ug/L			04/26/14 14:08	10

Client Sample ID: OW-305I

Lab Sample ID: 640-47518-6

Date Collected: 04/15/14 14:05

Matrix: Water

Date Received: 04/16/14 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<10		10	5.0	ug/L			04/26/14 14:08	10
1,1,2-Trichloroethane	<10		10	1.3	ug/L			04/26/14 14:08	10
Trichloroethene	**46**		10	1.3	ug/L			04/26/14 14:08	10
Trichlorofluoromethane	<10		10	2.5	ug/L			04/26/14 14:08	10
1,2,3-Trichloropropane	<10		10	4.1	ug/L			04/26/14 14:08	10
Vinyl chloride	**81**		10	1.8	ug/L			04/26/14 14:08	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*70 - 119*		*04/26/14 14:08*	*10*
Dibromofluoromethane	*106*		*83 - 123*		*04/26/14 14:08*	*10*
Toluene-d8 (Surr)	*100*		*78 - 126*		*04/26/14 14:08*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**1.1**		1.0	0.50	mg/L			04/30/14 20:12	1

Client Sample ID: GZ-503L

Lab Sample ID: 640-47518-7

Date Collected: 04/15/14 15:05

Matrix: Water

Date Received: 04/16/14 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/25/14 21:47	1
Bromoform	<1.0		1.0	0.50	ug/L			04/25/14 21:47	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/25/14 21:47	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/25/14 21:47	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/25/14 21:47	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/25/14 21:47	1
Chloroform	<1.0		1.0	0.14	ug/L			04/25/14 21:47	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/25/14 21:47	1
cis-1,2-Dichloroethylene	**90**		1.0	0.15	ug/L			04/25/14 21:47	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/25/14 21:47	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/25/14 21:47	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/25/14 21:47	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/25/14 21:47	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/25/14 21:47	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/25/14 21:47	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/25/14 21:47	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/25/14 21:47	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/25/14 21:47	1
1,1-Dichloroethene	**0.81**	**J**	1.0	0.11	ug/L			04/25/14 21:47	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/25/14 21:47	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/25/14 21:47	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/25/14 21:47	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/25/14 21:47	1
Tetrachloroethene	**1.8**		1.0	0.15	ug/L			04/25/14 21:47	1
trans-1,2-Dichloroethene	**4.2**		1.0	0.20	ug/L			04/25/14 21:47	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/25/14 21:47	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/25/14 21:47	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/25/14 21:47	1

Client Sample ID: GZ-503L

Lab Sample ID: 640-47518-7

Date Collected: 04/15/14 15:05

Matrix: Water

Date Received: 04/16/14 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**94**		1.0	0.13	ug/L			04/25/14 21:47	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/25/14 21:47	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/25/14 21:47	1
Vinyl chloride	**7.0**		1.0	0.18	ug/L			04/25/14 21:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 119*		*04/25/14 21:47*	*1*
Dibromofluoromethane	*111*		*83 - 123*		*04/25/14 21:47*	*1*
Toluene-d8 (Surr)	*94*		*78 - 126*		*04/25/14 21:47*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	<1.1		1.1	0.55	ug/L			04/29/14 13:15	1
Ethylene	<1.0		1.0	0.50	ug/L			04/29/14 13:15	1
Methane	**37**		0.58	0.29	ug/L			04/29/14 13:15	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**27**		0.50	0.25	mg/L			04/29/14 18:42	1
Sulfate	**39**		0.50	0.25	mg/L			04/29/14 18:42	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Iron	**79**		50	24	ug/L		04/17/14 08:42	04/17/14 20:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.069**		0.050	0.010	mg/L			04/16/14 19:16	1
Total Organic Carbon	**1.1**		1.0	0.50	mg/L			04/30/14 20:39	1

Client Sample ID: GZ-501L

Lab Sample ID: 640-47518-8

Date Collected: 04/15/14 16:20

Matrix: Water

Date Received: 04/16/14 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/25/14 22:09	1
Bromoform	<1.0		1.0	0.50	ug/L			04/25/14 22:09	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/25/14 22:09	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/25/14 22:09	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/25/14 22:09	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/25/14 22:09	1
Chloroform	<1.0		1.0	0.14	ug/L			04/25/14 22:09	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/25/14 22:09	1
cis-1,2-Dichloroethylene	**13**		1.0	0.15	ug/L			04/25/14 22:09	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/25/14 22:09	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/25/14 22:09	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/25/14 22:09	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/25/14 22:09	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/25/14 22:09	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/25/14 22:09	1

Client Sample ID: GZ-501L

Lab Sample ID: 640-47518-8

Date Collected: 04/15/14 16:20

Matrix: Water

Date Received: 04/16/14 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/25/14 22:09	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/25/14 22:09	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/25/14 22:09	1
1,1-Dichloroethene	**0.41**	**J**	1.0	0.11	ug/L			04/25/14 22:09	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/25/14 22:09	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/25/14 22:09	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/25/14 22:09	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/25/14 22:09	1
Tetrachloroethene	**0.68**	**J**	1.0	0.15	ug/L			04/25/14 22:09	1
trans-1,2-Dichloroethene	<1.0		1.0	0.20	ug/L			04/25/14 22:09	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/25/14 22:09	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/25/14 22:09	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/25/14 22:09	1
Trichloroethene	**22**		1.0	0.13	ug/L			04/25/14 22:09	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/25/14 22:09	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/25/14 22:09	1
Vinyl chloride	<1.0		1.0	0.18	ug/L			04/25/14 22:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 119*		*04/25/14 22:09*	*1*
Dibromofluoromethane	*114*		*83 - 123*		*04/25/14 22:09*	*1*
Toluene-d8 (Surr)	*100*		*78 - 126*		*04/25/14 22:09*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**0.95**	**J**	1.0	0.50	mg/L			04/30/14 20:58	1

Client Sample ID: Trip Blank

Lab Sample ID: 640-47518-9

Date Collected: 04/15/14 00:00

Matrix: Water

Date Received: 04/16/14 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/25/14 18:23	1
Bromoform	<1.0		1.0	0.50	ug/L			04/25/14 18:23	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/25/14 18:23	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/25/14 18:23	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/25/14 18:23	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/25/14 18:23	1
Chloroform	<1.0		1.0	0.14	ug/L			04/25/14 18:23	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/25/14 18:23	1
cis-1,2-Dichloroethylene	<1.0		1.0	0.15	ug/L			04/25/14 18:23	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/25/14 18:23	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/25/14 18:23	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/25/14 18:23	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/25/14 18:23	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/25/14 18:23	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/25/14 18:23	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/25/14 18:23	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/25/14 18:23	1

Client Sample ID: Trip Blank

Lab Sample ID: 640-47518-9

Date Collected: 04/15/14 00:00

Matrix: Water

Date Received: 04/16/14 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/25/14 18:23	1
1,1-Dichloroethene	<1.0		1.0	0.11	ug/L			04/25/14 18:23	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/25/14 18:23	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/25/14 18:23	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/25/14 18:23	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/25/14 18:23	1
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/25/14 18:23	1
trans-1,2-Dichloroethene	<1.0		1.0	0.20	ug/L			04/25/14 18:23	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/25/14 18:23	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/25/14 18:23	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/25/14 18:23	1
Trichloroethene	<1.0		1.0	0.13	ug/L			04/25/14 18:23	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/25/14 18:23	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/25/14 18:23	1
Vinyl chloride	<1.0		1.0	0.18	ug/L			04/25/14 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*70 - 119*		*04/25/14 18:23*	*1*
Dibromofluoromethane	*109*		*83 - 123*		*04/25/14 18:23*	*1*
Toluene-d8 (Surr)	*99*		*78 - 126*		*04/25/14 18:23*	*1*

Client Sample ID: GZ-515U

Lab Sample ID: 640-47518-10

Date Collected: 04/15/14 10:20

Matrix: Water

Date Received: 04/16/14 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/25/14 22:32	1
Bromoform	<1.0		1.0	0.50	ug/L			04/25/14 22:32	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/25/14 22:32	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/25/14 22:32	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/25/14 22:32	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/25/14 22:32	1
Chloroform	<1.0		1.0	0.14	ug/L			04/25/14 22:32	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/25/14 22:32	1
cis-1,2-Dichloroethylene	<1.0		1.0	0.15	ug/L			04/25/14 22:32	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/25/14 22:32	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/25/14 22:32	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/25/14 22:32	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/25/14 22:32	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/25/14 22:32	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/25/14 22:32	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/25/14 22:32	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/25/14 22:32	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/25/14 22:32	1
1,1-Dichloroethene	<1.0		1.0	0.11	ug/L			04/25/14 22:32	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/25/14 22:32	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/25/14 22:32	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/25/14 22:32	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/25/14 22:32	1

Client Sample ID: GZ-515U

Lab Sample ID: 640-47518-10

Date Collected: 04/15/14 10:20

Matrix: Water

Date Received: 04/16/14 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/25/14 22:32	1
trans-1,2-Dichloroethene	<1.0		1.0	0.20	ug/L			04/25/14 22:32	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/25/14 22:32	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/25/14 22:32	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/25/14 22:32	1
Trichloroethene	<1.0		1.0	0.13	ug/L			04/25/14 22:32	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/25/14 22:32	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/25/14 22:32	1
Vinyl chloride	<1.0		1.0	0.18	ug/L			04/25/14 22:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*70 - 119*		*04/25/14 22:32*	*1*
Dibromofluoromethane	*114*		*83 - 123*		*04/25/14 22:32*	*1*
Toluene-d8 (Surr)	*101*		*78 - 126*		*04/25/14 22:32*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	<1.1		1.1	0.55	ug/L			04/29/14 13:27	1
Ethylene	<1.0		1.0	0.50	ug/L			04/29/14 13:27	1
Methane	**0.30**	**J**	0.58	0.29	ug/L			04/29/14 13:27	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.1**		0.50	0.25	mg/L			04/29/14 18:56	1
Sulfate	**14**		0.50	0.25	mg/L			04/29/14 18:56	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Iron	<50		50	24	ug/L		04/17/14 08:42	04/17/14 21:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**1.7**		0.25	0.050	mg/L			04/16/14 19:21	5
Total Organic Carbon	**5.8**		1.0	0.50	mg/L			04/30/14 21:16	1

Client Sample ID: WB-4L

Lab Sample ID: 640-47518-11

Date Collected: 04/15/14 11:35

Matrix: Water

Date Received: 04/16/14 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/25/14 22:54	1
Bromoform	<1.0		1.0	0.50	ug/L			04/25/14 22:54	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/25/14 22:54	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/25/14 22:54	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/25/14 22:54	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/25/14 22:54	1
Chloroform	<1.0		1.0	0.14	ug/L			04/25/14 22:54	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/25/14 22:54	1
cis-1,2-Dichloroethylene	**38**		1.0	0.15	ug/L			04/25/14 22:54	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/25/14 22:54	1

Client Sample ID: WB-4L

Lab Sample ID: 640-47518-11

Date Collected: 04/15/14 11:35

Matrix: Water

Date Received: 04/16/14 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/25/14 22:54	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/25/14 22:54	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/25/14 22:54	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/25/14 22:54	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/25/14 22:54	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/25/14 22:54	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/25/14 22:54	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/25/14 22:54	1
1,1-Dichloroethene	**0.41**	**J**	1.0	0.11	ug/L			04/25/14 22:54	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/25/14 22:54	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/25/14 22:54	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/25/14 22:54	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/25/14 22:54	1
Tetrachloroethene	**0.33**	**J**	1.0	0.15	ug/L			04/25/14 22:54	1
trans-1,2-Dichloroethene	**0.42**	**J**	1.0	0.20	ug/L			04/25/14 22:54	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/25/14 22:54	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/25/14 22:54	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/25/14 22:54	1
Trichloroethene	**63**		1.0	0.13	ug/L			04/25/14 22:54	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/25/14 22:54	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/25/14 22:54	1
Vinyl chloride	**0.45**	**J**	1.0	0.18	ug/L			04/25/14 22:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 119*		*04/25/14 22:54*	*1*
Dibromofluoromethane	*117*		*83 - 123*		*04/25/14 22:54*	*1*
Toluene-d8 (Surr)	*98*		*78 - 126*		*04/25/14 22:54*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	<1.1		1.1	0.55	ug/L			04/29/14 13:40	1
Ethylene	<1.0		1.0	0.50	ug/L			04/29/14 13:40	1
Methane	**1.4**		0.58	0.29	ug/L			04/29/14 13:40	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19**		0.50	0.25	mg/L			04/29/14 19:40	1
Sulfate	**31**		0.50	0.25	mg/L			04/29/14 19:40	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Iron	<50		50	24	ug/L		04/17/14 08:42	04/17/14 21:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.25		0.25	0.050	mg/L			04/16/14 19:18	5
Total Organic Carbon	**0.95**	**J**	1.0	0.50	mg/L			04/30/14 21:33	1

Client Sample Results

Client: GZA GeoEnvironmental, Inc.
Project/Site: HP-San German IB

TestAmerica Job ID: 640-47518-1
SDG: 47518

Client Sample ID: WB-3L

Date Collected: 04/15/14 12:35
Date Received: 04/16/14 09:45

Lab Sample ID: 640-47518-12

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/25/14 23:17	1
Bromoform	<1.0		1.0	0.50	ug/L			04/25/14 23:17	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/25/14 23:17	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/25/14 23:17	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/25/14 23:17	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/25/14 23:17	1
Chloroform	<1.0		1.0	0.14	ug/L			04/25/14 23:17	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/25/14 23:17	1
cis-1,2-Dichloroethylene	**75**		1.0	0.15	ug/L			04/25/14 23:17	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/25/14 23:17	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/25/14 23:17	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/25/14 23:17	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/25/14 23:17	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/25/14 23:17	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/25/14 23:17	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/25/14 23:17	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/25/14 23:17	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/25/14 23:17	1
1,1-Dichloroethene	**0.48**	**J**	1.0	0.11	ug/L			04/25/14 23:17	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/25/14 23:17	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/25/14 23:17	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/25/14 23:17	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/25/14 23:17	1
Tetrachloroethene	**3.7**		1.0	0.15	ug/L			04/25/14 23:17	1
trans-1,2-Dichloroethene	**2.6**		1.0	0.20	ug/L			04/25/14 23:17	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/25/14 23:17	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/25/14 23:17	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/25/14 23:17	1
Trichloroethene	**59**		1.0	0.13	ug/L			04/25/14 23:17	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/25/14 23:17	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/25/14 23:17	1
Vinyl chloride	**2.9**		1.0	0.18	ug/L			04/25/14 23:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*70 - 119*		*04/25/14 23:17*	*1*
Dibromofluoromethane	*114*		*83 - 123*		*04/25/14 23:17*	*1*
Toluene-d8 (Surr)	*95*		*78 - 126*		*04/25/14 23:17*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	<1.1		1.1	0.55	ug/L			04/29/14 13:53	1
Ethylene	<1.0		1.0	0.50	ug/L			04/29/14 13:53	1
Methane	**2.0**		0.58	0.29	ug/L			04/29/14 13:53	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**24**		0.50	0.25	mg/L			04/29/14 19:54	1
Sulfate	**34**		0.50	0.25	mg/L			04/29/14 19:54	1

Client Sample ID: WB-3L

Lab Sample ID: 640-47518-12

Date Collected: 04/15/14 12:35

Matrix: Water

Date Received: 04/16/14 09:45

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Iron	**84**		50	24	ug/L		04/17/14 08:42	04/17/14 21:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.38**		0.050	0.010	mg/L			04/16/14 19:25	1
Total Organic Carbon	**0.78**	**J**	1.0	0.50	mg/L			04/30/14 21:49	1

Client Sample ID: WB-2L

Lab Sample ID: 640-47518-13

Date Collected: 04/15/14 13:55

Matrix: Water

Date Received: 04/16/14 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/25/14 23:39	1
Bromoform	<1.0		1.0	0.50	ug/L			04/25/14 23:39	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/25/14 23:39	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/25/14 23:39	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/25/14 23:39	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/25/14 23:39	1
Chloroform	<1.0		1.0	0.14	ug/L			04/25/14 23:39	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/25/14 23:39	1
cis-1,2-Dichloroethylene	**6.9**		1.0	0.15	ug/L			04/25/14 23:39	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/25/14 23:39	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/25/14 23:39	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/25/14 23:39	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/25/14 23:39	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/25/14 23:39	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/25/14 23:39	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/25/14 23:39	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/25/14 23:39	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/25/14 23:39	1
1,1-Dichloroethene	<1.0		1.0	0.11	ug/L			04/25/14 23:39	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/25/14 23:39	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/25/14 23:39	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/25/14 23:39	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/25/14 23:39	1
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/25/14 23:39	1
trans-1,2-Dichloroethene	<1.0		1.0	0.20	ug/L			04/25/14 23:39	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/25/14 23:39	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/25/14 23:39	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/25/14 23:39	1
Trichloroethene	**3.0**		1.0	0.13	ug/L			04/25/14 23:39	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/25/14 23:39	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/25/14 23:39	1
Vinyl chloride	<1.0		1.0	0.18	ug/L			04/25/14 23:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 119*		*04/25/14 23:39*	*1*
Dibromofluoromethane	*117*		*83 - 123*		*04/25/14 23:39*	*1*
Toluene-d8 (Surr)	*99*		*78 - 126*		*04/25/14 23:39*	*1*

Client Sample ID: WB-2L

Lab Sample ID: 640-47518-13

Date Collected: 04/15/14 13:55

Matrix: Water

Date Received: 04/16/14 09:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**5.2**		1.0	0.50	mg/L			04/30/14 22:06	1

Client Sample ID: WB-2L DUP

Lab Sample ID: 640-47518-14

Date Collected: 04/15/14 14:00

Matrix: Water

Date Received: 04/16/14 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/26/14 00:02	1
Bromoform	<1.0		1.0	0.50	ug/L			04/26/14 00:02	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/26/14 00:02	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/26/14 00:02	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/26/14 00:02	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/26/14 00:02	1
Chloroform	<1.0		1.0	0.14	ug/L			04/26/14 00:02	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/26/14 00:02	1
cis-1,2-Dichloroethylene	**7.5**		1.0	0.15	ug/L			04/26/14 00:02	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/26/14 00:02	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/26/14 00:02	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/26/14 00:02	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/26/14 00:02	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/26/14 00:02	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/26/14 00:02	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/26/14 00:02	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/26/14 00:02	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/26/14 00:02	1
1,1-Dichloroethene	<1.0		1.0	0.11	ug/L			04/26/14 00:02	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/26/14 00:02	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/26/14 00:02	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/26/14 00:02	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/26/14 00:02	1
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/26/14 00:02	1
trans-1,2-Dichloroethene	<1.0		1.0	0.20	ug/L			04/26/14 00:02	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/26/14 00:02	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/26/14 00:02	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/26/14 00:02	1
Trichloroethene	**3.0**		1.0	0.13	ug/L			04/26/14 00:02	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/26/14 00:02	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/26/14 00:02	1
Vinyl chloride	<1.0		1.0	0.18	ug/L			04/26/14 00:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*70 - 119*		*04/26/14 00:02*	*1*
Dibromofluoromethane	*117*		*83 - 123*		*04/26/14 00:02*	*1*
Toluene-d8 (Surr)	*96*		*78 - 126*		*04/26/14 00:02*	*1*

Client Sample Results

Client: GZA GeoEnvironmental, Inc.
Project/Site: HP-San German IB

TestAmerica Job ID: 640-47518-1
SDG: 47518

Client Sample ID: OW-404R

Date Collected: 04/15/14 15:05
Date Received: 04/16/14 09:45

Lab Sample ID: 640-47518-15

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/26/14 00:25	1
Bromoform	<1.0		1.0	0.50	ug/L			04/26/14 00:25	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/26/14 00:25	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/26/14 00:25	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/26/14 00:25	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/26/14 00:25	1
Chloroform	<1.0		1.0	0.14	ug/L			04/26/14 00:25	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/26/14 00:25	1
cis-1,2-Dichloroethylene	**140**		1.0	0.15	ug/L			04/26/14 00:25	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/26/14 00:25	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/26/14 00:25	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/26/14 00:25	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/26/14 00:25	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/26/14 00:25	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/26/14 00:25	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/26/14 00:25	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/26/14 00:25	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/26/14 00:25	1
1,1-Dichloroethene	**0.55**	**J**	1.0	0.11	ug/L			04/26/14 00:25	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/26/14 00:25	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/26/14 00:25	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/26/14 00:25	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/26/14 00:25	1
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/26/14 00:25	1
trans-1,2-Dichloroethene	**1.6**		1.0	0.20	ug/L			04/26/14 00:25	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/26/14 00:25	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/26/14 00:25	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/26/14 00:25	1
Trichloroethene	**97**		1.0	0.13	ug/L			04/26/14 00:25	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/26/14 00:25	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/26/14 00:25	1
Vinyl chloride	**1.3**		1.0	0.18	ug/L			04/26/14 00:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 119*		*04/26/14 00:25*	*1*
Dibromofluoromethane	*114*		*83 - 123*		*04/26/14 00:25*	*1*
Toluene-d8 (Surr)	*97*		*78 - 126*		*04/26/14 00:25*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	<1.1		1.1	0.55	ug/L			04/29/14 14:06	1
Ethylene	<1.0		1.0	0.50	ug/L			04/29/14 14:06	1
Methane	**26**		0.58	0.29	ug/L			04/29/14 14:06	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.2**		0.50	0.25	mg/L			04/29/14 20:08	1
Sulfate	**25**		0.50	0.25	mg/L			04/29/14 20:08	1

Client Sample ID: OW-404R

Lab Sample ID: 640-47518-15

Date Collected: 04/15/14 15:05
Matrix: Water
Date Received: 04/16/14 09:45

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Iron	**120**		50	24	ug/L		04/17/14 08:42	04/17/14 21:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.050		0.050	0.010	mg/L			04/16/14 19:26	1
Total Organic Carbon	**1.6**		1.0	0.50	mg/L			04/30/14 22:22	1

Client Sample ID: WB-1L

Lab Sample ID: 640-47518-16

Date Collected: 04/15/14 16:00
Matrix: Water
Date Received: 04/16/14 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/26/14 00:47	1
Bromoform	<1.0		1.0	0.50	ug/L			04/26/14 00:47	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/26/14 00:47	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/26/14 00:47	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/26/14 00:47	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/26/14 00:47	1
Chloroform	<1.0		1.0	0.14	ug/L			04/26/14 00:47	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/26/14 00:47	1
cis-1,2-Dichloroethylene	**110**		1.0	0.15	ug/L			04/26/14 00:47	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/26/14 00:47	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/26/14 00:47	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/26/14 00:47	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/26/14 00:47	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/26/14 00:47	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/26/14 00:47	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/26/14 00:47	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/26/14 00:47	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/26/14 00:47	1
1,1-Dichloroethene	**0.51**	**J**	1.0	0.11	ug/L			04/26/14 00:47	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/26/14 00:47	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/26/14 00:47	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/26/14 00:47	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/26/14 00:47	1
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/26/14 00:47	1
trans-1,2-Dichloroethene	**1.1**		1.0	0.20	ug/L			04/26/14 00:47	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/26/14 00:47	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/26/14 00:47	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/26/14 00:47	1
Trichloroethene	**76**		1.0	0.13	ug/L			04/26/14 00:47	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/26/14 00:47	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/26/14 00:47	1
Vinyl chloride	<1.0		1.0	0.18	ug/L			04/26/14 00:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*70 - 119*		*04/26/14 00:47*	*1*
Dibromofluoromethane	*115*		*83 - 123*		*04/26/14 00:47*	*1*
Toluene-d8 (Surr)	*100*		*78 - 126*		*04/26/14 00:47*	*1*

Client Sample ID: WB-1L

Lab Sample ID: 640-47518-16

Date Collected: 04/15/14 16:00

Matrix: Water

Date Received: 04/16/14 09:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.4		1.0	0.50	mg/L			04/30/14 22:45	1

Client Sample ID: Field Blank

Lab Sample ID: 640-47518-17

Date Collected: 04/15/14 16:20

Matrix: Water

Date Received: 04/16/14 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/26/14 13:23	1
Bromoform	<1.0		1.0	0.50	ug/L			04/26/14 13:23	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/26/14 13:23	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/26/14 13:23	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/26/14 13:23	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/26/14 13:23	1
Chloroform	<1.0		1.0	0.14	ug/L			04/26/14 13:23	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/26/14 13:23	1
cis-1,2-Dichloroethylene	<1.0		1.0	0.15	ug/L			04/26/14 13:23	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/26/14 13:23	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/26/14 13:23	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/26/14 13:23	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/26/14 13:23	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/26/14 13:23	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/26/14 13:23	1
Dichlorodifluoromethane	<1.0	*	1.0	0.25	ug/L			04/26/14 13:23	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/26/14 13:23	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/26/14 13:23	1
1,1-Dichloroethene	<1.0		1.0	0.11	ug/L			04/26/14 13:23	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/26/14 13:23	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/26/14 13:23	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/26/14 13:23	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/26/14 13:23	1
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/26/14 13:23	1
trans-1,2-Dichloroethene	<1.0		1.0	0.20	ug/L			04/26/14 13:23	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/26/14 13:23	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/26/14 13:23	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/26/14 13:23	1
Trichloroethene	<1.0		1.0	0.13	ug/L			04/26/14 13:23	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/26/14 13:23	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/26/14 13:23	1
Vinyl chloride	<1.0		1.0	0.18	ug/L			04/26/14 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*70 - 119*		*04/26/14 13:23*	*1*
Dibromofluoromethane	*120*		*83 - 123*		*04/26/14 13:23*	*1*
Toluene-d8 (Surr)	*99*		*78 - 126*		*04/26/14 13:23*	*1*

Client Sample Results

Client: GZA GeoEnvironmental, Inc.
Project/Site: HP-San German IB

TestAmerica Job ID: 640-47518-1
SDG: 47518

Client Sample ID: GZ-504R

Date Collected: 04/15/14 17:15
Date Received: 04/16/14 09:45

Lab Sample ID: 640-47518-18

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/26/14 01:10	1
Bromoform	<1.0		1.0	0.50	ug/L			04/26/14 01:10	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/26/14 01:10	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/26/14 01:10	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/26/14 01:10	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/26/14 01:10	1
Chloroform	<1.0		1.0	0.14	ug/L			04/26/14 01:10	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/26/14 01:10	1
cis-1,2-Dichloroethylene	**7.6**		1.0	0.15	ug/L			04/26/14 01:10	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/26/14 01:10	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/26/14 01:10	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/26/14 01:10	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/26/14 01:10	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/26/14 01:10	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/26/14 01:10	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/26/14 01:10	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/26/14 01:10	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/26/14 01:10	1
1,1-Dichloroethene	**0.17**	**J**	1.0	0.11	ug/L			04/26/14 01:10	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/26/14 01:10	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/26/14 01:10	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/26/14 01:10	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/26/14 01:10	1
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/26/14 01:10	1
trans-1,2-Dichloroethene	<1.0		1.0	0.20	ug/L			04/26/14 01:10	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/26/14 01:10	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/26/14 01:10	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/26/14 01:10	1
Trichloroethene	**14**		1.0	0.13	ug/L			04/26/14 01:10	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/26/14 01:10	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/26/14 01:10	1
Vinyl chloride	<1.0		1.0	0.18	ug/L			04/26/14 01:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 119*		*04/26/14 01:10*	*1*
Dibromofluoromethane	*110*		*83 - 123*		*04/26/14 01:10*	*1*
Toluene-d8 (Surr)	*100*		*78 - 126*		*04/26/14 01:10*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	<1.1		1.1	0.55	ug/L			04/29/14 14:19	1
Ethylene	<1.0		1.0	0.50	ug/L			04/29/14 14:19	1
Methane	**0.90**		0.58	0.29	ug/L			04/29/14 14:19	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**24**		0.50	0.25	mg/L			04/29/14 20:52	1
Sulfate	**80**		1.0	0.50	mg/L			04/29/14 21:06	2

Client Sample ID: GZ-504R

Lab Sample ID: 640-47518-18

Date Collected: 04/15/14 17:15

Matrix: Water

Date Received: 04/16/14 09:45

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Iron	<50		50	24	ug/L		04/17/14 08:42	04/17/14 21:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.065**		0.050	0.010	mg/L			04/16/14 19:27	1
Total Organic Carbon	**0.85**	**J**	1.0	0.50	mg/L			04/30/14 23:35	1

Client Sample ID: Trip Blank 2

Lab Sample ID: 640-47518-19

Date Collected: 04/15/14 00:00

Matrix: Water

Date Received: 04/16/14 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/25/14 18:46	1
Bromoform	<1.0		1.0	0.50	ug/L			04/25/14 18:46	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/25/14 18:46	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/25/14 18:46	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/25/14 18:46	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/25/14 18:46	1
Chloroform	<1.0		1.0	0.14	ug/L			04/25/14 18:46	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/25/14 18:46	1
cis-1,2-Dichloroethylene	<1.0		1.0	0.15	ug/L			04/25/14 18:46	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/25/14 18:46	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/25/14 18:46	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/25/14 18:46	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/25/14 18:46	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/25/14 18:46	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/25/14 18:46	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/25/14 18:46	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/25/14 18:46	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/25/14 18:46	1
1,1-Dichloroethene	<1.0		1.0	0.11	ug/L			04/25/14 18:46	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/25/14 18:46	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/25/14 18:46	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/25/14 18:46	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/25/14 18:46	1
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/25/14 18:46	1
trans-1,2-Dichloroethene	<1.0		1.0	0.20	ug/L			04/25/14 18:46	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/25/14 18:46	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/25/14 18:46	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/25/14 18:46	1
Trichloroethene	<1.0		1.0	0.13	ug/L			04/25/14 18:46	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/25/14 18:46	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/25/14 18:46	1
Vinyl chloride	<1.0		1.0	0.18	ug/L			04/25/14 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*70 - 119*		*04/25/14 18:46*	*1*
Dibromofluoromethane	*117*		*83 - 123*		*04/25/14 18:46*	*1*
Toluene-d8 (Surr)	*99*		*78 - 126*		*04/25/14 18:46*	*1*

Client Sample ID: GZ-504L

Lab Sample ID: 640-47518-20

Date Collected: 04/15/14 17:20

Matrix: Water

Date Received: 04/16/14 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/26/14 01:32	1
Bromoform	<1.0		1.0	0.50	ug/L			04/26/14 01:32	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/26/14 01:32	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/26/14 01:32	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/26/14 01:32	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/26/14 01:32	1
Chloroform	<1.0		1.0	0.14	ug/L			04/26/14 01:32	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/26/14 01:32	1
cis-1,2-Dichloroethylene	**28**		1.0	0.15	ug/L			04/26/14 01:32	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/26/14 01:32	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/26/14 01:32	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/26/14 01:32	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/26/14 01:32	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/26/14 01:32	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/26/14 01:32	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/26/14 01:32	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/26/14 01:32	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/26/14 01:32	1
1,1-Dichloroethene	**0.17**	**J**	1.0	0.11	ug/L			04/26/14 01:32	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/26/14 01:32	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/26/14 01:32	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/26/14 01:32	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/26/14 01:32	1
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/26/14 01:32	1
trans-1,2-Dichloroethene	**0.34**	**J**	1.0	0.20	ug/L			04/26/14 01:32	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/26/14 01:32	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/26/14 01:32	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/26/14 01:32	1
Trichloroethene	**5.4**		1.0	0.13	ug/L			04/26/14 01:32	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/26/14 01:32	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/26/14 01:32	1
Vinyl chloride	<1.0		1.0	0.18	ug/L			04/26/14 01:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*70 - 119*		*04/26/14 01:32*	*1*
Dibromofluoromethane	*116*		*83 - 123*		*04/26/14 01:32*	*1*
Toluene-d8 (Surr)	*98*		*78 - 126*		*04/26/14 01:32*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**1.0**		1.0	0.50	mg/L			04/30/14 23:56	1

Client Sample ID: GZ-506U

Lab Sample ID: 640-47539-1

Date Collected: 04/16/14 09:20

Matrix: Water

Date Received: 04/17/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/28/14 14:03	1
Bromoform	<1.0		1.0	0.50	ug/L			04/28/14 14:03	1

Client Sample ID: GZ-506U

Lab Sample ID: 640-47539-1

Date Collected: 04/16/14 09:20

Matrix: Water

Date Received: 04/17/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<5.0		5.0	2.0	ug/L			04/28/14 14:03	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/28/14 14:03	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/28/14 14:03	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/28/14 14:03	1
Chloroform	<1.0		1.0	0.14	ug/L			04/28/14 14:03	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/28/14 14:03	1
cis-1,2-Dichloroethylene	**0.55**	**J**	1.0	0.15	ug/L			04/28/14 14:03	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/28/14 14:03	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/28/14 14:03	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/28/14 14:03	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/28/14 14:03	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/28/14 14:03	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/28/14 14:03	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/28/14 14:03	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/28/14 14:03	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/28/14 14:03	1
1,1-Dichloroethene	<1.0		1.0	0.11	ug/L			04/28/14 14:03	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/28/14 14:03	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/28/14 14:03	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/28/14 14:03	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/28/14 14:03	1
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/28/14 14:03	1
trans-1,2-Dichloroethene	<1.0		1.0	0.20	ug/L			04/28/14 14:03	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/28/14 14:03	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/28/14 14:03	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/28/14 14:03	1
Trichloroethene	**1.3**		1.0	0.13	ug/L			04/28/14 14:03	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/28/14 14:03	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/28/14 14:03	1
Vinyl chloride	<1.0		1.0	0.18	ug/L			04/28/14 14:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*70 - 119*		*04/28/14 14:03*	*1*
Dibromofluoromethane	*106*		*83 - 123*		*04/28/14 14:03*	*1*
Toluene-d8 (Surr)	*104*		*78 - 126*		*04/28/14 14:03*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**1.0**		1.0	0.50	mg/L			05/01/14 00:12	1

Client Sample ID: OW-102

Lab Sample ID: 640-47539-2

Date Collected: 04/16/14 10:10

Matrix: Water

Date Received: 04/17/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/28/14 14:26	1
Bromoform	<1.0		1.0	0.50	ug/L			04/28/14 14:26	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/28/14 14:26	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/28/14 14:26	1

Client Sample ID: OW-102

Lab Sample ID: 640-47539-2

Date Collected: 04/16/14 10:10

Matrix: Water

Date Received: 04/17/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/28/14 14:26	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/28/14 14:26	1
Chloroform	<1.0		1.0	0.14	ug/L			04/28/14 14:26	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/28/14 14:26	1
cis-1,2-Dichloroethylene	**2.1**		1.0	0.15	ug/L			04/28/14 14:26	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/28/14 14:26	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/28/14 14:26	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/28/14 14:26	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/28/14 14:26	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/28/14 14:26	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/28/14 14:26	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/28/14 14:26	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/28/14 14:26	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/28/14 14:26	1
1,1-Dichloroethene	<1.0		1.0	0.11	ug/L			04/28/14 14:26	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/28/14 14:26	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/28/14 14:26	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/28/14 14:26	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/28/14 14:26	1
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/28/14 14:26	1
trans-1,2-Dichloroethene	<1.0		1.0	0.20	ug/L			04/28/14 14:26	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/28/14 14:26	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/28/14 14:26	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/28/14 14:26	1
Trichloroethene	**2.0**		1.0	0.13	ug/L			04/28/14 14:26	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/28/14 14:26	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/28/14 14:26	1
Vinyl chloride	<1.0		1.0	0.18	ug/L			04/28/14 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*70 - 119*		*04/28/14 14:26*	*1*
Dibromofluoromethane	*110*		*83 - 123*		*04/28/14 14:26*	*1*
Toluene-d8 (Surr)	*103*		*78 - 126*		*04/28/14 14:26*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**0.59**	**J**	1.0	0.50	mg/L			05/01/14 00:27	1

Client Sample ID: OW-102 DUP

Lab Sample ID: 640-47539-3

Date Collected: 04/16/14 10:15

Matrix: Water

Date Received: 04/17/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/28/14 14:49	1
Bromoform	<1.0		1.0	0.50	ug/L			04/28/14 14:49	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/28/14 14:49	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/28/14 14:49	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/28/14 14:49	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/28/14 14:49	1

Client Sample ID: OW-102 DUP

Lab Sample ID: 640-47539-3

Date Collected: 04/16/14 10:15

Matrix: Water

Date Received: 04/17/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<1.0		1.0	0.14	ug/L			04/28/14 14:49	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/28/14 14:49	1
cis-1,2-Dichloroethylene	**2.3**		1.0	0.15	ug/L			04/28/14 14:49	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/28/14 14:49	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/28/14 14:49	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/28/14 14:49	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/28/14 14:49	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/28/14 14:49	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/28/14 14:49	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/28/14 14:49	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/28/14 14:49	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/28/14 14:49	1
1,1-Dichloroethene	<1.0		1.0	0.11	ug/L			04/28/14 14:49	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/28/14 14:49	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/28/14 14:49	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/28/14 14:49	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/28/14 14:49	1
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/28/14 14:49	1
trans-1,2-Dichloroethene	<1.0		1.0	0.20	ug/L			04/28/14 14:49	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/28/14 14:49	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/28/14 14:49	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/28/14 14:49	1
Trichloroethene	**1.7**		1.0	0.13	ug/L			04/28/14 14:49	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/28/14 14:49	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/28/14 14:49	1
Vinyl chloride	<1.0		1.0	0.18	ug/L			04/28/14 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*70 - 119*		*04/28/14 14:49*	*1*
Dibromofluoromethane	*109*		*83 - 123*		*04/28/14 14:49*	*1*
Toluene-d8 (Surr)	*104*		*78 - 126*		*04/28/14 14:49*	*1*

Client Sample ID: OW-403L

Lab Sample ID: 640-47539-4

Date Collected: 04/16/14 11:10

Matrix: Water

Date Received: 04/17/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/28/14 15:12	1
Bromoform	<1.0		1.0	0.50	ug/L			04/28/14 15:12	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/28/14 15:12	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/28/14 15:12	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/28/14 15:12	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/28/14 15:12	1
Chloroform	<1.0		1.0	0.14	ug/L			04/28/14 15:12	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/28/14 15:12	1
cis-1,2-Dichloroethylene	**47**		1.0	0.15	ug/L			04/28/14 15:12	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/28/14 15:12	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/28/14 15:12	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/28/14 15:12	1

Client Sample ID: OW-403L

Date Collected: 04/16/14 11:10
Date Received: 04/17/14 09:35

Lab Sample ID: 640-47539-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/28/14 15:12	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/28/14 15:12	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/28/14 15:12	1
Dichlorodifluoromethane	**4.7**		1.0	0.25	ug/L			04/28/14 15:12	1
1,1-Dichloroethane	**0.92**	**J**	1.0	0.25	ug/L			04/28/14 15:12	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/28/14 15:12	1
1,1-Dichloroethene	**0.47**	**J**	1.0	0.11	ug/L			04/28/14 15:12	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/28/14 15:12	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/28/14 15:12	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/28/14 15:12	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/28/14 15:12	1
Tetrachloroethene	**1.1**		1.0	0.15	ug/L			04/28/14 15:12	1
trans-1,2-Dichloroethene	**0.53**	**J**	1.0	0.20	ug/L			04/28/14 15:12	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/28/14 15:12	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/28/14 15:12	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/28/14 15:12	1
Trichloroethene	**66**		1.0	0.13	ug/L			04/28/14 15:12	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/28/14 15:12	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/28/14 15:12	1
Vinyl chloride	**2.0**		1.0	0.18	ug/L			04/28/14 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*70 - 119*		*04/28/14 15:12*	*1*
Dibromofluoromethane	*109*		*83 - 123*		*04/28/14 15:12*	*1*
Toluene-d8 (Surr)	*102*		*78 - 126*		*04/28/14 15:12*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	<1.1		1.1	0.55	ug/L			04/23/14 19:57	1
Ethylene	<1.0		1.0	0.50	ug/L			04/23/14 19:57	1
Methane	**22**		0.58	0.29	ug/L			04/23/14 19:57	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**49**		1.0	0.50	mg/L			04/29/14 21:20	2
Sulfate	**85**		1.0	0.50	mg/L			04/29/14 21:20	2

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Iron	<50		50	24	ug/L		04/22/14 13:23	04/25/14 08:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.61**		0.10	0.020	mg/L			04/17/14 18:41	2
Total Organic Carbon	**0.69**	**J**	1.0	0.50	mg/L			05/01/14 00:41	1

Client Sample ID: DEC-204O

Lab Sample ID: 640-47539-6

Date Collected: 04/16/14 13:30

Matrix: Water

Date Received: 04/17/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/28/14 15:34	1
Bromoform	<1.0		1.0	0.50	ug/L			04/28/14 15:34	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/28/14 15:34	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/28/14 15:34	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/28/14 15:34	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/28/14 15:34	1
Chloroform	<1.0		1.0	0.14	ug/L			04/28/14 15:34	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/28/14 15:34	1
cis-1,2-Dichloroethylene	<1.0		1.0	0.15	ug/L			04/28/14 15:34	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/28/14 15:34	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/28/14 15:34	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/28/14 15:34	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/28/14 15:34	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/28/14 15:34	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/28/14 15:34	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/28/14 15:34	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/28/14 15:34	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/28/14 15:34	1
1,1-Dichloroethene	**0.11**	**J**	1.0	0.11	ug/L			04/28/14 15:34	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/28/14 15:34	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/28/14 15:34	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/28/14 15:34	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/28/14 15:34	1
Tetrachloroethene	**1.5**		1.0	0.15	ug/L			04/28/14 15:34	1
trans-1,2-Dichloroethene	<1.0		1.0	0.20	ug/L			04/28/14 15:34	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/28/14 15:34	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/28/14 15:34	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/28/14 15:34	1
Trichloroethene	**0.56**	**J**	1.0	0.13	ug/L			04/28/14 15:34	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/28/14 15:34	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/28/14 15:34	1
Vinyl chloride	<1.0		1.0	0.18	ug/L			04/28/14 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*70 - 119*		*04/28/14 15:34*	*1*
Dibromofluoromethane	*103*		*83 - 123*		*04/28/14 15:34*	*1*
Toluene-d8 (Surr)	*102*		*78 - 126*		*04/28/14 15:34*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**1.3**		1.0	0.50	mg/L			05/01/14 00:58	1

Client Sample ID: OW-301

Lab Sample ID: 640-47539-7

Date Collected: 04/16/14 14:45

Matrix: Water

Date Received: 04/17/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/28/14 15:57	1
Bromoform	<1.0		1.0	0.50	ug/L			04/28/14 15:57	1

Client Sample ID: OW-301

Date Collected: 04/16/14 14:45
Date Received: 04/17/14 09:35

Lab Sample ID: 640-47539-7

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<5.0		5.0	2.0	ug/L			04/28/14 15:57	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/28/14 15:57	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/28/14 15:57	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/28/14 15:57	1
Chloroform	<1.0		1.0	0.14	ug/L			04/28/14 15:57	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/28/14 15:57	1
cis-1,2-Dichloroethylene	<1.0		1.0	0.15	ug/L			04/28/14 15:57	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/28/14 15:57	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/28/14 15:57	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/28/14 15:57	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/28/14 15:57	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/28/14 15:57	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/28/14 15:57	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/28/14 15:57	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/28/14 15:57	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/28/14 15:57	1
1,1-Dichloroethene	<1.0		1.0	0.11	ug/L			04/28/14 15:57	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/28/14 15:57	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/28/14 15:57	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/28/14 15:57	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/28/14 15:57	1
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/28/14 15:57	1
trans-1,2-Dichloroethene	<1.0		1.0	0.20	ug/L			04/28/14 15:57	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/28/14 15:57	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/28/14 15:57	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/28/14 15:57	1
Trichloroethene	<1.0		1.0	0.13	ug/L			04/28/14 15:57	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/28/14 15:57	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/28/14 15:57	1
Vinyl chloride	<1.0		1.0	0.18	ug/L			04/28/14 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*70 - 119*		*04/28/14 15:57*	*1*
Dibromofluoromethane	*107*		*83 - 123*		*04/28/14 15:57*	*1*
Toluene-d8 (Surr)	*106*		*78 - 126*		*04/28/14 15:57*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	<1.1		1.1	0.55	ug/L			04/23/14 20:10	1
Ethylene	<1.0		1.0	0.50	ug/L			04/23/14 20:10	1
Methane	<0.58		0.58	0.29	ug/L			04/23/14 20:10	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.3**		0.50	0.25	mg/L			04/29/14 21:35	1
Sulfate	**40**		0.50	0.25	mg/L			04/29/14 21:35	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Iron	<50		50	24	ug/L		04/22/14 13:23	04/25/14 08:33	1

Client Sample ID: OW-301

Lab Sample ID: 640-47539-7

Date Collected: 04/16/14 14:45

Matrix: Water

Date Received: 04/17/14 09:35

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.92**		0.10	0.020	mg/L			04/17/14 18:44	2
Total Organic Carbon	**0.85**	**J**	1.0	0.50	mg/L			05/01/14 01:31	1

Client Sample ID: OW-408

Lab Sample ID: 640-47539-8

Date Collected: 04/16/14 15:45

Matrix: Water

Date Received: 04/17/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/28/14 16:20	1
Bromoform	<1.0		1.0	0.50	ug/L			04/28/14 16:20	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/28/14 16:20	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/28/14 16:20	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/28/14 16:20	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/28/14 16:20	1
Chloroform	<1.0		1.0	0.14	ug/L			04/28/14 16:20	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/28/14 16:20	1
cis-1,2-Dichloroethylene	**40**		1.0	0.15	ug/L			04/28/14 16:20	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/28/14 16:20	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/28/14 16:20	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/28/14 16:20	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/28/14 16:20	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/28/14 16:20	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/28/14 16:20	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/28/14 16:20	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/28/14 16:20	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/28/14 16:20	1
1,1-Dichloroethene	**1.2**		1.0	0.11	ug/L			04/28/14 16:20	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/28/14 16:20	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/28/14 16:20	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/28/14 16:20	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/28/14 16:20	1
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/28/14 16:20	1
trans-1,2-Dichloroethene	**11**		1.0	0.20	ug/L			04/28/14 16:20	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/28/14 16:20	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/28/14 16:20	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/28/14 16:20	1
Trichloroethene	**1.7**		1.0	0.13	ug/L			04/28/14 16:20	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/28/14 16:20	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/28/14 16:20	1
Vinyl chloride	**1.8**		1.0	0.18	ug/L			04/28/14 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*108*		*70 - 119*		*04/28/14 16:20*	*1*
Dibromofluoromethane	*107*		*83 - 123*		*04/28/14 16:20*	*1*
Toluene-d8 (Surr)	*104*		*78 - 126*		*04/28/14 16:20*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**0.83**	**J**	1.0	0.50	mg/L			05/01/14 02:02	1

Client Sample ID: Trip Blank 4

Lab Sample ID: 640-47539-9

Date Collected: 04/16/14 00:00

Matrix: Water

Date Received: 04/17/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/28/14 12:32	1
Bromoform	<1.0		1.0	0.50	ug/L			04/28/14 12:32	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/28/14 12:32	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/28/14 12:32	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/28/14 12:32	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/28/14 12:32	1
Chloroform	<1.0		1.0	0.14	ug/L			04/28/14 12:32	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/28/14 12:32	1
cis-1,2-Dichloroethylene	<1.0		1.0	0.15	ug/L			04/28/14 12:32	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/28/14 12:32	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/28/14 12:32	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/28/14 12:32	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/28/14 12:32	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/28/14 12:32	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/28/14 12:32	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/28/14 12:32	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/28/14 12:32	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/28/14 12:32	1
1,1-Dichloroethene	<1.0		1.0	0.11	ug/L			04/28/14 12:32	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/28/14 12:32	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/28/14 12:32	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/28/14 12:32	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/28/14 12:32	1
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/28/14 12:32	1
trans-1,2-Dichloroethene	<1.0		1.0	0.20	ug/L			04/28/14 12:32	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/28/14 12:32	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/28/14 12:32	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/28/14 12:32	1
Trichloroethene	<1.0		1.0	0.13	ug/L			04/28/14 12:32	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/28/14 12:32	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/28/14 12:32	1
Vinyl chloride	<1.0		1.0	0.18	ug/L			04/28/14 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*70 - 119*		*04/28/14 12:32*	*1*
Dibromofluoromethane	*110*		*83 - 123*		*04/28/14 12:32*	*1*
Toluene-d8 (Surr)	*103*		*78 - 126*		*04/28/14 12:32*	*1*

Client Sample ID: Field Blank

Lab Sample ID: 640-47539-10

Date Collected: 04/16/14 09:20

Matrix: Water

Date Received: 04/17/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/28/14 12:55	1
Bromoform	<1.0		1.0	0.50	ug/L			04/28/14 12:55	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/28/14 12:55	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/28/14 12:55	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/28/14 12:55	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/28/14 12:55	1

Client Sample ID: Field Blank

Lab Sample ID: 640-47539-10

Date Collected: 04/16/14 09:20

Matrix: Water

Date Received: 04/17/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<1.0		1.0	0.14	ug/L			04/28/14 12:55	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/28/14 12:55	1
cis-1,2-Dichloroethylene	<1.0		1.0	0.15	ug/L			04/28/14 12:55	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/28/14 12:55	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/28/14 12:55	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/28/14 12:55	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/28/14 12:55	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/28/14 12:55	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/28/14 12:55	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/28/14 12:55	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/28/14 12:55	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/28/14 12:55	1
1,1-Dichloroethene	<1.0		1.0	0.11	ug/L			04/28/14 12:55	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/28/14 12:55	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/28/14 12:55	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/28/14 12:55	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/28/14 12:55	1
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/28/14 12:55	1
trans-1,2-Dichloroethene	<1.0		1.0	0.20	ug/L			04/28/14 12:55	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/28/14 12:55	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/28/14 12:55	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/28/14 12:55	1
Trichloroethene	<1.0		1.0	0.13	ug/L			04/28/14 12:55	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/28/14 12:55	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/28/14 12:55	1
Vinyl chloride	<1.0		1.0	0.18	ug/L			04/28/14 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*70 - 119*		*04/28/14 12:55*	*1*
Dibromofluoromethane	*112*		*83 - 123*		*04/28/14 12:55*	*1*
Toluene-d8 (Surr)	*102*		*78 - 126*		*04/28/14 12:55*	*1*

Client Sample ID: OW-402U

Lab Sample ID: 640-47539-11

Date Collected: 04/16/14 09:30

Matrix: Water

Date Received: 04/17/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/28/14 16:43	1
Bromoform	<1.0		1.0	0.50	ug/L			04/28/14 16:43	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/28/14 16:43	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/28/14 16:43	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/28/14 16:43	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/28/14 16:43	1
Chloroform	<1.0		1.0	0.14	ug/L			04/28/14 16:43	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/28/14 16:43	1
cis-1,2-Dichloroethylene	**17**		1.0	0.15	ug/L			04/28/14 16:43	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/28/14 16:43	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/28/14 16:43	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/28/14 16:43	1

Client Sample ID: OW-402U

Date Collected: 04/16/14 09:30
Date Received: 04/17/14 09:35

Lab Sample ID: 640-47539-11

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/28/14 16:43	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/28/14 16:43	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/28/14 16:43	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/28/14 16:43	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/28/14 16:43	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/28/14 16:43	1
1,1-Dichloroethene	<1.0		1.0	0.11	ug/L			04/28/14 16:43	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/28/14 16:43	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/28/14 16:43	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/28/14 16:43	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/28/14 16:43	1
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/28/14 16:43	1
trans-1,2-Dichloroethene	**0.55**	**J**	1.0	0.20	ug/L			04/28/14 16:43	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/28/14 16:43	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/28/14 16:43	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/28/14 16:43	1
Trichloroethene	**39**		1.0	0.13	ug/L			04/28/14 16:43	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/28/14 16:43	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/28/14 16:43	1
Vinyl chloride	<1.0		1.0	0.18	ug/L			04/28/14 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*108*		*70 - 119*		*04/28/14 16:43*	*1*
Dibromofluoromethane	*106*		*83 - 123*		*04/28/14 16:43*	*1*
Toluene-d8 (Surr)	*102*		*78 - 126*		*04/28/14 16:43*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	<1.1		1.1	0.55	ug/L			04/23/14 20:23	1
Ethylene	<1.0		1.0	0.50	ug/L			04/23/14 20:23	1
Methane	**2.0**		0.58	0.29	ug/L			04/23/14 20:23	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.5**		0.50	0.25	mg/L			04/29/14 22:18	1
Sulfate	**14**		0.50	0.25	mg/L			04/29/14 22:18	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Iron	**32**	**J**	50	24	ug/L		04/22/14 13:23	04/25/14 08:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.55**	**H**	0.050	0.010	mg/L			04/24/14 16:33	1
Nitrate Nitrite as N	**0.55**		0.050	0.010	mg/L			04/17/14 18:55	1
Total Organic Carbon	**1.1**		1.0	0.50	mg/L			05/01/14 02:54	1

Client Sample ID: OW-402L

Lab Sample ID: 640-47539-12

Date Collected: 04/16/14 10:15

Matrix: Water

Date Received: 04/17/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/28/14 17:06	1
Bromoform	<1.0		1.0	0.50	ug/L			04/28/14 17:06	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/28/14 17:06	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/28/14 17:06	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/28/14 17:06	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/28/14 17:06	1
Chloroform	**0.34**	**J**	1.0	0.14	ug/L			04/28/14 17:06	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/28/14 17:06	1
cis-1,2-Dichloroethylene	**49**		1.0	0.15	ug/L			04/28/14 17:06	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/28/14 17:06	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/28/14 17:06	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/28/14 17:06	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/28/14 17:06	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/28/14 17:06	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/28/14 17:06	1
Dichlorodifluoromethane	**0.77**	**J**	1.0	0.25	ug/L			04/28/14 17:06	1
1,1-Dichloroethane	**0.49**	**J**	1.0	0.25	ug/L			04/28/14 17:06	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/28/14 17:06	1
1,1-Dichloroethene	**0.52**	**J**	1.0	0.11	ug/L			04/28/14 17:06	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/28/14 17:06	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/28/14 17:06	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/28/14 17:06	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/28/14 17:06	1
Tetrachloroethene	**12**		1.0	0.15	ug/L			04/28/14 17:06	1
trans-1,2-Dichloroethene	**0.68**	**J**	1.0	0.20	ug/L			04/28/14 17:06	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/28/14 17:06	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/28/14 17:06	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/28/14 17:06	1
Trichloroethene	**34**		1.0	0.13	ug/L			04/28/14 17:06	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/28/14 17:06	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/28/14 17:06	1
Vinyl chloride	**0.38**	**J**	1.0	0.18	ug/L			04/28/14 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*70 - 119*		*04/28/14 17:06*	*1*
Dibromofluoromethane	*109*		*83 - 123*		*04/28/14 17:06*	*1*
Toluene-d8 (Surr)	*102*		*78 - 126*		*04/28/14 17:06*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**0.71**	**J**	1.0	0.50	mg/L			05/01/14 03:40	1

Client Sample ID: OW-402R

Lab Sample ID: 640-47539-13

Date Collected: 04/16/14 10:45

Matrix: Water

Date Received: 04/17/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/28/14 17:28	1
Bromoform	<1.0		1.0	0.50	ug/L			04/28/14 17:28	1

Client Sample ID: OW-402R

Date Collected: 04/16/14 10:45
Date Received: 04/17/14 09:35

Lab Sample ID: 640-47539-13

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<5.0		5.0	2.0	ug/L			04/28/14 17:28	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/28/14 17:28	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/28/14 17:28	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/28/14 17:28	1
Chloroform	**0.20**	**J**	1.0	0.14	ug/L			04/28/14 17:28	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/28/14 17:28	1
cis-1,2-Dichloroethylene	**37**		1.0	0.15	ug/L			04/28/14 17:28	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/28/14 17:28	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/28/14 17:28	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/28/14 17:28	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/28/14 17:28	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/28/14 17:28	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/28/14 17:28	1
Dichlorodifluoromethane	**0.46**	**J**	1.0	0.25	ug/L			04/28/14 17:28	1
1,1-Dichloroethane	**0.35**	**J**	1.0	0.25	ug/L			04/28/14 17:28	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/28/14 17:28	1
1,1-Dichloroethene	<1.0		1.0	0.11	ug/L			04/28/14 17:28	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/28/14 17:28	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/28/14 17:28	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/28/14 17:28	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/28/14 17:28	1
Tetrachloroethene	**5.5**		1.0	0.15	ug/L			04/28/14 17:28	1
trans-1,2-Dichloroethene	**0.93**	**J**	1.0	0.20	ug/L			04/28/14 17:28	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/28/14 17:28	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/28/14 17:28	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/28/14 17:28	1
Trichloroethene	**21**		1.0	0.13	ug/L			04/28/14 17:28	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/28/14 17:28	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/28/14 17:28	1
Vinyl chloride	<1.0		1.0	0.18	ug/L			04/28/14 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*70 - 119*		*04/28/14 17:28*	*1*
Dibromofluoromethane	*107*		*83 - 123*		*04/28/14 17:28*	*1*
Toluene-d8 (Surr)	*100*		*78 - 126*		*04/28/14 17:28*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	<1.1		1.1	0.55	ug/L			04/23/14 20:36	1
Ethylene	<1.0		1.0	0.50	ug/L			04/23/14 20:36	1
Methane	**0.44**	**J**	0.58	0.29	ug/L			04/23/14 20:36	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**37**		0.50	0.25	mg/L			04/29/14 22:47	1
Sulfate	**70**		1.0	0.50	mg/L			04/29/14 23:01	2

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Iron	<50		50	24	ug/L		04/22/14 13:23	04/25/14 08:42	1

Client Sample ID: OW-402R

Lab Sample ID: 640-47539-13

Date Collected: 04/16/14 10:45

Matrix: Water

Date Received: 04/17/14 09:35

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.94**		0.10	0.020	mg/L			04/17/14 18:46	2
Total Organic Carbon	**0.69**	**J**	1.0	0.50	mg/L			05/01/14 04:01	1

Client Sample ID: GZ-519U

Lab Sample ID: 640-47539-14

Date Collected: 04/16/14 11:40

Matrix: Water

Date Received: 04/17/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/28/14 17:51	1
Bromoform	<1.0		1.0	0.50	ug/L			04/28/14 17:51	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/28/14 17:51	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/28/14 17:51	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/28/14 17:51	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/28/14 17:51	1
Chloroform	**2.7**		1.0	0.14	ug/L			04/28/14 17:51	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/28/14 17:51	1
cis-1,2-Dichloroethylene	**44**		1.0	0.15	ug/L			04/28/14 17:51	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/28/14 17:51	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/28/14 17:51	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/28/14 17:51	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/28/14 17:51	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/28/14 17:51	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/28/14 17:51	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/28/14 17:51	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/28/14 17:51	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/28/14 17:51	1
1,1-Dichloroethene	**1.1**		1.0	0.11	ug/L			04/28/14 17:51	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/28/14 17:51	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/28/14 17:51	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/28/14 17:51	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/28/14 17:51	1
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/28/14 17:51	1
trans-1,2-Dichloroethene	**1.2**		1.0	0.20	ug/L			04/28/14 17:51	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/28/14 17:51	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/28/14 17:51	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/28/14 17:51	1
Trichloroethene	**110**		1.0	0.13	ug/L			04/28/14 17:51	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/28/14 17:51	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/28/14 17:51	1
Vinyl chloride	<1.0		1.0	0.18	ug/L			04/28/14 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*70 - 119*		*04/28/14 17:51*	*1*
Dibromofluoromethane	*105*		*83 - 123*		*04/28/14 17:51*	*1*
Toluene-d8 (Surr)	*99*		*78 - 126*		*04/28/14 17:51*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	<1.1		1.1	0.55	ug/L			04/23/14 20:49	1

Client Sample ID: GZ-519U

Lab Sample ID: 640-47539-14

Date Collected: 04/16/14 11:40

Matrix: Water

Date Received: 04/17/14 09:35

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene	<1.0		1.0	0.50	ug/L			04/23/14 20:49	1
Methane	**1.6**		0.58	0.29	ug/L			04/23/14 20:49	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**22**		0.50	0.25	mg/L			04/30/14 14:57	1
Sulfate	**140**		2.0	1.0	mg/L			04/30/14 15:12	4

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Iron	<50		50	24	ug/L		04/22/14 13:23	04/25/14 08:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.22**		0.050	0.010	mg/L			04/17/14 18:48	1
Total Organic Carbon	**1.0**		1.0	0.50	mg/L			05/01/14 04:19	1

Client Sample ID: OW-101L

Lab Sample ID: 640-47539-15

Date Collected: 04/16/14 12:25

Matrix: Water

Date Received: 04/17/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/28/14 18:14	1
Bromoform	<1.0		1.0	0.50	ug/L			04/28/14 18:14	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/28/14 18:14	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/28/14 18:14	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/28/14 18:14	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/28/14 18:14	1
Chloroform	<1.0		1.0	0.14	ug/L			04/28/14 18:14	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/28/14 18:14	1
cis-1,2-Dichloroethylene	**70**		1.0	0.15	ug/L			04/28/14 18:14	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/28/14 18:14	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/28/14 18:14	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/28/14 18:14	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/28/14 18:14	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/28/14 18:14	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/28/14 18:14	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/28/14 18:14	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/28/14 18:14	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/28/14 18:14	1
1,1-Dichloroethene	**0.60**	**J**	1.0	0.11	ug/L			04/28/14 18:14	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/28/14 18:14	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/28/14 18:14	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/28/14 18:14	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/28/14 18:14	1
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/28/14 18:14	1
trans-1,2-Dichloroethene	**0.91**	**J**	1.0	0.20	ug/L			04/28/14 18:14	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/28/14 18:14	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/28/14 18:14	1

Client Sample ID: OW-101L

Lab Sample ID: 640-47539-15

Date Collected: 04/16/14 12:25

Matrix: Water

Date Received: 04/17/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/28/14 18:14	1
Trichloroethene	**3.2**		1.0	0.13	ug/L			04/28/14 18:14	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/28/14 18:14	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/28/14 18:14	1
Vinyl chloride	**0.85**	**J**	1.0	0.18	ug/L			04/28/14 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*70 - 119*		*04/28/14 18:14*	*1*
Dibromofluoromethane	*109*		*83 - 123*		*04/28/14 18:14*	*1*
Toluene-d8 (Surr)	*102*		*78 - 126*		*04/28/14 18:14*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	<1.1		1.1	0.55	ug/L			04/23/14 21:01	1
Ethylene	<1.0		1.0	0.50	ug/L			04/23/14 21:01	1
Methane	**4.4**		0.58	0.29	ug/L			04/23/14 21:01	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**30**		0.50	0.25	mg/L			04/30/14 15:26	1
Sulfate	**54**		1.0	0.50	mg/L			04/30/14 15:40	2

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Iron	**1200**		50	24	ug/L		04/23/14 11:07	04/24/14 15:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.050		0.050	0.010	mg/L			04/17/14 18:51	1
Total Organic Carbon	**0.68**	**J**	1.0	0.50	mg/L			05/01/14 04:38	1

Client Sample ID: OW-101

Lab Sample ID: 640-47539-16

Date Collected: 04/16/14 13:10

Matrix: Water

Date Received: 04/17/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<5.0		5.0	0.80	ug/L			04/29/14 18:58	5
Bromoform	<5.0		5.0	2.5	ug/L			04/29/14 18:58	5
Bromomethane	<25		25	10	ug/L			04/29/14 18:58	5
Carbon tetrachloride	<5.0		5.0	2.5	ug/L			04/29/14 18:58	5
Chlorobenzene	<5.0		5.0	1.3	ug/L			04/29/14 18:58	5
Chloroethane	<25		25	10	ug/L			04/29/14 18:58	5
Chloroform	<5.0		5.0	0.70	ug/L			04/29/14 18:58	5
Chloromethane	<5.0		5.0	1.7	ug/L			04/29/14 18:58	5
cis-1,2-Dichloroethylene	**730**		5.0	0.75	ug/L			04/29/14 18:58	5
cis-1,3-Dichloropropene	<5.0		5.0	0.55	ug/L			04/29/14 18:58	5
Dibromochloromethane	<5.0		5.0	0.50	ug/L			04/29/14 18:58	5
Dibromomethane	<5.0		5.0	1.0	ug/L			04/29/14 18:58	5
1,2-Dichlorobenzene	<5.0		5.0	1.1	ug/L			04/29/14 18:58	5
1,3-Dichlorobenzene	<5.0		5.0	1.3	ug/L			04/29/14 18:58	5

Client Sample ID: OW-101

Lab Sample ID: 640-47539-16

Date Collected: 04/16/14 13:10

Matrix: Water

Date Received: 04/17/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<5.0		5.0	1.4	ug/L			04/29/14 18:58	5
Dichlorodifluoromethane	<5.0		5.0	1.3	ug/L			04/29/14 18:58	5
1,1-Dichloroethane	<5.0		5.0	1.3	ug/L			04/29/14 18:58	5
1,2-Dichloroethane	<5.0		5.0	0.50	ug/L			04/29/14 18:58	5
1,1-Dichloroethene	**9.2**		5.0	0.55	ug/L			04/29/14 18:58	5
1,2-Dichloropropane	<5.0		5.0	0.65	ug/L			04/29/14 18:58	5
Methylene Chloride	<25		25	5.0	ug/L			04/29/14 18:58	5
1,1,1,2-Tetrachloroethane	<5.0		5.0	1.7	ug/L			04/29/14 18:58	5
1,1,2,2-Tetrachloroethane	<5.0		5.0	0.90	ug/L			04/29/14 18:58	5
Tetrachloroethene	<5.0		5.0	0.75	ug/L			04/29/14 18:58	5
trans-1,2-Dichloroethene	**120**		5.0	1.0	ug/L			04/29/14 18:58	5
trans-1,3-Dichloropropene	<5.0		5.0	1.1	ug/L			04/29/14 18:58	5
1,1,1-Trichloroethane	<5.0		5.0	2.5	ug/L			04/29/14 18:58	5
1,1,2-Trichloroethane	<5.0		5.0	0.65	ug/L			04/29/14 18:58	5
Trichloroethene	**520**		5.0	0.65	ug/L			04/29/14 18:58	5
Trichlorofluoromethane	<5.0		5.0	1.3	ug/L			04/29/14 18:58	5
1,2,3-Trichloropropane	<5.0		5.0	2.1	ug/L			04/29/14 18:58	5
Vinyl chloride	**13**		5.0	0.90	ug/L			04/29/14 18:58	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*70 - 119*		*04/29/14 18:58*	*5*
Dibromofluoromethane	*107*		*83 - 123*		*04/29/14 18:58*	*5*
Toluene-d8 (Surr)	*100*		*78 - 126*		*04/29/14 18:58*	*5*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	<1.1		1.1	0.55	ug/L			04/23/14 21:14	1
Ethylene	<1.0		1.0	0.50	ug/L			04/23/14 21:14	1
Methane	**160**		0.58	0.29	ug/L			04/23/14 21:14	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17**		0.50	0.25	mg/L			04/30/14 16:24	1
Sulfate	**19**		0.50	0.25	mg/L			04/30/14 16:24	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Iron	**62**		50	24	ug/L		04/22/14 13:23	04/25/14 08:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.042**	**J**	0.050	0.010	mg/L			04/17/14 18:53	1
Total Organic Carbon	**1.4**		1.0	0.50	mg/L			05/01/14 04:55	1

Client Sample ID: OW-307

Lab Sample ID: 640-47539-17

Date Collected: 04/16/14 14:25

Matrix: Water

Date Received: 04/17/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<5.0		5.0	0.80	ug/L			04/28/14 13:41	5

Client Sample ID: OW-307

Date Collected: 04/16/14 14:25
Date Received: 04/17/14 09:35

Lab Sample ID: 640-47539-17

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	<5.0		5.0	2.5	ug/L			04/28/14 13:41	5
Bromomethane	<25		25	10	ug/L			04/28/14 13:41	5
Carbon tetrachloride	<5.0		5.0	2.5	ug/L			04/28/14 13:41	5
Chlorobenzene	<5.0		5.0	1.3	ug/L			04/28/14 13:41	5
Chloroethane	<25		25	10	ug/L			04/28/14 13:41	5
Chloroform	<5.0		5.0	0.70	ug/L			04/28/14 13:41	5
Chloromethane	<5.0		5.0	1.7	ug/L			04/28/14 13:41	5
cis-1,2-Dichloroethylene	**500**		5.0	0.75	ug/L			04/28/14 13:41	5
cis-1,3-Dichloropropene	<5.0		5.0	0.55	ug/L			04/28/14 13:41	5
Dibromochloromethane	<5.0		5.0	0.50	ug/L			04/28/14 13:41	5
Dibromomethane	<5.0		5.0	1.0	ug/L			04/28/14 13:41	5
1,2-Dichlorobenzene	<5.0		5.0	1.1	ug/L			04/28/14 13:41	5
1,3-Dichlorobenzene	<5.0		5.0	1.3	ug/L			04/28/14 13:41	5
1,4-Dichlorobenzene	<5.0		5.0	1.4	ug/L			04/28/14 13:41	5
Dichlorodifluoromethane	<5.0		5.0	1.3	ug/L			04/28/14 13:41	5
1,1-Dichloroethane	<5.0		5.0	1.3	ug/L			04/28/14 13:41	5
1,2-Dichloroethane	<5.0		5.0	0.50	ug/L			04/28/14 13:41	5
1,1-Dichloroethene	<5.0		5.0	0.55	ug/L			04/28/14 13:41	5
1,2-Dichloropropane	<5.0		5.0	0.65	ug/L			04/28/14 13:41	5
Methylene Chloride	<25		25	5.0	ug/L			04/28/14 13:41	5
1,1,1,2-Tetrachloroethane	<5.0		5.0	1.7	ug/L			04/28/14 13:41	5
1,1,2,2-Tetrachloroethane	<5.0		5.0	0.90	ug/L			04/28/14 13:41	5
Tetrachloroethene	<5.0		5.0	0.75	ug/L			04/28/14 13:41	5
trans-1,2-Dichloroethene	**7.3**		5.0	1.0	ug/L			04/28/14 13:41	5
trans-1,3-Dichloropropene	<5.0		5.0	1.1	ug/L			04/28/14 13:41	5
1,1,1-Trichloroethane	<5.0		5.0	2.5	ug/L			04/28/14 13:41	5
1,1,2-Trichloroethane	<5.0		5.0	0.65	ug/L			04/28/14 13:41	5
Trichloroethene	**930**		5.0	0.65	ug/L			04/28/14 13:41	5
Trichlorofluoromethane	<5.0		5.0	1.3	ug/L			04/28/14 13:41	5
1,2,3-Trichloropropane	<5.0		5.0	2.1	ug/L			04/28/14 13:41	5
Vinyl chloride	**1.9**	**J**	5.0	0.90	ug/L			04/28/14 13:41	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*70 - 119*		*04/28/14 13:41*	*5*
Dibromofluoromethane	*104*		*83 - 123*		*04/28/14 13:41*	*5*
Toluene-d8 (Surr)	*103*		*78 - 126*		*04/28/14 13:41*	*5*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	**3.8**		1.1	0.55	ug/L			04/23/14 21:27	1
Ethylene	<1.0		1.0	0.50	ug/L			04/23/14 21:27	1
Methane	**220**		0.58	0.29	ug/L			04/23/14 21:27	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.7**		0.50	0.25	mg/L			04/30/14 16:38	1
Sulfate	**15**		0.50	0.25	mg/L			04/30/14 16:38	1

Client Sample ID: OW-307

Lab Sample ID: 640-47539-17

Date Collected: 04/16/14 14:25

Matrix: Water

Date Received: 04/17/14 09:35

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Iron	<50		50	24	ug/L		04/22/14 13:23	04/25/14 09:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.017**	**J**	0.050	0.010	mg/L			04/17/14 18:54	1
Total Organic Carbon	**0.95**	**J**	1.0	0.50	mg/L			05/01/14 05:13	1

Client Sample ID: Trip Blank 3

Lab Sample ID: 640-47539-18

Date Collected: 04/16/14 00:00

Matrix: Water

Date Received: 04/17/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/28/14 13:18	1
Bromoform	<1.0		1.0	0.50	ug/L			04/28/14 13:18	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/28/14 13:18	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/28/14 13:18	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/28/14 13:18	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/28/14 13:18	1
Chloroform	<1.0		1.0	0.14	ug/L			04/28/14 13:18	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/28/14 13:18	1
cis-1,2-Dichloroethylene	<1.0		1.0	0.15	ug/L			04/28/14 13:18	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/28/14 13:18	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/28/14 13:18	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/28/14 13:18	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/28/14 13:18	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/28/14 13:18	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/28/14 13:18	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/28/14 13:18	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/28/14 13:18	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/28/14 13:18	1
1,1-Dichloroethene	<1.0		1.0	0.11	ug/L			04/28/14 13:18	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/28/14 13:18	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/28/14 13:18	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/28/14 13:18	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/28/14 13:18	1
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/28/14 13:18	1
trans-1,2-Dichloroethene	<1.0		1.0	0.20	ug/L			04/28/14 13:18	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/28/14 13:18	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/28/14 13:18	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/28/14 13:18	1
Trichloroethene	<1.0		1.0	0.13	ug/L			04/28/14 13:18	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/28/14 13:18	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/28/14 13:18	1
Vinyl chloride	<1.0		1.0	0.18	ug/L			04/28/14 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*70 - 119*		*04/28/14 13:18*	*1*
Dibromofluoromethane	*106*		*83 - 123*		*04/28/14 13:18*	*1*
Toluene-d8 (Surr)	*102*		*78 - 126*		*04/28/14 13:18*	*1*

Client Sample ID: OW-304U

Lab Sample ID: 640-47571-1

Date Collected: 04/17/14 09:40

Matrix: Water

Date Received: 04/18/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/29/14 14:02	1
Bromoform	<1.0		1.0	0.50	ug/L			04/29/14 14:02	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/29/14 14:02	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/29/14 14:02	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/29/14 14:02	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/29/14 14:02	1
Chloroform	<1.0		1.0	0.14	ug/L			04/29/14 14:02	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/29/14 14:02	1
cis-1,2-Dichloroethylene	**1.3**		1.0	0.15	ug/L			04/29/14 14:02	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/29/14 14:02	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/29/14 14:02	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/29/14 14:02	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/29/14 14:02	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/29/14 14:02	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/29/14 14:02	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/29/14 14:02	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/29/14 14:02	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/29/14 14:02	1
1,1-Dichloroethene	<1.0		1.0	0.11	ug/L			04/29/14 14:02	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/29/14 14:02	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/29/14 14:02	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/29/14 14:02	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/29/14 14:02	1
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/29/14 14:02	1
trans-1,2-Dichloroethene	<1.0		1.0	0.20	ug/L			04/29/14 14:02	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/29/14 14:02	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/29/14 14:02	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/29/14 14:02	1
Trichloroethene	<1.0		1.0	0.13	ug/L			04/29/14 14:02	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/29/14 14:02	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/29/14 14:02	1
Vinyl chloride	<1.0		1.0	0.18	ug/L			04/29/14 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*70 - 119*		*04/29/14 14:02*	*1*
Dibromofluoromethane	*114*		*83 - 123*		*04/29/14 14:02*	*1*
Toluene-d8 (Surr)	*105*		*78 - 126*		*04/29/14 14:02*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**1.5**		1.0	0.50	mg/L			05/01/14 05:34	1

Client Sample ID: GZ-702U

Lab Sample ID: 640-47571-2

Date Collected: 04/17/14 10:40

Matrix: Water

Date Received: 04/18/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/29/14 14:25	1
Bromoform	<1.0		1.0	0.50	ug/L			04/29/14 14:25	1

Client Sample ID: GZ-702U

Lab Sample ID: 640-47571-2

Date Collected: 04/17/14 10:40

Matrix: Water

Date Received: 04/18/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<5.0		5.0	2.0	ug/L			04/29/14 14:25	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/29/14 14:25	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/29/14 14:25	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/29/14 14:25	1
Chloroform	<1.0		1.0	0.14	ug/L			04/29/14 14:25	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/29/14 14:25	1
cis-1,2-Dichloroethylene	**0.35**	**J**	1.0	0.15	ug/L			04/29/14 14:25	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/29/14 14:25	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/29/14 14:25	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/29/14 14:25	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/29/14 14:25	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/29/14 14:25	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/29/14 14:25	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/29/14 14:25	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/29/14 14:25	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/29/14 14:25	1
1,1-Dichloroethene	<1.0		1.0	0.11	ug/L			04/29/14 14:25	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/29/14 14:25	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/29/14 14:25	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/29/14 14:25	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/29/14 14:25	1
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/29/14 14:25	1
trans-1,2-Dichloroethene	<1.0		1.0	0.20	ug/L			04/29/14 14:25	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/29/14 14:25	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/29/14 14:25	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/29/14 14:25	1
Trichloroethene	<1.0		1.0	0.13	ug/L			04/29/14 14:25	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/29/14 14:25	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/29/14 14:25	1
Vinyl chloride	<1.0		1.0	0.18	ug/L			04/29/14 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*70 - 119*		*04/29/14 14:25*	*1*
Dibromofluoromethane	*117*		*83 - 123*		*04/29/14 14:25*	*1*
Toluene-d8 (Surr)	*100*		*78 - 126*		*04/29/14 14:25*	*1*

Client Sample ID: GZ-701L

Lab Sample ID: 640-47571-3

Date Collected: 04/17/14 12:00

Matrix: Water

Date Received: 04/18/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/29/14 14:47	1
Bromoform	<1.0		1.0	0.50	ug/L			04/29/14 14:47	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/29/14 14:47	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/29/14 14:47	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/29/14 14:47	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/29/14 14:47	1
Chloroform	**0.58**	**J**	1.0	0.14	ug/L			04/29/14 14:47	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/29/14 14:47	1

Client Sample ID: GZ-701L

Lab Sample ID: 640-47571-3

Date Collected: 04/17/14 12:00

Matrix: Water

Date Received: 04/18/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethylene	<1.0		1.0	0.15	ug/L			04/29/14 14:47	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/29/14 14:47	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/29/14 14:47	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/29/14 14:47	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/29/14 14:47	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/29/14 14:47	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/29/14 14:47	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/29/14 14:47	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/29/14 14:47	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/29/14 14:47	1
1,1-Dichloroethene	<1.0		1.0	0.11	ug/L			04/29/14 14:47	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/29/14 14:47	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/29/14 14:47	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/29/14 14:47	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/29/14 14:47	1
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/29/14 14:47	1
trans-1,2-Dichloroethene	<1.0		1.0	0.20	ug/L			04/29/14 14:47	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/29/14 14:47	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/29/14 14:47	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/29/14 14:47	1
Trichloroethene	<1.0		1.0	0.13	ug/L			04/29/14 14:47	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/29/14 14:47	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/29/14 14:47	1
Vinyl chloride	<1.0		1.0	0.18	ug/L			04/29/14 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*70 - 119*		*04/29/14 14:47*	*1*
Dibromofluoromethane	*114*		*83 - 123*		*04/29/14 14:47*	*1*
Toluene-d8 (Surr)	*100*		*78 - 126*		*04/29/14 14:47*	*1*

Client Sample ID: GZ-701R

Lab Sample ID: 640-47571-4

Date Collected: 04/17/14 12:50

Matrix: Water

Date Received: 04/18/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/29/14 15:10	1
Bromoform	<1.0		1.0	0.50	ug/L			04/29/14 15:10	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/29/14 15:10	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/29/14 15:10	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/29/14 15:10	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/29/14 15:10	1
Chloroform	**0.29**	**J**	1.0	0.14	ug/L			04/29/14 15:10	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/29/14 15:10	1
cis-1,2-Dichloroethylene	<1.0		1.0	0.15	ug/L			04/29/14 15:10	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/29/14 15:10	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/29/14 15:10	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/29/14 15:10	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/29/14 15:10	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/29/14 15:10	1

Client Sample ID: GZ-701R

Lab Sample ID: 640-47571-4

Date Collected: 04/17/14 12:50

Matrix: Water

Date Received: 04/18/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/29/14 15:10	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/29/14 15:10	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/29/14 15:10	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/29/14 15:10	1
1,1-Dichloroethene	<1.0		1.0	0.11	ug/L			04/29/14 15:10	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/29/14 15:10	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/29/14 15:10	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/29/14 15:10	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/29/14 15:10	1
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/29/14 15:10	1
trans-1,2-Dichloroethene	<1.0		1.0	0.20	ug/L			04/29/14 15:10	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/29/14 15:10	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/29/14 15:10	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/29/14 15:10	1
Trichloroethene	<1.0		1.0	0.13	ug/L			04/29/14 15:10	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/29/14 15:10	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/29/14 15:10	1
Vinyl chloride	<1.0		1.0	0.18	ug/L			04/29/14 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*70 - 119*		*04/29/14 15:10*	*1*
Dibromofluoromethane	*119*		*83 - 123*		*04/29/14 15:10*	*1*
Toluene-d8 (Surr)	*102*		*78 - 126*		*04/29/14 15:10*	*1*

Client Sample ID: Trip Blank 5

Lab Sample ID: 640-47571-5

Date Collected: 04/17/14 00:00

Matrix: Water

Date Received: 04/18/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/29/14 12:54	1
Bromoform	<1.0		1.0	0.50	ug/L			04/29/14 12:54	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/29/14 12:54	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/29/14 12:54	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/29/14 12:54	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/29/14 12:54	1
Chloroform	<1.0		1.0	0.14	ug/L			04/29/14 12:54	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/29/14 12:54	1
cis-1,2-Dichloroethylene	<1.0		1.0	0.15	ug/L			04/29/14 12:54	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/29/14 12:54	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/29/14 12:54	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/29/14 12:54	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/29/14 12:54	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/29/14 12:54	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/29/14 12:54	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/29/14 12:54	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/29/14 12:54	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/29/14 12:54	1
1,1-Dichloroethene	<1.0		1.0	0.11	ug/L			04/29/14 12:54	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/29/14 12:54	1

Client Sample ID: Trip Blank 5

Lab Sample ID: 640-47571-5

Date Collected: 04/17/14 00:00

Matrix: Water

Date Received: 04/18/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/29/14 12:54	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/29/14 12:54	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/29/14 12:54	1
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/29/14 12:54	1
trans-1,2-Dichloroethene	<1.0		1.0	0.20	ug/L			04/29/14 12:54	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/29/14 12:54	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/29/14 12:54	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/29/14 12:54	1
Trichloroethene	<1.0		1.0	0.13	ug/L			04/29/14 12:54	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/29/14 12:54	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/29/14 12:54	1
Vinyl chloride	<1.0		1.0	0.18	ug/L			04/29/14 12:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*70 - 119*		*04/29/14 12:54*	*1*
Dibromofluoromethane	*111*		*83 - 123*		*04/29/14 12:54*	*1*
Toluene-d8 (Surr)	*104*		*78 - 126*		*04/29/14 12:54*	*1*

Client Sample ID: OW-304L

Lab Sample ID: 640-47571-6

Date Collected: 04/17/14 14:00

Matrix: Water

Date Received: 04/18/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<10		10	1.6	ug/L			04/30/14 14:32	10
Bromoform	<10		10	5.0	ug/L			04/30/14 14:32	10
Bromomethane	<50		50	20	ug/L			04/30/14 14:32	10
Carbon tetrachloride	<10		10	5.0	ug/L			04/30/14 14:32	10
Chlorobenzene	<10		10	2.5	ug/L			04/30/14 14:32	10
Chloroethane	<50		50	20	ug/L			04/30/14 14:32	10
Chloroform	**4.3**	**J**	10	1.4	ug/L			04/30/14 14:32	10
Chloromethane	**4.0**	**J**	10	3.3	ug/L			04/30/14 14:32	10
cis-1,2-Dichloroethylene	**590**		10	1.5	ug/L			04/30/14 14:32	10
cis-1,3-Dichloropropene	<10		10	1.1	ug/L			04/30/14 14:32	10
Dibromochloromethane	<10		10	1.0	ug/L			04/30/14 14:32	10
Dibromomethane	<10		10	2.0	ug/L			04/30/14 14:32	10
1,2-Dichlorobenzene	<10		10	2.1	ug/L			04/30/14 14:32	10
1,3-Dichlorobenzene	<10		10	2.5	ug/L			04/30/14 14:32	10
1,4-Dichlorobenzene	<10		10	2.8	ug/L			04/30/14 14:32	10
Dichlorodifluoromethane	<10		10	2.5	ug/L			04/30/14 14:32	10
1,1-Dichloroethane	**12**		10	2.5	ug/L			04/30/14 14:32	10
1,2-Dichloroethane	<10		10	1.0	ug/L			04/30/14 14:32	10
1,1-Dichloroethene	**10**		10	1.1	ug/L			04/30/14 14:32	10
1,2-Dichloropropane	<10		10	1.3	ug/L			04/30/14 14:32	10
Methylene Chloride	<50		50	10	ug/L			04/30/14 14:32	10
1,1,1,2-Tetrachloroethane	<10		10	3.3	ug/L			04/30/14 14:32	10
1,1,2,2-Tetrachloroethane	<10		10	1.8	ug/L			04/30/14 14:32	10
Tetrachloroethene	**3.5**	**J**	10	1.5	ug/L			04/30/14 14:32	10
trans-1,2-Dichloroethene	**5.3**	**J**	10	2.0	ug/L			04/30/14 14:32	10
trans-1,3-Dichloropropene	<10		10	2.1	ug/L			04/30/14 14:32	10

Client Sample ID: OW-304L

Lab Sample ID: 640-47571-6

Date Collected: 04/17/14 14:00

Matrix: Water

Date Received: 04/18/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<10		10	5.0	ug/L			04/30/14 14:32	10
1,1,2-Trichloroethane	<10		10	1.3	ug/L			04/30/14 14:32	10
Trichloroethene	**1600**		10	1.3	ug/L			04/30/14 14:32	10
Trichlorofluoromethane	<10		10	2.5	ug/L			04/30/14 14:32	10
1,2,3-Trichloropropane	<10		10	4.1	ug/L			04/30/14 14:32	10
Vinyl chloride	**33**		10	1.8	ug/L			04/30/14 14:32	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*70 - 119*		*04/30/14 14:32*	*10*
Dibromofluoromethane	*118*		*83 - 123*		*04/30/14 14:32*	*10*
Toluene-d8 (Surr)	*98*		*78 - 126*		*04/30/14 14:32*	*10*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	<1.1		1.1	0.55	ug/L			04/23/14 13:35	1
Ethylene	<1.0		1.0	0.50	ug/L			04/23/14 13:35	1
Methane	**19**		0.58	0.29	ug/L			04/23/14 13:35	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**58**		1.0	0.50	mg/L			04/30/14 16:52	2
Sulfate	**79**		1.0	0.50	mg/L			04/30/14 16:52	2

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Iron	<50		50	24	ug/L		04/23/14 11:07	04/24/14 16:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**1.6**		0.050	0.010	mg/L			04/18/14 16:40	1
Total Organic Carbon	**2.2**		1.0	0.50	mg/L			05/01/14 06:20	1

Client Sample ID: OW-304L DUP

Lab Sample ID: 640-47571-7

Date Collected: 04/17/14 14:05

Matrix: Water

Date Received: 04/18/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<10		10	1.6	ug/L			04/30/14 15:39	10
Bromoform	<10		10	5.0	ug/L			04/30/14 15:39	10
Bromomethane	<50		50	20	ug/L			04/30/14 15:39	10
Carbon tetrachloride	<10		10	5.0	ug/L			04/30/14 15:39	10
Chlorobenzene	<10		10	2.5	ug/L			04/30/14 15:39	10
Chloroethane	<50		50	20	ug/L			04/30/14 15:39	10
Chloroform	<10		10	1.4	ug/L			04/30/14 15:39	10
Chloromethane	<10		10	3.3	ug/L			04/30/14 15:39	10
cis-1,2-Dichloroethylene	**510**		10	1.5	ug/L			04/30/14 15:39	10
cis-1,3-Dichloropropene	<10		10	1.1	ug/L			04/30/14 15:39	10
Dibromochloromethane	<10		10	1.0	ug/L			04/30/14 15:39	10
Dibromomethane	<10		10	2.0	ug/L			04/30/14 15:39	10
1,2-Dichlorobenzene	<10		10	2.1	ug/L			04/30/14 15:39	10

Client Sample ID: OW-304L DUP

Lab Sample ID: 640-47571-7

Date Collected: 04/17/14 14:05
Matrix: Water
Date Received: 04/18/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<10		10	2.5	ug/L			04/30/14 15:39	10
1,4-Dichlorobenzene	<10		10	2.8	ug/L			04/30/14 15:39	10
Dichlorodifluoromethane	<10		10	2.5	ug/L			04/30/14 15:39	10
1,1-Dichloroethane	**7.1**	**J**	10	2.5	ug/L			04/30/14 15:39	10
1,2-Dichloroethane	**4.6**	**J**	10	1.0	ug/L			04/30/14 15:39	10
1,1-Dichloroethene	**6.7**	**J**	10	1.1	ug/L			04/30/14 15:39	10
1,2-Dichloropropane	<10		10	1.3	ug/L			04/30/14 15:39	10
Methylene Chloride	<50		50	10	ug/L			04/30/14 15:39	10
1,1,1,2-Tetrachloroethane	<10		10	3.3	ug/L			04/30/14 15:39	10
1,1,2,2-Tetrachloroethane	<10		10	1.8	ug/L			04/30/14 15:39	10
Tetrachloroethene	**3.4**	**J**	10	1.5	ug/L			04/30/14 15:39	10
trans-1,2-Dichloroethene	**3.5**	**J**	10	2.0	ug/L			04/30/14 15:39	10
trans-1,3-Dichloropropene	<10		10	2.1	ug/L			04/30/14 15:39	10
1,1,1-Trichloroethane	<10		10	5.0	ug/L			04/30/14 15:39	10
1,1,2-Trichloroethane	<10		10	1.3	ug/L			04/30/14 15:39	10
Trichloroethene	**1600**		10	1.3	ug/L			04/30/14 15:39	10
Trichlorofluoromethane	<10		10	2.5	ug/L			04/30/14 15:39	10
1,2,3-Trichloropropane	<10		10	4.1	ug/L			04/30/14 15:39	10
Vinyl chloride	**28**		10	1.8	ug/L			04/30/14 15:39	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*70 - 119*		*04/30/14 15:39*	*10*
Dibromofluoromethane	*105*		*83 - 123*		*04/30/14 15:39*	*10*
Toluene-d8 (Surr)	*97*		*78 - 126*		*04/30/14 15:39*	*10*

Client Sample ID: GZ-703R

Lab Sample ID: 640-47571-8

Date Collected: 04/17/14 11:50
Matrix: Water
Date Received: 04/18/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<2.0		2.0	0.32	ug/L			04/30/14 16:40	2
Bromoform	<2.0		2.0	1.0	ug/L			04/30/14 16:40	2
Bromomethane	<10		10	4.0	ug/L			04/30/14 16:40	2
Carbon tetrachloride	<2.0		2.0	1.0	ug/L			04/30/14 16:40	2
Chlorobenzene	<2.0		2.0	0.50	ug/L			04/30/14 16:40	2
Chloroethane	<10		10	4.0	ug/L			04/30/14 16:40	2
Chloroform	<2.0		2.0	0.28	ug/L			04/30/14 16:40	2
Chloromethane	<2.0		2.0	0.66	ug/L			04/30/14 16:40	2
cis-1,2-Dichloroethylene	**25**		2.0	0.30	ug/L			04/30/14 16:40	2
cis-1,3-Dichloropropene	<2.0		2.0	0.22	ug/L			04/30/14 16:40	2
Dibromochloromethane	<2.0		2.0	0.20	ug/L			04/30/14 16:40	2
Dibromomethane	<2.0		2.0	0.40	ug/L			04/30/14 16:40	2
1,2-Dichlorobenzene	<2.0		2.0	0.42	ug/L			04/30/14 16:40	2
1,3-Dichlorobenzene	<2.0		2.0	0.50	ug/L			04/30/14 16:40	2
1,4-Dichlorobenzene	<2.0		2.0	0.56	ug/L			04/30/14 16:40	2
Dichlorodifluoromethane	<2.0		2.0	0.50	ug/L			04/30/14 16:40	2
1,1-Dichloroethane	<2.0		2.0	0.50	ug/L			04/30/14 16:40	2
1,2-Dichloroethane	<2.0		2.0	0.20	ug/L			04/30/14 16:40	2
1,1-Dichloroethene	**2.4**		2.0	0.22	ug/L			04/30/14 16:40	2

Client Sample ID: GZ-703R

Lab Sample ID: 640-47571-8

Date Collected: 04/17/14 11:50

Matrix: Water

Date Received: 04/18/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<2.0		2.0	0.26	ug/L			04/30/14 16:40	2
Methylene Chloride	<10		10	2.0	ug/L			04/30/14 16:40	2
1,1,1,2-Tetrachloroethane	<2.0		2.0	0.66	ug/L			04/30/14 16:40	2
1,1,2,2-Tetrachloroethane	<2.0		2.0	0.36	ug/L			04/30/14 16:40	2
Tetrachloroethene	**2.1**		2.0	0.30	ug/L			04/30/14 16:40	2
trans-1,2-Dichloroethene	<2.0		2.0	0.40	ug/L			04/30/14 16:40	2
trans-1,3-Dichloropropene	<2.0		2.0	0.42	ug/L			04/30/14 16:40	2
1,1,1-Trichloroethane	<2.0		2.0	1.0	ug/L			04/30/14 16:40	2
1,1,2-Trichloroethane	<2.0		2.0	0.26	ug/L			04/30/14 16:40	2
Trichloroethene	**230**		2.0	0.26	ug/L			04/30/14 16:40	2
Trichlorofluoromethane	<2.0		2.0	0.50	ug/L			04/30/14 16:40	2
1,2,3-Trichloropropane	<2.0		2.0	0.82	ug/L			04/30/14 16:40	2
Vinyl chloride	<2.0		2.0	0.36	ug/L			04/30/14 16:40	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*70 - 119*		*04/30/14 16:40*	*2*
Dibromofluoromethane	*103*		*83 - 123*		*04/30/14 16:40*	*2*
Toluene-d8 (Surr)	*96*		*78 - 126*		*04/30/14 16:40*	*2*

Client Sample ID: GZ-506R

Lab Sample ID: 640-47571-9

Date Collected: 04/17/14 12:50

Matrix: Water

Date Received: 04/18/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/29/14 16:41	1
Bromoform	<1.0		1.0	0.50	ug/L			04/29/14 16:41	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/29/14 16:41	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/29/14 16:41	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/29/14 16:41	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/29/14 16:41	1
Chloroform	**0.28**	**J**	1.0	0.14	ug/L			04/29/14 16:41	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/29/14 16:41	1
cis-1,2-Dichloroethylene	**52**		1.0	0.15	ug/L			04/29/14 16:41	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/29/14 16:41	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/29/14 16:41	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/29/14 16:41	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/29/14 16:41	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/29/14 16:41	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/29/14 16:41	1
Dichlorodifluoromethane	**0.72**	**J**	1.0	0.25	ug/L			04/29/14 16:41	1
1,1-Dichloroethane	**0.65**	**J**	1.0	0.25	ug/L			04/29/14 16:41	1
1,2-Dichloroethane	**0.20**	**J**	1.0	0.10	ug/L			04/29/14 16:41	1
1,1-Dichloroethene	<1.0		1.0	0.11	ug/L			04/29/14 16:41	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/29/14 16:41	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/29/14 16:41	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/29/14 16:41	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/29/14 16:41	1
Tetrachloroethene	**0.76**	**J**	1.0	0.15	ug/L			04/29/14 16:41	1
trans-1,2-Dichloroethene	**0.83**	**J**	1.0	0.20	ug/L			04/29/14 16:41	1

Client Sample ID: GZ-506R

Lab Sample ID: 640-47571-9

Date Collected: 04/17/14 12:50

Matrix: Water

Date Received: 04/18/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/29/14 16:41	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/29/14 16:41	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/29/14 16:41	1
Trichloroethene	**120**		1.0	0.13	ug/L			04/29/14 16:41	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/29/14 16:41	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/29/14 16:41	1
Vinyl chloride	<1.0		1.0	0.18	ug/L			04/29/14 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*70 - 119*		*04/29/14 16:41*	*1*
Dibromofluoromethane	*117*		*83 - 123*		*04/29/14 16:41*	*1*
Toluene-d8 (Surr)	*99*		*78 - 126*		*04/29/14 16:41*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	<1.1		1.1	0.55	ug/L			04/23/14 13:48	1
Ethylene	<1.0		1.0	0.50	ug/L			04/23/14 13:48	1
Methane	**0.44**	**J**	0.58	0.29	ug/L			04/23/14 13:48	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**34**		0.50	0.25	mg/L			04/30/14 17:07	1
Sulfate	**50**		1.0	0.50	mg/L			04/30/14 17:21	2

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Iron	<50		50	24	ug/L		04/23/14 11:07	04/24/14 16:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.26**		0.050	0.010	mg/L			04/18/14 16:39	1
Total Organic Carbon	**0.62**	**J**	1.0	0.50	mg/L			05/01/14 06:38	1

Client Sample ID: GZ-601L

Lab Sample ID: 640-47571-10

Date Collected: 04/17/14 09:40

Matrix: Water

Date Received: 04/18/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	0.25	ug/L			04/29/14 17:04	1
Bromobenzene	<1.0		1.0	0.16	ug/L			04/29/14 17:04	1
Bromoform	<1.0		1.0	0.50	ug/L			04/29/14 17:04	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/29/14 17:04	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/29/14 17:04	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/29/14 17:04	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/29/14 17:04	1
Chloroform	<1.0		1.0	0.14	ug/L			04/29/14 17:04	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/29/14 17:04	1
cis-1,2-Dichloroethylene	<1.0		1.0	0.15	ug/L			04/29/14 17:04	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/29/14 17:04	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/29/14 17:04	1

Client Sample ID: GZ-601L

Lab Sample ID: 640-47571-10

Date Collected: 04/17/14 09:40

Matrix: Water

Date Received: 04/18/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	<1.0		1.0	0.20	ug/L			04/29/14 17:04	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/29/14 17:04	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/29/14 17:04	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/29/14 17:04	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/29/14 17:04	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/29/14 17:04	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/29/14 17:04	1
1,1-Dichloroethene	<1.0		1.0	0.11	ug/L			04/29/14 17:04	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/29/14 17:04	1
Ethylbenzene	<1.0		1.0	0.11	ug/L			04/29/14 17:04	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/29/14 17:04	1
Methyl tert-butyl ether	**0.38**	**J**	10	0.20	ug/L			04/29/14 17:04	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/29/14 17:04	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/29/14 17:04	1
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/29/14 17:04	1
Toluene	<1.0		1.0	0.33	ug/L			04/29/14 17:04	1
trans-1,2-Dichloroethene	<1.0		1.0	0.20	ug/L			04/29/14 17:04	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/29/14 17:04	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/29/14 17:04	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/29/14 17:04	1
Trichloroethene	<1.0		1.0	0.13	ug/L			04/29/14 17:04	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/29/14 17:04	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/29/14 17:04	1
Vinyl chloride	<1.0		1.0	0.18	ug/L			04/29/14 17:04	1
Xylenes, Total	<2.0		2.0	0.20	ug/L			04/29/14 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*70 - 119*		*04/29/14 17:04*	*1*
Dibromofluoromethane	*119*		*83 - 123*		*04/29/14 17:04*	*1*
Toluene-d8 (Surr)	*101*		*78 - 126*		*04/29/14 17:04*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<1.0		1.0	0.50	mg/L			05/01/14 06:58	1

Client Sample ID: GZ-601R

Lab Sample ID: 640-47571-11

Date Collected: 04/17/14 10:25

Matrix: Water

Date Received: 04/18/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	0.25	ug/L			04/29/14 17:27	1
Bromobenzene	<1.0		1.0	0.16	ug/L			04/29/14 17:27	1
Bromoform	<1.0		1.0	0.50	ug/L			04/29/14 17:27	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/29/14 17:27	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/29/14 17:27	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/29/14 17:27	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/29/14 17:27	1
Chloroform	<1.0		1.0	0.14	ug/L			04/29/14 17:27	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/29/14 17:27	1

Client Sample ID: GZ-601R

Date Collected: 04/17/14 10:25
Date Received: 04/18/14 09:35

Lab Sample ID: 640-47571-11

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethylene	**32**		1.0	0.15	ug/L			04/29/14 17:27	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/29/14 17:27	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/29/14 17:27	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/29/14 17:27	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/29/14 17:27	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/29/14 17:27	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/29/14 17:27	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/29/14 17:27	1
1,1-Dichloroethane	**0.67**	**J**	1.0	0.25	ug/L			04/29/14 17:27	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/29/14 17:27	1
1,1-Dichloroethene	**0.60**	**J**	1.0	0.11	ug/L			04/29/14 17:27	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/29/14 17:27	1
Ethylbenzene	<1.0		1.0	0.11	ug/L			04/29/14 17:27	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/29/14 17:27	1
Methyl tert-butyl ether	**110**		10	0.20	ug/L			04/29/14 17:27	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/29/14 17:27	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/29/14 17:27	1
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/29/14 17:27	1
Toluene	<1.0		1.0	0.33	ug/L			04/29/14 17:27	1
trans-1,2-Dichloroethene	**0.27**	**J**	1.0	0.20	ug/L			04/29/14 17:27	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/29/14 17:27	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/29/14 17:27	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/29/14 17:27	1
Trichloroethene	**2.4**		1.0	0.13	ug/L			04/29/14 17:27	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/29/14 17:27	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/29/14 17:27	1
Vinyl chloride	**0.58**	**J**	1.0	0.18	ug/L			04/29/14 17:27	1
Xylenes, Total	<2.0		2.0	0.20	ug/L			04/29/14 17:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*70 - 119*		*04/29/14 17:27*	*1*
Dibromofluoromethane	*112*		*83 - 123*		*04/29/14 17:27*	*1*
Toluene-d8 (Surr)	*102*		*78 - 126*		*04/29/14 17:27*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	<1.1		1.1	0.55	ug/L			04/23/14 14:01	1
Ethylene	**2.4**		1.0	0.50	ug/L			04/23/14 14:01	1
Methane	**13**		0.58	0.29	ug/L			04/23/14 14:01	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**29**		0.50	0.25	mg/L			04/30/14 17:36	1
Sulfate	**55**		1.0	0.50	mg/L			04/30/14 17:50	2

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Iron	**120**		50	24	ug/L		04/23/14 11:07	04/24/14 16:08	1

Client Sample ID: GZ-601R

Lab Sample ID: 640-47571-11

Date Collected: 04/17/14 10:25

Matrix: Water

Date Received: 04/18/14 09:35

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.050		0.050	0.010	mg/L			04/18/14 16:33	1
Total Organic Carbon	**0.65**	**J**	1.0	0.50	mg/L			05/01/14 07:16	1

Client Sample ID: Field Blank

Lab Sample ID: 640-47571-13

Date Collected: 04/17/14 11:35

Matrix: Water

Date Received: 04/18/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/29/14 13:16	1
Bromoform	<1.0		1.0	0.50	ug/L			04/29/14 13:16	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/29/14 13:16	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/29/14 13:16	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/29/14 13:16	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/29/14 13:16	1
Chloroform	<1.0		1.0	0.14	ug/L			04/29/14 13:16	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/29/14 13:16	1
cis-1,2-Dichloroethylene	<1.0		1.0	0.15	ug/L			04/29/14 13:16	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/29/14 13:16	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/29/14 13:16	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/29/14 13:16	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/29/14 13:16	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/29/14 13:16	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/29/14 13:16	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/29/14 13:16	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/29/14 13:16	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/29/14 13:16	1
1,1-Dichloroethene	<1.0		1.0	0.11	ug/L			04/29/14 13:16	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/29/14 13:16	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/29/14 13:16	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/29/14 13:16	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/29/14 13:16	1
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/29/14 13:16	1
trans-1,2-Dichloroethene	<1.0		1.0	0.20	ug/L			04/29/14 13:16	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/29/14 13:16	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/29/14 13:16	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/29/14 13:16	1
Trichloroethene	<1.0		1.0	0.13	ug/L			04/29/14 13:16	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/29/14 13:16	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/29/14 13:16	1
Vinyl chloride	<1.0		1.0	0.18	ug/L			04/29/14 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*70 - 119*		*04/29/14 13:16*	*1*
Dibromofluoromethane	*114*		*83 - 123*		*04/29/14 13:16*	*1*
Toluene-d8 (Surr)	*100*		*78 - 126*		*04/29/14 13:16*	*1*

Client Sample ID: OW-304R

Lab Sample ID: 640-47571-14

Date Collected: 04/17/14 15:05
Matrix: Water
Date Received: 04/18/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<10		10	1.6	ug/L			04/30/14 16:09	10
Bromoform	<10		10	5.0	ug/L			04/30/14 16:09	10
Bromomethane	<50		50	20	ug/L			04/30/14 16:09	10
Carbon tetrachloride	<10		10	5.0	ug/L			04/30/14 16:09	10
Chlorobenzene	<10		10	2.5	ug/L			04/30/14 16:09	10
Chloroethane	<50		50	20	ug/L			04/30/14 16:09	10
Chloroform	<10		10	1.4	ug/L			04/30/14 16:09	10
Chloromethane	<10		10	3.3	ug/L			04/30/14 16:09	10
cis-1,2-Dichloroethylene	**130**		10	1.5	ug/L			04/30/14 16:09	10
cis-1,3-Dichloropropene	<10		10	1.1	ug/L			04/30/14 16:09	10
Dibromochloromethane	<10		10	1.0	ug/L			04/30/14 16:09	10
Dibromomethane	<10		10	2.0	ug/L			04/30/14 16:09	10
1,2-Dichlorobenzene	<10		10	2.1	ug/L			04/30/14 16:09	10
1,3-Dichlorobenzene	<10		10	2.5	ug/L			04/30/14 16:09	10
1,4-Dichlorobenzene	<10		10	2.8	ug/L			04/30/14 16:09	10
Dichlorodifluoromethane	<10		10	2.5	ug/L			04/30/14 16:09	10
1,1-Dichloroethane	**3.0**	**J**	10	2.5	ug/L			04/30/14 16:09	10
1,2-Dichloroethane	**4.2**	**J**	10	1.0	ug/L			04/30/14 16:09	10
1,1-Dichloroethene	<10		10	1.1	ug/L			04/30/14 16:09	10
1,2-Dichloropropane	<10		10	1.3	ug/L			04/30/14 16:09	10
Methylene Chloride	<50		50	10	ug/L			04/30/14 16:09	10
1,1,1,2-Tetrachloroethane	<10		10	3.3	ug/L			04/30/14 16:09	10
1,1,2,2-Tetrachloroethane	<10		10	1.8	ug/L			04/30/14 16:09	10
Tetrachloroethene	**3.4**	**J**	10	1.5	ug/L			04/30/14 16:09	10
trans-1,2-Dichloroethene	**2.6**	**J**	10	2.0	ug/L			04/30/14 16:09	10
trans-1,3-Dichloropropene	<10		10	2.1	ug/L			04/30/14 16:09	10
1,1,1-Trichloroethane	<10		10	5.0	ug/L			04/30/14 16:09	10
1,1,2-Trichloroethane	<10		10	1.3	ug/L			04/30/14 16:09	10
Trichloroethene	**1000**		10	1.3	ug/L			04/30/14 16:09	10
Trichlorofluoromethane	<10		10	2.5	ug/L			04/30/14 16:09	10
1,2,3-Trichloropropane	<10		10	4.1	ug/L			04/30/14 16:09	10
Vinyl chloride	**41**		10	1.8	ug/L			04/30/14 16:09	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*70 - 119*		*04/30/14 16:09*	*10*
Dibromofluoromethane	*116*		*83 - 123*		*04/30/14 16:09*	*10*
Toluene-d8 (Surr)	*98*		*78 - 126*		*04/30/14 16:09*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**0.77**	**J**	1.0	0.50	mg/L			05/01/14 07:33	1

Client Sample ID: Equipment Blank

Lab Sample ID: 640-47571-16

Date Collected: 04/17/14 15:25
Matrix: Water
Date Received: 04/18/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/29/14 13:39	1
Bromoform	<1.0		1.0	0.50	ug/L			04/29/14 13:39	1

Client Sample ID: Equipment Blank

Lab Sample ID: 640-47571-16

Date Collected: 04/17/14 15:25

Matrix: Water

Date Received: 04/18/14 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<5.0		5.0	2.0	ug/L			04/29/14 13:39	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/29/14 13:39	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/29/14 13:39	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/29/14 13:39	1
Chloroform	<1.0		1.0	0.14	ug/L			04/29/14 13:39	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/29/14 13:39	1
cis-1,2-Dichloroethylene	**4.2**		1.0	0.15	ug/L			04/29/14 13:39	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/29/14 13:39	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/29/14 13:39	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/29/14 13:39	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/29/14 13:39	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/29/14 13:39	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/29/14 13:39	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/29/14 13:39	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/29/14 13:39	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/29/14 13:39	1
1,1-Dichloroethene	<1.0		1.0	0.11	ug/L			04/29/14 13:39	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/29/14 13:39	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/29/14 13:39	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/29/14 13:39	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/29/14 13:39	1
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/29/14 13:39	1
trans-1,2-Dichloroethene	<1.0		1.0	0.20	ug/L			04/29/14 13:39	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/29/14 13:39	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/29/14 13:39	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/29/14 13:39	1
Trichloroethene	**9.8**		1.0	0.13	ug/L			04/29/14 13:39	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/29/14 13:39	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/29/14 13:39	1
Vinyl chloride	<1.0		1.0	0.18	ug/L			04/29/14 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*70 - 119*		*04/29/14 13:39*	*1*
Dibromofluoromethane	*117*		*83 - 123*		*04/29/14 13:39*	*1*
Toluene-d8 (Surr)	*101*		*78 - 126*		*04/29/14 13:39*	*1*

Default Detection Limits

Client: GZA GeoEnvironmental, Inc.
Project/Site: HP-San German IB

TestAmerica Job ID: 640-47518-1
SDG: 47518

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	RL	MDL	Units	Method
1,1,1,2-Tetrachloroethane	1.0	0.33	ug/L	8260B
1,1,1-Trichloroethane	1.0	0.50	ug/L	8260B
1,1,2,2-Tetrachloroethane	1.0	0.18	ug/L	8260B
1,1,2-Trichloroethane	1.0	0.13	ug/L	8260B
1,1-Dichloroethane	1.0	0.25	ug/L	8260B
1,1-Dichloroethene	1.0	0.11	ug/L	8260B
1,2,3-Trichloropropane	1.0	0.41	ug/L	8260B
1,2-Dichlorobenzene	1.0	0.21	ug/L	8260B
1,2-Dichloroethane	1.0	0.10	ug/L	8260B
1,2-Dichloropropane	1.0	0.13	ug/L	8260B
1,3-Dichlorobenzene	1.0	0.25	ug/L	8260B
1,4-Dichlorobenzene	1.0	0.28	ug/L	8260B
Benzene	1.0	0.25	ug/L	8260B
Bromobenzene	1.0	0.16	ug/L	8260B
Bromoform	1.0	0.50	ug/L	8260B
Bromomethane	5.0	2.0	ug/L	8260B
Carbon tetrachloride	1.0	0.50	ug/L	8260B
Chlorobenzene	1.0	0.25	ug/L	8260B
Chloroethane	5.0	2.0	ug/L	8260B
Chloroform	1.0	0.14	ug/L	8260B
Chloromethane	1.0	0.33	ug/L	8260B
cis-1,2-Dichloroethylene	1.0	0.15	ug/L	8260B
cis-1,3-Dichloropropene	1.0	0.11	ug/L	8260B
Dibromochloromethane	1.0	0.10	ug/L	8260B
Dibromomethane	1.0	0.20	ug/L	8260B
Dichlorodifluoromethane	1.0	0.25	ug/L	8260B
Ethylbenzene	1.0	0.11	ug/L	8260B
Methyl tert-butyl ether	10	0.20	ug/L	8260B
Methylene Chloride	5.0	1.0	ug/L	8260B
Tetrachloroethene	1.0	0.15	ug/L	8260B
Toluene	1.0	0.33	ug/L	8260B
trans-1,2-Dichloroethene	1.0	0.20	ug/L	8260B
trans-1,3-Dichloropropene	1.0	0.21	ug/L	8260B
Trichloroethene	1.0	0.13	ug/L	8260B
Trichlorofluoromethane	1.0	0.25	ug/L	8260B
Vinyl chloride	1.0	0.18	ug/L	8260B
Xylenes, Total	2.0	0.20	ug/L	8260B

Method: RSK-175 - Dissolved Gases (GC)

Analyte	RL	MDL	Units	Method
Ethane	1.1	0.55	ug/L	RSK-175
Ethylene	1.0	0.50	ug/L	RSK-175
Methane	0.58	0.29	ug/L	RSK-175

Method: 300.0 - Anions, Ion Chromatography

Analyte	RL	MDL	Units	Method
Chloride	0.50	0.25	mg/L	300.0
Sulfate	0.50	0.25	mg/L	300.0

Default Detection Limits

Client: GZA GeoEnvironmental, Inc.
Project/Site: HP-San German IB

TestAmerica Job ID: 640-47518-1
SDG: 47518

Method: 6010B - Metals (ICP) - Dissolved

Analyte	RL	MDL	Units	Method
Dissolved Iron	50	24	ug/L	6010B

General Chemistry

Analyte	RL	MDL	Units	Method
Nitrate as N	0.050	0.010	mg/L	353.2
Nitrate Nitrite as N	0.050	0.010	mg/L	353.2
Total Organic Carbon	1.0	0.50	mg/L	5310 B-2011

Surrogate Summary

Client: GZA GeoEnvironmental, Inc.
Project/Site: HP-San German IB

TestAmerica Job ID: 640-47518-1
SDG: 47518

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		BFB	DBFM	TOL					
Lab Sample ID	Client Sample ID	(70-119)	(83-123)	(78-126)					
640-47518-1	GZ-505L	99	118	100					
640-47518-2	GZ-505R	97	111	97					
640-47518-3	GZ-503U	97	114	101					
640-47518-4	GZ-502L	97	115	99					
640-47518-5	OW-305U	99	114	98					
640-47518-6	OW-305I	101	106	100					
640-47518-7	GZ-503L	95	111	94					
640-47518-8	GZ-501L	97	114	100					
640-47518-9	Trip Blank	100	109	99					
640-47518-10	GZ-515U	102	114	101					
640-47518-10 MS	GZ-515U MS	99	104	102					
640-47518-10 MSD	GZ-515U MSD	84	88	86					
640-47518-11	WB-4L	97	117	98					
640-47518-12	WB-3L	98	114	95					
640-47518-13	WB-2L	97	117	99					
640-47518-14	WB-2L DUP	96	117	96					
640-47518-15	OW-404R	97	114	97					
640-47518-16	WB-1L	96	115	100					
640-47518-17	Field Blank	99	120	99					
640-47518-18	GZ-504R	95	110	100					
640-47518-19	Trip Blank 2	98	117	99					
640-47518-20	GZ-504L	98	116	98					
640-47539-1	GZ-506U	106	106	104					
640-47539-2	OW-102	104	110	103					
640-47539-3	OW-102 DUP	102	109	104					
640-47539-4	OW-403L	105	109	102					
640-47539-6	DEC-204O	102	103	102					
640-47539-7	OW-301	104	107	106					
640-47539-8	OW-408	108	107	104					
640-47539-9	Trip Blank 4	100	110	103					
640-47539-10	Field Blank	102	112	102					
640-47539-11	OW-402U	108	106	102					
640-47539-12	OW-402L	105	109	102					
640-47539-13	OW-402R	106	107	100					
640-47539-14	GZ-519U	102	105	99					
640-47539-15	OW-101L	107	109	102					
640-47539-16	OW-101	105	107	100					
640-47539-17	OW-307	107	104	103					
640-47539-18	Trip Blank 3	105	106	102					
640-47571-1	OW-304U	103	114	105					
640-47571-2	GZ-702U	101	117	100					
640-47571-3	GZ-701L	105	114	100					
640-47571-4	GZ-701R	104	119	102					
640-47571-5	Trip Blank 5	101	111	104					
640-47571-6	OW-304L	104	118	98					
640-47571-7	OW-304L DUP	106	105	97					
640-47571-8	GZ-703R	99	103	96					
640-47571-9	GZ-506R	100	117	99					
640-47571-10	GZ-601L	106	119	101					

Surrogate Summary

Client: GZA GeoEnvironmental, Inc.
Project/Site: HP-San German IB

TestAmerica Job ID: 640-47518-1
SDG: 47518

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-119)	(83-123)	(78-126)
640-47571-10 MS	GZ-601L MS	96	104	98
640-47571-10 MSD	GZ-601L MSD	98	99	98
640-47571-11	GZ-601R	102	112	102
640-47571-13	Field Blank	100	114	100
640-47571-14	OW-304R	103	116	98
640-47571-16	Equipment Blank	105	117	101
LCS 680-326217/4	Lab Control Sample	99	101	98
LCS 680-326297/4	Lab Control Sample	99	97	105
LCS 680-326410/4	Lab Control Sample	104	104	105
LCS 680-326587/4	Lab Control Sample	107	106	106
LCS 680-326794/4	Lab Control Sample	109	112	102
LCSD 680-326217/5	Lab Control Sample Dup	102	102	104
LCSD 680-326297/5	Lab Control Sample Dup	104	102	102
LCSD 680-326410/5	Lab Control Sample Dup	102	101	100
LCSD 680-326587/5	Lab Control Sample Dup	100	101	104
LCSD 680-326794/5	Lab Control Sample Dup	106	114	103
MB 680-326217/9	Method Blank	102	112	104
MB 680-326297/8	Method Blank	102	123	101
MB 680-326410/9	Method Blank	100	114	103
MB 680-326587/9	Method Blank	102	116	103
MB 680-326794/8	Method Blank	101	126 X	96

Surrogate Legend

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-326217/9 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 326217

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/25/14 18:00	1
Bromoform	<1.0		1.0	0.50	ug/L			04/25/14 18:00	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/25/14 18:00	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/25/14 18:00	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/25/14 18:00	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/25/14 18:00	1
Chloroform	<1.0		1.0	0.14	ug/L			04/25/14 18:00	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/25/14 18:00	1
cis-1,2-Dichloroethylene	<1.0		1.0	0.15	ug/L			04/25/14 18:00	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/25/14 18:00	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/25/14 18:00	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/25/14 18:00	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/25/14 18:00	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/25/14 18:00	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/25/14 18:00	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/25/14 18:00	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/25/14 18:00	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/25/14 18:00	1
1,1-Dichloroethene	<1.0		1.0	0.11	ug/L			04/25/14 18:00	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/25/14 18:00	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/25/14 18:00	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/25/14 18:00	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/25/14 18:00	1
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/25/14 18:00	1
trans-1,2-Dichloroethene	<1.0		1.0	0.20	ug/L			04/25/14 18:00	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/25/14 18:00	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/25/14 18:00	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/25/14 18:00	1
Trichloroethene	<1.0		1.0	0.13	ug/L			04/25/14 18:00	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/25/14 18:00	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/25/14 18:00	1
Vinyl chloride	<1.0		1.0	0.18	ug/L			04/25/14 18:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*70 - 119*		*04/25/14 18:00*	*1*
Dibromofluoromethane	*112*		*83 - 123*		*04/25/14 18:00*	*1*
Toluene-d8 (Surr)	*104*		*78 - 126*		*04/25/14 18:00*	*1*

Lab Sample ID: LCS 680-326217/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 326217

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	50.0	50.6		ug/L		101	58 - 151
Bromoform	50.0	52.4		ug/L		105	62 - 140
Bromomethane	50.0	35.8		ug/L		72	22 - 179
Carbon tetrachloride	50.0	55.3		ug/L		111	53 - 134
Chlorobenzene	50.0	49.5		ug/L		99	63 - 132

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-326217/4
Matrix: Water
Analysis Batch: 326217

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	50.0	45.5		ug/L		91	53 - 144
Chloroform	50.0	48.7		ug/L		97	60 - 126
Chloromethane	50.0	42.9		ug/L		86	62 - 130
cis-1,2-Dichloroethylene	50.0	47.9		ug/L		96	49 - 127
cis-1,3-Dichloropropene	50.0	46.5		ug/L		93	49 - 141
Dibromochloromethane	50.0	55.0		ug/L		110	55 - 134
Dibromomethane	50.0	45.5		ug/L		91	62 - 141
1,2-Dichlorobenzene	50.0	54.7		ug/L		109	60 - 154
1,3-Dichlorobenzene	50.0	55.5		ug/L		111	55 - 147
1,4-Dichlorobenzene	50.0	55.3		ug/L		111	58 - 151
Dichlorodifluoromethane	50.0	42.5		ug/L		85	28 - 133
1,1-Dichloroethane	50.0	48.1		ug/L		96	54 - 132
1,2-Dichloroethane	50.0	49.0		ug/L		98	51 - 167
1,1-Dichloroethene	50.0	48.8		ug/L		98	43 - 118
1,2-Dichloropropane	50.0	45.2		ug/L		90	60 - 138
Methylene Chloride	50.0	48.0		ug/L		96	52 - 132
1,1,1,2-Tetrachloroethane	50.0	51.8		ug/L		104	60 - 134
1,1,2,2-Tetrachloroethane	50.0	47.1		ug/L		94	63 - 148
Tetrachloroethene	50.0	53.1		ug/L		106	48 - 136
trans-1,2-Dichloroethene	50.0	50.3		ug/L		101	46 - 125
trans-1,3-Dichloropropene	50.0	50.5		ug/L		101	52 - 140
1,1,1-Trichloroethane	50.0	52.5		ug/L		105	58 - 136
1,1,2-Trichloroethane	50.0	47.5		ug/L		95	60 - 140
Trichloroethene	50.0	50.0		ug/L		100	59 - 129
Trichlorofluoromethane	50.0	50.3		ug/L		101	62 - 138
1,2,3-Trichloropropane	50.0	52.2		ug/L		104	51 - 171
Vinyl chloride	50.0	48.9		ug/L		98	66 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*70 - 119*
Dibromofluoromethane	*101*		*83 - 123*
Toluene-d8 (Surr)	*98*		*78 - 126*

Lab Sample ID: LCSD 680-326217/5
Matrix: Water
Analysis Batch: 326217

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromobenzene	50.0	52.6		ug/L		105	58 - 151	4	24
Bromoform	50.0	58.1		ug/L		116	62 - 140	10	25
Bromomethane	50.0	38.9		ug/L		78	22 - 179	8	44
Carbon tetrachloride	50.0	59.8		ug/L		120	53 - 134	8	19
Chlorobenzene	50.0	51.4		ug/L		103	63 - 132	4	20
Chloroethane	50.0	45.1		ug/L		90	53 - 144	1	38
Chloroform	50.0	48.2		ug/L		96	60 - 126	1	30
Chloromethane	50.0	41.7		ug/L		83	62 - 130	3	34
cis-1,2-Dichloroethylene	50.0	47.7		ug/L		95	49 - 127	0	29
cis-1,3-Dichloropropene	50.0	50.6		ug/L		101	49 - 141	8	24

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-326217/5 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 326217

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibromochloromethane	50.0	56.5		ug/L		113	55 - 134	3	24
Dibromomethane	50.0	52.7		ug/L		105	62 - 141	15	21
1,2-Dichlorobenzene	50.0	58.6		ug/L		117	60 - 154	7	22
1,3-Dichlorobenzene	50.0	57.4		ug/L		115	55 - 147	3	21
1,4-Dichlorobenzene	50.0	56.4		ug/L		113	58 - 151	2	21
Dichlorodifluoromethane	50.0	41.6		ug/L		83	28 - 133	2	35
1,1-Dichloroethane	50.0	47.2		ug/L		94	54 - 132	2	30
1,2-Dichloroethane	50.0	53.4		ug/L		107	51 - 167	9	28
1,1-Dichloroethene	50.0	47.9		ug/L		96	43 - 118	2	29
1,2-Dichloropropane	50.0	49.0		ug/L		98	60 - 138	8	20
Methylene Chloride	50.0	48.7		ug/L		97	52 - 132	2	30
1,1,1,2-Tetrachloroethane	50.0	54.0		ug/L		108	60 - 134	4	26
1,1,2,2-Tetrachloroethane	50.0	50.7		ug/L		101	63 - 148	7	22
Tetrachloroethene	50.0	54.9		ug/L		110	48 - 136	3	38
trans-1,2-Dichloroethene	50.0	47.9		ug/L		96	46 - 125	5	32
trans-1,3-Dichloropropene	50.0	54.3		ug/L		109	52 - 140	7	20
1,1,1-Trichloroethane	50.0	54.3		ug/L		109	58 - 136	3	21
1,1,2-Trichloroethane	50.0	51.1		ug/L		102	60 - 140	7	22
Trichloroethene	50.0	52.8		ug/L		106	59 - 129	5	22
Trichlorofluoromethane	50.0	47.7		ug/L		95	62 - 138	5	40
1,2,3-Trichloropropane	50.0	55.0		ug/L		110	51 - 171	5	32
Vinyl chloride	50.0	47.6		ug/L		95	66 - 121	3	31

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*70 - 119*
Dibromofluoromethane	*102*		*83 - 123*
Toluene-d8 (Surr)	*104*		*78 - 126*

Lab Sample ID: 640-47518-10 MS — **Client Sample ID: GZ-515U MS**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 326217

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	<1.0		50.0	50.1		ug/L		100	70 - 139
Bromoform	<1.0		50.0	56.1		ug/L		112	49 - 150
Bromomethane	<5.0		50.0	37.3		ug/L		75	23 - 140
Carbon tetrachloride	<1.0		50.0	60.6		ug/L		121	50 - 162
Chlorobenzene	<1.0		50.0	51.5		ug/L		103	70 - 125
Chloroethane	<5.0		50.0	46.2		ug/L		92	43 - 165
Chloroform	<1.0		50.0	49.5		ug/L		99	70 - 124
Chloromethane	<1.0		50.0	42.0		ug/L		84	56 - 137
cis-1,2-Dichloroethylene	<1.0		50.0	48.4		ug/L		97	70 - 122
cis-1,3-Dichloropropene	<1.0		50.0	45.4		ug/L		91	46 - 131
Dibromochloromethane	<1.0		50.0	55.8		ug/L		112	58 - 131
Dibromomethane	<1.0		50.0	47.7		ug/L		95	63 - 131
1,2-Dichlorobenzene	<1.0		50.0	48.8		ug/L		98	70 - 142
1,3-Dichlorobenzene	<1.0		50.0	51.5		ug/L		103	70 - 137
1,4-Dichlorobenzene	<1.0		50.0	51.3		ug/L		103	70 - 137

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 640-47518-10 MS — **Client Sample ID: GZ-515U MS**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 326217

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	<1.0		50.0	44.7		ug/L		89	37 - 139
1,1-Dichloroethane	<1.0		50.0	49.3		ug/L		99	70 - 126
1,2-Dichloroethane	<1.0		50.0	52.6		ug/L		105	65 - 150
1,1-Dichloroethene	<1.0		50.0	51.6		ug/L		103	60 - 127
1,2-Dichloropropane	<1.0		50.0	46.3		ug/L		93	66 - 135
Methylene Chloride	<5.0		50.0	47.2		ug/L		94	61 - 134
1,1,1,2-Tetrachloroethane	<1.0		50.0	54.5		ug/L		109	59 - 140
1,1,2,2-Tetrachloroethane	<1.0		50.0	47.6		ug/L		95	41 - 149
Tetrachloroethene	<1.0		50.0	53.1		ug/L		106	62 - 128
trans-1,2-Dichloroethene	<1.0		50.0	50.2		ug/L		100	64 - 127
trans-1,3-Dichloropropene	<1.0		50.0	47.5		ug/L		95	40 - 137
1,1,1-Trichloroethane	<1.0		50.0	56.5		ug/L		113	61 - 152
1,1,2-Trichloroethane	<1.0		50.0	46.8		ug/L		94	60 - 132
Trichloroethene	<1.0		50.0	53.3		ug/L		107	70 - 131
Trichlorofluoromethane	<1.0		50.0	52.4		ug/L		105	60 - 157
1,2,3-Trichloropropane	<1.0		50.0	54.2		ug/L		108	35 - 164
Vinyl chloride	<1.0		50.0	47.9		ug/L		96	63 - 126

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*70 - 119*
Dibromofluoromethane	*104*		*83 - 123*
Toluene-d8 (Surr)	*102*		*78 - 126*

Lab Sample ID: 640-47518-10 MSD — **Client Sample ID: GZ-515U MSD**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 326217

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromobenzene	<1.0		50.0	41.0	F2	ug/L		82	70 - 139	20	19
Bromoform	<1.0		50.0	45.1	F2	ug/L		90	49 - 150	22	20
Bromomethane	<5.0		50.0	35.4		ug/L		71	23 - 140	5	41
Carbon tetrachloride	<1.0		50.0	49.4		ug/L		99	50 - 162	20	28
Chlorobenzene	<1.0		50.0	42.0		ug/L		84	70 - 125	20	23
Chloroethane	<5.0		50.0	39.0		ug/L		78	43 - 165	17	45
Chloroform	<1.0		50.0	43.0		ug/L		86	70 - 124	14	21
Chloromethane	<1.0		50.0	37.0		ug/L		74	56 - 137	13	16
cis-1,2-Dichloroethylene	<1.0		50.0	42.3		ug/L		85	70 - 122	13	22
cis-1,3-Dichloropropene	<1.0		50.0	39.9		ug/L		80	46 - 131	13	25
Dibromochloromethane	<1.0		50.0	45.0	F2	ug/L		90	58 - 131	22	18
Dibromomethane	<1.0		50.0	42.1		ug/L		84	63 - 131	13	21
1,2-Dichlorobenzene	<1.0		50.0	39.9		ug/L		80	70 - 142	20	24
1,3-Dichlorobenzene	<1.0		50.0	39.6	F2	ug/L		79	70 - 137	26	24
1,4-Dichlorobenzene	<1.0		50.0	39.4	F2	ug/L		79	70 - 137	26	25
Dichlorodifluoromethane	<1.0		50.0	19.5	F2	ug/L		39	37 - 139	78	31
1,1-Dichloroethane	<1.0		50.0	42.1		ug/L		84	70 - 126	16	29
1,2-Dichloroethane	<1.0		50.0	43.9		ug/L		88	65 - 150	18	19
1,1-Dichloroethene	<1.0		50.0	43.0		ug/L		86	60 - 127	18	33
1,2-Dichloropropane	<1.0		50.0	40.3		ug/L		81	66 - 135	14	22

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 640-47518-10 MSD — **Client Sample ID: GZ-515U MSD**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 326217

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride	<5.0		50.0	40.1		ug/L		80	61 - 134	16	21
1,1,1,2-Tetrachloroethane	<1.0		50.0	45.7		ug/L		91	59 - 140	18	22
1,1,2,2-Tetrachloroethane	<1.0		50.0	38.5		ug/L		77	41 - 149	21	23
Tetrachloroethene	<1.0		50.0	43.8		ug/L		88	62 - 128	19	26
trans-1,2-Dichloroethene	<1.0		50.0	42.4		ug/L		85	64 - 127	17	21
trans-1,3-Dichloropropene	<1.0		50.0	40.2		ug/L		80	40 - 137	17	25
1,1,1-Trichloroethane	<1.0		50.0	47.6		ug/L		95	61 - 152	17	21
1,1,2-Trichloroethane	<1.0		50.0	39.5		ug/L		79	60 - 132	17	22
Trichloroethene	<1.0		50.0	44.6		ug/L		89	70 - 131	18	28
Trichlorofluoromethane	<1.0		50.0	43.5		ug/L		87	60 - 157	19	20
1,2,3-Trichloropropane	<1.0		50.0	43.1		ug/L		86	35 - 164	23	24
Vinyl chloride	<1.0		50.0	42.7		ug/L		85	63 - 126	11	23

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*84*		*70 - 119*
Dibromofluoromethane	*88*		*83 - 123*
Toluene-d8 (Surr)	*86*		*78 - 126*

Lab Sample ID: MB 680-326297/8 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 326297

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/26/14 12:38	1
Bromoform	<1.0		1.0	0.50	ug/L			04/26/14 12:38	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/26/14 12:38	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/26/14 12:38	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/26/14 12:38	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/26/14 12:38	1
Chloroform	<1.0		1.0	0.14	ug/L			04/26/14 12:38	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/26/14 12:38	1
cis-1,2-Dichloroethylene	<1.0		1.0	0.15	ug/L			04/26/14 12:38	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/26/14 12:38	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/26/14 12:38	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/26/14 12:38	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/26/14 12:38	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/26/14 12:38	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/26/14 12:38	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/26/14 12:38	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/26/14 12:38	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/26/14 12:38	1
1,1-Dichloroethene	<1.0		1.0	0.11	ug/L			04/26/14 12:38	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/26/14 12:38	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/26/14 12:38	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/26/14 12:38	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/26/14 12:38	1
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/26/14 12:38	1
trans-1,2-Dichloroethene	<1.0		1.0	0.20	ug/L			04/26/14 12:38	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-326297/8
Matrix: Water
Analysis Batch: 326297

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/26/14 12:38	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/26/14 12:38	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/26/14 12:38	1
Trichloroethene	<1.0		1.0	0.13	ug/L			04/26/14 12:38	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/26/14 12:38	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/26/14 12:38	1
Vinyl chloride	<1.0		1.0	0.18	ug/L			04/26/14 12:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*70 - 119*		*04/26/14 12:38*	*1*
Dibromofluoromethane	*123*		*83 - 123*		*04/26/14 12:38*	*1*
Toluene-d8 (Surr)	*101*		*78 - 126*		*04/26/14 12:38*	*1*

Lab Sample ID: LCS 680-326297/4
Matrix: Water
Analysis Batch: 326297

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	50.0	50.0		ug/L		100	58 - 151
Bromoform	50.0	56.0		ug/L		112	62 - 140
Bromomethane	50.0	37.9		ug/L		76	22 - 179
Carbon tetrachloride	50.0	59.6		ug/L		119	53 - 134
Chlorobenzene	50.0	52.2		ug/L		104	63 - 132
Chloroethane	50.0	44.2		ug/L		88	53 - 144
Chloroform	50.0	46.6		ug/L		93	60 - 126
Chloromethane	50.0	39.9		ug/L		80	62 - 130
cis-1,2-Dichloroethylene	50.0	45.9		ug/L		92	49 - 127
cis-1,3-Dichloropropene	50.0	51.5		ug/L		103	49 - 141
Dibromochloromethane	50.0	55.8		ug/L		112	55 - 134
Dibromomethane	50.0	50.6		ug/L		101	62 - 141
1,2-Dichlorobenzene	50.0	52.3		ug/L		105	60 - 154
1,3-Dichlorobenzene	50.0	53.5		ug/L		107	55 - 147
1,4-Dichlorobenzene	50.0	53.0		ug/L		106	58 - 151
Dichlorodifluoromethane	50.0	36.5		ug/L		73	28 - 133
1,1-Dichloroethane	50.0	41.7		ug/L		83	54 - 132
1,2-Dichloroethane	50.0	53.1		ug/L		106	51 - 167
1,1-Dichloroethene	50.0	44.2		ug/L		88	43 - 118
1,2-Dichloropropane	50.0	47.7		ug/L		95	60 - 138
Methylene Chloride	50.0	47.5		ug/L		95	52 - 132
1,1,1,2-Tetrachloroethane	50.0	53.2		ug/L		106	60 - 134
1,1,2,2-Tetrachloroethane	50.0	46.2		ug/L		92	63 - 148
Tetrachloroethene	50.0	53.0		ug/L		106	48 - 136
trans-1,2-Dichloroethene	50.0	46.7		ug/L		93	46 - 125
trans-1,3-Dichloropropene	50.0	54.7		ug/L		109	52 - 140
1,1,1-Trichloroethane	50.0	53.5		ug/L		107	58 - 136
1,1,2-Trichloroethane	50.0	50.5		ug/L		101	60 - 140
Trichloroethene	50.0	49.9		ug/L		100	59 - 129
Trichlorofluoromethane	50.0	45.9		ug/L		92	62 - 138

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-326297/4
Matrix: Water
Analysis Batch: 326297

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	50.0	53.7		ug/L		107	51 - 171
Vinyl chloride	50.0	43.6		ug/L		87	66 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*70 - 119*
Dibromofluoromethane	*97*		*83 - 123*
Toluene-d8 (Surr)	*105*		*78 - 126*

Lab Sample ID: LCSD 680-326297/5
Matrix: Water
Analysis Batch: 326297

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromobenzene	50.0	51.5		ug/L		103	58 - 151	3	24
Bromoform	50.0	53.5		ug/L		107	62 - 140	4	25
Bromomethane	50.0	35.9		ug/L		72	22 - 179	5	44
Carbon tetrachloride	50.0	55.9		ug/L		112	53 - 134	6	19
Chlorobenzene	50.0	50.3		ug/L		101	63 - 132	4	20
Chloroethane	50.0	40.2		ug/L		80	53 - 144	9	38
Chloroform	50.0	46.8		ug/L		94	60 - 126	0	30
Chloromethane	50.0	33.4		ug/L		67	62 - 130	18	34
cis-1,2-Dichloroethylene	50.0	47.2		ug/L		94	49 - 127	3	29
cis-1,3-Dichloropropene	50.0	51.1		ug/L		102	49 - 141	1	24
Dibromochloromethane	50.0	54.6		ug/L		109	55 - 134	2	24
Dibromomethane	50.0	50.1		ug/L		100	62 - 141	1	21
1,2-Dichlorobenzene	50.0	52.4		ug/L		105	60 - 154	0	22
1,3-Dichlorobenzene	50.0	52.3		ug/L		105	55 - 147	2	21
1,4-Dichlorobenzene	50.0	51.9		ug/L		104	58 - 151	2	21
Dichlorodifluoromethane	50.0	24.2	*	ug/L		48	28 - 133	40	35
1,1-Dichloroethane	50.0	45.6		ug/L		91	54 - 132	9	30
1,2-Dichloroethane	50.0	52.7		ug/L		105	51 - 167	1	28
1,1-Dichloroethene	50.0	46.3		ug/L		93	43 - 118	5	29
1,2-Dichloropropane	50.0	46.6		ug/L		93	60 - 138	2	20
Methylene Chloride	50.0	44.9		ug/L		90	52 - 132	6	30
1,1,1,2-Tetrachloroethane	50.0	53.3		ug/L		107	60 - 134	0	26
1,1,2,2-Tetrachloroethane	50.0	48.6		ug/L		97	63 - 148	5	22
Tetrachloroethene	50.0	53.4		ug/L		107	48 - 136	1	38
trans-1,2-Dichloroethene	50.0	47.5		ug/L		95	46 - 125	2	32
trans-1,3-Dichloropropene	50.0	50.4		ug/L		101	52 - 140	8	20
1,1,1-Trichloroethane	50.0	54.9		ug/L		110	58 - 136	3	21
1,1,2-Trichloroethane	50.0	48.1		ug/L		96	60 - 140	5	22
Trichloroethene	50.0	51.4		ug/L		103	59 - 129	3	22
Trichlorofluoromethane	50.0	42.9		ug/L		86	62 - 138	7	40
1,2,3-Trichloropropane	50.0	52.7		ug/L		105	51 - 171	2	32
Vinyl chloride	50.0	44.5		ug/L		89	66 - 121	2	31

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-326297/5
Matrix: Water
Analysis Batch: 326297

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	104		70 - 119
Dibromofluoromethane	102		83 - 123
Toluene-d8 (Surr)	102		78 - 126

Lab Sample ID: MB 680-326410/9
Matrix: Water
Analysis Batch: 326410

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/28/14 12:10	1
Bromoform	<1.0		1.0	0.50	ug/L			04/28/14 12:10	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/28/14 12:10	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/28/14 12:10	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/28/14 12:10	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/28/14 12:10	1
Chloroform	<1.0		1.0	0.14	ug/L			04/28/14 12:10	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/28/14 12:10	1
cis-1,2-Dichloroethylene	<1.0		1.0	0.15	ug/L			04/28/14 12:10	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/28/14 12:10	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/28/14 12:10	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/28/14 12:10	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/28/14 12:10	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/28/14 12:10	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/28/14 12:10	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/28/14 12:10	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/28/14 12:10	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/28/14 12:10	1
1,1-Dichloroethene	<1.0		1.0	0.11	ug/L			04/28/14 12:10	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/28/14 12:10	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/28/14 12:10	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/28/14 12:10	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/28/14 12:10	1
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/28/14 12:10	1
trans-1,2-Dichloroethene	<1.0		1.0	0.20	ug/L			04/28/14 12:10	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/28/14 12:10	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/28/14 12:10	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/28/14 12:10	1
Trichloroethene	<1.0		1.0	0.13	ug/L			04/28/14 12:10	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/28/14 12:10	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/28/14 12:10	1
Vinyl chloride	<1.0		1.0	0.18	ug/L			04/28/14 12:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		70 - 119		04/28/14 12:10	1
Dibromofluoromethane	114		83 - 123		04/28/14 12:10	1
Toluene-d8 (Surr)	103		78 - 126		04/28/14 12:10	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-326410/4
Matrix: Water
Analysis Batch: 326410

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	50.0	51.8		ug/L		104	58 - 151
Bromoform	50.0	58.1		ug/L		116	62 - 140
Bromomethane	50.0	42.8		ug/L		86	22 - 179
Carbon tetrachloride	50.0	61.8		ug/L		124	53 - 134
Chlorobenzene	50.0	51.9		ug/L		104	63 - 132
Chloroethane	50.0	46.0		ug/L		92	53 - 144
Chloroform	50.0	48.8		ug/L		98	60 - 126
Chloromethane	50.0	40.6		ug/L		81	62 - 130
cis-1,2-Dichloroethylene	50.0	49.7		ug/L		99	49 - 127
cis-1,3-Dichloropropene	50.0	51.6		ug/L		103	49 - 141
Dibromochloromethane	50.0	58.2		ug/L		116	55 - 134
Dibromomethane	50.0	50.8		ug/L		102	62 - 141
1,2-Dichlorobenzene	50.0	54.5		ug/L		109	60 - 154
1,3-Dichlorobenzene	50.0	57.2		ug/L		114	55 - 147
1,4-Dichlorobenzene	50.0	57.0		ug/L		114	58 - 151
Dichlorodifluoromethane	50.0	38.1		ug/L		76	28 - 133
1,1-Dichloroethane	50.0	44.9		ug/L		90	54 - 132
1,2-Dichloroethane	50.0	52.7		ug/L		105	51 - 167
1,1-Dichloroethene	50.0	48.4		ug/L		97	43 - 118
1,2-Dichloropropane	50.0	47.0		ug/L		94	60 - 138
Methylene Chloride	50.0	48.3		ug/L		97	52 - 132
1,1,1,2-Tetrachloroethane	50.0	55.3		ug/L		111	60 - 134
1,1,2,2-Tetrachloroethane	50.0	45.4		ug/L		91	63 - 148
Tetrachloroethene	50.0	57.6		ug/L		115	48 - 136
trans-1,2-Dichloroethene	50.0	50.3		ug/L		101	46 - 125
trans-1,3-Dichloropropene	50.0	55.0		ug/L		110	52 - 140
1,1,1-Trichloroethane	50.0	55.9		ug/L		112	58 - 136
1,1,2-Trichloroethane	50.0	47.6		ug/L		95	60 - 140
Trichloroethene	50.0	50.6		ug/L		101	59 - 129
Trichlorofluoromethane	50.0	48.1		ug/L		96	62 - 138
1,2,3-Trichloropropane	50.0	53.5		ug/L		107	51 - 171
Vinyl chloride	50.0	45.6		ug/L		91	66 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*70 - 119*
Dibromofluoromethane	*104*		*83 - 123*
Toluene-d8 (Surr)	*105*		*78 - 126*

Lab Sample ID: LCSD 680-326410/5
Matrix: Water
Analysis Batch: 326410

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromobenzene	50.0	51.7		ug/L		103	58 - 151	0	24
Bromoform	50.0	55.5		ug/L		111	62 - 140	5	25
Bromomethane	50.0	36.0		ug/L		72	22 - 179	17	44
Carbon tetrachloride	50.0	53.0		ug/L		106	53 - 134	15	19
Chlorobenzene	50.0	50.4		ug/L		101	63 - 132	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-326410/5 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 326410

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroethane	50.0	39.4		ug/L		79	53 - 144	15	38
Chloroform	50.0	46.0		ug/L		92	60 - 126	6	30
Chloromethane	50.0	32.5		ug/L		65	62 - 130	22	34
cis-1,2-Dichloroethylene	50.0	45.5		ug/L		91	49 - 127	9	29
cis-1,3-Dichloropropene	50.0	50.0		ug/L		100	49 - 141	3	24
Dibromochloromethane	50.0	55.5		ug/L		111	55 - 134	5	24
Dibromomethane	50.0	48.4		ug/L		97	62 - 141	5	21
1,2-Dichlorobenzene	50.0	52.8		ug/L		106	60 - 154	3	22
1,3-Dichlorobenzene	50.0	52.7		ug/L		105	55 - 147	8	21
1,4-Dichlorobenzene	50.0	53.8		ug/L		108	58 - 151	6	21
Dichlorodifluoromethane	50.0	31.1		ug/L		62	28 - 133	20	35
1,1-Dichloroethane	50.0	44.1		ug/L		88	54 - 132	2	30
1,2-Dichloroethane	50.0	52.7		ug/L		105	51 - 167	0	28
1,1-Dichloroethene	50.0	43.9		ug/L		88	43 - 118	10	29
1,2-Dichloropropane	50.0	46.5		ug/L		93	60 - 138	1	20
Methylene Chloride	50.0	43.8		ug/L		88	52 - 132	10	30
1,1,1,2-Tetrachloroethane	50.0	54.6		ug/L		109	60 - 134	1	26
1,1,2,2-Tetrachloroethane	50.0	46.9		ug/L		94	63 - 148	3	22
Tetrachloroethene	50.0	51.3		ug/L		103	48 - 136	12	38
trans-1,2-Dichloroethene	50.0	43.6		ug/L		87	46 - 125	14	32
trans-1,3-Dichloropropene	50.0	49.9		ug/L		100	52 - 140	10	20
1,1,1-Trichloroethane	50.0	52.0		ug/L		104	58 - 136	7	21
1,1,2-Trichloroethane	50.0	46.2		ug/L		92	60 - 140	3	22
Trichloroethene	50.0	50.7		ug/L		101	59 - 129	0	22
Trichlorofluoromethane	50.0	40.6		ug/L		81	62 - 138	17	40
1,2,3-Trichloropropane	50.0	52.4		ug/L		105	51 - 171	2	32
Vinyl chloride	50.0	41.0		ug/L		82	66 - 121	10	31

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*70 - 119*
Dibromofluoromethane	*101*		*83 - 123*
Toluene-d8 (Surr)	*100*		*78 - 126*

Lab Sample ID: MB 680-326587/9 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 326587

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	0.25	ug/L			04/29/14 12:06	1
Bromobenzene	<1.0		1.0	0.16	ug/L			04/29/14 12:06	1
Bromoform	<1.0		1.0	0.50	ug/L			04/29/14 12:06	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/29/14 12:06	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/29/14 12:06	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/29/14 12:06	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/29/14 12:06	1
Chloroform	<1.0		1.0	0.14	ug/L			04/29/14 12:06	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/29/14 12:06	1
cis-1,2-Dichloroethylene	<1.0		1.0	0.15	ug/L			04/29/14 12:06	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-326587/9
Matrix: Water
Analysis Batch: 326587

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/29/14 12:06	1
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/29/14 12:06	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/29/14 12:06	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/29/14 12:06	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/29/14 12:06	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/29/14 12:06	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/29/14 12:06	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/29/14 12:06	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/29/14 12:06	1
1,1-Dichloroethene	<1.0		1.0	0.11	ug/L			04/29/14 12:06	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/29/14 12:06	1
Ethylbenzene	<1.0		1.0	0.11	ug/L			04/29/14 12:06	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/29/14 12:06	1
Methyl tert-butyl ether	<10		10	0.20	ug/L			04/29/14 12:06	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/29/14 12:06	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/29/14 12:06	1
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/29/14 12:06	1
Toluene	<1.0		1.0	0.33	ug/L			04/29/14 12:06	1
trans-1,2-Dichloroethene	<1.0		1.0	0.20	ug/L			04/29/14 12:06	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/29/14 12:06	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/29/14 12:06	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/29/14 12:06	1
Trichloroethene	<1.0		1.0	0.13	ug/L			04/29/14 12:06	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/29/14 12:06	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/29/14 12:06	1
Vinyl chloride	<1.0		1.0	0.18	ug/L			04/29/14 12:06	1
Xylenes, Total	<2.0		2.0	0.20	ug/L			04/29/14 12:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*70 - 119*		*04/29/14 12:06*	*1*
Dibromofluoromethane	*116*		*83 - 123*		*04/29/14 12:06*	*1*
Toluene-d8 (Surr)	*103*		*78 - 126*		*04/29/14 12:06*	*1*

Lab Sample ID: LCS 680-326587/4
Matrix: Water
Analysis Batch: 326587

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	51.0		ug/L		102	74 - 123
Bromobenzene	50.0	54.9		ug/L		110	58 - 151
Bromoform	50.0	57.4		ug/L		115	62 - 140
Bromomethane	50.0	35.7		ug/L		71	22 - 179
Carbon tetrachloride	50.0	58.6		ug/L		117	53 - 134
Chlorobenzene	50.0	51.2		ug/L		102	63 - 132
Chloroethane	50.0	41.6		ug/L		83	53 - 144
Chloroform	50.0	44.6		ug/L		89	60 - 126
Chloromethane	50.0	34.8		ug/L		70	62 - 130
cis-1,2-Dichloroethylene	50.0	46.6		ug/L		93	49 - 127

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-326587/4
Matrix: Water
Analysis Batch: 326587

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	50.0	52.3		ug/L		105	49 - 141
Dibromochloromethane	50.0	55.8		ug/L		112	55 - 134
Dibromomethane	50.0	51.1		ug/L		102	62 - 141
1,2-Dichlorobenzene	50.0	55.2		ug/L		110	60 - 154
1,3-Dichlorobenzene	50.0	57.3		ug/L		115	55 - 147
1,4-Dichlorobenzene	50.0	55.8		ug/L		112	58 - 151
Dichlorodifluoromethane	50.0	34.2		ug/L		68	28 - 133
1,1-Dichloroethane	50.0	46.6		ug/L		93	54 - 132
1,2-Dichloroethane	50.0	56.5		ug/L		113	51 - 167
1,1-Dichloroethene	50.0	46.6		ug/L		93	43 - 118
1,2-Dichloropropane	50.0	47.6		ug/L		95	60 - 138
Ethylbenzene	50.0	51.5		ug/L		103	78 - 125
Methylene Chloride	50.0	47.1		ug/L		94	52 - 132
Methyl tert-butyl ether	100	96.6		ug/L		97	76 - 126
1,1,1,2-Tetrachloroethane	50.0	55.1		ug/L		110	60 - 134
1,1,2,2-Tetrachloroethane	50.0	48.6		ug/L		97	63 - 148
Tetrachloroethene	50.0	52.1		ug/L		104	48 - 136
Toluene	50.0	50.2		ug/L		100	77 - 125
trans-1,2-Dichloroethene	50.0	47.5		ug/L		95	46 - 125
trans-1,3-Dichloropropene	50.0	54.2		ug/L		108	52 - 140
1,1,1-Trichloroethane	50.0	55.6		ug/L		111	58 - 136
1,1,2-Trichloroethane	50.0	50.4		ug/L		101	60 - 140
Trichloroethene	50.0	55.7		ug/L		111	59 - 129
Trichlorofluoromethane	50.0	42.6		ug/L		85	62 - 138
1,2,3-Trichloropropane	50.0	54.1		ug/L		108	51 - 171
Vinyl chloride	50.0	46.2		ug/L		92	66 - 121
Xylenes, Total	150	160		ug/L		107	80 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*107*		*70 - 119*
Dibromofluoromethane	*106*		*83 - 123*
Toluene-d8 (Surr)	*106*		*78 - 126*

Lab Sample ID: LCSD 680-326587/5
Matrix: Water
Analysis Batch: 326587

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	47.9		ug/L		96	74 - 123	6	30
Bromobenzene	50.0	50.2		ug/L		100	58 - 151	9	24
Bromoform	50.0	56.2		ug/L		112	62 - 140	2	25
Bromomethane	50.0	37.4		ug/L		75	22 - 179	5	44
Carbon tetrachloride	50.0	59.4		ug/L		119	53 - 134	1	19
Chlorobenzene	50.0	48.6		ug/L		97	63 - 132	5	20
Chloroethane	50.0	41.1		ug/L		82	53 - 144	1	38
Chloroform	50.0	45.4		ug/L		91	60 - 126	2	30
Chloromethane	50.0	32.9		ug/L		66	62 - 130	6	34
cis-1,2-Dichloroethylene	50.0	45.7		ug/L		91	49 - 127	2	29

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-326587/5 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 326587

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	50.0	51.3		ug/L		103	49 - 141	2	24
Dibromochloromethane	50.0	54.4		ug/L		109	55 - 134	3	24
Dibromomethane	50.0	51.7		ug/L		103	62 - 141	1	21
1,2-Dichlorobenzene	50.0	54.4		ug/L		109	60 - 154	2	22
1,3-Dichlorobenzene	50.0	54.2		ug/L		108	55 - 147	6	21
1,4-Dichlorobenzene	50.0	52.9		ug/L		106	58 - 151	5	21
Dichlorodifluoromethane	50.0	35.2		ug/L		70	28 - 133	3	35
1,1-Dichloroethane	50.0	44.9		ug/L		90	54 - 132	4	30
1,2-Dichloroethane	50.0	52.8		ug/L		106	51 - 167	7	28
1,1-Dichloroethene	50.0	46.1		ug/L		92	43 - 118	1	29
1,2-Dichloropropane	50.0	45.5		ug/L		91	60 - 138	4	20
Ethylbenzene	50.0	49.8		ug/L		100	78 - 125	4	30
Methylene Chloride	50.0	42.7		ug/L		85	52 - 132	10	30
Methyl tert-butyl ether	100	94.2		ug/L		94	76 - 126	2	30
1,1,1,2-Tetrachloroethane	50.0	52.5		ug/L		105	60 - 134	5	26
1,1,2,2-Tetrachloroethane	50.0	48.0		ug/L		96	63 - 148	1	22
Tetrachloroethene	50.0	53.4		ug/L		107	48 - 136	2	38
Toluene	50.0	48.2		ug/L		96	77 - 125	4	30
trans-1,2-Dichloroethene	50.0	47.6		ug/L		95	46 - 125	0	32
trans-1,3-Dichloropropene	50.0	50.7		ug/L		101	52 - 140	7	20
1,1,1-Trichloroethane	50.0	54.5		ug/L		109	58 - 136	2	21
1,1,2-Trichloroethane	50.0	48.8		ug/L		98	60 - 140	3	22
Trichloroethene	50.0	52.1		ug/L		104	59 - 129	7	22
Trichlorofluoromethane	50.0	43.0		ug/L		86	62 - 138	1	40
1,2,3-Trichloropropane	50.0	52.0		ug/L		104	51 - 171	4	32
Vinyl chloride	50.0	45.3		ug/L		91	66 - 121	2	31
Xylenes, Total	150	153		ug/L		102	80 - 124	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*70 - 119*
Dibromofluoromethane	*101*		*83 - 123*
Toluene-d8 (Surr)	*104*		*78 - 126*

Lab Sample ID: 640-47571-10 MS — **Client Sample ID: GZ-601L MS**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 326587

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<1.0		50.0	45.4		ug/L		91	65 - 130
Bromobenzene	<1.0		50.0	48.4		ug/L		97	70 - 139
Bromoform	<1.0		50.0	53.4		ug/L		107	49 - 150
Bromomethane	<5.0		50.0	36.3		ug/L		73	23 - 140
Carbon tetrachloride	<1.0		50.0	60.0		ug/L		120	50 - 162
Chlorobenzene	<1.0		50.0	48.7		ug/L		97	70 - 125
Chloroethane	<5.0		50.0	42.2		ug/L		84	43 - 165
Chloroform	<1.0		50.0	47.3		ug/L		95	70 - 124
Chloromethane	<1.0		50.0	34.7		ug/L		69	56 - 137
cis-1,2-Dichloroethylene	<1.0		50.0	46.4		ug/L		93	70 - 122

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 640-47571-10 MS — **Client Sample ID: GZ-601L MS**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 326587

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	<1.0		50.0	45.8		ug/L		92	46 - 131
Dibromochloromethane	<1.0		50.0	53.2		ug/L		106	58 - 131
Dibromomethane	<1.0		50.0	46.8		ug/L		94	63 - 131
1,2-Dichlorobenzene	<1.0		50.0	49.3		ug/L		99	70 - 142
1,3-Dichlorobenzene	<1.0		50.0	50.2		ug/L		100	70 - 137
1,4-Dichlorobenzene	<1.0		50.0	49.9		ug/L		100	70 - 137
Dichlorodifluoromethane	<1.0		50.0	19.3		ug/L		39	37 - 139
1,1-Dichloroethane	<1.0		50.0	46.8		ug/L		94	70 - 126
1,2-Dichloroethane	<1.0		50.0	50.0		ug/L		100	65 - 150
1,1-Dichloroethene	<1.0		50.0	49.9		ug/L		100	60 - 127
1,2-Dichloropropane	<1.0		50.0	41.9		ug/L		84	66 - 135
Ethylbenzene	<1.0		50.0	49.9		ug/L		100	63 - 124
Methylene Chloride	<5.0		50.0	44.2		ug/L		88	61 - 134
Methyl tert-butyl ether	0.38	J	100	91.8		ug/L		91	51 - 132
1,1,1,2-Tetrachloroethane	<1.0		50.0	53.0		ug/L		106	59 - 140
1,1,2,2-Tetrachloroethane	<1.0		50.0	44.4		ug/L		89	41 - 149
Tetrachloroethene	<1.0		50.0	54.2		ug/L		108	62 - 128
Toluene	<1.0		50.0	45.4		ug/L		91	68 - 122
trans-1,2-Dichloroethene	<1.0		50.0	47.9		ug/L		96	64 - 127
trans-1,3-Dichloropropene	<1.0		50.0	45.7		ug/L		91	40 - 137
1,1,1-Trichloroethane	<1.0		50.0	54.9		ug/L		110	61 - 152
1,1,2-Trichloroethane	<1.0		50.0	43.2		ug/L		86	60 - 132
Trichloroethene	<1.0		50.0	49.1		ug/L		98	70 - 131
Trichlorofluoromethane	<1.0		50.0	50.9		ug/L		102	60 - 157
1,2,3-Trichloropropane	<1.0		50.0	50.1		ug/L		100	35 - 164
Vinyl chloride	<1.0		50.0	46.3		ug/L		93	63 - 126
Xylenes, Total	<2.0		150	154		ug/L		103	67 - 119

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*70 - 119*
Dibromofluoromethane	*104*		*83 - 123*
Toluene-d8 (Surr)	*98*		*78 - 126*

Lab Sample ID: 640-47571-10 MSD — **Client Sample ID: GZ-601L MSD**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 326587

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<1.0		50.0	46.7		ug/L		93	65 - 130	3	19
Bromobenzene	<1.0		50.0	49.4		ug/L		99	70 - 139	2	19
Bromoform	<1.0		50.0	54.7		ug/L		109	49 - 150	2	20
Bromomethane	<5.0		50.0	37.2		ug/L		74	23 - 140	2	41
Carbon tetrachloride	<1.0		50.0	63.3		ug/L		127	50 - 162	5	28
Chlorobenzene	<1.0		50.0	50.0		ug/L		100	70 - 125	3	23
Chloroethane	<5.0		50.0	44.7		ug/L		89	43 - 165	6	45
Chloroform	<1.0		50.0	46.3		ug/L		93	70 - 124	2	21
Chloromethane	<1.0		50.0	39.6		ug/L		79	56 - 137	13	16
cis-1,2-Dichloroethylene	<1.0		50.0	44.4		ug/L		89	70 - 122	5	22

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 640-47571-10 MSD — **Client Sample ID: GZ-601L MSD**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 326587

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	<1.0		50.0	45.7		ug/L		91	46 - 131	0	25
Dibromochloromethane	<1.0		50.0	55.7		ug/L		111	58 - 131	5	18
Dibromomethane	<1.0		50.0	47.7		ug/L		95	63 - 131	2	21
1,2-Dichlorobenzene	<1.0		50.0	52.9		ug/L		106	70 - 142	7	24
1,3-Dichlorobenzene	<1.0		50.0	53.8		ug/L		108	70 - 137	7	24
1,4-Dichlorobenzene	<1.0		50.0	53.0		ug/L		106	70 - 137	6	25
Dichlorodifluoromethane	<1.0		50.0	42.4	F2	ug/L		85	37 - 139	75	31
1,1-Dichloroethane	<1.0		50.0	41.8		ug/L		84	70 - 126	11	29
1,2-Dichloroethane	<1.0		50.0	48.7		ug/L		97	65 - 150	3	19
1,1-Dichloroethene	<1.0		50.0	49.4		ug/L		99	60 - 127	1	33
1,2-Dichloropropane	<1.0		50.0	43.5		ug/L		87	66 - 135	4	22
Ethylbenzene	<1.0		50.0	51.1		ug/L		102	63 - 124	3	25
Methylene Chloride	<5.0		50.0	44.9		ug/L		90	61 - 134	2	21
Methyl tert-butyl ether	0.38	J	100	86.5		ug/L		86	51 - 132	6	22
1,1,1,2-Tetrachloroethane	<1.0		50.0	51.6		ug/L		103	59 - 140	3	22
1,1,2,2-Tetrachloroethane	<1.0		50.0	43.4		ug/L		87	41 - 149	2	23
Tetrachloroethene	<1.0		50.0	55.8		ug/L		112	62 - 128	3	26
Toluene	<1.0		50.0	45.7		ug/L		91	68 - 122	1	24
trans-1,2-Dichloroethene	<1.0		50.0	46.1		ug/L		92	64 - 127	4	21
trans-1,3-Dichloropropene	<1.0		50.0	49.2		ug/L		98	40 - 137	7	25
1,1,1-Trichloroethane	<1.0		50.0	56.9		ug/L		114	61 - 152	4	21
1,1,2-Trichloroethane	<1.0		50.0	45.0		ug/L		90	60 - 132	4	22
Trichloroethene	<1.0		50.0	49.4		ug/L		99	70 - 131	1	28
Trichlorofluoromethane	<1.0		50.0	51.3		ug/L		103	60 - 157	1	20
1,2,3-Trichloropropane	<1.0		50.0	49.5		ug/L		99	35 - 164	1	24
Vinyl chloride	<1.0		50.0	44.1		ug/L		88	63 - 126	5	23
Xylenes, Total	<2.0		150	156		ug/L		104	67 - 119	1	26

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*70 - 119*
Dibromofluoromethane	*99*		*83 - 123*
Toluene-d8 (Surr)	*98*		*78 - 126*

Lab Sample ID: MB 680-326794/8 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 326794

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.0		1.0	0.16	ug/L			04/30/14 12:12	1
Bromoform	<1.0		1.0	0.50	ug/L			04/30/14 12:12	1
Bromomethane	<5.0		5.0	2.0	ug/L			04/30/14 12:12	1
Carbon tetrachloride	<1.0		1.0	0.50	ug/L			04/30/14 12:12	1
Chlorobenzene	<1.0		1.0	0.25	ug/L			04/30/14 12:12	1
Chloroethane	<5.0		5.0	2.0	ug/L			04/30/14 12:12	1
Chloroform	<1.0		1.0	0.14	ug/L			04/30/14 12:12	1
Chloromethane	<1.0		1.0	0.33	ug/L			04/30/14 12:12	1
cis-1,2-Dichloroethylene	<1.0		1.0	0.15	ug/L			04/30/14 12:12	1
cis-1,3-Dichloropropene	<1.0		1.0	0.11	ug/L			04/30/14 12:12	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-326794/8 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 326794

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	<1.0		1.0	0.10	ug/L			04/30/14 12:12	1
Dibromomethane	<1.0		1.0	0.20	ug/L			04/30/14 12:12	1
1,2-Dichlorobenzene	<1.0		1.0	0.21	ug/L			04/30/14 12:12	1
1,3-Dichlorobenzene	<1.0		1.0	0.25	ug/L			04/30/14 12:12	1
1,4-Dichlorobenzene	<1.0		1.0	0.28	ug/L			04/30/14 12:12	1
Dichlorodifluoromethane	<1.0		1.0	0.25	ug/L			04/30/14 12:12	1
1,1-Dichloroethane	<1.0		1.0	0.25	ug/L			04/30/14 12:12	1
1,2-Dichloroethane	<1.0		1.0	0.10	ug/L			04/30/14 12:12	1
1,1-Dichloroethene	<1.0		1.0	0.11	ug/L			04/30/14 12:12	1
1,2-Dichloropropane	<1.0		1.0	0.13	ug/L			04/30/14 12:12	1
Methylene Chloride	<5.0		5.0	1.0	ug/L			04/30/14 12:12	1
1,1,1,2-Tetrachloroethane	<1.0		1.0	0.33	ug/L			04/30/14 12:12	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.18	ug/L			04/30/14 12:12	1
Tetrachloroethene	<1.0		1.0	0.15	ug/L			04/30/14 12:12	1
trans-1,2-Dichloroethene	<1.0		1.0	0.20	ug/L			04/30/14 12:12	1
trans-1,3-Dichloropropene	<1.0		1.0	0.21	ug/L			04/30/14 12:12	1
1,1,1-Trichloroethane	<1.0		1.0	0.50	ug/L			04/30/14 12:12	1
1,1,2-Trichloroethane	<1.0		1.0	0.13	ug/L			04/30/14 12:12	1
Trichloroethene	<1.0		1.0	0.13	ug/L			04/30/14 12:12	1
Trichlorofluoromethane	<1.0		1.0	0.25	ug/L			04/30/14 12:12	1
1,2,3-Trichloropropane	<1.0		1.0	0.41	ug/L			04/30/14 12:12	1
Vinyl chloride	<1.0		1.0	0.18	ug/L			04/30/14 12:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*70 - 119*		*04/30/14 12:12*	*1*
Dibromofluoromethane	*126*	*X*	*83 - 123*		*04/30/14 12:12*	*1*
Toluene-d8 (Surr)	*96*		*78 - 126*		*04/30/14 12:12*	*1*

Lab Sample ID: LCS 680-326794/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 326794

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	50.0	57.4		ug/L		115	58 - 151
Bromoform	50.0	60.2		ug/L		120	62 - 140
Bromomethane	50.0	44.2		ug/L		88	22 - 179
Carbon tetrachloride	50.0	52.8		ug/L		106	53 - 134
Chlorobenzene	50.0	54.8		ug/L		110	63 - 132
Chloroethane	50.0	56.8		ug/L		114	53 - 144
Chloroform	50.0	54.2		ug/L		108	60 - 126
Chloromethane	50.0	47.9		ug/L		96	62 - 130
cis-1,2-Dichloroethylene	50.0	55.2		ug/L		110	49 - 127
cis-1,3-Dichloropropene	50.0	49.1		ug/L		98	49 - 141
Dibromochloromethane	50.0	59.4		ug/L		119	55 - 134
Dibromomethane	50.0	47.3		ug/L		95	62 - 141
1,2-Dichlorobenzene	50.0	57.5		ug/L		115	60 - 154
1,3-Dichlorobenzene	50.0	58.0		ug/L		116	55 - 147
1,4-Dichlorobenzene	50.0	58.1		ug/L		116	58 - 151

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-326794/4
Matrix: Water
Analysis Batch: 326794

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	50.0	48.5		ug/L		97	28 - 133
1,1-Dichloroethane	50.0	48.9		ug/L		98	54 - 132
1,2-Dichloroethane	50.0	43.7		ug/L		87	51 - 167
1,1-Dichloroethene	50.0	52.8		ug/L		106	43 - 118
1,2-Dichloropropane	50.0	46.1		ug/L		92	60 - 138
Methylene Chloride	50.0	53.5		ug/L		107	52 - 132
1,1,1,2-Tetrachloroethane	50.0	56.5		ug/L		113	60 - 134
1,1,2,2-Tetrachloroethane	50.0	46.8		ug/L		94	63 - 148
Tetrachloroethene	50.0	55.8		ug/L		112	48 - 136
trans-1,2-Dichloroethene	50.0	55.0		ug/L		110	46 - 125
trans-1,3-Dichloropropene	50.0	52.3		ug/L		105	52 - 140
1,1,1-Trichloroethane	50.0	50.6		ug/L		101	58 - 136
1,1,2-Trichloroethane	50.0	48.0		ug/L		96	60 - 140
Trichloroethene	50.0	50.0		ug/L		100	59 - 129
Trichlorofluoromethane	50.0	50.5		ug/L		101	62 - 138
1,2,3-Trichloropropane	50.0	50.1		ug/L		100	51 - 171
Vinyl chloride	50.0	49.7		ug/L		99	66 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*109*		*70 - 119*
Dibromofluoromethane	*112*		*83 - 123*
Toluene-d8 (Surr)	*102*		*78 - 126*

Lab Sample ID: LCSD 680-326794/5
Matrix: Water
Analysis Batch: 326794

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromobenzene	50.0	56.5		ug/L		113	58 - 151	2	24
Bromoform	50.0	59.7		ug/L		119	62 - 140	1	25
Bromomethane	50.0	49.2		ug/L		98	22 - 179	11	44
Carbon tetrachloride	50.0	53.6		ug/L		107	53 - 134	2	19
Chlorobenzene	50.0	54.6		ug/L		109	63 - 132	0	20
Chloroethane	50.0	57.6		ug/L		115	53 - 144	1	38
Chloroform	50.0	54.9		ug/L		110	60 - 126	1	30
Chloromethane	50.0	49.0		ug/L		98	62 - 130	2	34
cis-1,2-Dichloroethylene	50.0	57.2		ug/L		114	49 - 127	4	29
cis-1,3-Dichloropropene	50.0	49.5		ug/L		99	49 - 141	1	24
Dibromochloromethane	50.0	57.9		ug/L		116	55 - 134	3	24
Dibromomethane	50.0	46.9		ug/L		94	62 - 141	1	21
1,2-Dichlorobenzene	50.0	57.4		ug/L		115	60 - 154	0	22
1,3-Dichlorobenzene	50.0	57.7		ug/L		115	55 - 147	0	21
1,4-Dichlorobenzene	50.0	57.3		ug/L		115	58 - 151	1	21
Dichlorodifluoromethane	50.0	52.2		ug/L		104	28 - 133	7	35
1,1-Dichloroethane	50.0	49.7		ug/L		99	54 - 132	2	30
1,2-Dichloroethane	50.0	43.7		ug/L		87	51 - 167	0	28
1,1-Dichloroethene	50.0	56.4		ug/L		113	43 - 118	7	29
1,2-Dichloropropane	50.0	47.2		ug/L		94	60 - 138	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-326794/5 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 326794

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride	50.0	56.2		ug/L		112	52 - 132	5	30
1,1,1,2-Tetrachloroethane	50.0	56.2		ug/L		112	60 - 134	0	26
1,1,2,2-Tetrachloroethane	50.0	46.9		ug/L		94	63 - 148	0	22
Tetrachloroethene	50.0	56.9		ug/L		114	48 - 136	2	38
trans-1,2-Dichloroethene	50.0	56.7		ug/L		113	46 - 125	3	32
trans-1,3-Dichloropropene	50.0	52.4		ug/L		105	52 - 140	0	20
1,1,1-Trichloroethane	50.0	51.3		ug/L		103	58 - 136	1	21
1,1,2-Trichloroethane	50.0	48.5		ug/L		97	60 - 140	1	22
Trichloroethene	50.0	51.0		ug/L		102	59 - 129	2	22
Trichlorofluoromethane	50.0	52.8		ug/L		106	62 - 138	4	40
1,2,3-Trichloropropane	50.0	50.7		ug/L		101	51 - 171	1	32
Vinyl chloride	50.0	52.0		ug/L		104	66 - 121	4	31

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*106*		*70 - 119*
Dibromofluoromethane	*114*		*83 - 123*
Toluene-d8 (Surr)	*103*		*78 - 126*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 680-325717/6 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 325717

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	<1.1		1.1	0.55	ug/L			04/23/14 10:10	1
Ethylene	<1.0		1.0	0.50	ug/L			04/23/14 10:10	1
Methane	<0.58		0.58	0.29	ug/L			04/23/14 10:10	1

Lab Sample ID: LCS 680-325717/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 325717

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	288	269		ug/L		93	75 - 125
Ethylene	269	242		ug/L		90	75 - 125
Methane	154	139		ug/L		90	75 - 125

Lab Sample ID: LCSD 680-325717/30 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 325717

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	288	244		ug/L		85	75 - 125	10	30
Ethylene	269	226		ug/L		84	75 - 125	7	30
Methane	154	127		ug/L		82	75 - 125	9	30

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: MB 680-325771/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 325771

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	<1.1		1.1	0.55	ug/L			04/23/14 16:32	1
Ethylene	<1.0		1.0	0.50	ug/L			04/23/14 16:32	1
Methane	<0.58		0.58	0.29	ug/L			04/23/14 16:32	1

Lab Sample ID: LCS 680-325771/3 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 325771

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	288	291		ug/L		101	75 - 125
Ethylene	269	270		ug/L		100	75 - 125
Methane	154	149		ug/L		97	75 - 125

Lab Sample ID: LCSD 680-325771/29 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 325771

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	288	270		ug/L		94	75 - 125	8	30
Ethylene	269	254		ug/L		94	75 - 125	6	30
Methane	154	144		ug/L		94	75 - 125	3	30

Lab Sample ID: MB 680-326613/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 326613

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	<1.1		1.1	0.55	ug/L			04/29/14 12:14	1
Ethylene	<1.0		1.0	0.50	ug/L			04/29/14 12:14	1
Methane	<0.58		0.58	0.29	ug/L			04/29/14 12:14	1

Lab Sample ID: LCS 680-326613/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 326613

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	288	312		ug/L		108	75 - 125
Ethylene	269	299		ug/L		111	75 - 125
Methane	154	164		ug/L		107	75 - 125

Lab Sample ID: LCSD 680-326613/6 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 326613

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	288	289		ug/L		100	75 - 125	8	30
Ethylene	269	269		ug/L		100	75 - 125	11	30
Methane	154	151		ug/L		98	75 - 125	8	30

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 680-326637/19 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 326637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.50		0.50	0.25	mg/L			04/29/14 14:02	1
Sulfate	<0.50		0.50	0.25	mg/L			04/29/14 14:02	1

Lab Sample ID: LCS 680-326637/20 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 326637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	10.0		mg/L		100	90 - 110
Sulfate	10.0	10.2		mg/L		102	90 - 110

Lab Sample ID: LCSD 680-326637/21 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 326637

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.0	9.99		mg/L		100	90 - 110	0	30
Sulfate	10.0	10.2		mg/L		102	90 - 110	0	30

Lab Sample ID: 640-47518-15 MS — **Client Sample ID: OW-404R**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 326637

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	9.2		10.0	19.5		mg/L		103	80 - 120
Sulfate	25		10.0	34.9		mg/L		102	80 - 120

Lab Sample ID: 640-47518-15 MSD — **Client Sample ID: OW-404R**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 326637

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	9.2		10.0	19.5		mg/L		103	80 - 120	0	30
Sulfate	25		10.0	34.8		mg/L		102	80 - 120	0	30

Lab Sample ID: MB 680-326905/5 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 326905

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.50		0.50	0.25	mg/L			04/30/14 12:33	1
Sulfate	<0.50		0.50	0.25	mg/L			04/30/14 12:33	1

Lab Sample ID: LCS 680-326905/6 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 326905

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.98		mg/L		100	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 680-326905/6 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 326905

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	10.0	10.4		mg/L		104	90 - 110

Lab Sample ID: LCSD 680-326905/7 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 326905

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.0	10.0		mg/L		100	90 - 110	0	30
Sulfate	10.0	10.4		mg/L		104	90 - 110	0	30

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 680-324776/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 325036 — **Prep Batch: 324776**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Iron	<50		50	24	ug/L		04/17/14 08:35	04/17/14 15:01	1

Lab Sample ID: LCS 680-324776/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 325036 — **Prep Batch: 324776**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Iron	5000	5090		ug/L		102	75 - 125

Lab Sample ID: MB 680-324782/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 325036 — **Prep Batch: 324782**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Iron	<50		50	24	ug/L		04/17/14 08:42	04/17/14 20:24	1

Lab Sample ID: LCS 680-324782/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 325036 — **Prep Batch: 324782**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Iron	5000	5070		ug/L		101	75 - 125

Lab Sample ID: MB 680-325592/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 326160 — **Prep Batch: 325592**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Iron	<50		50	24	ug/L		04/22/14 13:23	04/25/14 07:29	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 680-325592/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 326160 — **Prep Batch: 325592**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Iron	5000	5000		ug/L		100	75 - 125

Lab Sample ID: MB 680-325775/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 326160 — **Prep Batch: 325775**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Iron	<50		50	24	ug/L		04/23/14 11:07	04/24/14 15:00	1

Lab Sample ID: LCS 680-325775/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 326160 — **Prep Batch: 325775**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Iron	5000	4970		ug/L		99	75 - 125

Lab Sample ID: 640-47518-7 MS — **Client Sample ID: GZ-503L**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 325036 — **Prep Batch: 324782**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Iron	79		5000	5130		ug/L		101	75 - 125

Lab Sample ID: 640-47518-7 MSD — **Client Sample ID: GZ-503L**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 325036 — **Prep Batch: 324782**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dissolved Iron	79		5000	5110		ug/L		101	75 - 125	0	20

Lab Sample ID: 640-47539-15 MS — **Client Sample ID: OW-101L**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 326160 — **Prep Batch: 325775**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Iron	1200		5000	6140		ug/L		98	75 - 125

Lab Sample ID: 640-47539-15 MSD — **Client Sample ID: OW-101L**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 326160 — **Prep Batch: 325775**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dissolved Iron	1200		5000	6170		ug/L		99	75 - 125	0	20

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 680-324750/13 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 324750

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.050		0.050	0.010	mg/L			04/16/14 17:56	1
Nitrate Nitrite as N	<0.050		0.050	0.010	mg/L			04/16/14 17:56	1

Lab Sample ID: LCS 680-324750/14 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 324750

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	1.05		mg/L		105	90 - 110
Nitrite as N	0.500	0.513		mg/L		103	90 - 110

Lab Sample ID: 640-47518-2 DU — **Client Sample ID: GZ-505R**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 324750

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	0.81		0.661		mg/L		20	10
Nitrate Nitrite as N	0.84		0.700		mg/L		18	10

Lab Sample ID: MB 680-324974/13 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 324974

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.050		0.050	0.010	mg/L			04/17/14 18:32	1
Nitrate Nitrite as N	<0.050		0.050	0.010	mg/L			04/17/14 18:32	1

Lab Sample ID: LCS 680-324974/14 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 324974

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	1.05		mg/L		105	90 - 110
Nitrite as N	0.500	0.471		mg/L		94	90 - 110

Lab Sample ID: MB 680-325181/13 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 325181

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.050		0.050	0.010	mg/L			04/18/14 16:31	1
Nitrate Nitrite as N	<0.050		0.050	0.010	mg/L			04/18/14 16:31	1

Lab Sample ID: LCS 680-325181/14 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 325181

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	1.05		mg/L		105	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: LCS 680-325181/14 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 325181

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrite as N			0.500	0.506		mg/L		101	90 - 110		

Lab Sample ID: 640-47571-11 MS — **Client Sample ID: GZ-601R**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 325181

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate Nitrite as N	<0.050		1.00	1.09		mg/L		110	90 - 110		
Nitrite as N	<0.050		0.500	0.520		mg/L		104	90 - 110		

Lab Sample ID: 640-47571-11 MSD — **Client Sample ID: GZ-601R**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 325181

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	<0.050		1.00	1.07		mg/L		107	90 - 110	2	10
Nitrite as N	<0.050		0.500	0.514		mg/L		103	90 - 110	1	10

Lab Sample ID: MB 680-326169/13 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 326169

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.050		0.050	0.010	mg/L			04/24/14 16:02	1
Nitrate Nitrite as N	<0.050		0.050	0.010	mg/L			04/24/14 16:02	1

Lab Sample ID: LCS 680-326169/14 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 326169

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate Nitrite as N			1.00	1.02		mg/L		102	90 - 110		
Nitrite as N			0.500	0.513		mg/L		103	90 - 110		

Method: 5310 B-2011 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 680-327091/2 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 327091

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<1.0		1.0	0.50	mg/L			04/30/14 16:47	1

Lab Sample ID: LCS 680-327091/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 327091

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			20.0	19.2		mg/L		96	80 - 120		

Method: 5310 B-2011 - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 640-47518-1 MS — **Client Sample ID: GZ-505L**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 327091

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	3.1		20.0	21.5		mg/L		92	80 - 120

Lab Sample ID: 640-47518-1 MSD — **Client Sample ID: GZ-505L**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 327091

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	3.1		20.0	22.7		mg/L		98	80 - 120	5	25

Lab Sample ID: 640-47518-6 DU — **Client Sample ID: OW-305I**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 327091

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	1.1		1.06		mg/L		1	25

Lab Sample ID: MB 680-327092/26 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 327092

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<1.0		1.0	0.50	mg/L			04/30/14 23:19	1

Lab Sample ID: LCS 680-327092/33 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 327092

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	20.0	19.8		mg/L		99	80 - 120

Lab Sample ID: 640-47539-11 MS — **Client Sample ID: OW-402U**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 327092

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	1.1		20.0	20.6		mg/L		97	80 - 120

Lab Sample ID: 640-47539-11 MSD — **Client Sample ID: OW-402U**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 327092

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	1.1		20.0	20.2		mg/L		96	80 - 120	2	25

Lab Sample ID: 640-47539-7 DU — **Client Sample ID: OW-301**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 327092

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	0.85	J	0.797	J	mg/L		7	25

GC/MS VOA

Analysis Batch: 326217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47518-1	GZ-505L	Total/NA	Water	8260B	
640-47518-3	GZ-503U	Total/NA	Water	8260B	
640-47518-4	GZ-502L	Total/NA	Water	8260B	
640-47518-7	GZ-503L	Total/NA	Water	8260B	
640-47518-8	GZ-501L	Total/NA	Water	8260B	
640-47518-9	Trip Blank	Total/NA	Water	8260B	
640-47518-10	GZ-515U	Total/NA	Water	8260B	
640-47518-10 MS	GZ-515U MS	Total/NA	Water	8260B	
640-47518-10 MSD	GZ-515U MSD	Total/NA	Water	8260B	
640-47518-11	WB-4L	Total/NA	Water	8260B	
640-47518-12	WB-3L	Total/NA	Water	8260B	
640-47518-13	WB-2L	Total/NA	Water	8260B	
640-47518-14	WB-2L DUP	Total/NA	Water	8260B	
640-47518-15	OW-404R	Total/NA	Water	8260B	
640-47518-16	WB-1L	Total/NA	Water	8260B	
640-47518-18	GZ-504R	Total/NA	Water	8260B	
640-47518-19	Trip Blank 2	Total/NA	Water	8260B	
640-47518-20	GZ-504L	Total/NA	Water	8260B	
LCS 680-326217/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-326217/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-326217/9	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 326297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47518-2	GZ-505R	Total/NA	Water	8260B	
640-47518-5	OW-305U	Total/NA	Water	8260B	
640-47518-6	OW-305I	Total/NA	Water	8260B	
640-47518-17	Field Blank	Total/NA	Water	8260B	
LCS 680-326297/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-326297/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-326297/8	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 326410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47539-1	GZ-506U	Total/NA	Water	8260B	
640-47539-2	OW-102	Total/NA	Water	8260B	
640-47539-3	OW-102 DUP	Total/NA	Water	8260B	
640-47539-4	OW-403L	Total/NA	Water	8260B	
640-47539-6	DEC-204O	Total/NA	Water	8260B	
640-47539-7	OW-301	Total/NA	Water	8260B	
640-47539-8	OW-408	Total/NA	Water	8260B	
640-47539-9	Trip Blank 4	Total/NA	Water	8260B	
640-47539-10	Field Blank	Total/NA	Water	8260B	
640-47539-11	OW-402U	Total/NA	Water	8260B	
640-47539-12	OW-402L	Total/NA	Water	8260B	
640-47539-13	OW-402R	Total/NA	Water	8260B	
640-47539-14	GZ-519U	Total/NA	Water	8260B	
640-47539-15	OW-101L	Total/NA	Water	8260B	
640-47539-17	OW-307	Total/NA	Water	8260B	
640-47539-18	Trip Blank 3	Total/NA	Water	8260B	
LCS 680-326410/4	Lab Control Sample	Total/NA	Water	8260B	

GC/MS VOA (Continued)

Analysis Batch: 326410 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 680-326410/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-326410/9	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 326587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47539-16	OW-101	Total/NA	Water	8260B	
640-47571-1	OW-304U	Total/NA	Water	8260B	
640-47571-2	GZ-702U	Total/NA	Water	8260B	
640-47571-3	GZ-701L	Total/NA	Water	8260B	
640-47571-4	GZ-701R	Total/NA	Water	8260B	
640-47571-5	Trip Blank 5	Total/NA	Water	8260B	
640-47571-9	GZ-506R	Total/NA	Water	8260B	
640-47571-10	GZ-601L	Total/NA	Water	8260B	
640-47571-10 MS	GZ-601L MS	Total/NA	Water	8260B	
640-47571-10 MSD	GZ-601L MSD	Total/NA	Water	8260B	
640-47571-11	GZ-601R	Total/NA	Water	8260B	
640-47571-13	Field Blank	Total/NA	Water	8260B	
640-47571-16	Equipment Blank	Total/NA	Water	8260B	
LCS 680-326587/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-326587/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-326587/9	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 326794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47571-6	OW-304L	Total/NA	Water	8260B	
640-47571-7	OW-304L DUP	Total/NA	Water	8260B	
640-47571-8	GZ-703R	Total/NA	Water	8260B	
640-47571-14	OW-304R	Total/NA	Water	8260B	
LCS 680-326794/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-326794/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-326794/8	Method Blank	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 325717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47571-6	OW-304L	Total/NA	Water	RSK-175	
640-47571-9	GZ-506R	Total/NA	Water	RSK-175	
640-47571-11	GZ-601R	Total/NA	Water	RSK-175	
LCS 680-325717/5	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 680-325717/30	Lab Control Sample Dup	Total/NA	Water	RSK-175	
MB 680-325717/6	Method Blank	Total/NA	Water	RSK-175	

Analysis Batch: 325771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47539-4	OW-403L	Total/NA	Water	RSK-175	
640-47539-7	OW-301	Total/NA	Water	RSK-175	
640-47539-11	OW-402U	Total/NA	Water	RSK-175	
640-47539-13	OW-402R	Total/NA	Water	RSK-175	
640-47539-14	GZ-519U	Total/NA	Water	RSK-175	

GC VOA (Continued)

Analysis Batch: 325771 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47539-15	OW-101L	Total/NA	Water	RSK-175	
640-47539-16	OW-101	Total/NA	Water	RSK-175	
640-47539-17	OW-307	Total/NA	Water	RSK-175	
LCS 680-325771/3	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 680-325771/29	Lab Control Sample Dup	Total/NA	Water	RSK-175	
MB 680-325771/4	Method Blank	Total/NA	Water	RSK-175	

Analysis Batch: 326613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47518-2	GZ-505R	Total/NA	Water	RSK-175	
640-47518-4	GZ-502L	Total/NA	Water	RSK-175	
640-47518-5	OW-305U	Total/NA	Water	RSK-175	
640-47518-7	GZ-503L	Total/NA	Water	RSK-175	
640-47518-10	GZ-515U	Total/NA	Water	RSK-175	
640-47518-11	WB-4L	Total/NA	Water	RSK-175	
640-47518-12	WB-3L	Total/NA	Water	RSK-175	
640-47518-15	OW-404R	Total/NA	Water	RSK-175	
640-47518-18	GZ-504R	Total/NA	Water	RSK-175	
LCS 680-326613/5	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 680-326613/6	Lab Control Sample Dup	Total/NA	Water	RSK-175	
MB 680-326613/4	Method Blank	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 326637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47518-2	GZ-505R	Total/NA	Water	300.0	
640-47518-4	GZ-502L	Total/NA	Water	300.0	
640-47518-4	GZ-502L	Total/NA	Water	300.0	
640-47518-5	OW-305U	Total/NA	Water	300.0	
640-47518-7	GZ-503L	Total/NA	Water	300.0	
640-47518-10	GZ-515U	Total/NA	Water	300.0	
640-47518-11	WB-4L	Total/NA	Water	300.0	
640-47518-12	WB-3L	Total/NA	Water	300.0	
640-47518-15	OW-404R	Total/NA	Water	300.0	
640-47518-15 MS	OW-404R	Total/NA	Water	300.0	
640-47518-15 MSD	OW-404R	Total/NA	Water	300.0	
640-47518-18	GZ-504R	Total/NA	Water	300.0	
640-47518-18	GZ-504R	Total/NA	Water	300.0	
640-47539-4	OW-403L	Total/NA	Water	300.0	
640-47539-7	OW-301	Total/NA	Water	300.0	
640-47539-11	OW-402U	Total/NA	Water	300.0	
640-47539-13	OW-402R	Total/NA	Water	300.0	
640-47539-13	OW-402R	Total/NA	Water	300.0	
LCS 680-326637/20	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-326637/21	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-326637/19	Method Blank	Total/NA	Water	300.0	

HPLC/IC (Continued)

Analysis Batch: 326905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47539-14	GZ-519U	Total/NA	Water	300.0	
640-47539-14	GZ-519U	Total/NA	Water	300.0	
640-47539-15	OW-101L	Total/NA	Water	300.0	
640-47539-15	OW-101L	Total/NA	Water	300.0	
640-47539-16	OW-101	Total/NA	Water	300.0	
640-47539-17	OW-307	Total/NA	Water	300.0	
640-47571-6	OW-304L	Total/NA	Water	300.0	
640-47571-9	GZ-506R	Total/NA	Water	300.0	
640-47571-9	GZ-506R	Total/NA	Water	300.0	
640-47571-11	GZ-601R	Total/NA	Water	300.0	
640-47571-11	GZ-601R	Total/NA	Water	300.0	
LCS 680-326905/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-326905/7	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-326905/5	Method Blank	Total/NA	Water	300.0	

Metals

Prep Batch: 324776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47518-2	GZ-505R	Dissolved	Water	3005A	
640-47518-4	GZ-502L	Dissolved	Water	3005A	
640-47518-5	OW-305U	Dissolved	Water	3005A	
LCS 680-324776/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-324776/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 324782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47518-7	GZ-503L	Dissolved	Water	3005A	
640-47518-7 MS	GZ-503L	Dissolved	Water	3005A	
640-47518-7 MSD	GZ-503L	Dissolved	Water	3005A	
640-47518-7 PDS	GZ-503L	Dissolved	Water	3005A	
640-47518-7 SD	GZ-503L	Dissolved	Water	3005A	
640-47518-10	GZ-515U	Dissolved	Water	3005A	
640-47518-11	WB-4L	Dissolved	Water	3005A	
640-47518-12	WB-3L	Dissolved	Water	3005A	
640-47518-15	OW-404R	Dissolved	Water	3005A	
640-47518-18	GZ-504R	Dissolved	Water	3005A	
LCS 680-324782/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-324782/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 325036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47518-2	GZ-505R	Dissolved	Water	6010B	324776
640-47518-4	GZ-502L	Dissolved	Water	6010B	324776
640-47518-5	OW-305U	Dissolved	Water	6010B	324776
640-47518-7	GZ-503L	Dissolved	Water	6010B	324782
640-47518-7 MS	GZ-503L	Dissolved	Water	6010B	324782
640-47518-7 MSD	GZ-503L	Dissolved	Water	6010B	324782
640-47518-7 PDS	GZ-503L	Dissolved	Water	6010B	324782
640-47518-7 SD	GZ-503L	Dissolved	Water	6010B	324782

Metals (Continued)

Analysis Batch: 325036 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47518-10	GZ-515U	Dissolved	Water	6010B	324782
640-47518-11	WB-4L	Dissolved	Water	6010B	324782
640-47518-12	WB-3L	Dissolved	Water	6010B	324782
640-47518-15	OW-404R	Dissolved	Water	6010B	324782
640-47518-18	GZ-504R	Dissolved	Water	6010B	324782
CRI 680-325036/195	DL		Water	6010B	
CRI 680-325036/6	DL		Water	6010B	
ICSA 680-325036/7	ICS		Water	6010B	
ICSAB 680-325036/8	ICS		Water	6010B	
LCS 680-324776/2-A	Lab Control Sample	Total Recoverable	Water	6010B	324776
LCS 680-324782/2-A	Lab Control Sample	Total Recoverable	Water	6010B	324782
MB 680-324776/1-A	Method Blank	Total Recoverable	Water	6010B	324776
MB 680-324782/1-A	Method Blank	Total Recoverable	Water	6010B	324782

Prep Batch: 325592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47539-4	OW-403L	Dissolved	Water	3005A	
640-47539-7	OW-301	Dissolved	Water	3005A	
640-47539-11	OW-402U	Dissolved	Water	3005A	
640-47539-13	OW-402R	Dissolved	Water	3005A	
640-47539-14	GZ-519U	Dissolved	Water	3005A	
640-47539-16	OW-101	Dissolved	Water	3005A	
640-47539-17	OW-307	Dissolved	Water	3005A	
LCS 680-325592/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-325592/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 325775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47539-15	OW-101L	Dissolved	Water	3005A	
640-47539-15 MS	OW-101L	Dissolved	Water	3005A	
640-47539-15 MSD	OW-101L	Dissolved	Water	3005A	
640-47539-15 PDS	OW-101L	Dissolved	Water	3005A	
640-47539-15 SD	OW-101L	Dissolved	Water	3005A	
640-47571-6	OW-304L	Dissolved	Water	3005A	
640-47571-9	GZ-506R	Dissolved	Water	3005A	
640-47571-11	GZ-601R	Dissolved	Water	3005A	
LCS 680-325775/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-325775/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 326160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47539-4	OW-403L	Dissolved	Water	6010B	325592
640-47539-7	OW-301	Dissolved	Water	6010B	325592
640-47539-11	OW-402U	Dissolved	Water	6010B	325592
640-47539-13	OW-402R	Dissolved	Water	6010B	325592
640-47539-14	GZ-519U	Dissolved	Water	6010B	325592
640-47539-15	OW-101L	Dissolved	Water	6010B	325775
640-47539-15 MS	OW-101L	Dissolved	Water	6010B	325775
640-47539-15 MSD	OW-101L	Dissolved	Water	6010B	325775
640-47539-15 PDS	OW-101L	Dissolved	Water	6010B	325775
640-47539-15 SD	OW-101L	Dissolved	Water	6010B	325775

Metals (Continued)

Analysis Batch: 326160 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47539-16	OW-101	Dissolved	Water	6010B	325592
640-47539-17	OW-307	Dissolved	Water	6010B	325592
640-47571-6	OW-304L	Dissolved	Water	6010B	325775
640-47571-9	GZ-506R	Dissolved	Water	6010B	325775
640-47571-11	GZ-601R	Dissolved	Water	6010B	325775
CRI 680-326160/323	DL		Water	6010B	
CRI 680-326160/6	DL		Water	6010B	
ICSA 680-326160/7	ICS		Water	6010B	
ICSAB 680-326160/8	ICS		Water	6010B	
LCS 680-325592/2-A	Lab Control Sample	Total Recoverable	Water	6010B	325592
LCS 680-325775/2-A	Lab Control Sample	Total Recoverable	Water	6010B	325775
MB 680-325592/1-A	Method Blank	Total Recoverable	Water	6010B	325592
MB 680-325775/1-A	Method Blank	Total Recoverable	Water	6010B	325775

General Chemistry

Analysis Batch: 324750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47518-2	GZ-505R	Total/NA	Water	353.2	
640-47518-2 DU	GZ-505R	Total/NA	Water	353.2	
640-47518-4	GZ-502L	Total/NA	Water	353.2	
640-47518-5	OW-305U	Total/NA	Water	353.2	
640-47518-7	GZ-503L	Total/NA	Water	353.2	
640-47518-10	GZ-515U	Total/NA	Water	353.2	
640-47518-11	WB-4L	Total/NA	Water	353.2	
640-47518-12	WB-3L	Total/NA	Water	353.2	
640-47518-15	OW-404R	Total/NA	Water	353.2	
640-47518-18	GZ-504R	Total/NA	Water	353.2	
LCS 680-324750/14	Lab Control Sample	Total/NA	Water	353.2	
MB 680-324750/13	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 324974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47539-4	OW-403L	Total/NA	Water	353.2	
640-47539-7	OW-301	Total/NA	Water	353.2	
640-47539-11	OW-402U	Total/NA	Water	353.2	
640-47539-13	OW-402R	Total/NA	Water	353.2	
640-47539-14	GZ-519U	Total/NA	Water	353.2	
640-47539-15	OW-101L	Total/NA	Water	353.2	
640-47539-16	OW-101	Total/NA	Water	353.2	
640-47539-17	OW-307	Total/NA	Water	353.2	
LCS 680-324974/14	Lab Control Sample	Total/NA	Water	353.2	
MB 680-324974/13	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 325181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47571-6	OW-304L	Total/NA	Water	353.2	
640-47571-9	GZ-506R	Total/NA	Water	353.2	
640-47571-11	GZ-601R	Total/NA	Water	353.2	
640-47571-11 MS	GZ-601R	Total/NA	Water	353.2	

General Chemistry (Continued)

Analysis Batch: 325181 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47571-11 MSD	GZ-601R	Total/NA	Water	353.2	
LCS 680-325181/14	Lab Control Sample	Total/NA	Water	353.2	
MB 680-325181/13	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 326169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-326169/14	Lab Control Sample	Total/NA	Water	353.2	
MB 680-326169/13	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 326601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47539-11	OW-402U	Total/NA	Water	353.2	

Analysis Batch: 327091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47518-1	GZ-505L	Total/NA	Water	5310 B-2011	
640-47518-1 MS	GZ-505L	Total/NA	Water	5310 B-2011	
640-47518-1 MSD	GZ-505L	Total/NA	Water	5310 B-2011	
640-47518-2	GZ-505R	Total/NA	Water	5310 B-2011	
640-47518-3	GZ-503U	Total/NA	Water	5310 B-2011	
640-47518-4	GZ-502L	Total/NA	Water	5310 B-2011	
640-47518-5	OW-305U	Total/NA	Water	5310 B-2011	
640-47518-6	OW-305I	Total/NA	Water	5310 B-2011	
640-47518-6 DU	OW-305I	Total/NA	Water	5310 B-2011	
640-47518-7	GZ-503L	Total/NA	Water	5310 B-2011	
640-47518-8	GZ-501L	Total/NA	Water	5310 B-2011	
640-47518-10	GZ-515U	Total/NA	Water	5310 B-2011	
640-47518-11	WB-4L	Total/NA	Water	5310 B-2011	
640-47518-12	WB-3L	Total/NA	Water	5310 B-2011	
640-47518-13	WB-2L	Total/NA	Water	5310 B-2011	
640-47518-15	OW-404R	Total/NA	Water	5310 B-2011	
640-47518-16	WB-1L	Total/NA	Water	5310 B-2011	
640-47518-18	GZ-504R	Total/NA	Water	5310 B-2011	
640-47518-20	GZ-504L	Total/NA	Water	5310 B-2011	
640-47539-1	GZ-506U	Total/NA	Water	5310 B-2011	
640-47539-2	OW-102	Total/NA	Water	5310 B-2011	
640-47539-4	OW-403L	Total/NA	Water	5310 B-2011	
640-47539-6	DEC-204O	Total/NA	Water	5310 B-2011	
LCS 680-327091/5	Lab Control Sample	Total/NA	Water	5310 B-2011	
MB 680-327091/2	Method Blank	Total/NA	Water	5310 B-2011	

Analysis Batch: 327092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47539-7	OW-301	Total/NA	Water	5310 B-2011	
640-47539-7 DU	OW-301	Total/NA	Water	5310 B-2011	
640-47539-8	OW-408	Total/NA	Water	5310 B-2011	
640-47539-11	OW-402U	Total/NA	Water	5310 B-2011	
640-47539-11 MS	OW-402U	Total/NA	Water	5310 B-2011	
640-47539-11 MSD	OW-402U	Total/NA	Water	5310 B-2011	
640-47539-12	OW-402L	Total/NA	Water	5310 B-2011	
640-47539-13	OW-402R	Total/NA	Water	5310 B-2011	

General Chemistry (Continued)

Analysis Batch: 327092 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47539-14	GZ-519U	Total/NA	Water	5310 B-2011	
640-47539-15	OW-101L	Total/NA	Water	5310 B-2011	
640-47539-16	OW-101	Total/NA	Water	5310 B-2011	
640-47539-17	OW-307	Total/NA	Water	5310 B-2011	
640-47571-1	OW-304U	Total/NA	Water	5310 B-2011	
640-47571-6	OW-304L	Total/NA	Water	5310 B-2011	
640-47571-9	GZ-506R	Total/NA	Water	5310 B-2011	
640-47571-10	GZ-601L	Total/NA	Water	5310 B-2011	
640-47571-11	GZ-601R	Total/NA	Water	5310 B-2011	
640-47571-14	OW-304R	Total/NA	Water	5310 B-2011	
LCS 680-327092/33	Lab Control Sample	Total/NA	Water	5310 B-2011	
MB 680-327092/26	Method Blank	Total/NA	Water	5310 B-2011	

Lab Chronicle

Client: GZA GeoEnvironmental, Inc.
Project/Site: HP-San German IB

TestAmerica Job ID: 640-47518-1
SDG: 47518

Client Sample ID: GZ-505L — Lab Sample ID: 640-47518-1

Date Collected: 04/15/14 09:55 — **Matrix: Water**
Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326217	04/25/14 19:31	TF1	TAL SAV
Total/NA	Analysis	5310 B-2011		1	327091	04/30/14 17:47	CMP	TAL SAV

Client Sample ID: GZ-505R — Lab Sample ID: 640-47518-2

Date Collected: 04/15/14 10:40 — **Matrix: Water**
Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326297	04/26/14 14:31	MMT	TAL SAV
Total/NA	Analysis	RSK-175		1	326613	04/29/14 12:36	TAR	TAL SAV
Total/NA	Analysis	300.0		1	326637	04/29/14 17:44	PAT	TAL SAV
Dissolved	Prep	3005A			324776	04/17/14 08:35	BJB	TAL SAV
Dissolved	Analysis	6010B		1	325036	04/17/14 16:59	BCB	TAL SAV
Total/NA	Analysis	353.2		5	324750	04/16/14 19:12	GRX	TAL SAV
Total/NA	Analysis	5310 B-2011		1	327091	04/30/14 18:33	CMP	TAL SAV

Client Sample ID: GZ-503U — Lab Sample ID: 640-47518-3

Date Collected: 04/15/14 11:30 — **Matrix: Water**
Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326217	04/25/14 20:16	TF1	TAL SAV
Total/NA	Analysis	5310 B-2011		1	327091	04/30/14 18:47	CMP	TAL SAV

Client Sample ID: GZ-502L — Lab Sample ID: 640-47518-4

Date Collected: 04/15/14 12:20 — **Matrix: Water**
Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326217	04/25/14 20:39	TF1	TAL SAV
Total/NA	Analysis	RSK-175		1	326613	04/29/14 12:49	TAR	TAL SAV
Total/NA	Analysis	300.0		1	326637	04/29/14 17:59	PAT	TAL SAV
Total/NA	Analysis	300.0		2	326637	04/29/14 18:13	PAT	TAL SAV
Dissolved	Prep	3005A			324776	04/17/14 08:35	BJB	TAL SAV
Dissolved	Analysis	6010B		1	325036	04/17/14 17:03	BCB	TAL SAV
Total/NA	Analysis	353.2		1	324750	04/16/14 19:08	GRX	TAL SAV
Total/NA	Analysis	5310 B-2011		1	327091	04/30/14 19:06	CMP	TAL SAV

Lab Chronicle

Client: GZA GeoEnvironmental, Inc.
Project/Site: HP-San German IB

TestAmerica Job ID: 640-47518-1
SDG: 47518

Client Sample ID: OW-305U — Lab Sample ID: 640-47518-5

Date Collected: 04/15/14 13:20 — **Matrix: Water**
Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326297	04/26/14 14:53	MMT	TAL SAV
Total/NA	Analysis	RSK-175		1	326613	04/29/14 13:02	TAR	TAL SAV
Total/NA	Analysis	300.0		1	326637	04/29/14 18:28	PAT	TAL SAV
Dissolved	Prep	3005A			324776	04/17/14 08:35	BJB	TAL SAV
Dissolved	Analysis	6010B		1	325036	04/17/14 17:07	BCB	TAL SAV
Total/NA	Analysis	353.2		1	324750	04/16/14 19:09	GRX	TAL SAV
Total/NA	Analysis	5310 B-2011		1	327091	04/30/14 19:22	CMP	TAL SAV

Client Sample ID: OW-305I — Lab Sample ID: 640-47518-6

Date Collected: 04/15/14 14:05 — **Matrix: Water**
Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	326297	04/26/14 14:08	MMT	TAL SAV
Total/NA	Analysis	5310 B-2011		1	327091	04/30/14 20:12	CMP	TAL SAV

Client Sample ID: GZ-503L — Lab Sample ID: 640-47518-7

Date Collected: 04/15/14 15:05 — **Matrix: Water**
Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326217	04/25/14 21:47	TF1	TAL SAV
Total/NA	Analysis	RSK-175		1	326613	04/29/14 13:15	TAR	TAL SAV
Total/NA	Analysis	300.0		1	326637	04/29/14 18:42	PAT	TAL SAV
Dissolved	Prep	3005A			324782	04/17/14 08:42	BJB	TAL SAV
Dissolved	Analysis	6010B		1	325036	04/17/14 20:32	BCB	TAL SAV
Total/NA	Analysis	353.2		1	324750	04/16/14 19:16	GRX	TAL SAV
Total/NA	Analysis	5310 B-2011		1	327091	04/30/14 20:39	CMP	TAL SAV

Client Sample ID: GZ-501L — Lab Sample ID: 640-47518-8

Date Collected: 04/15/14 16:20 — **Matrix: Water**
Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326217	04/25/14 22:09	TF1	TAL SAV
Total/NA	Analysis	5310 B-2011		1	327091	04/30/14 20:58	CMP	TAL SAV

Client Sample ID: Trip Blank — Lab Sample ID: 640-47518-9

Date Collected: 04/15/14 00:00 — **Matrix: Water**
Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326217	04/25/14 18:23	TF1	TAL SAV

Client Sample ID: GZ-515U — Lab Sample ID: 640-47518-10

Date Collected: 04/15/14 10:20 — **Matrix: Water**
Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326217	04/25/14 22:32	TF1	TAL SAV
Total/NA	Analysis	RSK-175		1	326613	04/29/14 13:27	TAR	TAL SAV
Total/NA	Analysis	300.0		1	326637	04/29/14 18:56	PAT	TAL SAV
Dissolved	Prep	3005A			324782	04/17/14 08:42	BJB	TAL SAV
Dissolved	Analysis	6010B		1	325036	04/17/14 21:02	BCB	TAL SAV
Total/NA	Analysis	353.2		5	324750	04/16/14 19:21	GRX	TAL SAV
Total/NA	Analysis	5310 B-2011		1	327091	04/30/14 21:16	CMP	TAL SAV

Client Sample ID: WB-4L — Lab Sample ID: 640-47518-11

Date Collected: 04/15/14 11:35 — **Matrix: Water**
Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326217	04/25/14 22:54	TF1	TAL SAV
Total/NA	Analysis	RSK-175		1	326613	04/29/14 13:40	TAR	TAL SAV
Total/NA	Analysis	300.0		1	326637	04/29/14 19:40	PAT	TAL SAV
Dissolved	Prep	3005A			324782	04/17/14 08:42	BJB	TAL SAV
Dissolved	Analysis	6010B		1	325036	04/17/14 21:06	BCB	TAL SAV
Total/NA	Analysis	353.2		5	324750	04/16/14 19:18	GRX	TAL SAV
Total/NA	Analysis	5310 B-2011		1	327091	04/30/14 21:33	CMP	TAL SAV

Client Sample ID: WB-3L — Lab Sample ID: 640-47518-12

Date Collected: 04/15/14 12:35 — **Matrix: Water**
Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326217	04/25/14 23:17	TF1	TAL SAV
Total/NA	Analysis	RSK-175		1	326613	04/29/14 13:53	TAR	TAL SAV
Total/NA	Analysis	300.0		1	326637	04/29/14 19:54	PAT	TAL SAV
Dissolved	Prep	3005A			324782	04/17/14 08:42	BJB	TAL SAV
Dissolved	Analysis	6010B		1	325036	04/17/14 21:11	BCB	TAL SAV
Total/NA	Analysis	353.2		1	324750	04/16/14 19:25	GRX	TAL SAV
Total/NA	Analysis	5310 B-2011		1	327091	04/30/14 21:49	CMP	TAL SAV

Client Sample ID: WB-2L — Lab Sample ID: 640-47518-13

Date Collected: 04/15/14 13:55 — **Matrix: Water**
Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326217	04/25/14 23:39	TF1	TAL SAV
Total/NA	Analysis	5310 B-2011		1	327091	04/30/14 22:06	CMP	TAL SAV

Client Sample ID: WB-2L DUP — Lab Sample ID: 640-47518-14

Date Collected: 04/15/14 14:00 — **Matrix: Water**
Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326217	04/26/14 00:02	TF1	TAL SAV

Client Sample ID: OW-404R — Lab Sample ID: 640-47518-15

Date Collected: 04/15/14 15:05 — **Matrix: Water**
Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326217	04/26/14 00:25	TF1	TAL SAV
Total/NA	Analysis	RSK-175		1	326613	04/29/14 14:06	TAR	TAL SAV
Total/NA	Analysis	300.0		1	326637	04/29/14 20:08	PAT	TAL SAV
Dissolved	Prep	3005A			324782	04/17/14 08:42	BJB	TAL SAV
Dissolved	Analysis	6010B		1	325036	04/17/14 21:15	BCB	TAL SAV
Total/NA	Analysis	353.2		1	324750	04/16/14 19:26	GRX	TAL SAV
Total/NA	Analysis	5310 B-2011		1	327091	04/30/14 22:22	CMP	TAL SAV

Client Sample ID: WB-1L — Lab Sample ID: 640-47518-16

Date Collected: 04/15/14 16:00 — **Matrix: Water**
Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326217	04/26/14 00:47	TF1	TAL SAV
Total/NA	Analysis	5310 B-2011		1	327091	04/30/14 22:45	CMP	TAL SAV

Client Sample ID: Field Blank — Lab Sample ID: 640-47518-17

Date Collected: 04/15/14 16:20 — **Matrix: Water**
Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326297	04/26/14 13:23	MMT	TAL SAV

Client Sample ID: GZ-504R — Lab Sample ID: 640-47518-18

Date Collected: 04/15/14 17:15 — **Matrix: Water**
Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326217	04/26/14 01:10	TF1	TAL SAV
Total/NA	Analysis	RSK-175		1	326613	04/29/14 14:19	TAR	TAL SAV
Total/NA	Analysis	300.0		1	326637	04/29/14 20:52	PAT	TAL SAV
Total/NA	Analysis	300.0		2	326637	04/29/14 21:06	PAT	TAL SAV
Dissolved	Prep	3005A			324782	04/17/14 08:42	BJB	TAL SAV
Dissolved	Analysis	6010B		1	325036	04/17/14 21:19	BCB	TAL SAV
Total/NA	Analysis	353.2		1	324750	04/16/14 19:27	GRX	TAL SAV
Total/NA	Analysis	5310 B-2011		1	327091	04/30/14 23:35	CMP	TAL SAV

Client Sample ID: Trip Blank 2 — Lab Sample ID: 640-47518-19

Date Collected: 04/15/14 00:00 — **Matrix: Water**
Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326217	04/25/14 18:46	TF1	TAL SAV

Client Sample ID: GZ-504L — Lab Sample ID: 640-47518-20

Date Collected: 04/15/14 17:20 — **Matrix: Water**
Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326217	04/26/14 01:32	TF1	TAL SAV
Total/NA	Analysis	5310 B-2011		1	327091	04/30/14 23:56	CMP	TAL SAV

Client Sample ID: GZ-506U — Lab Sample ID: 640-47539-1

Date Collected: 04/16/14 09:20 — **Matrix: Water**
Date Received: 04/17/14 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326410	04/28/14 14:03	MMT	TAL SAV
Total/NA	Analysis	5310 B-2011		1	327091	05/01/14 00:12	CMP	TAL SAV

Client Sample ID: OW-102 — Lab Sample ID: 640-47539-2

Date Collected: 04/16/14 10:10 — **Matrix: Water**
Date Received: 04/17/14 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326410	04/28/14 14:26	MMT	TAL SAV
Total/NA	Analysis	5310 B-2011		1	327091	05/01/14 00:27	CMP	TAL SAV

Lab Chronicle

Client: GZA GeoEnvironmental, Inc.
Project/Site: HP-San German IB

TestAmerica Job ID: 640-47518-1
SDG: 47518

Client Sample ID: OW-102 DUP — Lab Sample ID: 640-47539-3

Date Collected: 04/16/14 10:15 — **Matrix: Water**
Date Received: 04/17/14 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326410	04/28/14 14:49	MMT	TAL SAV

Client Sample ID: OW-403L — Lab Sample ID: 640-47539-4

Date Collected: 04/16/14 11:10 — **Matrix: Water**
Date Received: 04/17/14 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326410	04/28/14 15:12	MMT	TAL SAV
Total/NA	Analysis	RSK-175		1	325771	04/23/14 19:57	TAR	TAL SAV
Total/NA	Analysis	300.0		2	326637	04/29/14 21:20	PAT	TAL SAV
Dissolved	Prep	3005A			325592	04/22/14 13:23	BJB	TAL SAV
Dissolved	Analysis	6010B		1	326160	04/25/14 08:29	BCB	TAL SAV
Total/NA	Analysis	353.2		2	324974	04/17/14 18:41	GRX	TAL SAV
Total/NA	Analysis	5310 B-2011		1	327091	05/01/14 00:41	CMP	TAL SAV

Client Sample ID: DEC-204O — Lab Sample ID: 640-47539-6

Date Collected: 04/16/14 13:30 — **Matrix: Water**
Date Received: 04/17/14 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326410	04/28/14 15:34	MMT	TAL SAV
Total/NA	Analysis	5310 B-2011		1	327091	05/01/14 00:58	CMP	TAL SAV

Client Sample ID: OW-301 — Lab Sample ID: 640-47539-7

Date Collected: 04/16/14 14:45 — **Matrix: Water**
Date Received: 04/17/14 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326410	04/28/14 15:57	MMT	TAL SAV
Total/NA	Analysis	RSK-175		1	325771	04/23/14 20:10	TAR	TAL SAV
Total/NA	Analysis	300.0		1	326637	04/29/14 21:35	PAT	TAL SAV
Dissolved	Prep	3005A			325592	04/22/14 13:23	BJB	TAL SAV
Dissolved	Analysis	6010B		1	326160	04/25/14 08:33	BCB	TAL SAV
Total/NA	Analysis	353.2		2	324974	04/17/14 18:44	GRX	TAL SAV
Total/NA	Analysis	5310 B-2011		1	327092	05/01/14 01:31	CMP	TAL SAV

Client Sample ID: OW-408 — Lab Sample ID: 640-47539-8

Date Collected: 04/16/14 15:45 — **Matrix: Water**
Date Received: 04/17/14 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326410	04/28/14 16:20	MMT	TAL SAV
Total/NA	Analysis	5310 B-2011		1	327092	05/01/14 02:02	CMP	TAL SAV

Client Sample ID: Trip Blank 4 — Lab Sample ID: 640-47539-9

Date Collected: 04/16/14 00:00 — **Matrix: Water**
Date Received: 04/17/14 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326410	04/28/14 12:32	MMT	TAL SAV

Client Sample ID: Field Blank — Lab Sample ID: 640-47539-10

Date Collected: 04/16/14 09:20 — **Matrix: Water**
Date Received: 04/17/14 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326410	04/28/14 12:55	MMT	TAL SAV

Client Sample ID: OW-402U — Lab Sample ID: 640-47539-11

Date Collected: 04/16/14 09:30 — **Matrix: Water**
Date Received: 04/17/14 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326410	04/28/14 16:43	MMT	TAL SAV
Total/NA	Analysis	RSK-175		1	325771	04/23/14 20:23	TAR	TAL SAV
Total/NA	Analysis	300.0		1	326637	04/29/14 22:18	PAT	TAL SAV
Dissolved	Prep	3005A			325592	04/22/14 13:23	BJB	TAL SAV
Dissolved	Analysis	6010B		1	326160	04/25/14 08:38	BCB	TAL SAV
Total/NA	Analysis	353.2		1	324974	04/17/14 18:55	GRX	TAL SAV
Total/NA	Analysis	353.2		1	326601	04/24/14 16:33	JER	TAL SAV
Total/NA	Analysis	5310 B-2011		1	327092	05/01/14 02:54	CMP	TAL SAV

Client Sample ID: OW-402L — Lab Sample ID: 640-47539-12

Date Collected: 04/16/14 10:15 — **Matrix: Water**
Date Received: 04/17/14 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326410	04/28/14 17:06	MMT	TAL SAV
Total/NA	Analysis	5310 B-2011		1	327092	05/01/14 03:40	CMP	TAL SAV

Client Sample ID: OW-402R

Lab Sample ID: 640-47539-13

Date Collected: 04/16/14 10:45

Matrix: Water

Date Received: 04/17/14 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326410	04/28/14 17:28	MMT	TAL SAV
Total/NA	Analysis	RSK-175		1	325771	04/23/14 20:36	TAR	TAL SAV
Total/NA	Analysis	300.0		1	326637	04/29/14 22:47	PAT	TAL SAV
Total/NA	Analysis	300.0		2	326637	04/29/14 23:01	PAT	TAL SAV
Dissolved	Prep	3005A			325592	04/22/14 13:23	BJB	TAL SAV
Dissolved	Analysis	6010B		1	326160	04/25/14 08:42	BCB	TAL SAV
Total/NA	Analysis	353.2		2	324974	04/17/14 18:46	GRX	TAL SAV
Total/NA	Analysis	5310 B-2011		1	327092	05/01/14 04:01	CMP	TAL SAV

Client Sample ID: GZ-519U

Lab Sample ID: 640-47539-14

Date Collected: 04/16/14 11:40

Matrix: Water

Date Received: 04/17/14 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326410	04/28/14 17:51	MMT	TAL SAV
Total/NA	Analysis	RSK-175		1	325771	04/23/14 20:49	TAR	TAL SAV
Total/NA	Analysis	300.0		1	326905	04/30/14 14:57	PAT	TAL SAV
Total/NA	Analysis	300.0		4	326905	04/30/14 15:12	PAT	TAL SAV
Dissolved	Prep	3005A			325592	04/22/14 13:23	BJB	TAL SAV
Dissolved	Analysis	6010B		1	326160	04/25/14 08:46	BCB	TAL SAV
Total/NA	Analysis	353.2		1	324974	04/17/14 18:48	GRX	TAL SAV
Total/NA	Analysis	5310 B-2011		1	327092	05/01/14 04:19	CMP	TAL SAV

Client Sample ID: OW-101L

Lab Sample ID: 640-47539-15

Date Collected: 04/16/14 12:25

Matrix: Water

Date Received: 04/17/14 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326410	04/28/14 18:14	MMT	TAL SAV
Total/NA	Analysis	RSK-175		1	325771	04/23/14 21:01	TAR	TAL SAV
Total/NA	Analysis	300.0		1	326905	04/30/14 15:26	PAT	TAL SAV
Total/NA	Analysis	300.0		2	326905	04/30/14 15:40	PAT	TAL SAV
Dissolved	Prep	3005A			325775	04/23/14 11:07	BJB	TAL SAV
Dissolved	Analysis	6010B		1	326160	04/24/14 15:08	BCB	TAL SAV
Total/NA	Analysis	353.2		1	324974	04/17/14 18:51	GRX	TAL SAV
Total/NA	Analysis	5310 B-2011		1	327092	05/01/14 04:38	CMP	TAL SAV

Lab Chronicle

Client: GZA GeoEnvironmental, Inc.
Project/Site: HP-San German IB

TestAmerica Job ID: 640-47518-1
SDG: 47518

Client Sample ID: OW-101

Lab Sample ID: 640-47539-16

Date Collected: 04/16/14 13:10

Matrix: Water

Date Received: 04/17/14 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	326587	04/29/14 18:58	MMT	TAL SAV
Total/NA	Analysis	RSK-175		1	325771	04/23/14 21:14	TAR	TAL SAV
Total/NA	Analysis	300.0		1	326905	04/30/14 16:24	PAT	TAL SAV
Dissolved	Prep	3005A			325592	04/22/14 13:23	BJB	TAL SAV
Dissolved	Analysis	6010B		1	326160	04/25/14 08:59	BCB	TAL SAV
Total/NA	Analysis	353.2		1	324974	04/17/14 18:53	GRX	TAL SAV
Total/NA	Analysis	5310 B-2011		1	327092	05/01/14 04:55	CMP	TAL SAV

Client Sample ID: OW-307

Lab Sample ID: 640-47539-17

Date Collected: 04/16/14 14:25

Matrix: Water

Date Received: 04/17/14 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	326410	04/28/14 13:41	MMT	TAL SAV
Total/NA	Analysis	RSK-175		1	325771	04/23/14 21:27	TAR	TAL SAV
Total/NA	Analysis	300.0		1	326905	04/30/14 16:38	PAT	TAL SAV
Dissolved	Prep	3005A			325592	04/22/14 13:23	BJB	TAL SAV
Dissolved	Analysis	6010B		1	326160	04/25/14 09:03	BCB	TAL SAV
Total/NA	Analysis	353.2		1	324974	04/17/14 18:54	GRX	TAL SAV
Total/NA	Analysis	5310 B-2011		1	327092	05/01/14 05:13	CMP	TAL SAV

Client Sample ID: Trip Blank 3

Lab Sample ID: 640-47539-18

Date Collected: 04/16/14 00:00

Matrix: Water

Date Received: 04/17/14 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326410	04/28/14 13:18	MMT	TAL SAV

Client Sample ID: OW-304U

Lab Sample ID: 640-47571-1

Date Collected: 04/17/14 09:40

Matrix: Water

Date Received: 04/18/14 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326587	04/29/14 14:02	MMT	TAL SAV
Total/NA	Analysis	5310 B-2011		1	327092	05/01/14 05:34	CMP	TAL SAV

Client Sample ID: GZ-702U — Lab Sample ID: 640-47571-2

Date Collected: 04/17/14 10:40 — **Matrix: Water**
Date Received: 04/18/14 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326587	04/29/14 14:25	MMT	TAL SAV

Client Sample ID: GZ-701L — Lab Sample ID: 640-47571-3

Date Collected: 04/17/14 12:00 — **Matrix: Water**
Date Received: 04/18/14 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326587	04/29/14 14:47	MMT	TAL SAV

Client Sample ID: GZ-701R — Lab Sample ID: 640-47571-4

Date Collected: 04/17/14 12:50 — **Matrix: Water**
Date Received: 04/18/14 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326587	04/29/14 15:10	MMT	TAL SAV

Client Sample ID: Trip Blank 5 — Lab Sample ID: 640-47571-5

Date Collected: 04/17/14 00:00 — **Matrix: Water**
Date Received: 04/18/14 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326587	04/29/14 12:54	MMT	TAL SAV

Client Sample ID: OW-304L — Lab Sample ID: 640-47571-6

Date Collected: 04/17/14 14:00 — **Matrix: Water**
Date Received: 04/18/14 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	326794	04/30/14 14:32	MMT	TAL SAV
Total/NA	Analysis	RSK-175		1	325717	04/23/14 13:35	TAR	TAL SAV
Total/NA	Analysis	300.0		2	326905	04/30/14 16:52	PAT	TAL SAV
Dissolved	Prep	3005A			325775	04/23/14 11:07	BJB	TAL SAV
Dissolved	Analysis	6010B		1	326160	04/24/14 16:00	BCB	TAL SAV
Total/NA	Analysis	353.2		1	325181	04/18/14 16:40	GRX	TAL SAV
Total/NA	Analysis	5310 B-2011		1	327092	05/01/14 06:20	CMP	TAL SAV

Client Sample ID: OW-304L DUP — Lab Sample ID: 640-47571-7

Date Collected: 04/17/14 14:05 — **Matrix: Water**
Date Received: 04/18/14 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	326794	04/30/14 15:39	MMT	TAL SAV

Client Sample ID: GZ-703R — Lab Sample ID: 640-47571-8

Date Collected: 04/17/14 11:50 — **Matrix: Water**
Date Received: 04/18/14 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	326794	04/30/14 16:40	MMT	TAL SAV

Client Sample ID: GZ-506R — Lab Sample ID: 640-47571-9

Date Collected: 04/17/14 12:50 — **Matrix: Water**
Date Received: 04/18/14 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326587	04/29/14 16:41	MMT	TAL SAV
Total/NA	Analysis	RSK-175		1	325717	04/23/14 13:48	TAR	TAL SAV
Total/NA	Analysis	300.0		1	326905	04/30/14 17:07	PAT	TAL SAV
Total/NA	Analysis	300.0		2	326905	04/30/14 17:21	PAT	TAL SAV
Dissolved	Prep	3005A			325775	04/23/14 11:07	BJB	TAL SAV
Dissolved	Analysis	6010B		1	326160	04/24/14 16:04	BCB	TAL SAV
Total/NA	Analysis	353.2		1	325181	04/18/14 16:39	GRX	TAL SAV
Total/NA	Analysis	5310 B-2011		1	327092	05/01/14 06:38	CMP	TAL SAV

Client Sample ID: GZ-601L — Lab Sample ID: 640-47571-10

Date Collected: 04/17/14 09:40 — **Matrix: Water**
Date Received: 04/18/14 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326587	04/29/14 17:04	MMT	TAL SAV
Total/NA	Analysis	5310 B-2011		1	327092	05/01/14 06:58	CMP	TAL SAV

Client Sample ID: GZ-601R — Lab Sample ID: 640-47571-11

Date Collected: 04/17/14 10:25 — **Matrix: Water**
Date Received: 04/18/14 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326587	04/29/14 17:27	MMT	TAL SAV
Total/NA	Analysis	RSK-175		1	325717	04/23/14 14:01	TAR	TAL SAV
Total/NA	Analysis	300.0		1	326905	04/30/14 17:36	PAT	TAL SAV
Total/NA	Analysis	300.0		2	326905	04/30/14 17:50	PAT	TAL SAV
Dissolved	Prep	3005A			325775	04/23/14 11:07	BJB	TAL SAV
Dissolved	Analysis	6010B		1	326160	04/24/14 16:08	BCB	TAL SAV
Total/NA	Analysis	353.2		1	325181	04/18/14 16:33	GRX	TAL SAV
Total/NA	Analysis	5310 B-2011		1	327092	05/01/14 07:16	CMP	TAL SAV

Lab Chronicle

Client: GZA GeoEnvironmental, Inc.
Project/Site: HP-San German IB

TestAmerica Job ID: 640-47518-1
SDG: 47518

Client Sample ID: Field Blank — Lab Sample ID: 640-47571-13

Date Collected: 04/17/14 11:35 — **Matrix: Water**
Date Received: 04/18/14 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326587	04/29/14 13:16	MMT	TAL SAV

Client Sample ID: OW-304R — Lab Sample ID: 640-47571-14

Date Collected: 04/17/14 15:05 — **Matrix: Water**
Date Received: 04/18/14 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	326794	04/30/14 16:09	MMT	TAL SAV
Total/NA	Analysis	5310 B-2011		1	327092	05/01/14 07:33	CMP	TAL SAV

Client Sample ID: Equipment Blank — Lab Sample ID: 640-47571-16

Date Collected: 04/17/14 15:25 — **Matrix: Water**
Date Received: 04/18/14 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	326587	04/29/14 13:39	MMT	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Certification Summary

Client: GZA GeoEnvironmental, Inc.
Project/Site: HP-San German IB

TestAmerica Job ID: 640-47518-1
SDG: 47518

Laboratory: TestAmerica Tallahassee

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E81005	06-30-14
Georgia	State Program	4		06-30-14
Louisiana	NELAP	6	30663	06-30-14
New Jersey	NELAP	2	FL012	06-30-14
Texas	NELAP	6	T104704459-11-2	03-31-15
USDA	Federal		P330-08-00158	08-05-14

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-15
A2LA	ISO/IEC 17025		399.01	02-28-15
Alabama	State Program	4	41450	06-30-14 *
Arkansas DEQ	State Program	6	88-0692	01-31-15
California	NELAP	9	3217CA	07-31-14
Colorado	State Program	8	N/A	12-31-14
Connecticut	State Program	1	PH-0161	03-31-15
Florida	NELAP	4	E87052	06-30-14 *
GA Dept. of Agriculture	State Program	4	N/A	06-30-14 *
Georgia	State Program	4	N/A	06-30-14 *
Georgia	State Program	4	803	06-30-14 *
Guam	State Program	9	09-005r	04-17-14 *
Hawaii	State Program	9	N/A	06-30-14 *
Illinois	NELAP	5	200022	11-30-14
Indiana	State Program	5	N/A	06-30-14 *
Iowa	State Program	7	353	07-01-15
Kentucky (DW)	State Program	4	90084	12-31-14
Kentucky (UST)	State Program	4	18	06-30-14 *
Louisiana	NELAP	6	LA100015	12-31-14
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-14
Massachusetts	State Program	1	M-GA006	06-30-14 *
Michigan	State Program	5	9925	06-30-14 *
Mississippi	State Program	4	N/A	06-30-14 *
Montana	State Program	8	CERT0081	01-01-15
Nebraska	State Program	7	TestAmerica-Savannah	06-30-14 *
New Jersey	NELAP	2	GA769	06-30-14 *
New Mexico	State Program	6	N/A	06-30-14 *
New York	NELAP	2	10842	03-31-15
North Carolina DENR	State Program	4	269	12-31-14
North Carolina DHHS	State Program	4	13701	07-31-14
Oklahoma	State Program	6	9984	08-31-14
Pennsylvania	NELAP	3	68-00474	06-30-14 *
Puerto Rico	State Program	2	GA00006	12-31-14
South Carolina	State Program	4	98001	06-30-14 *
Tennessee	State Program	4	TN02961	06-30-14 *
Texas	NELAP	6	T104704185-08-TX	11-30-14
USDA	Federal		SAV 3-04	04-07-14 *

* Expired certification is currently pending renewal and is considered valid.

Certification Summary

Client: GZA GeoEnvironmental, Inc.
Project/Site: HP-San German IB

TestAmerica Job ID: 640-47518-1
SDG: 47518

Laboratory: TestAmerica Savannah (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Virginia	NELAP	3	460161	06-14-14 *
Washington	State Program	10	C805	06-10-14 *
West Virginia DEP	State Program	3	94	06-30-14 *
West Virginia DHHR	State Program	3	9950C	12-31-14
Wisconsin	State Program	5	999819810	08-31-14
Wyoming	State Program	8	8TMS-L	06-30-14 *

* Expired certification is currently pending renewal and is considered valid.

Method Summary

Client: GZA GeoEnvironmental, Inc.
Project/Site: HP-San German IB

TestAmerica Job ID: 640-47518-1
SDG: 47518

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
RSK-175	Dissolved Gases (GC)	RSK	TAL SAV
300.0	Anions, Ion Chromatography	MCAWW	TAL SAV
6010B	Metals (ICP)	SW846	TAL SAV
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL SAV
5310 B-2011	Organic Carbon, Total (TOC)	SM	TAL SAV

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: GZA GeoEnvironmental, Inc.
Project/Site: HP-San German IB

TestAmerica Job ID: 640-47518-1
SDG: 47518

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
640-47518-1	GZ-505L	Water	04/15/14 09:55	04/16/14 09:45
640-47518-2	GZ-505R	Water	04/15/14 10:40	04/16/14 09:45
640-47518-3	GZ-503U	Water	04/15/14 11:30	04/16/14 09:45
640-47518-4	GZ-502L	Water	04/15/14 12:20	04/16/14 09:45
640-47518-5	OW-305U	Water	04/15/14 13:20	04/16/14 09:45
640-47518-6	OW-305I	Water	04/15/14 14:05	04/16/14 09:45
640-47518-7	GZ-503L	Water	04/15/14 15:05	04/16/14 09:45
640-47518-8	GZ-501L	Water	04/15/14 16:20	04/16/14 09:45
640-47518-9	Trip Blank	Water	04/15/14 00:00	04/16/14 09:45
640-47518-10	GZ-515U	Water	04/15/14 10:20	04/16/14 09:45
640-47518-11	WB-4L	Water	04/15/14 11:35	04/16/14 09:45
640-47518-12	WB-3L	Water	04/15/14 12:35	04/16/14 09:45
640-47518-13	WB-2L	Water	04/15/14 13:55	04/16/14 09:45
640-47518-14	WB-2L DUP	Water	04/15/14 14:00	04/16/14 09:45
640-47518-15	OW-404R	Water	04/15/14 15:05	04/16/14 09:45
640-47518-16	WB-1L	Water	04/15/14 16:00	04/16/14 09:45
640-47518-17	Field Blank	Water	04/15/14 16:20	04/16/14 09:45
640-47518-18	GZ-504R	Water	04/15/14 17:15	04/16/14 09:45
640-47518-19	Trip Blank 2	Water	04/15/14 00:00	04/16/14 09:45
640-47518-20	GZ-504L	Water	04/15/14 17:20	04/16/14 09:45
640-47539-1	GZ-506U	Water	04/16/14 09:20	04/17/14 09:35
640-47539-2	OW-102	Water	04/16/14 10:10	04/17/14 09:35
640-47539-3	OW-102 DUP	Water	04/16/14 10:15	04/17/14 09:35
640-47539-4	OW-403L	Water	04/16/14 11:10	04/17/14 09:35
640-47539-6	DEC-204O	Water	04/16/14 13:30	04/17/14 09:35
640-47539-7	OW-301	Water	04/16/14 14:45	04/17/14 09:35
640-47539-8	OW-408	Water	04/16/14 15:45	04/17/14 09:35
640-47539-9	Trip Blank 4	Water	04/16/14 00:00	04/17/14 09:35
640-47539-10	Field Blank	Water	04/16/14 09:20	04/17/14 09:35
640-47539-11	OW-402U	Water	04/16/14 09:30	04/17/14 09:35
640-47539-12	OW-402L	Water	04/16/14 10:15	04/17/14 09:35
640-47539-13	OW-402R	Water	04/16/14 10:45	04/17/14 09:35
640-47539-14	GZ-519U	Water	04/16/14 11:40	04/17/14 09:35
640-47539-15	OW-101L	Water	04/16/14 12:25	04/17/14 09:35
640-47539-16	OW-101	Water	04/16/14 13:10	04/17/14 09:35
640-47539-17	OW-307	Water	04/16/14 14:25	04/17/14 09:35
640-47539-18	Trip Blank 3	Water	04/16/14 00:00	04/17/14 09:35
640-47571-1	OW-304U	Water	04/17/14 09:40	04/18/14 09:35
640-47571-2	GZ-702U	Water	04/17/14 10:40	04/18/14 09:35
640-47571-3	GZ-701L	Water	04/17/14 12:00	04/18/14 09:35
640-47571-4	GZ-701R	Water	04/17/14 12:50	04/18/14 09:35
640-47571-5	Trip Blank 5	Water	04/17/14 00:00	04/18/14 09:35
640-47571-6	OW-304L	Water	04/17/14 14:00	04/18/14 09:35
640-47571-7	OW-304L DUP	Water	04/17/14 14:05	04/18/14 09:35
640-47571-8	GZ-703R	Water	04/17/14 11:50	04/18/14 09:35
640-47571-9	GZ-506R	Water	04/17/14 12:50	04/18/14 09:35
640-47571-10	GZ-601L	Water	04/17/14 09:40	04/18/14 09:35
640-47571-11	GZ-601R	Water	04/17/14 10:25	04/18/14 09:35
640-47571-13	Field Blank	Water	04/17/14 11:35	04/18/14 09:35
640-47571-14	OW-304R	Water	04/17/14 15:05	04/18/14 09:35
640-47571-16	Equipment Blank	Water	04/17/14 15:25	04/18/14 09:35

TestAmerica Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301
Phone (850) 878-3994 Fax (850) 878-9504

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information

Client Contact: Ms. Jessica Yeager
Company: GZA GeoEnvironmental, Inc.
Address: 249 Vanderbilt Ave
City: Norwood
State, Zip: MA, 02062
Phone: 781-278-5833(Tel) 781-278-5701(Fax)
Email: jessica.yeager@gza.com
Project Name: HP-San German IB
Site:

Sampler: Jessica Yeager Katelyn Kerigan
Phone: 781-752-5154
Lab PM: Marks, Amy
E-Mail: amy.marks@testamericainc.com
Carrier Tracking No(s):
COC No: 640-44826-10433.3
Page: Page 3 of 6
Job #:

Due Date Requested:
TAT Requested (days):
PO #: 01-15172
WO #:
Project #: 64004374
SSOW#:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - Site VOHs	SM5310_TOC_B - Total Organic Carbon	RSK_175 - MEE (Dissolved Gases)	6010B - Dissolved Iron	300_ORGFM_28D - Chloride and Sulfate	353.2 - Nitrate	8260B - Site VOHs + BTEX/MTBE	Total Number of containers	Special Instructions/Note:
GZ-505L	4/15/14	9:55	G	GW	N	N	3	3						6	
GZ-505R	4/15/14	10:40	G	GW	Y	N	3	3	2	1	1	2	0	7	Field filter 6010B only
GZ-503U	4/15/14	11:30	G	GW	N	N	3	3						6	
GZ-502L	4/15/14	12:20	G	GW	Y	N	3	3	2	1	1	2	0	10	Field filter 6010B only
OW-305U	4/15/14	13:10	G	GW	Y	N	2	3	2	1	1	2		11	field filter 6010B only
OW-305L	4/15/14	14:05	G	GW	N	N	3	3						6	
GZ-503L	4/15/14	15:05	G	GW	Y	N	3	3	2	1	1	2		7	field filter 6010B only
GZ-501L	4/15/14	16:20	G	GW	N	N	3	3						6	
Trip Blank	4/15/14	lab	lab	lab	N	N	3							3	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed i
☐ Return To Client ☐ Disposal B

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: [signature] Date: 3/25/14 Time: 1807 Metho

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	4/15/14 1748				
			[signature]	04/16/14 0945	TM SW

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 640-47518 1.0°C

640-47518 Chain of Custody

TestAmerica Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301
Phone (850) 878-3994 Fax (850) 878-9504

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Kathleen Kenyon / Nelson Feliciano	Lab PM: Marks, Amy	Carrier Tracking No(s):	COC No: 640-44826-10433.6
Client Contact: Ms. Jessica Yeager	Phone: 781-752-5154	E-Mail: amy.marks@testamericainc.com		Page: Page 6 of 6
Company: GZA GeoEnvironmental, Inc.				Job #:
Address: 249 Vanderbilt Ave	Due Date Requested:			
City: Norwood	TAT Requested (days):			
State, Zip: MA, 02062				
Phone: 781-278-5833(Tel) 781-278-5701(Fax)	PO #: 01-15172			
Email: jessica.yeager@gza.com	WO #:			
Project Name: HP-San German IB	Project #: 64004374			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - Site VOHs 3 VOA/Sample	SM5310_TOC_B - Total Organic Carbon 3 AVOA/Sample	RSK_175 - MEE (Dissolved Gases) 2 VOA/Sample	6010B - Dissolved Iron Field filtered 1 50ml/sample	300_ORGFM_28D - Chloride and Sulfate 1 bottle/sample	353.2 - Nitrate 2 bottles/sample	8260B - Site VOHs 3 VOA/Sample	MS/MSD VOLS only	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	A	S	A	D	N	N	A		X	
GZ-515U	04.15.14	1020	G	W	Y	Y	X	X	X	X	X	X	X	X	15	
WB-4L	04.15.14	1135	G	W	Y	N	X	X	X	X	X	X	X		12	
WB-3L	04.15.14	1235	G	W	Y	N	X	X	X	X	X	X	X		12	
WB-2L	04.15.14	1355	G	W	N	N	X	X							6	
WB-2L DUP	04.15.14	1400	G	W	N	N	X								3	
OW-404R	04.15.14	1505	G	W	Y	N	X	X	X	X	X	X			12	
WB-1L	04.15.14	1600	G	W	N	N	X	X							6	
Field Blank	04.15.14	1620	G	W	N	N	X								3	
GZ-504R	4.15.14	1715	G	W	N	N	X	X	X	X	X	X			6	
Trip Blank 2 (required refining to add water due to bubbles)	4.15.14	AM	Lab		N	N	X								3	
GZ-504L	4.15.14	1720	G	W	N	N	X	X								

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: Field filtered 6010b only.

Empty Kit Relinquished by: [signature]	Date: 3/25/14	Time: 1807	Method of Shipment:		
Relinquished by: KBS	Date/Time: 4/15/14 1797	Company: GZA	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 04/16/14 0945	Company: TASD

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 640-47518 0.2°C

TestAmerica Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301
Phone (850) 878-3994 Fax (850) 878-9504

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Rob Kerigan	Lab PM: Marks, Amy	Carrier Tracking No(s):	COC No: 640-44826-10433.1
Client Contact: Ms. Jessica Yeager	Phone: 202-689-5142	E-Mail: amy.marks@testamericainc.com		Page: Page 1 of 6
Company: GZA GeoEnvironmental, Inc.				Job #:
Address: 249 Vanderbilt Ave	Due Date Requested:			
City: Norwood	TAT Requested (days):			
State, Zip: MA, 02062				
Phone: 781-278-5833(Tel) 781-278-5701(Fax)	PO #: 01-15172			
Email: jessica.yeager@gza.com	WO #:			
Project Name: HP-San German IB	Project #: 64004374			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - Site VOHs 3 VOAs	SM5310_TOC_B - Total Organic Carbon 3A VOAs	RSK_175 - MEE (Dissolved Gases) 2 VOAs	6010B - Dissolved Iron Field Filtered	300_ORGFM_28D - Chloride and Sulfate 1 jar	353.2 - Nitrate 2 jars	8260B - Site VOHs + BTEX/MTBE	Total Number of Containers	Special Instructions/Note:
			Preservation Code:												
GZ-506U	4.16.14	0920	G	W	N	N	X	X							
OW-102		1010	G	W	N	N	X	X							
OW-102 DUP		1015	G	W	N	N	X								
OW-403L		1110	G	W	N	N	X	X	X	X	X	X			
OW-304U		1220	G	W	N	N	HOLD								
OW-204O		1330	G	W	N	N	X	X							
OW-301		1445	G	W	N	N	X	X	X	X	X	X			
OW-408		1545	G	W	N	N	X	X							
Trip Blank 4		AM		W	N	N	X								

640-47539 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: Use Field filtered 6010B only

Empty Kit Relinquished by:	Date: 4/25/14	Time: 1800	Method of Shipment:		
Relinquished by:	Date/Time: 4.16.14 1700	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 04/17/14	Company TA SW

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 640-47539 0.6/2.2°C

TestAmerica Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301
Phone (850) 878-3994 Fax (850) 878-9504

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Nelson Feliciano

Client Information	Sampler: Jessica Yeager Kate Kerigan	Lab PM: Marks, Amy	Carrier Tracking No(s):	COC No: 640-44826-10433.5
Client Contact: Ms. Jessica Yeager	Phone: 781-752-5154	E-Mail: amy.marks@testamericainc.com		Page: Page 5 of 6
Company: GZA GeoEnvironmental, Inc.				Job #:
Address: 249 Vanderbilt Ave	Due Date Requested:			
City: Norwood	TAT Requested (days):			
State, Zip: MA, 02062				
Phone: 781-278-5833(Tel) 781-278-5701(Fax)	PO #: 01-15172			
Email: jessica.yeager@gza.com	WO #:			
Project Name: HP-San German IB	Project #: 64004374			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - Site VOHs	SM5310_TOC_B - Total Organic Carbon	RSK_175 - MEE (Dissolved Gases)	6010B - Dissolved Iron	300_ORGFM_28D - Chloride and Sulfate	353.2 - Nitrate	8260B - Site VOHs + BTEX/MTBE	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	S	A	D	N	N	A		
Field Blank	4.16.14	9 20	G	LAB	N	N	3							10	
OW-402 U	4.16.14	9 30	G	GW	Y	N	3	3	2	1	1	2		12	(1)
OW-402 L	4.16.14	10 15	G	GW	N	N	3	3						6	
OW-402 R	4.16.14	10:45	G	GW	Y	N	3	3	2	1	1	2		12	(1)
GZ-519 U	4.16.14	11:40	G	GW	Y	N	3	3	2	1	1	2		12	(1)
OW-101 L	4.16.14	12:25	G	GW	Y	N	3	3	2	1	1	2		12	(1)
OW-101	4.16.14	13:10	G	GW	Y	N	3	3	2	1	1	2		12	(1)
OW-307	4.16.14	14:25	G	GW	Y	N	3	3	2	1	1	2		12	(1)
Trip Blank 3	4/16/14	Am	lab	lab	N	N	1							1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: (1) Field filtered 6010B only

Empty Kit Relinquished by:	Date: 3/25/14	Time: 1807	Method of Shipment:		
Relinquished by:	Date/Time: 4/16/14 1500	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 04/17/14	Company TAS

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 0.6 | 2.2°C 640-47539

TestAmerica Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301
Phone (850) 878-3994 Fax (850) 878-9504

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Kate Kerigan

Client Information	Sampler: Jessica Yeager Nelson Feliciano	Lab PM: Marks, Amy	Carrier Tracking No(s):	COC No: 640-44826-10433.2
Client Contact: Ms. Jessica Yeager	Phone: 781-752-5154	E-Mail: amy.marks@testamericainc.com		Page: ~~2 of 6~~ 1 of 2
Company: GZA GeoEnvironmental, Inc.				Job #:
Address: 249 Vanderbilt Ave	Due Date Requested:			
City: Norwood	TAT Requested (days):			
State, Zip: MA, 02062				
Phone: 781-278-5833(Tel) 781-278-5701(Fax)	PO #: 01-15172			
Email: jessica.yeager@gza.com	WO #:			
Project Name: HP-San German IB	Project #: 64004374			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No) 6010B Jar only	Perform MS/MSD (Yes or No)	8260B - Site VOHs 2 VOAs	SM5310_TOC_B - Total Organic Carbon 3 A. VOAs	RSK_175 - MEE (Dissolved Gases)	6010B - Dissolved Iron Field filtered	300_ORGFM_28D - Chloride and Sulfate	353.2 - Nitrate	8260B - Site VOHs + BTEX/MTBE	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	S	A	D	N	N	A		
OW-304U	4.17.14	0940	G	W	N	N	X	X						5	
GZ-702U		1040	G	W	N	N	X							2	
GZ-701L		1200	G	W	N	N	X							2	
GZ-701R		1250	G	W	N	N	X							2	
Trip Blank 5		AM	—	W	N	N	X							2	
OW-304L		1400	G	W	Y	N	X	X	X	X	X	X		11	Field filtered 6010B Jar
OW-6304L DUP		1405	G	W	N	N	X							2	
GZ-703R		1150	G	W	N	N	X							2	
GZ-506R		12:50	G	W	Y	N	X	X	X	X	X	X		12	Field filtered 6010B only
GZ-601L		940	G	W	N	N		X					X	8	MS/MSD 8260 ONLY
GZ-601R		10:25	G	W	Y	N		X	X	X	X	X	X	12	Field filter 6010B only

640-47571 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: [signature]	Date: 3/25/14	Time: 1807	Method of Shipment:		
Relinquished by: [signature]	Date/Time: 4/17/14 1615	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 04/18/14 0935	Company TA SJ

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 640-47571

TestAmerica Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301
Phone (850) 878-3994 Fax (850) 878-9504

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: J. Yeager, K. Yerigan, N. Feliciano	Lab PM: Marks, Amy	Carrier Tracking No(s):
Client Contact: Ms. Jessica Yeager	Phone: 781-752-5154	E-Mail: amy.marks@testamericainc.com	
Company: GZA GeoEnvironmental, Inc.			
Address: 249 Vanderbilt Ave	Due Date Requested:		
City: Norwood	TAT Requested (days):		
State, Zip: MA, 02062			
Phone: 781-278-5833(Tel) 781-278-5701(Fax)	PO #: 01-15172		
Email: jessica.yeager@gza.com	WO #:		
Project Name: HP-San German IB	Project #: 64004374		
Site:	SSOW#:		

COC No: 640-44826-10433.4
Page: Page ~~4 of 6~~ 2 of 2
Job #:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - Site VOHs	SM5310_TOC_B - Total Organic Carbon	RSK_175 - MEE (Dissolved Gases)	6010B - Dissolved Iron	300_ORGFM_28D - Chloride and Sulfate	353.2 - Nitrate	8260B - Site VOHs + BTEX/MTBE	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	A	S	A	D	N	N	A	X	
GZ-702U DRILL WATER	4/17/14	1420	G	W	N	N	X							2	
Field Blank	4/17/14	1135	G	lab	N	N	X							1	
OW-304R	4/17/14	1505	G	W	N	N	X	X						~~6~~ 5	
Treated Purge Water	4/17/14	1540	G	W	N	N	X								
Equipment Blank	4/17/14	1525	G	W	N	N	X								

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: [signature]	Date: 3/25/14	Time: 1800	Method of Shipment:		
Relinquished by: [signature]	Date/Time: 4/17/14 1615	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 04/18/14 0935	Company TAP

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 640-47571

Login Sample Receipt Checklist

Client: GZA GeoEnvironmental, Inc.

Job Number: 640-47518-1
SDG Number: 47518

Login Number: 47518
List Number: 1
Creator: Conner, Keaton

List Source: TestAmerica Savannah
List Creation: 04/16/14 01:53 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GZA GeoEnvironmental, Inc.

Job Number: 640-47518-1
SDG Number: 47518

Login Number: 47539
List Number: 1
Creator: Conner, Keaton

List Source: TestAmerica Savannah
List Creation: 04/17/14 02:32 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	IDs on containers do not match the COC. Logged in per COC.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GZA GeoEnvironmental, Inc.

Job Number: 640-47518-1
SDG Number: 47518

Login Number: 47571
List Number: 1
Creator: Conner, Keaton

List Source: TestAmerica Savannah
List Creation: 04/18/14 01:44 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX F

DATA VALIDATION

Data Validation

In accordance with Revision 3 of the Quality Assurance Project Plan (QAPP) submitted by GZA GeoEnvironmental, Inc. (GZA) in May 2010, the groundwater samples collected in April 2014 were analyzed for volatile organic compounds (VOCs) by TestAmerica Laboratories, Inc. in Tallahassee, Florida (NELAP E81005) and Savannah, Georgia (PR State Program GA00006), certified by a Puerto Rico-certified chemist, and validated by a GZA chemist. GZA performed a data validation in accordance with the U.S. Environmental Protection Agency (EPA) Region II Data Validation Standard Operating Procedure (SOP) #HW-33 Revision 3 (located on the EPA Region II webpage at *http://www.epa.gov/region02/qa/documents.htm*). The criteria for accepting, rejecting, or qualifying data are included in the SOP. The intrinsic biodegradation (IB) results presented in Table 2 were not certified by a Puerto Rico-certified chemist or validated by a GZA chemist. Only the target analytes were reviewed in the data validation. Overall, the quality assurance/quality control (QA/QC) results met the limits established by the QAPP.

For the April 2014 sampling event, groundwater samples[1] were collected from 39 wells during the period of April 15 through 17, 2014 and analyzed via the USEPA 8260B Method. The data were reported in sample delivery group (SDG) 47518[2]. This data validation includes evaluations of QA/QC samples, surrogate recoveries, holding time, preservation, laboratory reporting limits (RLs), internal standard area counts and retention times, initial calibration (ICAL) relative response factors (RRFs) and relative standard deviations (RSDs), and continuing calibration verification (CCV) RRFs and percent differences (%D) to assess precision, accuracy, completeness, and data usability. The QA/QC samples included temperature blanks, trip blanks, field blanks, an equipment blank, field duplicate samples, laboratory method blanks, Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD), and Matrix Spike (MS)/Matrix Spike Duplicate (MSD) samples, which were collected/prepared and analyzed to assess the potential effects of field sampling conditions, storage and transportation of samples, nature of sample matrix, and laboratory conditions and analysis. The raw data and mass spectra were spot checked for transcription accuracy and analyte identification.

Data accuracy was assessed based on percent recoveries (%R) from spiked samples expressed as a percent of the true or known concentration of the assessed constituent, surrogate recoveries, blank results, CCV, ICAL, and internal standards results. Data precision was estimated by comparing analytical results between field duplicate samples and calculating the relative percent difference (RPD) or absolute difference (AD) of the duplicate results (e.g., LCS/LCSD and MS/MSD).

The laboratory reported that the sample shipments were received at temperatures within

[1] Only VOC results were validated and therefore, unless otherwise specified, only VOC results were discussed in this data validation.
[2] Samples were combined into one SDG for Puerto Rico certification purposes. Samples were analyzed in batches of less than 20 samples.

the acceptable range.

For several samples (OW-305I (10X[3]), OW-101 (5X), OW-307 (5X), OW-304L (10X), OW-304L DUP (10X), GZ-703R (2X), GZ-601L (methyl tert-butyl ether (MTBE) only) (10X), GZ-601R DL (MTBE only), and OW-304R (10X)), the reporting limits were elevated due to dilution requirements needed to obtain on-scale results.

Only the reported VOCs and their associated QA/QC components were reviewed in the data quality review.

ACCURACY

Accuracy was assessed through the review of blank sample results, spike and surrogate recoveries, internal standards, ICAL, CCV, mass spectra, and instrument performance checks.

Blanks

The QA/QC program included the analysis of five trip blanks, three field blanks, one equipment blank, and laboratory method blanks corresponding to each analytical batch of samples.

No analytes were detected above RLs in any field blanks or trip blanks. The equipment blank sample was collected by pumping laboratory-quality deionized (DI) water through the decontaminated Grundfos pump. TCE was detected in the equipment blank at 9.8 microgram per liter (µg/L), and cis-1,2-dichloroethene (cis-1,2-DCE) was detected at 4.2 µg/L. TCE and cis-1,2-DCE were detected in the associated samples (OW-304L, OW-304L DUP, and OW-304R) at concentrations over 10 times the concentrations detected in the equipment blank; no qualifiers were added. The decontamination procedure for the submersible pump will be supplemented with an isopropyl alcohol rinse following the Alconox bath and prior to the water rinse for future monitoring events.

No reported analytes were detected in the associated laboratory method blank samples.

No qualifiers were added based on the blank sample results.

Spike Recoveries in LCS/LCSD Samples

The spike recoveries in the LCS/LCSD samples associated with this monitoring event were within the control limits established by the QAPP.

Spike Recoveries in MS/MSD Samples

MS/MSD samples were analyzed at an appropriate frequency (1/20 of project

[3] "X" indicates a dilution times of the preceding number, e.g., "5X" indicates a five times dilution.

samples). MS/MSD analyses were performed for GZ-515U and GZ-601L. The spike recoveries in the MS/MSD samples for this monitoring event were within the control limits established by the QAPP.

Surrogate Recoveries

The surrogate recoveries associated with all the groundwater samples for this monitoring event were within the control limits established by the QAPP.

Internal Standards

Internal standard area counts and retention times were within the QAPP limits of 50-200% of the initial calibration sequence areas and ±30 seconds from the retention time of the internal area in the initial calibration, respectively, in accordance with the QAPP.

Initial and Continuing Calibrations

The ICAL %RSD values were within the QAPP-established limit of ≤20%, and the RRFs were above the minimum RRF criteria established by the QAPP for all reported analytes.

The CCV %D was outside the QAPP-established limit of ±20% for bromomethane (-36%) associated with samples GZ-505L, GZ-503U, GZ-502L, GZ-503L, GZ-501L, GZ-515U, WB-4L, WB-2L, WB-3L, WB-2L DUP, OW-404R, WB-1L, GZ-504R, and GZ-504L; for dichlorodifluoromethane (-23%), chloromethane (-25%), and bromomethane (-27%) associated with samples OW-305I, GZ-505R, and OW-305U; for dichlorodifluoromethane (-21%), chloromethane (-32%), and bromomethane (-32%) associated with samples OW-307, GZ-506U, OW-102, OW-102 DUP, OW-403L, DEC-204O, OW-301, OW-408, OW-402U, OW-402L, OW-402R, GZ-519U, and OW-101L; for bromomethane (-27%), carbon tetrachloride (32%), dibromochloromethane (24%), and bromoform (27%) associated with samples OW-304U, GZ-702U, GZ-701L, GZ-701R, GZ-506R, GZ-601L, GZ-601R, and OW-101; and for bromomethane (-32%) associated with samples OW-304L, OW-304L DUP, OW-304R, and GZ-703R. "UJ" qualifiers were added to the associated non-detects based on the CCV results. A "J"[4] qualifier was added to the detected dichlorodifluoromethane result in OW-307. The RRFs were above the associated minimum RRF established by the QAPP for all reported analytes.

Mass Spectra

The mass spectra for chloroform in samples OW-402R and GZ-701R; for 1,2-dichloroethane in samples GZ-506R, OW-304L DUP, and OW-304R; for 1,1-dichloroethane in samples OW-402R, OW-402L, and OW-304R; for dichlorodifluoromethane in sample OW-402R; for 1,1-dichloroethene in samples WB-

[4] "J" indicates he result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

4L, WB-3L, GZ-504R, OW-403L, OW-408, and OW-304L; for trichloroethene in sample GZ-501L; for vinyl chloride in sample GZ-601R; and for tetrachloroethene in samples GZ-501L, WB-4L, OW-304L, OW-304L DUP, and GZ-506R exhibited discrepancies between the respective reference spectrum and sample spectrum. The results were confirmed by the laboratory.

Instrument Performance Check

All data generated were analyzed within the twelve hour calibration interval after the associated instrument performance check bromofluorobenzene (BFB) injections.

No other data quality issues were identified.

PRECISION

Precision was quantitatively assessed through evaluation of field and laboratory duplicate results.

Field Duplicates

Three field duplicate pairs of samples (OW-102/OW-102 DUP, OW-304L/OW-304L DUP, and WB-2L/WB-2L DUP) were collected during the sampling event. The RPDs were calculated for the analytes that were detected in both samples of the duplicate pair using the following equation:

$$RPD = \left| 2 * 100 * \frac{S_1 - S_2}{S_1 + S_2} \right|$$

Where:

S1 = primary sample result, and
S2 = duplicate sample result.

Calculated RPDs (in percentage) are only applicable when the sample values are greater than or equal to two times the respective analytical RLs. For the sample duplicate pairs with values greater than or equal to two times the RL, the precision goal is a calculated RPD less than 20%. For the primary and duplicate sample results that are less than two times the respective analytical RL, the precision goal is met when the absolute difference (AD) between the results is less than two times the RL. The calculated RPDs and ADs for primary and duplicate samples met these requirements for this monitoring event.

Laboratory Control Spike and Matrix Spike Duplicates

The RPDs for the LCS/LCSD and MS/MSD pairs associated with groundwater samples for this monitoring event were within analyte-specific control limits established by the QAPP, except for the following:

- The LCS/LCSD RPDs for dichlorodifluoromethane associated with samples

OW-305I, GZ-505R, and OW-305U (40% vs. 35%). The LCS/LCSD recoveries for dichlorodifluoromethane were within the QAPP limits; no qualifiers were added associated with the LCS/LCSD RPD exceedances.

- The MS/MSD RPDs for bromobenzene (20% vs. 19%), bromoform (22% vs. 20%), dibromochloromethane (22% vs. 18%), 1,3-dichlorobenzene (26% vs. 24%), 1,4-dichlorobenzene (26% vs. 25%), and dichlorodifluoromethane (78% vs. 31%) associated with sample GZ-515U and dichlorodifluoromethane (75% vs. 31%) associated with sample GZ-601L were outside the QAPP limits. The MS/MSD recoveries for bromobenzene, bromoform, dibromochloromethane, 1,3-dichlorobenzene, 1,4-dichlorobenzene, and dichlorodifluoromethane were within the QAPP limits; therefore, no qualifiers were added associated with the MS/MSD RPD exceedances.

COMPLETENESS

Groundwater samples were successfully obtained from each monitoring well targeted for sampling during the sampling round except for GZ-504U and WB-1U, which were dry or had insufficient volume of water. The laboratory reported the requested analyses, and the deliverable data reports were complete.

Completeness is the ratio of the number of valid sample results to the total number of samples analyzed within a specific matrix and/or analysis. The percent complete is calculated by the following equation:

$$\%\,Complete = \frac{(number\ of\ valid\ measurements)}{(number\ of\ measurements\ planned)} * 100$$

Because all of the analytical data are considered valid and useable, the percent complete for the results presented in this report is 100 percent for all analyses, which meets the QC goal of 90 percent. The sufficiency of valid results to meet project objectives for the analysis of analytes will continue to be evaluated during future sampling events.

DATA QUALITY SUMMARY

The field and laboratory quality control results indicate that the sampling and analyses performed in generating the data for this groundwater sampling round were generally consistent with the analytical methods and the QAPP and provided data suitable for project objectives. Where appropriate, data were qualified based on GZA's review as recommended in the USEPA Region II SOP. The data are acceptable, and can be used for decision-making purposes. The limitations identified by the applied qualifiers, however, should be considered when using the data.

REFERENCES

GZA, 2010, Quality Assurance Project Plan, Revision 3, Hewlett-Packard Voluntary

Remedial Actions, San German, Puerto Rico (submitted as Appendix D of Intrinsic Biodegradation Study Work Plan), May.

USEPA Region II, 2013, SOP #HW-33 Revision 3, Low/Medium Volatile Data Validation, March.

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APPENDIX G

BORING LOGS

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Former Hewlett-Packard Facility
Intrinsic Biodegradation Implementation
San German, Puerto Rico

BORING NO.: GZ-701L
SHEET: 1 of 1
PROJECT NO: 01.0024065.14
REVIEWED BY: JAC

Drilling Co.: Complete Well
Foreman: A. Alualle
Logged By: Jessica Yeager

Type of Rig: Air Rotary
Rig Model: T-650-WII
Drilling Method: Air Rotary

Boring Location: See Plan
Ground Surface Elev. (ft.):
Final Boring Depth (ft.): 54
Date Start - Finish: 4/7/2014 - 4/7/2014

H. Datum:
V. Datum:

Auger/Casing Type: Air Rotary
I.D./O.D.: 6"
Hmr Weight (lb.): N/A
Hmr Fall (in.):
Other:

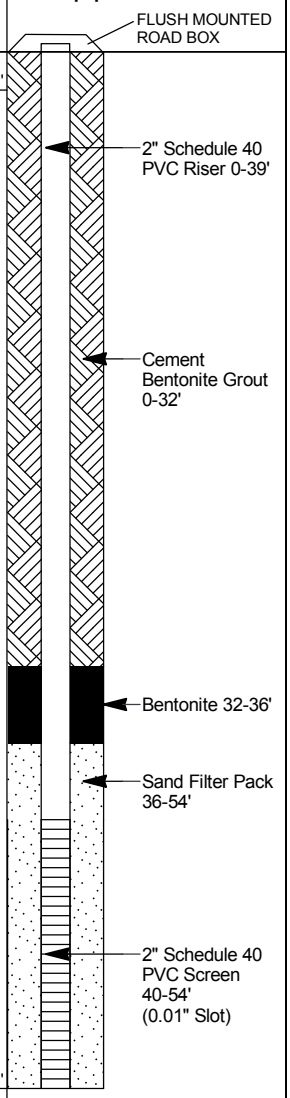
Sampler Type: N/A
I.D./O.D (in.):
Sampler Hmr Wt:
Sampler Hmr Fall:
Other:

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time
4/7/14	1528	37.20'		2.5 hrs
4/8/14	0830	36.90'		18.5 hrs

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Pen. (in)	Rec. (in)	Blows (per 6 in.)	SPT Value	Sample Description Modified Burmister	Remark	Field Test Data	Stratum Depth (ft)	Stratum Description	Stratum Elev. (ft)
		S-1	0-2					S-1: Brown, fine to coarse GRAVEL,	1		2'	FILL	
		S-2	2-54					some fine to coarse Sand, little Silt.	2				
5								S-2: Light brown, SILT, trace fine to	3				
								medium Sand.					
10													
15													
20													
25													
30												SAPROLITE	
35													
40													
45													
50													
55								Bottom of boring at 54 feet.			54'		
60													

Equipment Installed



REMARKS

1. All sample descriptions are from hand auger spoils or drill cuttings.
2. Hand augered to 2 feet.
3. 2-inch Schedule 40 PVC Cap at bottom of well.

See log key for explanation of sample descriptions and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: GZ-701L

24065.14 IB IMPLEMENTATION - SAN GERMAN PR 2014.GPJ; STANDARD BORING W/E W/O SMPL 2PG; 9/25/2014

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Former Hewlett-Packard Facility
Intrinsic Biodegradation Implementation
San German, Puerto Rico

BORING NO.: GZ-701R
SHEET: 1 of 1
PROJECT NO: 01.0024065.14
REVIEWED BY: JAC

Drilling Co.: Complete Well
Foreman: A. Delong
Logged By: Jessica Yeager

Type of Rig: Air Rotary
Rig Model: T-650-WII
Drilling Method: Air Rotary

Boring Location: See Plan
Ground Surface Elev. (ft.):
Final Boring Depth (ft.): 75
Date Start - Finish: 4/9/2014 - 4/9/2014

H. Datum:
V. Datum:

Auger/Casing Type: Air Rotary
I.D./O.D.: 10" to 40' & 7-7/8" 40-75'
Hmr Weight (lb.): N/A
Hmr Fall (in.):
Other:

Sampler Type: N/A
I.D./O.D (in.):
Sampler Hmr Wt:
Sampler Hmr Fall:
Other:

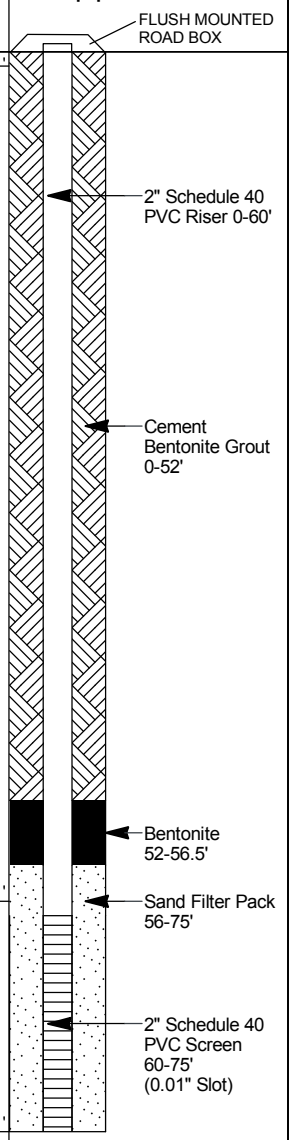
Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time
4/9/14	1546	35.20'		2 hrs
4/10/14	0810	35.80'		18.5 hrs

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Pen. (in)	Rec. (in)	Blows (per 6 in.)	SPT Value	Sample Description Modified Burmister	Remark	Field Test Data
		S-1	0-1					S-1: Brown, fine to coarse GRAVEL,	1	
		S-2	1-58					some fine to coarse Sand, little Silt.	2	
								S-2: Light brown, SILT, trace fine to	3	
								medium Sand.	4	
10										
20										
30										
40										
50										
60								58-71': Brown, SILT, little fine to medium Sand.		
70								71-75': Gray, fine to coarse SAND, some Silt.		
80								Bottom of boring at 75 feet.		

Depth (ft)	Stratum Description	Elev. (ft)
1'	FILL	
	SAPROLITE	
59'	BEDROCK	
75'		

Equipment Installed



REMARKS

1. All sample descriptions are from hand auger spoils or drill cuttings.
2. Hand augered to 1.5 feet.
3. Steel casing was installed to approximately 40 feet during drilling and removed after well placement.
4. 2-inch Schedule 40 PVC Cap at bottom of well.

See log key for explanation of sample descriptions and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: GZ-701R

24065.14 IB IMPLEMENTATION - SAN GERMAN PR 2014.GPJ; STANDARD BORING W/E W/O SMPL 2PG; 9/25/2014

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Former Hewlett-Packard Facility
Intrinsic Biodegradation Implementation
San German, Puerto Rico

BORING NO.: GZ-702U
SHEET: 1 of 1
PROJECT NO: 01.0024065.14
REVIEWED BY: JAC

Drilling Co.: Complete Well
Foreman: A. Delong
Logged By: Jessica Yeager

Type of Rig: Air Rotary
Rig Model: T-650-WII
Drilling Method: Air Rotary

Boring Location: See Plan
Ground Surface Elev. (ft.):
Final Boring Depth (ft.): 28
Date Start - Finish: 4/10/2014 - 4/10/2014

H. Datum:
V. Datum:

Auger/Casing Type: Air Rotary
I.D./O.D.: 10" to 21' & 7-7/8" 21-28'
Hmr Weight (lb.): N/A
Hmr Fall (in.):
Other:

Sampler Type: N/A
I.D./O.D (in.):
Sampler Hmr Wt:
Sampler Hmr Fall:
Other:

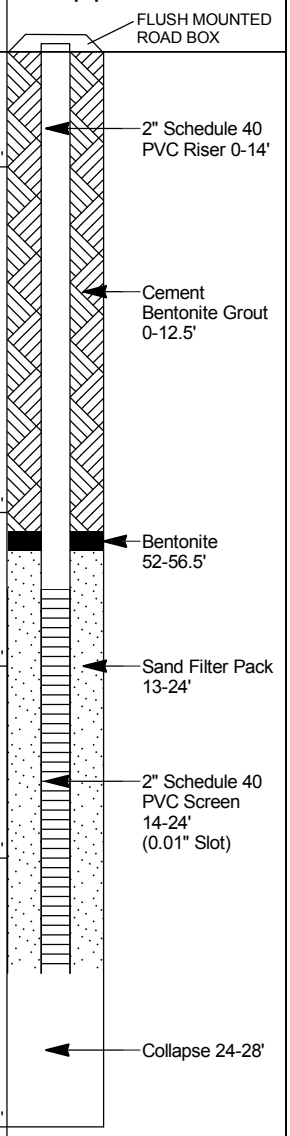
Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time
4/11/14	1130	12.50'		

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Pen. (in)	Rec. (in)	Blows (per 6 in.)	SPT Value	Sample Description Modified Burmister	Remark	Field Test Data
		S-1	0-3					S-1: Dark brown, Clayey SILT, trace fine to coarse Sand, trace Organics.	1 2 3	
		S-2	3-12					S-2: Brown, fine to coarse SAND, some Silt, little Gravel.	4	
		S-3	12-16					S-3: BOULDER		
		S-4	16-22					S-4: Brown, fine to coarse SAND, some Silt, little Gravel.		
		S-5	22-25					S-5: Light brown, Clayey SILT, little fine to coarse Sand.		
								Bottom of boring at 28 feet.		

Depth (ft)	Stratum Description	Elev. (ft)
0–3'	TOPSOIL	
3–12'	ALLUVIUM	
12–16'	BOULDER	
16–21'	ALLUVIUM	
21–28'	SAPROLITE	

Equipment Installed



REMARKS

1. All sample descriptions are from hand auger spoils or drill cuttings.
2. Hand augered to 42 inches.
3. Steel casing was installed to approximately 21 feet during drilling and removed after well placement.
4. 2-inch Schedule 40 PVC Cap at bottom of well.

See log key for explanation of sample descriptions and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: GZ-702U

24065.14 IB IMPLEMENTATION - SAN GERMAN PR 2014.GPJ; STANDARD BORING W/E W/O SMPL 2PG; 10/7/2014

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Former Hewlett-Packard Facility
Intrinsic Biodegradation Implementation
San German, Puerto Rico

BORING NO.: GZ-703R
SHEET: 1 of 1
PROJECT NO: 01.0024065.14
REVIEWED BY: JAC

Drilling Co.: Complete Well
Foreman: A. Delong
Logged By: Jessica Yeager

Type of Rig: Air Rotary
Rig Model: T-650-WII
Drilling Method: Air Rotary

Boring Location: See Plan
Ground Surface Elev. (ft.):
Final Boring Depth (ft.): 52
Date Start - Finish: 4/12/2014 - 4/12/2014

H. Datum:
V. Datum:

Auger/Casing Type: Air Rotary
I.D./O.D.: 12" to 20' & 7-7/8" 20-52'
Hmr Weight (lb.): N/A
Hmr Fall (in.):
Other:

Sampler Type: N/A
I.D./O.D (in.):
Sampler Hmr Wt:
Sampler Hmr Fall:
Other:

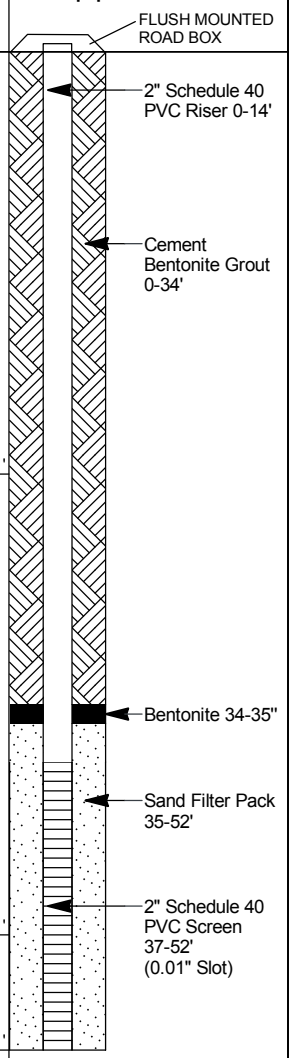
Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time
4/12/14	1500	22'		~ 1 hr

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Pen. (in)	Rec. (in)	Blows (per 6 in.)	SPT Value	Sample Description Modified Burmister	Remark	Field Test Data
		S-1	0-22					S-1: Light brown, SILT, little fine to coarse Sand.	1 2 3 4	
								Bottom of boring at 52 feet.		

Depth (ft)	Stratum Description	Elev. (ft)
	SAPROLITE	
22'	HIGHLY FRACTURED BEDROCK (ANDESITE)	
46'	BEDROCK	
52'		

Equipment Installed



REMARKS

1. All sample descriptions are from hand auger spoils or drill cuttings.
2. Hand augered to 30 inches.
3. Steel casing was installed to approximately 20 feet during drilling and removed after well placement.
4. 2-inch Schedule 40 PVC Cap at bottom of well.

See log key for explanation of sample descriptions and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: GZ-703R

24065.14 IB IMPLEMENTATION - SAN GERMAN PR 2014.GPJ; STANDARD BORING W/E W/O SMPL 2PG; 9/25/2014

APPENDIX H

RESPONSE TO EQB COMMENTS

HP's Response to EQB's Comments
on
Semi-Annual Project Progress Report: July (Q3) through December (Q4) 2013
Voluntary Remediation Project
Hewlett-Packard Company (HP)
San German, Puerto Rico
PRD991291857
prepared by
GZA GeoEnvironmental, Inc. (GZA) of
Norwood, Massachusetts

The following comments are from a review of the aforementioned report from Lorna M. Rodríguez Díaz, Acting Manager of the Land Pollution Control Area (LPCA) division of the Puerto Rico Environmental Quality Board (EQB) dated June 4, 2014.

EQB Findings:

1) Based on the Chains of Custody (COCs) all the requested analysis were completed, except for the Dissolved Iron fraction of Field Sample OW-402U (Lab ID Number 640-45642-4). In this case, the collection of this fraction was not possible because the monitoring well had insufficient volume of water at the time of sample collection. A note for this deviation was made in the COCs corresponding to the samples collected on October 31, 2014. This is corroborated in the OW-402U Sample Results Sheet since it does not contain results for Dissolved Iron.

   Response

   HP agrees.

2) Notice that there was a discrepancy in the COC regarding the matter in the above finding 1, the Job Narrative of the Analytical Report and the "Client Sample Results" Sheet (CSRS) corresponding to Field Sample OW-402U. In this case the Job Narrative of the Analytical Report indicated that the sample was not analyzed for RSK-175 when in fact the sample was analyzed for this parameter, but not analyzed for Dissolved Iron due to the insufficient water volume obtained from the well. This was in fact what the COC indicates and the CSRS shows for this sample.

   Response

   The job narrative stated this: "Method RSK-175: No sample volume was received for RSK-175 analysis for the following sample: 640-45642-4 (OW-402U). One 40mL vial labeled for 8260 was used for RSK-175 analysis." It does not state that OW-402U was not analyzed for RSK-175. It states that the vial that was used for the RSK-175 analysis was labeled for 8260 analysis.

There is no discrepancy with the Job Narrative and the CSRS based on our review. More care will be taken in the future to avoid bottle mislabeling.

3) The COC showed that TOC fractions for samples OW-305I Dup and Equipment Blank 640-45642-9 collected on October 31, 2013 were shipped to the laboratory (TALI); however, TALI indicated in the report job narrative that these fractions were not received.

Response

The job narrative stated this: "Method SM 5310C: The following samples were listed on the Chain of Custody (COC) for TOC analysis; however, no sample containers were received: 640-45593-10 (OW-305I DUP) and 640-45642-9 (Equipment Blank). The client was notified and confirmed that TOC is not required for these samples." The COC was inadvertently marked for TOC even though it should not have been. More care will be taken in the future to avoid COC errors.

4) According to the COCs corresponding to the samples collected on October 30 and 31, 2013, were not received at the TALI at 4°C. Instead the temperature blank in both coolers were 7.1 °C and 9.3°C, respectively. Nevertheless, the samples collected and shipped on October 30, 2013 were received at TALI at 4°C. This incident was detailed in the Job Narrative of the Analytical Report. The samples affected by this were the following:

Field Sample ID	Lab ID Number	Collection Date
OW-307	640-45642-3	10/31/2013
OW-402U	640-45642-4	10/31/2013
GZ-506R	640-45642-5	10/31/2013
OW-102	640-45642-6	10/31/2013
Field Blank	640-45619-7	10/30/2013
Trip Blank	640-45619-8	10/30/2013
Field Blank	640-45642-1	10/31/2013
Trip Blank	640-45642-2	10/31/2013
OW-304R	640-45642-7	10/31/2013
Equipment Blank	640-45642-9	10/31/2013
OW-304L	640-45642-7	10/31/2013

Response

Samples collected and shipped on October 29, 2013 were received at TALI at 4.0°C on October 30, 2013. Samples collected and shipped on October 30, 2013 were received at TALI at 7.1°C on October 31, 2013. Samples collected and shipped on October 31, 2013 were received at TALI at 9.3°C on November 1, 2013. For the April 2014 sampling event, the use of additional coolers and more ice as needed was successful at keeping the samples below 6°C at the time of

sample receipt. The use of additional coolers and ice as needed will be employed for future sampling events as well.

5) No contaminants were detected in any of the Trip Blanks and Field Blanks collected during the sampling event; however, trichloroethene was detected in the Equipment Blank collected on October 31, 2014 (Lab ID Number 640-45642-9) at a concentration of 0.30 µg/L.

Response

HP is investigating alternative and additional decontamination procedures. HP notes that the reported trichloroethene concentration in the one equipment blank that indicated a detectable level is well below the Puerto Rico Water Quality Standard (PRWQS) of 5.0 µg/l and the other benchmarks listed below.

6) The following table is a summary of the samples showing concentrations of Contaminants of Concern above the method detection limit (MDL), the Regional Screening Levels for Tap water, the PREQB Puerto Rico Water Quality Standards, and/or the Maximum Contamination Levels. *[The table has not been reproduced here.]*

Response

The table presented by EQB is generally accurate, except Field ID "503L" should be "GZ-503L" and Field ID "GZ-519" should be "GZ-519U." Additionally, "J" qualifiers are missing from the trichloroethene and vinyl chloride results for OW-305I, OW-305I DUP, and OW-403L DUP; the trichloroethene result for OW-101; and the cis-1,2-dichloroethene results for OW-305I DUP, OW-101, and OW-403L DUP. These qualifiers were added based on the data validation and were not included in the laboratory report. Only a select group of detected analytes were reported in the EQB table for the listed Field IDs.

7) The contaminant of concern cis-1, 2-dichloroethylene was not included in the VOC compounds list of the "Client Sample Results" Sheet (CSRS) corresponding to samples OW-404R, WB-1L, OW-304L, and OW-304R. This needs to be clarified since the CSRS corresponding to the rest of the samples contains this analyte in the list.

Response

For samples OW-404R, WB-1L, OW-304L, and OW-304R, cis-1,2-dichloroethene is included in the appropriate CSRS. The results are presented separately, but immediately following, the other cVOCs because different dilutions were analyzed as needed.

EQB Recommendations:

8) Discrepancies on the information in COCs, the Job Narrative of the Analytical Report, and the CSRS such as those indicated in the above Finding #2 should be avoided.

Response

Where applicable, more care will be taken to avoid discrepancies in labelling sample bottles. There were no discrepancies in the Job Narrative or the CSRS based on our review.

9) Discrepancies in COCs such as the one in the above Finding #3 should be avoided. In this case the COC indicated that fractions for specific analyses were collected and shipped to the laboratory when in fact this was not done. Nevertheless, TALI indicated in the report job narrative that these fractions were not received.

Response

Where applicable, more care will be taken to avoid discrepancies in the COCs. There were no discrepancies in the Job Narrative or the CSRS based on our review.

10) For future sampling event, the sample custodian and/or person in charge of preparing the cooler must ensure that enough ice in placed inside the coolers to ensure sample integrity and arrival at the laboratory at the required temperature (i.e., 4°C ±2°C). If samples cannot be shipped on the day of collection, the sample temperature should be maintained at 4°C (±2°C) until they are shipped to the laboratory. It is also recommended that when this kind of problems are reported by the laboratory, the semi-annual report include a section documenting the situation and stating corrective action to be taken to avoid future recurrence.

Response

More care will be taken to ensure arrival of samples at the appropriate temperature. While the semi-annual report currently documents the situation and states corrective action in the data validation appendix, if this happens in the future, it will be added to the main text.

11) Since trichloroethene was detected in the Equipment Blank above the MDL, which is one of the contaminants of concern for this project, the submersible pump decontamination procedure should be re-evaluated to avoid this in future sampling events. It is also recommended that when this kind of problems are reported by the laboratory, the semi-annual report include a section documenting the situation and stating corrective action to be taken to avoid future recurrence.

Response

HP is investigating alternative and additional decontamination procedures. While the semi-annual report currently documents the situation and states corrective action in the Data Validation appendix, if this happens in the future, it will be added to the main text. In the current semi-annual report, it is documented in Section 7.5 of the main text. We note that the reported concentration in the one equipment blank that indicated a detectable level is well below any concentration of concern with respect to risk characterization or remedial issues at the Site.

12) The reason for not including the contaminant of concern cis-1,2-dichloroethylene in the VOC compounds list of the "Client Sample Results" Sheet (CSRS) corresponding to samples OW-404R, WB-1L, OW-304L, and OW-304R, should be clarified.

Response

For samples OW-404R, WB-1L, OW-304L, and OW-304R, cis-1,2-dichloroethene is included in the appropriate CSRS. The results are presented separately, but immediately following, the other cVOCs because different dilutions were analyzed as needed.

13) Whenever filling COCs the omission of any information, including failing to list of any samples collected, or any other information required, must be avoided.

Response

Where applicable, more care will be taken to avoid discrepancies in the COCs.

Conclusions:

Based on our evaluation we conclude that the analytical data submitted with the report met most of the general QA/QC requirements established for the SW-846 test method used and the PREQB Land Pollution Control Standard Operating Procedure for the Analytical Data Review (PREQB- LPRP-SOP-03, Effective Date: March 2003). Also, that according to the qualifications presented at the Validations Reports and based on the general analytical data review process, the data can be used for its intended purpose.

Response

HP agrees.