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REMEDIATION SYSTEM EVALUATION REPORT
JANUARY THROUGH MARCH 2010
FORMER GENERAL MOTORS CORPORATION
ALLISON GAS TURBINE DIVISION, PLANT 10
700 NORTH OLIN AVENUE
INDIANAPOLIS, INDIANA
IDEM VRP #6991004
KERAMIDA PROJECT NO. 2829E

Submitted to:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Ms. Erin Brittain, Project Manager
Voluntary Remediation Program
Office of Land Quality
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Submitted for:

GENUINE PARTS COMPANY
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June 24, 2010

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EXECUTIVE SUMMARY

KERAMIDA Inc. was contracted by the Genuine Parts Company to design and implement remediation to mitigate groundwater contamination at the former General Motors Corporation, Allison Gas Turbine Division, Plant 10 (Site) located at 700 North Olin Avenue, Indianapolis, Indiana. This report documents information collected during remediation activities from January through March 2010 and evaluates remediation performance.

Overall, the combination of remedial system operation, reductive dechlorination and waste/soil excavation activities have contributed to the reduction of both on- and off-Site groundwater contamination levels. Groundwater plume stability evaluation activities indicate stable and/or decreasing trends in wells, except for MW-148R.

Currently, the Southwest System is the last active remedial system in operation. For the 6th consecutive quarter, groundwater VOC concentrations are below their respective closure levels in the area (MW-133R and 153) of this system and the groundwater plume stability evaluation indicates a decreasing trend in MW-153 for both Cis-1,2-Dichloroethene and Trichloroethene. KERAMIDA recommends the suspension of continued operation of the Southwest System. KERAMIDA further recommends that current groundwater monitoring activities continue for a minimum of two quarters with the Southwest System shut down to verify that groundwater continues to have stable and/or decreasing trends and to see what affect, if any, groundwater contamination from MW-148R may have on the Southwest System area (MW-153). Once data from the additional quarters of groundwater monitoring are evaluated, KERAMIDA recommends that the IDEM, Genuine Parts and KERAMIDA meet to discuss the next steps of the project.

TABLES OF CONTENTS

1.0 INTRODUCTION 1

2.0 SITE BACKGROUND 1

3.0 CONTAMINANTS OF CONCERN AND CLEANUP CRITERIA 2

4.0 REMEDIATION SYSTEM OVERVIEW 3
4.1 AS / SVE SYSTEM 4
4.2 PHYTOREMEDIATION SYSTEM 4
4.3 EAST OFF-SITE AREA BIOREMEDIATION SYSTEM 5

5.0 REMEDIATION SYSTEM MONITORING PLAN 5
5.1 AS/SVE SYSTEMS 5
5.2 PHYTOREMEDIATION SYSTEM 5
5.3 SELECTIVE ON-SITE GROUNDWATER MONITORING 6
5.4 ON-SITE GROUNDWATER MONITORING 6
5.5 ON AND OFF-SITE GROUNDWATER MONITORING 7
5.6 EAST OFF-SITE AREA BIOREMEDIATION GROUNDWATER MONITORING .. 8

6.0 IMPLEMENTATION AND MONITORING OF REMEDIATION SYSTEM 8
6.1 AS/SVE SYSTEMS 8
6.1.1 East System 8
6.1.2 Northwest System 9
6.1.3 Southwest System 10
6.1.4 Liquid Waste Management 13
6.2 PHYTOREMEDIATION SYSTEM 13
6.3 EAST OFF-SITE AREA BIOREMEDIATION SYSTEM 13
6.4 SELECTIVE ON-SITE GROUNDWATER MONITORING 14
6.4.1 East System and Associated Monitoring Wells 14
6.4.2 Northwest System and Associated Monitoring Wells 14
6.4.3 Southwest System and Associated Monitoring Wells 15
6.5 ON-SITE GROUNDWATER MONITORING 15
6.6 ON AND OFF-SITE GROUNDWATER MONITORING 15
6.7 EAST OFF-SITE AREA BIOREMEDIATION GROUNDWATER MONITORING 16
6.8 GROUNDWATER PLUME STABILITY EVALUATION 16

7.0 CONCLUSIONS 18

8.0 USE OF REPORT 19

9.0 LIMITATIONS 19

TABLES

1. Water Level Data Summary
2a. Shallow Monitoring Well Groundwater Analytical Results for VOCs (μg/L)
2b. Deep Monitoring Well Groundwater Analytical Results for VOCs (μg/L)
3. East Off-Site Bioremediation Field Parameter and Select Groundwater Analytical Results
4. Trend Analysis - Eastern Source Plume Stability Groundwater Monitoring Locations
5. Trend Analysis - East Off-Site Area Bioremediation Groundwater Monitoring Locations
6. Trend Analysis - Western Source Plume Stability Groundwater Monitoring Locations

FIGURES

1. Site Location Map
2. Site Map
3. Expanded Site Map
4. Remediation System Layout with Utilities
5. Supplemental Remediation System Layout in “Hot Spot”
6. Groundwater Monitoring Plan
7. Groundwater Potentiometric Surface Map - Shallow Wells, January 2010
8. Groundwater Potentiometric Surface Map - Deep Wells, January 2010

ATTACHMENTS

1. January through March 2010 - Operation & Maintenance Logs
2. January 2010 - Performance Data Log
3. January through March 2010 - Vapor Analytical Reports and Discharge Calculations
4. January 2010 - Phytoremediation System Inspection Checklist
5. January 2010 - Groundwater Sample Information Sheets
6. January 2010 - Groundwater Analytical Report
7. Mann Kendall Trend Analysis

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1.0 INTRODUCTION

KERAMIDA Inc. (KERAMIDA) was contracted by the Genuine Parts Company (Genuine Parts) to design and implement remediation to mitigate identified groundwater contamination at the former General Motors Corporation, Allison Gas Turbine Division (AGT) Plant 10 in Indianapolis, Indiana (Site). Regulatory closure of the Site is being administered through the Indiana Department of Environmental Management (IDEM) Voluntary Remediation Program (VRP). The purpose of this report is to evaluate the progress of the implemented Final Remediation Work Plan (Final RWP) at the Site as modified/approved in the IDEM's Modified RWP Approval letter, dated March 22, 2005. This report summarizes the following information:

- Site Background
- Contaminants of concern and cleanup criteria
- Design and installation of the remediation system
- Remediation system monitoring plan
- Implementation and monitoring of the remediation system, including general operation & maintenance and performance data, operational parameters, evaluation and recommendations/future activities for each remediation system.

2.0 SITE BACKGROUND

The subject property is located at 700 North Olin Avenue, Indianapolis, Marion County, Indiana (see Figure 1). The property is the former Site of the General Motors Corporation, Allison Gas Turbine Division (AGT) Plant 10. Between 1956 and 1973, BHT Corporation (BHT) operated the facility for carburetor and brake re-manufacturing. General Motors purchased the property from BHT in 1973 and used the facility for warehousing obsolete machines, tooling, and fixtures until the mid-1980s, at which time the property became part of the AGT Division. BHT became part of Genuine Parts, through acquisition and merger, subsequent to the sale of the property to

General Motors. AGT continued to use the facility for warehousing until December 1993 when the property was sold to the Allison Engine Company (AEC). AEC sold the facility to Associated Properties, Inc. in 1998. Associated Properties, Inc. sold the facility to American Art Clay Company, Inc. in 2002, who is the current property owner. Maps showing salient Site features are presented in Figure 2 – Site Map and Figure 3 - Expanded Site Map.

3.0 CONTAMINANTS OF CONCERN AND CLEANUP CRITERIA

Identified contaminants of concern (COC) requiring in-situ remediation include volatile organic compounds (VOC) such as trichloroethene (TCE) and daughter products. Polynuclear aromatic hydrocarbons (PAHs) and three metals (cadmium, chromium, and lead) were other COC but have been addressed by previously completed remediation activities. Indiana VRP Tier II Non-Residential Cleanup Goals for on-Site soil and groundwater and Indiana VRP Tier II Residential Cleanup Goals for off-Site soil and groundwater were used as screening levels to complete Site investigation activities. Two primary source areas of contamination were identified on-Site and are referred to as the eastern source area and the western source area. A small anomalous area of TCE occurrence was also noted in groundwater to the east of the Site across Olin Avenue. A complete summary of on- and off-Site investigation activities were documented in Section 4.0 of the Final RWP dated and submitted to the IDEM on August 16, 2004.

Using the results of the human health and ecological screenings, documented in Sections 4.6 and 5.0 of the Final RWP, the Indiana VRP Tier II Non-Residential Cleanup Goals for subsurface soil and groundwater were selected as the cleanup criteria for Site soils and groundwater (Section 6.0 of Final RWP). Per the IDEM Modified RWP Approval letter, the Indiana VRP Tier II Residential Cleanup Goals are the current cleanup criteria for VOCs in off-Site groundwater attributable to the Site. Because potable water is provided to the area by municipal water supply and the Site vicinity is located in a Marion County No Well Zone, which restricts the installation of water supply wells, the potential for exposure to impacted groundwater is limited.

Off-Site VOC reduction will be monitored for a period of seven years. Should the off-Site concentrations of the VOCs attributable to the Site be reduced to their respective Indiana VRP Tier II Residential Cleanup Goals during the seven year monitoring period, then remediation will be considered complete following four quarters of confirmation sampling. During the seven-year monitoring period, Genuine Parts will work on the establishment of further institutional

control(s) (IC) acceptable to the IDEM that are more restrictive than the current Marion County No Well Zone. If further IC(s) acceptable to the IDEM are secured prior to the end of the seven-year monitoring period, then monitoring will continue during that period to confirm an Indiana VRP Tier III Closure using plume stability. However, if off-Site groundwater cleanup below the Indiana VRP Tier II Residential Cleanup Goals is not achieved or more restrictive IC(s) acceptable to the IDEM cannot be secured, all during the seven-year monitoring period, then an alternate remedy will be identified and implemented.

4.0 REMEDIATION SYSTEM OVERVIEW

Overall remediation consists of source area Air Sparge/Soil Vapor Extraction (AS/SVE) Systems and a Phytoremediation System. The AS/SVE Systems were installed to address groundwater VOC contamination in the eastern and western source areas. The AS/SVE Systems were installed from May 2000 through July 2001 and became operational in July 2001. The Phytoremediation System was installed along the entire southern property boundary of the Site in September 2000 to further mitigate groundwater VOC contamination. A complete summary of the selection, design, and installation of the remediation system was documented in Section 8.2 of the Final RWP. The Final RWP also identified a plan to extend the western source area AS/SVE System to remediate a VOC soil "hot spot." Expansion included the installation of the four nested SVE wells, associated subsurface piping, and their connection to the AS/SVE System during the period of August 25 through September 18, 2003. The expansion is documented in Section 8.3 of the Final RWP.

As a protective measure, the east off-Site TCE contaminated area is being remediated by reductive dechlorination to health protective levels. Reductive dechlorination is enhancing the naturally occurring processes of degradation. Natural reductive dechlorination takes place in most subsurface systems due to the presence of microbes, which break down the contaminants to harmless constituents. The goal of reductive dechlorination is to enhance the natural processes by the addition of a food source for the microbes. This food source usually consists of a substance with high carbon content. Reductive dechlorination is ideally suited for sites where chlorinated solvents are present and where field indications suggest that natural attenuation is already taking place. A corn syrup injection system was installed in March 2004 after a bench-scale "microcosm" test was completed determining appropriate dosing concentrations. A full

description of the reductive dechlorination process, injection system installation, and the microcosm study is documented in Section 8.2 of the Final RWP.

4.1 AS / SVE SYSTEM

AS/SVE Systems were designed and constructed in phases to aggressively reduce the two separate VOC groundwater plumes on-Site, control off-Site migration, and reduce concentrations in the VOC soil "hot spot." The AS/SVE System consists of a total of 44 air sparging and 35 soil vapor extraction wells. The AS/SVE System is separated into two western treatment units (Northwest & Southwest Systems) and one eastern treatment unit (East System). Each treatment unit is serviced by separate equipment. The equipment for the two western treatment units is housed in one enclosure/trailer. The equipment for the eastern treatment unit is housed in a separate enclosure/trailer. The following table summarizes the AS/SVE System and its associated components:

Components	Northwest System	Southwest System	East System
SVE Wells	SVE – 1 through 7	SVE-8 through 17 & 28s/d, 29s/d, 31s/d, and 32s/d	SVE-18 through 27
ASV's and Corresponding AS Wells	ASV-1 (AS-1 to 4) ASV-2 (AS-5 to 7) ASV-3 (AS-8 to 10)	ASV-4 (AS-11 to 14) ASV-5 (AS-15 to 19) ASV-6 (AS-20 to 24) ASV-7 (AS-25 to 29)	ASV-8 (AS-30 to 35) ASV-9 (AS-36 to 40) ASV-10 (AS-41 to 44)

ASV = Air Sparging Vault

A layout of the AS/SVE System can be found on Figure 4 - Remediation System Layout with Utilities and Figure 5 - Supplemental Remediation System Layout in "Hot Spot."

4.2 PHYTOREMEDIATION SYSTEM

Phytoremediation is the use of various plants to remediate environmental media. Phytoremediation has been proven to be effective in the remediation of soil, sediment, groundwater, and surface water contaminated with organic and inorganic chemicals. Phytoremediation applications clean up contaminated media by degrading, extracting, containing, and/or immobilizing the contaminants. In September 2000, phytoremediation was incorporated as part of the Remediation System. It is composed of two staggered rows of hybrid poplar trees, on 5-foot centers, that line the entire southern property boundary. The purpose is to further control the off-Site migration of groundwater COC. Spacing between the rows is a minimum of

8 feet. A layout of the phytoremediation design in place along the southern property boundary can be found on Figure 4 - Remediation System Layout with Utilities.

4.3 EAST OFF-SITE AREA BIOREMEDIATION SYSTEM

The east off-Site TCE contaminated area is being remediated by reductive dechlorination. The corn syrup injection system consists of two permanent injection wells, IW-1 and IW-2 installed near MW-163 and in the right of way on the west side of Olin Avenue, on the centerline of Walnut Street. The injection system also consists of ten temporary injection points, all located within the TCE contaminated area. MW-173 was installed approximately 30 feet southeast of existing MW-163 to monitor the treatment process. Existing MW-151 and 156 are used as downgradient sentry wells to monitor the extent of the plume. Permanent well locations are depicted on Figure 3 - Expanded Site Map.

5.0 REMEDIATION SYSTEM MONITORING PLAN

A brief summary of the remediation system monitoring plan is described in this section. A complete summary of the remediation system monitoring plan is documented in Section 8.4 of the Final RWP. Also, please refer to Section 9.0 Operation and Maintenance Plan and the Quality Assurance Project Plan found as Attachment 7 in the Final RWP for complete details.

5.1 AS/SVE SYSTEMS

Weekly Site visits have been made to monitor the AS/SVE Systems operation, to collect performance indicators, and to conduct routine maintenance. Monthly effluent vapor samples have been collected from each SVE blower and submitted for laboratory analysis for VOCs.

The AS/SVE Systems began operating in July 2001. A description of these systems and monitoring details are provided in Section 6.0 Implementation and Monitoring of Remediation System of this report.

5.2 PHYTOREMEDIATION SYSTEM

Monthly inspections are conducted during the growing season and quarterly inspections are conducted throughout the dormant period of each year. The growing season for the Site is from April through October. If any trees show signs of distress, disease, or other abnormalities,

corrective actions are taken. Inspection details are provided in Section 6.0 Implementation and Monitoring of Remediation System of this report.

Leaf tissue and transpiration gas sampling and analysis for VOCs, from three randomly selected trees, are to be conducted in June and September of each year to coincide with the early and late stages of the growing season. The results of tissue and gas sampling and analysis are used to evaluate the physical and chemical mechanisms at work in the remediation system, the potential for risk to ecological receptors from exposure to COC-containing plant tissues, and potential COC concentrations released to ambient air in the remediation area. Monitoring details are provided in Section 6.0 Implementation and Monitoring of Remediation System of this report.

5.3 SELECTIVE ON-SITE GROUNDWATER MONITORING

The 26th round of quarterly on-Site groundwater monitoring was conducted in January 2010 from seven monitoring wells: MW-10-1R, 132R, 133R, 147AR, 148R, 150 and 153. Samples were analyzed in the field for pH, dissolved oxygen, temperature, specific conductivity, and reduction/oxidation (redox) potential. Samples collected for laboratory analysis were analyzed for VOCs at Data Quality Objective (DQO) Level II. The analytical results will aid in the evaluation of progress being made by the remediation system. Monitoring details are provided in Section 6.0 Implementation and Monitoring of Remediation System of this report. See Figure 6, Groundwater Monitoring Plan for locations of monitoring wells.

Once the analytical results for all seven monitoring wells from four consecutive quarterly groundwater sampling events display asymptotic behavior near or drops below the Indiana VRP Tier II Non-Residential Closure Goals for VOCs, the remediation system will be shut down and selective monitoring will end.

5.4 ON-SITE GROUNDWATER MONITORING

The 8th round of annual on-Site groundwater monitoring will be conducted in November 2010 from 11 monitoring wells: MW-10-1R, 132R, 133R 135, 145, 146, 148R, 150, 152, 153 and 154. Samples will be analyzed in the field for pH, dissolved oxygen, temperature, specific conductivity, and redox potential. Samples collected for laboratory analysis will be analyzed for VOCs, PAHs, cadmium, total chromium and lead at DQO Level II. The analytical results will be used to evaluate the status of the on-Site attainment of the Indiana VRP Tier II Non-Residential Closure Goals for VOCs, PAHs, cadmium, total chromium, and lead. Monitoring details are

provided in Section 6.0 Implementation and Monitoring of Remediation System of this report. See Figure 6 - Groundwater Monitoring Plan for locations of monitoring wells.

Once the remediation system has been shut down as described in Section 5.3, sampling will change from annual to quarterly events and samples will be analyzed at a DQO Level IV for groundwater confirmation purposes. Once the analytical results in all 11 monitoring wells from four consecutive quarterly groundwater sampling events display asymptotic behavior near or drops below the Indiana VRP Tier II Non-Residential Closure Goals for VOCs, PAHs, cadmium, total chromium and lead, on-Site remedial objectives will be attained and the IDEM will be petitioned for on-Site closure.

5.5 ON AND OFF-SITE GROUNDWATER MONITORING

The 26th round of quarterly on and off-Site groundwater monitoring was conducted in January 2010 from 22 monitoring wells: MW-10-1R, 132R, 146, 148R, 150, 151, 152, 153, 156, 157, 160, 161, 164, 165S, 165D, 166S, 166D, 167S, 167D, 169S, 169D, and 302. Samples were analyzed in the field for pH, dissolved oxygen, temperature, specific conductivity, and redox potential. Samples collected for laboratory analysis were analyzed for VOC at DQO Level IV. The analytical results will aid in the evaluation of off-Site natural attenuation and plume stability. Monitoring details are provided in Section 6.0 Implementation and Monitoring of Remediation System of this report. See Figure 6 - Groundwater Monitoring Plan for locations of monitoring wells.

Off-Site VOC concentrations are being monitored quarterly for a seven-year period. Should the off-Site concentrations of the VOCs attributable to the Site be reduced to their respective Indiana VRP Tier II Residential Cleanup Goals during the seven year monitoring period, then remediation will be considered complete following four quarters of confirmation sampling. During the seven-year monitoring period, Genuine Parts will work on the establishment of further institutional control(s) (IC) acceptable to the IDEM that are more restrictive than the current Marion County No Well Zone. If further IC(s) acceptable to the IDEM are secured prior to the end of the seven-year monitoring period, then monitoring will continue during that period to confirm an Indiana VRP Tier III Closure using plume stability. However, if off-Site groundwater cleanup below the Indiana VRP Tier II Residential Cleanup Goals is not achieved or more restrictive IC(s) acceptable to the IDEM cannot be secured, all during the seven-year monitoring period, then an alternate remedy will be identified and implemented.

5.6 EAST OFF-SITE AREA BIOREMEDIATION GROUNDWATER MONITORING

The 29th round of east off-Site area bioremediation groundwater monitoring was conducted in January 2010 from six monitoring wells: IW-1, IW-2, MW-151, 156, 163, and MW-173. Samples were analyzed in the field for pH, dissolved oxygen, temperature, specific conductivity, and redox potential. Samples collected for laboratory analysis were analyzed for VOCs and total organic carbon (TOC) by EPA Method 415.1 at DQO Level II. Monitoring details are provided in Section 6.0 Implementation and Monitoring of Remediation System of this report. See Figure 6 - Groundwater Monitoring Plan for locations of monitoring wells. The analytical results from the groundwater sampling from these wells will be used to evaluate the progress of the east off-Site area bioremediation system.

6.0 IMPLEMENTATION AND MONITORING OF REMEDIATION SYSTEM

The project goal is to ensure continued operation of the groundwater remediation system and to maintain and operate it in the most efficient manner possible.

6.1 AS/SVE SYSTEMS

Operational parameters and performance data, maintenance activities, operational evaluation, and recommendations/future activities for each on-Site source area of the AS/SVE System are detailed below. O&M Logs from January through March 2010 are provided in Attachment 1 and Operational Logs with performance data are provided in Attachment 2.

6.1.1 East System

As discussed in Section 6.1.1 of the Remediation System Evaluation Report, October through December 2005, dated February 14, 2006, KERAMIDA shut down the East System on January 30, 2006. This was based on four consecutive quarters of groundwater VOC concentrations below Indiana VRP Tier II Non-Residential Cleanup Goals. Monitoring of groundwater VOC concentrations was conducted in December 2006/January 2007. As discussed in Section 6.4.1 East System and Associated Monitoring Wells, for the 17th quarter, following the shut down of active remediation, all groundwater VOC concentrations are below the Indiana VRP Tier II Non-Residential Cleanup Goals in MW-150. Currently, the concentration of TCE in groundwater at MW-10-1R is above its Indiana VRP Tier II Non-Residential Cleanup Goal. However, as

discussed in Section 6.8, the groundwater plume stability evaluation indicated that MW-10-1R has a stable trend.

KERAMIDA will continue to conduct quarterly groundwater monitoring activities as described in Section 5.3 Selective On-Site Groundwater Monitoring.

6.1.2 Northwest System

As discussed in Section 6.1.2 of the Remediation System Evaluation Report, January through March 2004, dated June 29, 2004, the Northwest System was shut down in late December 2003. Prior to the shut down, historical analytical results of the monitoring wells associated with the Northwest System were reviewed. For the third consecutive quarter, all concentrations were below the Indiana VRP Tier II Non-Residential Cleanup Goals. Because of the trend at the Northwest System and the need to continually operate the Southwest System, the Northwest System was shut down and vacuum application to its SVE wells was then re-directed through the Southwest System SVE blower on December 29, 2003. This configuration was operational from the re-starting of the Southwest System on December 30, 2003 through August 29, 2006.

Operation of the Northwest System SVE wells through the Southwest System SVE blower ended when extraction wells SVE-1 through 7, sparging points AS-1 through 7, monitoring wells MW-132, 147A and 148 and process piping associated with the Northwest System were abandoned and removed as excavation activities were conducted in this area. These activities are detailed in a Remedial Assessment and Soil Excavation Report dated July 23, 2007. Replacement monitoring wells MW-132R, 147AR and 148R were installed and developed following excavation activities on October 10 and 11, 2006.

As discussed in Section 6.4.2 Northwest System and Associated Monitoring Wells, groundwater VOC concentrations are currently below the Indiana VRP Tier II Non-Residential Cleanup Goals.

KERAMIDA will continue to conduct quarterly groundwater monitoring activities as described in Section 5.3 Selective On-Site Groundwater Monitoring.

6.1.3 Southwest System

Operation and Performance

The Southwest System began operating in July 2001 and through April 1, 2010, the SVE blower has operated for 59,593 hours and the AC unit has operated for 56,341 hours. The system operated 100% of the time from January through March 2010.

Various operational and performance data were collected during these O&M visits. The data collected were documented on the O&M and Operational Logs. Tasks completed during the O&M visits are as follows:

- Weekly operational measurements from AS and SVE systems.
- Monthly collection of effluent vapor samples for VOC analysis.
- Adjustments to the applied vacuum and pressures at the vapor extraction and air sparging points were completed to optimize performance.
- A performance data collection event (January 11, 2010) to collect observed, applied, and induced vacuum and pressures and groundwater mounding. These performance data were collected at various vapor extraction wells, air sparging points, and monitoring points.
- Quarterly collection of groundwater samples for VOC analysis from monitoring wells, MW-133R and 153 was completed in January 2010.

The data from the 2001 and 2002 operational and performance data collection events were used to determine optimal operating conditions and associated system performance for the Southwest System. The design operating conditions, and associated system performance were determined by pilot-scale testing; therefore, optimal operating conditions and performance were established based on the evaluation of actual full-scale system conditions and performance. The data collected during the current monitoring period were compared to both the design and optimal operating conditions and performance. The following table summarizes design, optimal and current operating conditions and associated system performance information.

Parameter	Design Conditions and Performance	Optimal Conditions and Performance	Current Conditions and Performance
SVE Wells	45 inches of H_2O vacuum/well 28 foot Radius of Influence (ROI)	15-20 inches of H_2O 25 foot ROI	8-inches of H_2O 25 foot ROI
SVE Blower	70 inches of H_2O vacuum at inlet 1,000cfm of influent air flow	35-40 inches of H_2O 200-250cfm	14-17 inches of H_2O 1,000cfm
AS Wells	10psi at 10cfm/well 20 foot ROI	5psi at 5cfm/well 20-foot ROI	8psi at 5-7cfm/well 20 foot ROI
Air Compressor	100psi at outlet (40psi at regulator)	100psi at outlet (25-30psi at regulator)	106-110psi at outlet (40psi at regulator)

A layout of each AS/SVE System with current AS and SVE ROI information is provided in Figure 4 - Remediation System Layout with Utilities.

Southwest System vapor discharge rates, for each vapor sampling event, were determined by using vapor sampling analytical data and flow measurements taken from the effluent stack. Time periods were determined based on the occurrence of vapor sampling events with associated SVE operational hours. Using these data, KERAMIDA estimates 2.17 pounds of VOC vapors have been removed from the subsurface by the Southwest System during the current monitoring period. Copies of VOC vapor discharge calculations and analytical reports are provided in Attachment 3.

As discussed in Section 4.0 Remediation System Overview, the Final RWP also identified a plan to extend the western source area AS/SVE System to remediate a VOC soil "hot spot." Expansion included the installation of the four nested SVE wells, associated subsurface piping, and their connection to the AS/SVE System during the period of August 25 through September 18, 2003. This configuration was operational through August 29, 2006. Operation through these four nested SVE wells ended when they were abandoned and removed as excavation activities were conducted in this area. These activities are detailed in a Remedial Assessment and Soil Excavation Report dated July 23, 2007.

Evaluation

Differences between the designed, optimal, and actual conditions and performance of the SVE portion of the Southwest System are evident. The design calls for an applied vacuum per well of 45 inches of H_2O column to induce a ROI of approximately 28 feet. Optimal conditions indicate a significantly lower applied vacuum/well of 15-20 inches of H_2O column, resulting in an ROI of

approximately 25 feet, while current conditions result in the same ROI using an applied vacuum of approximately 8-inches of H_2O column. The spacing between SVE wells is approximately 30-40 feet, thus providing an overlap of actual ROIs. The SVE blower is operating at a significantly lower vacuum and flow than designed; this is partially a result of SVE blower throttling and subsurface conditions.

Differences also are evident between the designed, optimal, and actual conditions and performance of the AS portion of the Southwest System. The design calls for an injection of 10 cubic feet per minute (cfm) of air at pressure of 10 pounds per square inch (psi) to achieve a ROI of approximately 20 feet. Optimal conditions indicate an injection of 5 cfm at 5 psi also can achieve an ROI of approximately 20 feet. Current conditions indicate a ROI of approximately 20 feet is achieved at an injection rate of 6 cfm at 8 psi. The spacing between AS wells is approximately 25-30 feet, providing an overlap of actual ROIs. The AC unit is operating as designed; however, because of lower injection rates, the pressure has been set lower.

The purpose of the remediation system is the treatment of VOC-impacted groundwater. Vapor discharge data and calculations indicate that 2.17 pounds of VOC vapors have been removed from the subsurface by the Southwest System during the current monitoring period with a total of 171.69 pounds of VOC vapors removed since initiation in July 2001. This low vapor recovery was expected because of the low dissolved VOC concentrations in the groundwater.

Monitoring of groundwater VOC concentrations was conducted in January 2010. The reduction of these concentrations is a direct means of evaluating remediation progress. As discussed in Section 6.4.3 Southwest System and Associated Monitoring Wells, for the 6th consecutive quarter, groundwater VOC concentrations are below Indiana VRP Tier II Non-Residential Cleanup Goals.

<u>Recommendations</u>

KERAMIDA recommends the suspension of continued operation of the Southwest System based on groundwater analytical results and the groundwater plume stability evaluation conducted and discussed in Section 6.8. KERAMIDA will continue to conduct quarterly groundwater monitoring activities as described in Section 5.3 Selective On-Site Groundwater Monitoring.

6.1.4 Liquid Waste Management

Liquid wastes were generated by the drainage of condensate from the vapor extraction blower knock-outs and during groundwater sampling. A 400-gallon poly tank was used to store these liquids. Liquid Waste Removal, Inc. of Indianapolis, Indiana, removes and hauls condensate and groundwater generated for treatment/disposal at Perma-Fix located in Dayton, Ohio, in accordance with applicable federal, state, and local regulations. A total of 7,365-gallons of condensate waters have been disposed of since start-up in July 2001.

6.2 PHYTOREMEDIATION SYSTEM

KERAMIDA continued conducting inspections during the current monitoring period. An inspection was conducted on January 19, 2010 and indicated that the majority of poplar trees were intact and stable. A copy of the inspection can be found as Attachment 4.

6.3 EAST OFF-SITE AREA BIOREMEDIATION SYSTEM

Four full-scale injections have been implemented. The first was conducted from July 19 through 21, 2004, the second on October 19, 2004, the third on October 24 and 25, 2006 and the fourth on December 10 and 11, 2007. Prior to and following these injection events, groundwater monitoring was conducted from permanent injection wells IW-1 and 2, and monitoring wells MW-151, 156, 163, and 173.

In July 2004, approximately 1,800 gallons of tap water with 1,000 milligrams per liter (mg/L) TOC from corn syrup were injected into the subsurface via injection wells IW-1 and 2 and 10 push-probe points. This volume and concentration were chosen as sufficient to achieve the target concentration of corn syrup across the entire treatment area of 120 feet by 30 feet. The injections were performed under minimal pressures (<5 pounds per square inch, psi).

In October 2004, based on results of groundwater monitoring data (July 2004 injection event), approximately 1,800 gallons of tap water with 10,000 mg/L TOC from corn syrup were injected into the subsurface via IW-1 and 2. This volume and concentration were chosen to provide a longer retention time for the corn syrup in the remediation area. The injections were again carried out under minimal pressures (<5 psi).

In October 2006, based on results of groundwater monitoring data indicating slowed reductive dechlorination rates, a third injection was completed. Approximately 1,800 gallons of tap water

with 10,000 mg/L TOC from corn syrup were injected into the subsurface via IW-1 and 2. The injections were again carried out under minimal pressures (<5 psi).

Based on results of groundwater monitoring following the October 2006 injection event, a fourth injection was completed in December 2007. Approximately 1,800 gallons of tap water with 10,000 mg/L TOC from corn syrup were injected into the subsurface via IW-1 and two temporary injection wells (TIW-1 & 2). TIW-1 was located approximately 15-feet west of IW-1 and TIW-2 was located approximately 30-feet north and east of MW-173. Each point was injected with 600 gallons of the mixture.

6.4 SELECTIVE ON-SITE GROUNDWATER MONITORING

KERAMIDA conducted the quarterly collection of groundwater samples for field parameters and VOC analyses in January 2010 from MW-10-1R, 132R, 133R, 147AR, 148R, 150 and 153. Groundwater samples were collected from these on-Site monitoring wells using low-flow sampling equipment. All analytical results were compared to their respective Indiana VRP Tier II Non-Residential Cleanup Goals. Field parameter data are documented on Groundwater Sample Information Sheets provided in Attachment 5. Historical and current groundwater elevations were tabulated and can be found in Table 1 – Water Level Data Summary. A copy of the current laboratory analytical report is provided in Attachment 6. Current and historical analytical results for each system and its associated monitoring wells are evaluated in the following sections.

6.4.1 East System and Associated Monitoring Wells

MW-150 and MW-10-1R are associated with the eastern impacted groundwater plume that the East System was designed to remediate. For the 21st consecutive quarter and the 17th quarter, following the shut down of active remediation, all groundwater VOC concentrations are below the Indiana VRP Tier II Non-Residential Cleanup Goals in MW-150. The concentration of TCE in groundwater at MW-10-1R is currently above its Indiana VRP Tier II Non-Residential Cleanup Goal. Current and historical analytical results were tabulated and can be found in Table 2a – Shallow Monitoring Well Groundwater Analytical Results for VOCs (μg/L).

6.4.2 Northwest System and Associated Monitoring Wells

MW-132R, MW-147AR, and MW-148R are associated with the western impacted groundwater plume that the Northwest System is designed to remediate. Current concentrations of VOCs in

groundwater are below Indiana VRP Tier II Non-Residential Cleanup Goals. Current and historical analytical results were tabulated and can be found in Table 2a – Shallow Monitoring Well Groundwater Analytical Results for VOCs (μg/L).

6.4.3 Southwest System and Associated Monitoring Wells

MW-133R and MW-153 are associated with the western impacted groundwater plume that the Southwest System is designed to remediate. For the 6th consecutive quarter, groundwater VOC concentrations are below the Indiana VRP Tier II Non-Residential Cleanup Goals. Current and historical analytical results were tabulated and can be found in Table 2a – Shallow Monitoring Well Groundwater Analytical Results for VOCs (μg/L).

6.5 ON-SITE GROUNDWATER MONITORING

The next annual collection of groundwater samples for on-Site groundwater monitoring will be conducted in November 2010.

6.6 ON AND OFF-SITE GROUNDWATER MONITORING

KERAMIDA conducted the quarterly collection of groundwater samples for field parameters and VOC analyses in January 2010 from MW-10-1R, 132R, 146, 148R, 150, 151, 152, 153, 156, 157, 160, 161, 164, 165S, 165D, 166S, 166D, 167S, 167D, 169S, 169D, and 302. Prior to the sampling event, MW-160 was redeveloped to remove mud and both MW-160 and 161 were extended, fitted with new concreted in well covers and resurveyed. Years of flooding, along Eagle Creek where the two wells are located, had washed away the well covers and deposited silt over the wells, thereby raising the stream bank elevation. Groundwater samples were collected from these monitoring wells using low flow sampling equipment. All groundwater concentrations are within historical values.

Field parameter data are documented on Groundwater Sample Information Sheets provided in Attachment 5. Historical and current groundwater elevations were tabulated and can be found in Table 1 – Water Level Data Summary. Current and historical analytical results were tabulated and can be found in Table 2a - Shallow Monitoring Well Groundwater Analytical Results for VOCs (μg/L) and Table 2b - Deep Monitoring Well Groundwater Analytical Results for VOCs (μg/L). A copy of the current laboratory analytical report is provided in Attachment 6.

Shallow and deep groundwater level data from the gauging event, indicate that groundwater was flowing in a southerly direction, as depicted on Figure 7 - Groundwater Potentiometric Surface Map - Shallow Wells, January 2010 and Figure 8 - Groundwater Potentiometric Surface Map - Deep Wells, January 2010.

6.7 EAST OFF-SITE AREA BIOREMEDIATION GROUNDWATER MONITORING

KERAMIDA conducted the collection of groundwater samples for field parameters and VOC and TOC analyses in January 2010 from IW-1, IW-2, MW-151, 156, 163, and MW-173. Groundwater samples were collected from these monitoring wells using low flow sampling equipment. Historical and current field parameter data were tabulated and can be found in Table 3 - East Off-Site Bioremediation Field Parameter and Select Groundwater Analytical Results. Current field parameter data was documented on Groundwater Sample Information Sheets provided in Attachment 5. Historical and current groundwater elevations were tabulated and can be found in Table 1 – Water Level Data Summary. Current and historical analytical results were tabulated and can be found in Table 2a - Shallow Monitoring Well Groundwater Analytical Results for VOCs (μg/L), and Table 3 - East Off-Site Bioremediation Field Parameter and Select Groundwater Analytical Results. Copies of the current laboratory analytical reports are provided in Attachment 6.

6.8 GROUNDWATER PLUME STABILITY EVALUATION

Dissolved VOC concentration trends were evaluated for the monitoring wells identified in Section 8.4.3 of the Final RWP for a stability demonstration. There are three areas of monitoring and trend analysis including the Western Source Area, Eastern Source Area, and East Off-Site Bioremediation Area. The wells used for long term monitoring of these three areas are identified on Figure 6. Constituents of the trend analysis included TCE, cis-1,2-dichloroethene (1,2-DCE), and vinyl chloride (VC). These are the constituents that have been detected above appropriate default Tier II Cleanup Goals for each location, Non-Residential on-Site and Residential off-Site. Not all three constituents were evaluated in all of the monitoring wells. Constituents that were consistently below their respective default Tier II Cleanup Goal were not selected for analysis. These constituents are identified with an NA on Tables 4, 5 and 6. An evaluation was not completed for wells MW-150, 167S or 169S since dissolved contaminant concentrations have remained below respective default Tier II Cleanup Goals for a period of 5 or more consecutive quarters. Tables 2a and 2b provide a complete summary of dissolved VOC analytical results for the shallow and deep monitoring wells, respectively. The Mann Kendall spreadsheet available

on line from IDEM were downloaded and used in the trend evaluations. Copies of the completed spreadsheets for each well used in the trend analysis are provided in Attachment 7. Results of the trend analysis are summarized in Tables 4, 5 and 6.

Western Source Area Plume

Of the ten wells monitored for the western source area, nine had sufficient data to conduct a 28 quarter (7 year) Mann Kendall trend evaluation. Well MW-160 was periodically inaccessible due to flooding or being filled with mud (redeveloped, see Section 6.6) based on it's location along Little Eagle Creek. A total of 27 quarters of data were available and the last 16 quarters were used for evaluation from this well. This data gap was not believed to have a significant bearing on the trend analysis of this well. TCE was only detected in three of the ten monitoring wells used in the western source area plume demonstration. Decreasing TCE trends were observed in two of the three wells. An expanding trend was observed in the third well (MW-148R), however, the concentration remains below the default Tier II Non-Residential Cleanup Goal. Well MW-148R is located within the former Northwest System and Excavation Area (refer to Section 6.1.2). 1,2-DCE was detected in nine of the ten wells. Seven of the nine wells evaluated had decreasing trends of 1,2-DCE. Well MW-167D had a stable 1,2-DCE trend and well MW-148R had an expanding 1,2-DCE trend. The 1,2-DCE concentration of MW-148R remains below the default Tier II Non-Residential Cleanup Goal. VC was detected in nine of the ten wells. Seven of the nine wells evaluated had decreasing trends of VC. Well MW-169D had a stable VC trend and well MW-148R had an expanding 1,2-DCE trend. The VC concentration in MW-148R was non-detectable in two of the last four sampling events.

Eastern Source Area Plume

All seven wells monitored for the eastern source area had sufficient data to conduct a 28 quarter (7 year) Mann Kendall trend evaluation. TCE was the only VOC detected in a concentration above the default Tier II Cleanup Goals. This statement does not consider the other wells monitored off-site to the east that are a part of the East Off-Site Bioremediation Area. The trend analysis for these other wells is discussed later in this section. Decreasing TCE trends were observed in two of the seven wells. Stable trends were observed in the remaining five wells.

East Off-Site Bioremediation Area

Of the five wells monitored for the East Off-Site Bioremediation Area, one had sufficient data to conduct a 28 quarter (7 year) Mann Kendall trend evaluation. Three of the four remaining wells

were installed more recently to monitor the reductive dechlorination being conducted in this area. Well MW-163 has more than 28 rounds of sampling; however, this includes some monthly sampling events following corn syrup injections that are not applicable for trending. A 16 quarter (4 year) trend analysis was conducted for these four wells. TCE was only detected in four of the five monitoring wells used in the East Off-Site Bioremediation Area trend evaluation. Decreasing TCE trends were observed in MW-173 and IW-2. Stable TCE trends were identified in MW-151 and 163. However, when looking at additional TCE data (Table 2a) for MW-163 that was not used for trending, a dramatic decline over time can be observed due to reductive dechlorination. 1,2-DCE was detected in four of the five wells. The concentrations were generally below the default Tier II Residential Cleanup Goal for the last four quarters except for one detection in MW-173. A decreasing trend was noted in MW-163 and a stable trend was noted for MW-173 for 1,2-DCE. VC was detected in three of the five wells. Two of the three wells evaluated had decreasing trends of VC. The third well had a stable VC trend. VC was not detected in any of five wells during the most recent monitoring event.

7.0 CONCLUSIONS

Overall, the combination of remedial system operation, reductive dechlorination and waste/soil excavation activities have contributed to the reduction of both on- and off-Site groundwater contamination levels. Groundwater plume stability evaluation activities indicate stable and/or decreasing trends in wells, except for one.

Currently, the Southwest System is the last active remedial system in operation. For the 6th consecutive quarter, groundwater VOC concentrations are below their respective closure levels in the area (MW-133R and 153) of this system and the groundwater plume stability evaluation indicates a decreasing trend in MW-153 for both cDCE and TCE (VC below closure levels). KERAMIDA recommends the suspension of continued operation of the Southwest System based on this information. KERAMIDA further recommends that groundwater monitoring activities continue as described in Section 5.0 Remediation System Monitoring Plan, for a minimum of two quarters with the Southwest System shut down to verify that groundwater continues to have stable and/or decreasing trends and to see what affect, if any, groundwater contamination from MW-148R may have at MW-153. Once data from the additional quarters of groundwater monitoring are evaluated, KERAMIDA recommends that the IDEM, Genuine Parts and KERAMIDA meet to discuss the next steps of the project.

8.0 USE OF REPORT

This report has been prepared for the exclusive use of the Client and persons or organizations to whom the Client wishes to make this report available. This report and the findings, conclusions and recommendations contained herein shall not, in whole or in part, be disseminated or conveyed to any other party, or used by or relied upon by any other party, without the prior written consent of KERAMIDA.

9.0 LIMITATIONS

This report was prepared in accordance with KERAMIDA contractual guidelines set forth for remediation services. KERAMIDA's professional opinions contained herein are based upon the operation, maintenance, and monitoring/sampling conducted by KERAMIDA personnel during the operation of the remediation system. No other warranty is given or implied by this report.

TABLES

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation [1] (feet amsl)	Ground Elevation[1] (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
Shallow Wells							
MW10-1	714.04	--	7-17	--	7/14/1995	14.07	699.97
					9/11/1995	14.25	699.79
					2/5/1997	12.75	701.29
					11/22/1999	14.53	699.51
					2/28/2000	14.37	699.67
	713.71	712.30	7-17	705.30-695.30	11/7/2000	14.62	699.09
					7/24/2001	14.40	699.31
					1/30/2002	14.25	699.46
					7/19/2002	13.45	700.26
					5/7/2003	11.21	699.36
MW-10-1R	714.00	711.75	7-17	704.75-694.75	12/3/2003	14.35	699.65
					3/3/2004	14.40	699.60
					3/10/2004	11.73	702.27
					6/2/2004	14.31	699.69
					12/20/2004	10.40	703.60
					3/16/2005	14.26	699.74
					6/13/2005	14.34	699.66
					9/21/2005	15.35	698.65
					12/5/2005	15.31	698.69
					1/30/2006	14.50	699.50
					3/13/2006	13.40	700.60
					6/12/2006	14.50	699.50
					10/13/2006	14.94	699.06
					12/20/2006	14.43	699.57
					3/19/2007	13.20	700.80
					7/2/2007	14.58	699.42
					9/6/2007	15.07	698.93
					11/27/2007	15.10	698.90
					3/19/2008	14.25	699.75
					5/28/2008	14.15	699.85
					9/22/2008	14.80	699.20
					12/1/2008	15.09	698.91
					3/11/2009	14.66	699.34
					6/16/2009	13.22	700.78
					9/14/2009	15.01	698.99
					11/2/2009	Inaccessable	
					1/26/2010	14.89	699.11
MW-132	712.17	--	10-20	--	7/14/1995	11.39	700.78
					9/11/1995	11.49	700.68
					2/5/1997	10.25	701.92
					2/26/1997	11.17	701.00
					11/22/1999	12.15	700.02
					2/28/2000	10.76	701.41
	712.19	712.70	10-20	702.70-692.70	11/7/2000	dry	NA
	712.22	712.57	10-20	702.57-692.57	7/24/2001	11.72	700.50
					1/30/2002	11.97	700.25
					7/22/2002	11.98	700.24
					5/7/2003	11.35	700.87
					12/3/2003	11.72	700.50
					3/10/2004	11.46	700.76
					6/2/2004	11.09	701.13
					9/14/2004	12.50	699.72
					12/20/2004	11.95	700.27
					3/16/2005	11.75	700.47
					6/13/2005	11.51	700.71
					9/21/2005	11.90	700.32
					12/5/2005	12.35	699.87
					1/30/2006	11.55	700.67
					3/13/2006	9.65	702.57
					6/12/2006	11.61	700.61
MW-132R	711.74	712.12	9.5-19.5	702.62-692.62	10/13/2006	11.81	699.93
					12/20/2006	11.24	700.50
					3/19/2007	9.91	701.83
					7/2/2007	11.61	700.13
					9/6/2007	11.93	699.81
					11/27/2007	11.73	700.01

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MW-132R (cont'd.)	711.74	712.12	9.5-19.5	702.62-692.62	3/19/2008	11.00	700.74
					5/28/2008	11.10	700.64
					9/22/2008	11.84	699.90
					12/1/2008	11.90	699.84
					3/11/2009	12.50	699.24
					6/16/2009	10.34	701.40
					9/14/2009	12.03	699.71
					11/2/2009	11.25	700.49
					1/26/2010	11.48	700.26
MW-133	708.79	--	8-18	--	9/11/1995	8.84	699.95
					2/5/1997	7.29	701.50
					11/22/1999	8.34	700.45
					2/28/2000	8.61	700.18
	708.83	709.10	8-18	701.10-691.10	11/7/2000	NA	
MW-133R	709.03	--	7-17	--	12/4/2003	9.76	699.27
					3/10/2004	9.19	699.84
					6/2/2004	8.95	700.08
					9/14/2004	9.93	699.10
					12/20/2004	9.74	699.29
					3/16/2005	9.39	699.64
					6/13/2005	9.29	699.74
					9/21/2005	9.74	699.29
					12/5/2005	9.34	699.69
					1/30/2006	9.15	699.88
					3/13/2006	7.85	701.18
					6/12/2006	9.15	699.88
					10/13/2006	9.93	699.10
					12/20/2006	9.40	699.63
					3/19/2007	7.09	701.94
					7/2/2007	9.81	699.22
					9/6/2007	10.25	698.78
					11/27/2007	9.77	699.26
					3/19/2008	9.22	699.81
					5/28/2008	9.00	700.03
					9/22/2008	9.62	699.41
					12/1/2008	10.24	698.79
					3/11/2009	9.68	699.35
					6/16/2009	5.87	703.16
					9/14/2009	10.22	698.81
					11/2/2009	9.51	699.52
					1/26/2010	9.72	699.31
MW-135	713.69	--	10-20	--	7/14/1995	13.26	700.43
					9/11/1995	13.66	700.03
					2/5/1997	11.96	701.73
					2/26/1997	12.47	701.22
					11/22/1999	14.20	699.49
					2/28/2000	14.05	699.64
	713.70	714.10	10-20	704.10-694.10	11/7/2000	14.12	699.58
					6/20/2001	13.85	699.85
					7/24/2001	13.67	700.03
					1/30/2002	13.80	699.90
					7/15/2002	12.05	701.65
					12/3/2003	13.01	700.69
					3/10/2004	12.97	700.73
					6/2/2004	12.35	701.35
					9/14/2004	13.62	700.08
					12/20/2004	13.40	700.30
					3/16/2005	12.56	701.14
					6/13/2005	12.86	700.84
					9/21/2005	13.83	699.87
					12/5/2005	12.42	701.28
					1/30/2006	13.35	700.35
					3/13/2006	12.00	701.70
					6/12/2006	12.60	701.10
					10/13/2006	13.71	699.99
					12/20/2006	13.04	700.66

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MW-135 (cont'd.)	713.70	714.10	10-20	704.10-694.10	3/19/2007	11.57	702.13
					7/2/2007	13.02	700.68
					9/6/2007	13.79	699.91
					11/27/2007	14.17	699.53
					3/19/2008	12.88	700.82
					5/28/2008	12.32	701.38
					9/22/2008	13.31	700.39
					12/1/2008	13.91	699.79
					3/11/2009	13.44	700.26
					6/16/2009	11.49	702.21
					9/14/2009	13.51	700.19
					11/2/2009	13.35	700.35
					1/26/2010	13.95	699.75
MW-145	707.90	--	18-28	--	7/14/1995	8.85	699.05
					9/11/1995	8.85	699.05
					2/5/1997	7.43	700.47
					11/22/1999	9.10	699.80
					2/28/2000	8.62	699.28
	707.94	709.00	18-28	691.00-681.00	11/7/2000	8.74	699.20
					6/21/2001	8.82	699.12
	707.98	708.64	18-28	690.64-680.64	7/24/2001	8.78	699.20
					1/30/2002	8.05	699.93
					7/22/2002	8.89	699.09
					12/4/2003	8.85	699.13
					3/10/2004	8.93	699.05
					6/2/2004	8.51	699.47
					9/14/2004	9.39	698.59
					12/20/2004	9.09	698.89
					3/16/2005	8.90	699.08
					9/21/2005	9.00	698.98
					12/5/2005	9.45	698.53
					1/30/2006	8.40	699.58
					3/13/2006	7.70	700.28
					6/12/2006	8.80	699.18
					10/13/2006	9.22	698.76
					12/20/2006	8.91	699.07
					3/19/2007	7.40	700.58
					7/2/2007	9.20	698.78
					9/6/2007	9.51	698.47
					11/27/2007	8.95	699.03
					3/19/2008	8.51	699.47
					5/28/2008	8.86	699.12
					9/22/2008	9.45	698.53
					12/1/2008	9.40	698.58
					9/14/2009	9.64	698.34
					11/2/2009	8.93	699.05
					1/26/2010	9.00	698.98
MW-146	708.67	--	15-25	--	7/14/1995	9.41	699.26
					9/11/1995	9.44	699.23
					2/5/1997	7.95	700.72
					11/22/1999	9.73	698.94
					2/28/2000	9.91	698.76
					11/7/2000	8.95	699.76
					6/21/2001	9.48	699.23
					7/24/2001	9.51	699.20
					1/30/2002	9.31	699.40
					7/15/2002	10.09	698.62
					12/3/2003	9.5	699.21
					12/19/2003	9.5	699.21
					3/10/2004	9.46	699.21
					6/2/2004	9.12	699.55
					12/20/2004	9.76	698.91
					3/16/2005	9.46	699.21
					6/13/2005	9.34	699.33
					9/21/2005	9.45	699.22
					12/5/2005	8.44	700.23
					1/30/2006	9.20	699.47
					3/13/2006	8.40	700.27

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Monitoring Well ID	TOC Elevation [1] (feet amsl)	Ground Elevation[1] (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-146 (cont'd.)	708.67	--	15-25	--	6/12/2006	9.48	699.19
					10/13/2006	9.89	698.78
					12/20/2006	9.56	699.11
					3/19/2007	8.38	700.29
					7/2/2007	9.71	698.96
					9/6/2007	10.06	698.61
					11/27/2007	9.81	698.86
					3/19/2008	9.23	699.44
					5/28/2008	9.32	699.35
					9/22/2008	10.01	698.66
					12/1/2008	9.98	698.69
					3/11/2009	9.68	698.99
					6/19/2009	8.75	699.92
					9/14/2009	10.27	698.40
					11/2/2009	9.66	699.01
					1/26/2010	9.80	698.87
MW-147	711.88	--	20-30	--	7/14/1995	11.09	700.79
					9/11/1995	11.20	700.68
					2/5/1997	9.91	701.97
					11/22/1999	11.49	700.39
					2/28/2000	11.44	700.44
	711.53	711.60	20-30	691.60-681.60	11/7/2000	11.40	700.13
MW-147A	711.61	712.07	20-30	692.07-682.07	6/21/2001	12.46	699.15
					7/24/2001	11.22	700.39
					1/30/2002	11.34	700.27
					7/22/2002	11.06	700.55
					5/7/2003	11.50	700.11
					12/3/2003	11.14	700.47
					3/10/2004	10.79	700.82
					6/2/2004	10.45	701.16
					9/14/2004	11.76	699.85
					12/20/2004	11.35	700.26
					3/16/2005	11.19	700.42
					6/13/2005	11.98	699.63
					9/21/2005	11.33	700.28
					12/5/2005	11.66	699.95
					1/30/2006	10.89	700.72
					3/13/2006	9.00	702.61
MW-147AR	711.71	712.03	20-30	692.03-682.03	10/13/2006	11.70	700.01
					12/20/2006	11.19	700.52
					3/19/2007	9.85	701.86
					7/2/2007	11.59	700.12
					9/6/2007	12.00	699.71
					11/27/2007	11.70	700.01
					3/19/2008	10.95	700.76
					5/28/2008	11.00	700.71
					9/22/2008	11.89	699.82
					12/1/2008	11.81	699.90
					3/11/2009	11.43	700.28
					6/16/2009	10.27	701.44
					9/14/2009	11.95	699.76
					11/2/2009	11.21	700.50
					1/26/2010	12.40	699.31
MW-148	711.00	--	10.5-25.5	--	7/14/1995	10.43	700.57
					9/11/1995	10.50	700.50
					2/5/1997	8.25	702.75
					2/26/1997	10.15	700.85
					11/22/1999	11.50	699.50
					2/28/2000	10.36	700.64
	711.04	712.00	10.5-25.5	701.50-686.50	11/7/2000	10.90	700.14
					6/21/2001	10.73	700.31
	711.07	712.00	10.5-25.5	701.50-686.50	7/24/2001	10.55	700.52
					1/30/2002	10.73	700.34
					7/22/2002	11.31	699.76
					5/7/2003	11.25	699.82
					12/3/2003	10.31	700.76

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation [1] (feet amsl)	Ground Elevation[1] (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-148 (cont'd.)	711.07	712.00	10.5-25.5	701.50-686.50	3/10/2004	10.16	700.91
					6/2/2004	10.11	700.96
					9/14/2004	11.40	699.67
					12/20/2004	11.02	700.05
					3/16/2005	10.89	700.18
					6/13/2005	10.65	700.42
					9/21/2005	10.82	700.25
					12/5/2005	10.71	700.36
					1/30/2006	10.53	700.54
					3/13/2006	8.70	702.37
					6/12/2006	10.80	700.27
MW-148R	711.44	711.94	10.5-25.5	701.44-686.44	10/13/2006	11.71	699.73
					12/20/2006	11.17	700.27
					3/19/2007	9.66	701.78
					7/2/2007	11.57	699.87
					9/6/2007	11.90	699.54
					11/27/2007	11.55	699.89
					3/19/2008	10.94	700.50
					5/28/2008	11.00	700.44
					9/22/2008	11.75	699.69
					12/1/2008	11.73	699.71
					3/11/2009	11.36	700.08
					6/16/2009	10.33	701.11
					9/14/2009	11.95	699.49
					11/2/2009	11.17	700.27
					1/26/2010	11.32	700.12
MW-150	712.93	--	4-19	--	9/11/1995	13.30	699.63
					2/5/1997	11.75	701.18
					11/22/1999	13.57	699.36
					2/28/2000	13.50	699.43
	712.90	713.30	4-19	709.30-694.30	11/7/2000	13.80	699.10
					6/20/2001	13.51	699.39
	712.96	713.38	4-19	709.38-694.38	7/24/2001	12.88	700.08
					1/30/2002	13.76	699.20
					7/19/2002	12.18	700.78
					5/7/2003	11.85	701.11
					12/3/2003	12.85	700.11
					3/3/2004	12.28	700.68
					3/10/2004	13.00	699.96
					6/2/2004	12.17	700.79
					9/14/2004	13.35	699.61
					12/20/2004	13.65	699.31
					3/16/2005	11.31	701.65
					6/13/2005	13.11	699.85
					9/21/2005	12.66	700.30
					12/5/2005	13.12	699.84
					1/30/2006	13.20	699.76
					3/13/2006	12.10	700.86
					6/12/2006	12.55	700.41
					10/13/2006	11.42	701.54
					12/20/2006	12.87	700.09
					3/19/2007	11.59	701.37
					7/2/2007	12.98	699.98
					9/6/2007	13.57	699.39
					11/27/2007	13.78	699.18
					3/19/2008	12.11	700.85
					5/28/2008	12.33	700.63
					9/22/2008	13.21	699.75
					12/1/2008	13.64	699.32
					3/11/2009	13.22	699.74
					6/16/2009	11.65	701.31
					9/14/2009	13.40	699.56
					11/2/2009	13.13	699.83
					1/26/2010	13.50	699.46

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation [1] (feet amsl)	Ground Elevation[1] (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-151	712.96	--	5-20	--	7/14/1995	13.93	699.03
					9/11/1995	14.04	698.92
					2/5/1997	12.80	700.16
					11/22/1999	13.97	698.99
					2/28/2000	13.94	699.02
	712.93	713.20	5-20	708.20-693.20	11/7/2000	14.15	698.78
					6/20/2001	13.98	698.95
					7/24/2001	13.88	699.05
					1/30/2002	13.80	699.13
					7/18/2002	13.46	699.47
					12/4/2003	13.85	699.08
					3/3/2004	13.72	699.21
					6/2/2004	13.44	699.49
					7/16/2004	13.98	698.95
					8/16/2004	14.25	698.68
					9/14/2004	14.41	698.52
					10/18/2004	14.29	698.64
					11/19/2004	14.21	698.72
					12/20/2004	14.15	698.78
					1/24/2005	10.85	702.08
					3/16/2005	13.70	699.23
					6/13/2005	12.82	700.11
					9/21/2005	14.05	698.88
					12/5/2005	13.12	699.81
					1/30/2006	13.70	699.23
					3/13/2006	13.00	699.93
					6/12/2006	13.75	699.18
					10/13/2006	14.30	698.63
					11/21/2006	13.77	699.16
					12/20/2006	13.95	698.98
					1/19/2007	12.71	700.22
					3/19/2007	12.71	700.22
					9/6/2007	14.50	698.43
					11/27/2007	14.40	698.53
					3/19/2008	13.65	699.28
					5/28/2008	13.66	699.27
					9/22/2008	14.33	698.60
					12/1/2008	14.48	698.45
					3/11/2009	14.11	698.82
					6/16/2009	13.12	699.81
					9/14/2009	15.66	697.27
					11/2/2009	13.06	699.87
					1/26/2010	14.25	698.68
MW-152	713.06	--	5-20	--	7/14/1995	13.45	699.61
					9/11/1995	13.57	699.49
					2/5/1997	12.21	700.85
					2/26/1997	12.92	700.14
					11/22/1999	13.90	699.16
					2/28/2000	13.38	699.68
	712.93	713.20	5-20	708.20-693.20	11/7/2000	13.84	699.09
					6/20/2001	13.64	699.29
					7/24/2001	13.54	699.39
					1/30/2002	13.46	699.47
					7/15/2002	12.89	700.04
					12/3/2003	13.31	699.62
					3/10/2004	13.30	699.63
					6/2/2004	12.79	700.14
					9/14/2004	14.01	698.92
					12/20/2004	13.67	699.26
					3/6/2005	13.29	699.64
					6/13/2005	13.21	699.72
					9/21/2005	13.86	699.07
					12/5/2005	13.32	699.61
					1/30/2006	13.30	699.63
					3/13/2006	12.25	700.68
					6/12/2006	13.30	699.63
					10/13/2006	13.98	698.95
					12/20/2006	13.84	699.09

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation [1] (feet amsl)	Ground Elevation[1] (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-152 (cont'd.)	712.93	713.20	5-20	708.20-693.20	3/19/2007	12.31	700.62
					7/2/2007	13.70	699.23
					9/6/2007	14.18	698.75
					11/27/2007	14.01	698.92
					3/19/2008	13.32	699.61
					5/28/2008	13.23	699.70
					9/22/2008	13.95	698.98
					12/1/2008	14.12	698.81
					3/11/2009	13.79	699.14
					6/16/2009	12.68	700.25
					9/14/2009	14.22	698.71
					11/2/2009	13.67	699.26
					1/26/2010	13.95	698.98
MW-153	711.64	709.31	4.5-19.5	704.81-689.81	7/14/1995	11.77	699.87
					9/11/1995	11.76	699.88
					2/5/1997	9.78	701.86
					2/26/1997	11.14	700.50
					11/22/1999	12.25	699.39
					2/28/2000	11.26	700.38
					11/7/2000	12.15	699.52
					6/21/2001	11.95	699.72
					7/24/2001	11.92	699.75
					1/30/2002	11.83	699.84
					7/22/2002	11.82	699.85
					12/3/2003	12.36	699.31
					3/10/2004	11.44	700.20
					6/2/2004	11.49	700.15
					9/14/2004	12.81	698.83
					12/20/2004	12.68	698.96
					3/16/2005	10.76	700.88
					6/13/2005	8.98	702.66
					9/21/2005	12.16	699.48
					12/5/2005	9.21	702.43
					1/30/2006	12.70	698.94
					3/13/2006	11.25	700.39
					6/12/2006	11.90	699.74
					10/13/2006	12.79	698.85
					12/20/2006	12.07	699.57
					3/19/2007	10.18	701.46
					7/2/2007	12.47	699.17
					9/6/2007	13.07	698.57
					11/27/2007	12.29	699.35
					3/19/2008	12.30	699.34
					5/28/2008	13.00	698.64
					9/22/2008	11.46	700.18
					12/1/2008	12.65	698.99
					3/11/2009	11.98	699.66
					6/16/2009	11.42	700.22
					9/14/2009	13.83	697.81
					11/2/2009	12.05	699.59
					1/26/2010	11.50	700.14
MW-154	714.22	--	5-20	--	7/14/1995	13.31	700.91
					9/11/1995	13.42	700.80
					2/5/1997	12.17	702.05
					2/26/1997	13.07	701.15
					11/22/1999	14.11	700.11
					2/28/2000	13.38	700.84
	714.26	711.60	5-20	706.60-691.60	11/7/2000	14.02	700.24
					6/21/2001	13.79	700.47
					7/24/2001	13.77	700.49
					1/30/2002	13.88	700.38
					7/22/2002	13.37	700.89
					12/3/2003	13.57	700.69
					3/10/2004	13.41	700.85
					6/2/2004	13.44	700.82
					9/14/2004	14.25	700.01
					12/20/2004	13.51	700.75

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation [1] (feet amsl)	Ground Elevation[1] (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-154 (cont'd.)	714.26	711.60	5-20	706.60-691.60	3/16/2005	13.64	700.62
					6/13/2005	13.35	700.91
					9/21/2005	13.82	700.44
					12/5/2005	14.15	700.11
					1/30/2006	13.45	700.81
					3/13/2006	11.50	702.76
					6/12/2006	13.40	700.86
					10/13/2006	14.10	700.16
					12/20/2006	13.61	700.65
					3/19/2007	12.31	701.95
					7/2/2007	13.98	700.28
					9/6/2007	14.29	699.97
					11/27/2007	14.11	700.15
					3/19/2008	13.32	700.94
					5/28/2008	13.45	700.81
					9/22/2008	14.15	700.11
					12/1/2008	14.25	700.01
					3/11/2009	13.86	700.40
					6/16/2009	12.71	701.55
					9/14/2009	14.34	699.92
					11/2/2009	13.65	700.61
					1/26/2010	13.87	700.39
MW-156	711.69	712.05	5-20	707.05-692.05	9/11/1995	12.21	699.48
					2/5/1997	10.65	701.04
					11/22/1999	12.52	699.17
					2/28/2000	12.41	699.28
					11/7/2000	12.66	699.06
					6/20/2001	12.43	699.29
					7/24/2001	12.35	699.37
					1/30/2002	12.25	699.47
					7/18/2002	11.46	700.26
					12/4/2003	11.97	699.75
					3/10/2004	11.82	699.87
					6/2/2004	11.48	700.21
					7/16/2004	12.09	699.60
					8/16/2004	12.36	699.33
					9/14/2004	12.55	699.14
					10/18/2004	12.54	699.15
					11/19/2004	12.40	699.29
					12/20/2004	12.40	699.29
					1/24/2005	10.65	701.04
					3/16/2005	11.77	699.92
					6/13/2005	11.61	700.08
					9/21/2005	12.42	699.27
					12/5/2005	12.71	698.98
					1/30/2006	12.10	699.59
					3/13/2006	11.15	700.54
					6/12/2006	11.70	699.99
					10/13/2006	12.51	699.18
					11/21/2006	11.87	699.82
					12/20/2006	12.09	699.60
					1/19/2007	10.53	701.16
					3/19/2007	10.76	700.93
					7/2/2007	12.10	699.59
					9/6/2007	12.63	699.06
					11/27/2007	12.70	698.99
					3/19/2008	11.82	699.87
					5/28/2008	11.60	700.09
					9/22/2008	12.35	699.34
					12/1/2008	12.70	698.99
					3/11/2009	12.31	699.38
					6/19/2009	10.95	700.74
					9/14/2009	12.57	699.12
					11/2/2009	12.21	699.48
					1/26/2010	12.51	699.18

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation [1] (feet amsl)	Ground Elevation[1] (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-157	711.30	--	5-20	--	2/5/1997	10.71	700.59
					2/26/1997	11.14	700.16
					2/28/2000	12.40	698.90
	711.27	711.50	5-20	706.50-691.50	11/7/2000	12.55	698.72
					6/21/2001	12.34	698.93
					7/24/2001	12.17	699.10
					1/30/2002	12.18	699.09
					7/19/2002	11.10	700.17
					12/4/2003	11.80	699.47
					3/3/2004	10.62	700.65
					3/10/2004	11.66	699.61
					6/2/2004	12.94	698.33
					9/14/2004	12.57	698.70
					12/20/2004	12.19	699.08
					3/16/2005	11.57	699.70
					6/13/2005	11.67	699.60
					9/21/2005	12.35	698.92
					6/12/2006	11.60	699.67
					10/13/2006	12.42	698.85
					12/20/2006	11.81	699.46
					3/19/2007	10.59	700.68
					7/2/2007	11.95	699.32
					9/6/2007	12.53	698.74
					11/27/2007	12.81	698.46
					3/19/2008	11.73	699.54
					5/28/2008	11.34	699.93
					9/22/2008	12.18	699.09
					12/1/2008	12.63	698.64
					3/12/2009	12.20	699.07
					9/14/2009	12.31	698.96
					11/2/2009	12.15	699.12
					1/26/2010	12.49	698.78
MW-159					2/28/2000	11.19	698.81[3]
	710.00	710.40	NA	NA	11/7/2000	11.47	698.53
					6/21/2001	11.43	698.57
					7/24/2001	11.36	698.64
					1/30/2002	11.22	698.78
					7/19/2002	12.13	697.87
					3/10/2004	12.15	697.85
					6/2/2004	11.94	698.06
					9/21/2005	12.20	697.80
					1/30/2006	11.90	698.10
					3/15/2006	11.35	698.65
					6/12/2006	12.40	697.60
					10/13/2006	14.69	695.31
					12/20/2006	17.32	692.68
					3/19/2007	11.13	698.87
					7/2/2007	12.67	697.33
					9/6/2007	12.53	697.47
					11/27/2007	12.50	697.50
					3/19/2008	11.88	698.12
					5/28/2008	12.28	697.72
					9/22/2008	13.00	697.00
					12/1/2008	12.83	697.17
					3/11/2009	12.32	697.68
					6/16/2009	11.89	698.11
					9/14/2009	12.97	697.03
					11/2/2009	12.46	697.54
					1/26/2010	12.45	697.55
MW-160	701.1[2]	701.35[2]	3-13	698.35-688.35	11/7/2000	2.17	698.93
					6/21/2001	1.95	699.15
					7/24/2001	2.16	698.94
					1/30/2002	1.78	699.32
					7/17/2002	2.31	698.79
					12/4/2003	2.58	698.52
					3/10/2004	2.55	698.55
					6/4/2004	2.26	698.84

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation [1] (feet amsl)	Ground Elevation[1] (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-160 (cont'd.)	701.1[2]	701.35[2]	3-13	698.35-688.35	9/14/2004	2.70	698.40
					12/20/2004	2.60	698.50
					3/16/2005	2.66	698.44
					6/13/2005	2.68	698.42
					9/23/2005	2.62	698.48
					12/5/2005	3.02	698.08
					1/30/2006	1.90	699.20
					4/5/2006	3.10	698.00
					6/12/2006	2.72	698.38
					10/13/2006	2.78	698.32
					12/20/2006	2.50	698.60
					3/19/2007	1.73	699.37
					7/2/2007	0.89	700.21
					9/6/2007	3.07	698.03
					11/27/2007	2.42	698.68
					3/19/2008	Under Water	
					5/28/2008	2.65	698.45
					9/22/2008	3.13	697.97
					12/1/2008	2.70	698.40
					3/11/2009	2.83	698.27
					3/13/2009	2.83	698.27
					11/2/2009	Full of Mud	
	702.35	--	3-13	698.35-688.35	1/26/2010	3.65	698.70
MW-161	702.99[2]	703.38[2]	3-13	700.38-690.38	11/7/2000	4.01	698.98
					6/21/2001	3.69	699.30
					7/24/2001	4.02	698.97
					1/30/2002	3.58	699.41
					7/18/2002	4.17	698.82
					12/4/2003	3.10	699.89
					3/10/2004	1.07	701.92
					6/4/2004	2.83	700.16
					9/14/2004	4.20	698.79
					12/20/2004	4.26	698.73
					3/16/2005	4.06	698.93
					6/13/2005	4.81	698.18
					9/23/2005	4.00	698.99
					12/5/2005	4.71	698.28
					1/30/2006	3.60	699.39
					4/5/2006	4.90	698.09
					6/12/2006	4.32	698.67
					10/13/2006	4.38	698.61
					12/20/2006	4.11	698.88
					3/19/2007	1.07	701.92
					7/2/2007	1.75	701.24
					9/6/2007	4.82	698.17
					11/27/2007	2.02	700.97
					3/19/2008	Under Water	
					5/28/2008	4.15	698.84
					9/22/2008	4.50	698.49
					12/1/2008	4.30	698.69
					3/13/2009	4.26	698.73
					6/19/2009	3.77	699.22
					11/2/2009	4.08	698.91
	704.18	--	3-13	700.38-690.38	1/26/2010	5.28	698.90
MW-163	712.36	712.90	10-20	702.90-692.90	11/7/2000	13.15	699.21
					6/20/2001	12.83	699.53
					7/24/2001	12.95	699.41
					1/30/2002	12.83	699.53
					7/18/2002	11.22	701.14
					7/16/2004	12.03	700.33
					8/16/2004	11.83	700.53
					10/18/2004	12.64	699.72
					11/19/2004	12.12	700.24
					12/20/2004	11.67	700.69
					1/24/2005	9.95	702.41
					3/16/2005	11.25	701.11
					6/13/2005	10.98	701.38
					9/21/2005	11.80	700.56

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation [1] (feet amsl)	Ground Elevation[1] (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-163 (cont'd.)	712.36	712.90	10-20	702.90-692.90	12/5/2005	11.54	700.82
					1/30/2006	11.65	700.71
					3/13/2006	10.75	701.61
					6/12/2006	11.33	701.03
					10/13/2006	12.18	700.18
					11/21/2006	11.19	701.17
					12/20/2006	11.54	700.82
					1/19/2007	10.11	702.25
					3/22/2007	10.35	702.01
					7/2/2007	11.50	700.86
					9/6/2007	12.13	700.23
					11/27/2007	12.65	699.71
					3/19/2008	11.00	701.36
					5/28/2008	10.95	701.41
					9/22/2008	11.50	700.86
					12/1/2008	12.24	700.12
					3/11/2009	11.72	700.64
					6/16/2009	10.23	702.13
					9/14/2009	12.01	700.35
					11/2/2009	11.21	701.15
					1/26/2010	11.80	700.56
MW-164	718.56	719.35	16-26	703.35-693.35	11/7/2000	19.87	695.69
					6/21/2001	19.67	698.89
					7/24/2001	19.47	696.09
					1/30/2002	19.45	699.11
					7/19/2002	17.97	700.59
					12/5/2003	18.75	699.81
					3/3/2004	18.56	700.00
					3/10/2004	18.60	699.96
					6/2/2004	19.52	699.04
					9/14/2004	19.42	699.14
					12/20/2004	19.28	699.28
					3/16/2005	18.29	700.27
					6/13/2005	18.78	699.78
					9/21/2005	19.60	698.96
					12/5/2005	18.82	699.74
					1/30/2006	19.50	699.06
					3/13/2006	18.45	700.11
					6/12/2006	19.50	699.06
					10/13/2006	19.39	699.17
					12/20/2006	18.80	699.76
					3/19/2007	17.54	701.02
					7/2/2007	18.84	699.72
					9/6/2007	19.53	699.03
					11/27/2007	20.02	698.54
					3/19/2008	18.75	699.81
					5/28/2008	18.15	700.41
					9/22/2008	19.06	699.50
					12/1/2008	19.61	698.95
					3/11/2009	19.24	699.32
					6/16/2009	17.43	701.13
					9/14/2009	19.16	699.40
					11/2/2009	19.21	699.35
					1/26/2010	19.66	698.90
MW-165S	712.54	712.88	10-20	702.88-692.88	6/21/2001	13.80	698.74
					7/24/2001	13.71	698.83
					1/30/2002	13.52	699.02
					7/18/2002	13.82	698.72
					12/5/2003	13.56	698.98
					3/10/2004	13.93	698.61
					6/2/2004	13.69	698.85
					9/14/2004	14.49	698.05
					12/20/2004	14.20	698.34
					3/16/2005	13.97	698.57
					6/13/2005	13.29	699.25
					9/21/2005	13.90	698.64
					12/5/2005	14.35	698.19

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation [1] (feet amsl)	Ground Elevation[1] (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-165S (cont'd.)	712.54	712.88	10-20	702.88-692.88	1/30/2006	13.60	698.94
					3/13/2006	13.00	699.54
					6/12/2006	13.95	698.59
					10/13/2006	18.35	694.19
					12/20/2006	13.94	698.60
					3/19/2007	12.82	699.72
					7/2/2007	14.43	698.11
					9/6/2007	14.07	698.47
					11/27/2007	15.13	697.41
					3/19/2008	13.55	698.99
					5/28/2008	13.93	698.61
					9/22/2008	14.63	697.91
					12/1/2008	14.45	698.09
					3/11/2009	13.99	698.55
					6/16/2009	13.56	698.98
					9/14/2009	14.59	697.95
					11/2/2009	14.09	698.45
					1/26/2010	14.15	698.39
MW-166S	712.99	713.38	10-20	703.38-693.38	7/24/2001	14.32	698.67
					1/30/2002	14.32	698.67
					7/18/2002	14.41	698.58
					12/19/2003	14.69	698.30
					3/10/2004	14.61	698.38
					6/2/2004	14.28	698.71
					9/14/2004	15.24	697.75
					12/20/2004	14.92	698.07
					3/16/2005	14.56	698.43
					6/13/2005	13.98	699.01
					9/21/2005	14.75	698.24
					12/5/2005	15.00	697.99
					1/30/2006	14.30	698.69
					3/13/2006	13.60	699.39
					6/12/2006	14.55	698.44
					10/13/2006	14.89	698.10
					12/20/2006	14.54	698.45
					3/19/2007	13.39	699.60
					7/2/2007	15.14	697.85
					9/6/2007	15.14	697.85
					11/27/2007	14.25	698.74
					3/19/2008	14.28	698.71
					5/28/2008	14.50	698.49
					9/22/2008	15.31	697.68
					12/1/2008	15.52	697.47
					3/11/2009	14.78	698.21
					6/16/2009	13.96	699.03
					9/14/2009	15.40	697.59
					11/2/2009	14.88	698.11
					1/26/2010	14.97	698.02
MW-167S	716.25	716.55	12-22	704.55-694.55	6/21/2001	17.99	698.26
					7/24/2001	17.81	698.44
					1/30/2002	17.90	698.35
					7/17/2002	17.74	698.51
					12/4/2003	18.12	698.13
					3/10/2004	18.00	698.25
					6/2/2004	17.71	698.54
					9/14/2004	18.75	697.50
					12/20/2004	18.39	697.86
					3/16/2005	17.95	698.30
					6/13/2005	18.20	698.05
					9/21/2005	18.50	697.75
					12/5/2005	17.20	699.05
					1/30/2006	18.00	698.25
					3/13/2006	17.10	699.15
					6/12/2006	17.90	698.35
					10/13/2006	18.83	697.42
					12/20/2006	17.90	698.35

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation [1] (feet amsl)	Ground Elevation[1] (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-167S (cont'd.)	716.25	716.55	12-22	704.55-694.55	3/19/2007	16.98	699.27
					7/2/2007	18.64	697.61
					9/6/2007	18.92	697.33
					11/27/2007	18.81	697.44
					3/19/2008	17.73	698.52
					5/28/2008	17.82	698.43
					9/22/2008	18.82	697.43
					12/1/2008	19.00	697.25
					3/11/2009	18.33	697.92
					6/16/2009	17.13	699.12
					9/14/2009	18.87	697.38
					11/2/2009	18.41	697.84
					1/26/2010	18.56	697.69
MW-168S	715.71	716.12	12-22	704.12-694.12	6/21/2001	17.66	698.05
					7/24/2001	17.60	698.11
	714.79	715.06	12-22	703.06-693.06	1/30/2002	17.06	697.73
					7/18/2002	17.39	697.4
					3/10/2004	17.43	697.36
					6/2/2004	17.33	697.46
					9/14/2004	18.18	696.61
					3/16/2005	17.41	697.38
					6/13/2005	17.12	697.67
					9/21/2005	17.7	697.09
					12/5/2005	18.02	696.77
					1/30/2006	17.39	697.40
					3/13/2006	16.21	698.58
					6/12/2006	16.34	698.45
					10/13/2006	18.12	696.67
					12/20/2006	17.54	697.25
					3/19/2007	16.52	698.27
					7/2/2007	18.08	696.71
					9/6/2007	17.51	697.28
					11/27/2007	17.8	696.99
					3/19/2008	16.18	698.61
					5/28/2008	17.44	697.35
					9/22/2008	18.30	696.49
					12/1/2008	18.20	696.59
					3/11/2009	17.68	697.11
					6/16/2009	16.82	697.97
					9/14/2009	18.31	696.48
					11/2/2009	17.73	697.06
					1/26/2010	17.84	696.95
MW-169S	715.95	716.25	15-25	701.25-691.25	1/30/2002	19.75	696.20
					7/17/2002	18.91	697.04
					12/4/2003	19.72	696.23
					3/10/2004	19.47	696.48
					6/2/2004	19.56	696.39
					9/14/2004	20.50	695.45
					12/20/2004	20.05	695.90
					3/16/2005	18.91	697.04
					6/13/2005	20.01	695.94
					9/21/2005	20.62	695.33
					12/5/2005	20.50	695.45
					1/30/2006	19.80	696.15
					3/13/2006	19.35	696.60
					6/12/2006	19.30	696.65
					10/13/2006	20.49	695.46
					12/20/2006	19.32	696.63
					3/19/2007	18.62	697.33
					7/2/2007	20.09	695.86
					9/6/2007	20.72	695.23
					11/27/2007	20.31	695.64
					3/19/2008	19.00	696.95
					5/28/2008	19.15	696.80
					9/22/2008	20.48	695.47
					12/1/2008	20.05	695.90

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation [1] (feet amsl)	Ground Elevation[1] (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-169S (cont'd.)	715.95	716.25	15-25	701.25-691.25	3/11/2009	19.86	696.09
					6/16/2009	18.12	697.83
					9/14/2009	20.37	695.58
					11/2/2009	20.39	695.56
					1/26/2010	20.40	695.55
MW-170S	717.40	717.77	17-27	700.77-690.77	1/30/2002	20.45	696.95
					7/17/2002	19.35	698.05
					3/10/2004	20.19	697.21
					6/2/2004	20.76	696.64
					9/14/2004	21.23	696.17
					12/20/2004	20.85	696.55
					6/15/2005	20.68	696.72
					9/21/2005	21.47	695.93
					12/5/2005	22.31	695.09
					1/30/2006	20.60	696.80
					3/13/2006	20.10	697.30
					6/12/2006	19.90	697.50
					10/13/2006	21.20	696.20
					12/20/2006	19.98	697.42
					3/19/2007	18.83	698.57
					7/2/2007	20.97	696.43
					9/6/2007	21.55	695.85
					11/27/2007	15.27	702.13
					3/19/2008	19.60	697.80
					5/28/2008	19.70	697.70
					9/22/2008	21.20	696.20
					12/1/2008	21.78	695.62
					3/11/2009	20.57	696.83
					6/16/2009	18.62	698.78
					9/14/2009	21.11	696.29
					11/2/2009	21.13	696.27
					1/26/2010	21.20	696.20
MW-171S	711.83	712.19	12-22	700.19-690.19	1/30/2002	15.29	696.54
					7/17/2002	15.02	696.81
					3/10/2004	15.14	696.69
					12/20/2004	15.55	696.28
					9/21/2005	15.68	696.15
					12/5/2005	15.42	696.41
					10/13/2006	16.33	695.50
					3/19/2007	14.29	697.54
					11/27/2007	15.27	696.56
					9/22/2008	16.05	695.78
					12/1/2008	16.10	695.73
					3/11/2009	15.56	696.27
					6/16/2009	14.58	697.25
					9/14/2009	16.06	695.77
					11/2/2009	15.61	696.22
					1/26/2010	15.65	696.18
MW-172S	716.23	716.58	15-25	701.58-691.58	9/4/2002	20.45	695.78
					3/10/2004	19.61	696.62
					6/2/2004	19.78	696.45
					9/14/2004	20.93	695.30
					12/20/2004	20.24	695.99
					3/16/2005	18.95	697.28
					6/13/2005	Abandoned	
MW-173	713.23	713.61	8-18	705.61-695.61	3/3/2004	12.72	700.51
					7/16/2004	12.99	700.24
					8/16/2004	13.06	700.17
					10/18/2004	13.56	699.67
					11/19/2004	13.38	699.85
					12/20/2004	13.45	699.78
					1/24/2005	10.55	702.68
					3/16/2005	12.21	701.02
					6/13/2005	12.85	700.38
					9/21/2005	13.50	699.73
					12/5/2005	12.81	700.42
					1/30/2006	13.30	699.93
					3/13/2006	12.30	700.93

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation [1] (feet amsl)	Ground Elevation[1] (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-173 (cont'd.)	713.23	713.61	8-18	705.61-695.61	6/12/2006	12.60	700.63
					10/13/2006	13.59	699.64
					11/21/2006	12.96	700.27
					12/20/2006	13.03	700.20
					1/19/2007	11.28	701.95
					3/19/2007	11.68	701.55
					7/2/2007	13.09	700.14
					9/6/2007	13.74	699.49
					11/27/2007	14.02	699.21
					3/19/2008	12.87	700.36
					5/28/2008	12.36	700.87
					9/22/2008	13.35	699.88
					12/1/2008	13.88	699.35
					3/11/2009	13.50	699.73
					6/16/2009	11.73	701.50
					9/14/2009	13.57	699.66
					11/2/2009	13.38	699.85
					1/26/2010	13.85	699.38
IW-1	712.54	712.95	10.5-15.5	702.45-697.45	3/3/2004	11.78	700.76
					7/16/2004	12.11	700.43
					8/16/2004	12.05	700.49
					10/18/2004	12.37	700.17
					11/19/2004	12.29	700.25
					12/20/2004	12.02	700.52
					1/24/2005	10.11	702.43
					3/16/2005	11.31	701.23
					6/13/2005	11.12	701.42
					9/21/2005	11.90	700.64
					12/5/2005	10.12	702.42
					1/30/2006	11.80	700.74
					3/13/2006	10.80	701.74
					6/12/2006	11.45	701.09
					10/13/2006	12.19	700.35
					11/21/2006	11.35	701.19
					12/20/2006	11.70	700.84
					1/19/2007	10.18	702.36
					3/22/2007	10.45	702.09
					7/2/2007	11.82	700.72
					9/6/2007	12.29	700.25
					11/27/2007	12.53	700.01
					3/19/2008	11.20	701.34
					5/28/2008	11.12	701.42
					9/22/2008	11.70	700.84
					12/1/2008	12.41	700.13
					3/11/2009	11.93	700.61
					6/16/2009	10.44	702.10
					9/14/2009	12.17	700.37
					11/2/2009	11.43	701.11
					1/26/2010	11.96	700.58
IW-2	712.83	713.27	12-17	701.27-696.27	3/3/2004	12.23	700.60
					7/16/2004	12.70	700.13
					8/16/2004	13.10	699.73
					10/18/2004	13.25	699.58
					11/19/2004	13.05	699.78
					12/20/2004	13.20	699.63
					1/24/2005	10.03	702.80
					3/16/2005	12.19	700.64
					6/13/2005	11.98	700.85
					9/21/2005	13.06	699.77
					12/5/2005	11.72	701.11
					1/30/2006	12.90	699.93
					3/13/2006	11.85	700.98
					6/12/2006	12.20	700.63
					10/13/2006	13.18	699.65
					11/21/2006	12.56	700.27
					12/20/2006	12.62	700.21

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation [1] (feet amsl)	Ground Elevation[1] (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
IW-2 (cont'd.)	712.83	713.27	12-17	701.27-696.27	1/19/2007	10.98	701.85
					3/19/2007	11.29	701.54
					7/2/2007	12.67	700.16
					9/6/2007	13.34	699.49
					11/27/2007	13.59	699.24
					3/19/2008	13.45	699.38
					5/28/2008	12.06	700.77
					9/22/2008	12.95	699.88
					12/1/2008	13.47	699.36
					3/11/2009	13.02	699.81
					6/16/2009	11.31	701.52
					9/14/2009	13.12	699.71
					11/2/2009	12.90	699.93
					1/26/2010	13.31	699.52
Deep Wells							
MW-165D	712.34	712.78	42-47	670.78-665.78	1/30/2002	13.33	699.01
					7/18/2002	13.66	698.68
					12/5/2003	13.51	698.83
					3/10/2004	13.71	698.63
					6/2/2004	13.49	698.85
					9/14/2004	14.29	698.05
					12/20/2004	14.00	698.34
					3/16/2005	13.78	698.56
					6/13/2005	13.10	699.24
					9/21/2005	13.75	698.59
					12/5/2005	14.20	698.14
					1/30/2006	13.45	698.89
					3/13/2006	12.80	699.54
					6/12/2006	13.73	698.61
					9/26/2006	14.04	698.30
					12/20/2006	13.72	698.62
					3/19/2007	12.62	699.72
					7/2/2007	14.25	698.09
					9/6/2007	13.92	698.42
					11/27/2007	14.90	697.44
					3/19/2008	13.35	698.99
					5/28/2008	13.79	698.55
					9/22/2008	14.35	697.99
					12/1/2008	14.30	698.04
					3/11/2009	13.79	698.55
					6/16/2009	13.32	699.02
					9/14/2009	14.40	697.94
					11/2/2009	13.88	698.46
					1/26/2010	13.95	698.39
MW-166D	712.76	713.04	46-51	666.04-661.04	1/30/2002	14.10	698.66
					7/18/2002	14.08	698.68
					1/6/2004	13.03	699.73
					3/10/2004	14.35	698.41
					6/2/2004	14.09	698.67
					9/14/2004	15.02	697.74
					12/20/2004	14.73	698.03
					3/16/2005	14.36	698.40
					6/13/2005	14.22	698.54
					9/21/2005	14.55	698.21
					12/5/2005	15.15	697.61
					1/30/2006	14.36	698.40
					3/13/2006	13.35	699.41
					6/12/2006	14.32	698.44
					9/26/2006	14.74	698.02
					12/20/2006	14.34	698.42
					3/19/2007	13.60	699.16
					7/4/2007	14.90	697.86
					9/6/2007	14.92	697.84
					11/27/2007	14.05	698.71
					3/19/2008	14.07	698.69
					5/28/2008	14.30	698.46

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation [1] (feet amsl)	Ground Elevation[1] (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-166D (cont'd.)	712.76	713.04	46-51	666.04-661.04	9/22/2008	15.09	697.67
					12/1/2008	15.20	697.56
					3/11/2009	14.56	698.20
					6/16/2009	13.75	699.01
					9/14/2009	15.18	697.58
					11/2/2009	14.66	698.10
					1/26/2010	14.74	698.02
MW-167D	716.25	716.60	28-33	688.60-683.60	1/30/2002	17.90	698.35
					7/17/2002	17.73	698.52
					12/4/2003	18.18	698.07
					3/10/2004	18.04	698.21
					6/2/2004	17.72	698.53
					9/14/2004	18.79	697.46
					12/20/2004	18.47	697.78
					3/16/2005	17.85	698.40
					6/13/2005	18.24	698.01
					9/21/2005	18.53	697.72
					12/5/2005	18.32	697.93
					1/30/2006	18.00	698.25
					3/13/2006	17.20	699.05
					6/12/2006	17.92	698.33
					9/26/2006	18.51	697.74
					12/20/2006	17.97	698.28
					3/19/2007	17.10	699.15
					7/2/2007	18.73	697.52
					9/6/2007	18.98	697.27
					11/27/2007	18.89	697.36
					3/19/2008	17.85	698.40
					5/28/2008	17.96	698.29
					9/22/2008	18.95	697.30
					12/1/2008	19.20	697.05
					3/11/2009	18.51	697.74
					6/16/2009	17.28	698.97
					9/14/2009	19.05	697.20
					11/2/2009	18.64	697.61
					1/26/2010	18.75	697.50
MW-168D	714.71	715.09	26-31	689.09-684.09	1/30/2002	17.00	697.71
					7/18/2002	17.27	697.44
					6/2/2004	17.28	697.43
					9/14/2004	18.15	696.56
					12/20/2004	17.81	696.90
					3/16/2005	16.38	698.33
					6/13/2005	26.21	688.50
					9/21/2005	17.70	697.01
					12/5/2005	20.22	694.49
					1/30/2006	17.50	697.21
					3/13/2006	16.35	698.36
					6/12/2006	16.33	698.38
					9/26/2006	17.93	696.78
					12/20/2006	17.39	697.32
					3/19/2007	16.39	698.32
					7/2/2007	17.99	696.72
					9/6/2007	17.83	696.88
					11/27/2007	17.82	696.89
					3/19/2008	17.12	697.59
					5/28/2008	17.38	697.33
					9/22/2008	18.25	696.46
					12/1/2008	18.30	696.41
					3/11/2009	17.59	697.12
					6/16/2009	16.92	697.79
					9/14/2009	18.22	696.49
					11/2/2009	17.73	696.98
					1/26/2010	17.75	696.96

Table 1
Water Level Data Summary
Former General Motors Corporation
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Monitoring Well ID	TOC Elevation [1] (feet amsl)	Ground Elevation[1] (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-169D	715.23	716.23	32-37	684.23-679.23	1/30/2002	19.65	695.58
					7/17/2002	18.82	696.41
					12/4/2003	19.66	695.57
					3/10/2004	19.41	695.82
					6/2/2004	19.52	695.71
					9/14/2004	20.45	694.78
					12/20/2004	20.10	695.13
					3/16/2005	18.93	696.30
					6/13/2005	20.00	695.23
					9/21/2005	20.63	694.60
					12/5/2005	20.62	694.61
					1/30/2006	19.83	695.40
					3/13/2006	19.33	695.90
					6/12/2006	19.24	695.99
					9/26/2006	20.39	694.84
					12/20/2006	19.30	695.93
					3/19/2007	18.26	696.97
					7/2/2007	20.19	695.04
					9/6/2007	20.80	694.43
					11/27/2007	20.38	694.85
					3/19/2008	18.93	696.30
					5/28/2008	19.10	696.13
					9/22/2008	20.48	694.75
					12/1/2008	21.05	694.18
					3/11/2009	19.91	695.32
					6/16/2009	18.15	697.08
					9/14/2009	20.41	694.82
					11/2/2009	20.45	694.78
					1/26/2010	20.45	694.78
MW-170D	717.34	717.76	34-39	683.76-678.76	1/30/2002	20.40	696.94
					7/17/2002	19.29	698.05
					3/10/2004	20.13	697.21
					6/2/2004	20.21	697.13
					9/14/2004	21.17	696.17
					12/20/2004	20.78	696.56
					6/15/2005	20.63	696.71
					9/21/2005	21.40	695.94
					12/5/2005	21.21	696.13
					1/30/2006	20.90	696.44
					3/13/2006	20.00	697.34
					6/12/2006	19.80	697.54
					9/26/2006	21.02	696.32
					12/20/2006	19.92	697.42
					3/19/2007	18.79	698.55
					7/2/2007	20.70	696.64
					9/6/2007	21.51	695.83
					11/27/2007	21.26	696.08
					3/19/2008	19.52	697.82
					5/28/2008	19.66	697.68
					9/22/2008	20.14	697.20
					12/1/2008	21.80	695.54
					3/11/2009	20.49	696.85
					6/16/2009	18.54	698.80
					9/14/2009	21.05	696.29
					11/2/2009	21.11	696.23
					1/26/2010	20.13	697.21
MW-171D	711.88	712.15	44-49	668.15-663.15	1/30/2002	15.73	696.15
					7/17/2002	15.16	696.72
					3/10/2004	15.51	696.37
					12/20/2004	15.98	695.90
					9/21/2005	16.20	695.68
					12/5/2005	16.23	695.65
					6/12/2006	15.48	696.40
					9/26/2006	16.21	695.67
					3/19/2007	14.45	697.43
					11/27/2007	16.50	695.38

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation [1] (feet amsl)	Ground Elevation[1] (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-171D (cont'd.)	711.88	712.15	44-49	668.15-663.15	3/19/2008	15.25	696.63
					5/28/2008	15.46	696.42
					9/22/2008	16.41	695.47
					12/1/2008	16.68	695.20
					3/11/2009	15.92	695.96
					6/16/2009	14.73	697.15
					9/14/2009	16.39	695.49
					11/2/2009	16.13	695.75
					1/26/2010	15.15	696.73
MW-172D	716.03	716.53	33-38	683.53-678.53	9/4/2002	20.17	695.86
					3/10/2004	19.43	696.60
					6/2/2004	19.61	696.42
					9/14/2004	20.57	695.46
					12/20/2004	20.14	695.89
					3/16/2005	18.71	697.32
					6/13/2005	Abandoned	
MW-301	712.75	--	45-50	--	2/5/1997	11.75	701.00
					11/22/1999	13.77	698.98
					2/28/2000	13.50	699.25
	712.75	713.20	45-50	668.20-663.20	11/7/2000	13.76	698.99
					6/20/2001	13.57	699.18
					7/24/2001	13.59	699.16
					1/30/2002	13.31	699.44
					7/18/2002	12.78	699.97
					3/10/2004	13.74	699.01
					6/2/2004	13.11	699.64
					9/14/2004	13.79	698.96
					12/20/2004	13.29	699.46
					3/16/2005	11.89	700.86
					6/13/2005	13.51	699.24
					9/21/2005	13.63	699.12
					12/5/2005	13.45	699.30
					1/30/2006	13.10	699.65
					3/13/2006	12.00	700.75
					6/12/2006	13.56	699.19
					9/26/2006	13.50	699.25
					12/20/2006	13.21	699.54
					3/19/2007	11.99	700.76
					9/6/2007	13.83	698.92
					11/27/2007	13.31	699.44
					3/19/2008	13.00	699.75
					5/28/2008	12.09	700.66
					9/22/2008	13.57	699.18
					12/1/2008	13.78	698.97
					3/11/2009	13.46	699.29
					6/16/2009	12.34	700.41
					9/14/2009	13.75	699.00
					11/2/2009	13.38	699.37
					1/26/2010	13.61	699.14
MW-302	711.54	--	45-55	--	2/5/1997	11.26	700.28
					2/26/1997	12.33	699.21
					11/22/1999	13.26	698.28
					2/28/2000	12.70	698.84
	711.60	709.60	45-55	664.60-654.60	11/7/2000	13.00	698.60
					6/21/2001	12.99	698.61
					7/24/2001	12.82	698.78
					1/30/2002	12.61	698.99
					7/22/2002	12.90	698.7
					3/10/2004	12.93	698.67
					6/2/2004	12.68	698.92
					9/14/2004	13.56	698.04
					12/20/2004	12.24	699.36
					3/16/2005	13.08	698.52
					6/13/2005	12.98	698.62
					9/21/2005	12.95	698.65
					12/5/2005	13.02	698.58
					1/30/2006	11.50	700.10
					3/13/2006	12.00	699.60

Table 1
Water Level Data Summary
Former General Motors Corporation
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KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation [1] (feet amsl)	Ground Elevation[1] (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-302 (cont'd.)	711.60	709.60	45-55	664.60-654.60	6/12/2006	13.00	698.60
					9/26/2006	13.29	698.31
					12/20/2006	12.98	698.62
					3/19/2007	11.85	699.75
					7/2/2007	13.48	698.12
					9/6/2007	13.66	697.94
					11/27/2007	13.31	698.29
					3/19/2008	12.20	699.40
					5/28/2008	12.35	699.25
					9/22/2008	13.60	698.00
					12/1/2008	13.56	698.04
					3/11/2009	13.12	698.48
					6/16/2009	11.89	699.71
					9/14/2009	13.17	698.43
					11/2/2009	12.48	699.12
					1/26/2010	13.23	698.37

[1]For wells surveyed more than once, subsequent survey information is listed with the first gauging event following the survey.
[2]Survey data from 3-6-02 were used to calculate all groundwater and screen elevations.
[3]Survey data from 11-7-00 were used to calculate the groundwater elevation.
amsl - above mean sea level
BGS - below ground surface
DTW - depth to water
GW - groundwater
NA Information is not available
SW - surface water
TOC - top of well casing

Table 2a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Bromodichloromethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	1,2,4-Trimethylbenzene	Vinyl chloride
MW-10-1	3/28/1994	7-17	NA	NA	NA	160*	160*	NA	NA	880	NA	<100
	10/5/1994		NA	NA	NA	ND	ND	NA	NA	1,600	NA	NA
	7/14/1995		W5070191-13	<5.0	<5.0	190	5.9	<5.0	<5.0	1,800	NA	<10
	2/5/1997		W7020074-01	<5.0	<5.0	120	<5.0	<5.0	<5.0	810	NA	<10
	11/23/1999		253788	<5.0	<5.0	180	8.3	<10	<5.0	1,000	<5.0	<5.0
	11/23/1999		253812	<5.0	<5.0	190	9.2	<10	<5.0	1,100	<5.0	<5.0
	2/29/2000		260586	<5.0	<5.0	160	6.5	<10	<5.0	960	<5.0	<5.0
	11/8/2000		280650	<5.0	<5.0	200	7.6	<10	<5.0	1,100	<5.0	<2.0
	7/19/2002		324157	<5.0	<5.0	99	<5.0	<10	<5.0	540	<5.0	<2.0
	7/19/2002		324158	<5.0	<5.0	94	<5.0	<10	<5.0	650	<5.0	<2.0
	5/7/2003		842918	<1.0	<1.0	60.9	2.6	<5.0	<1.0	305	<1.0	<1.0
	8/22/2003		872595	<1.0	<1.0	101	3.2	<5.0	<1.0	450	<1.0	<1.0
MW-10-1R	12/03/2003	7-17	503002107	<5.0	<5.0	48	<5.0	<5.0	<5.0	220	<5.0	<2.0
	12/03/2003		503002115	<5.0	<5.0	44	<5.0	<5.0	<5.0	240	<5.0	<2.0
	3/11/2004		503237240	<5.0	<5.0	58	<5.0	<5.0	<5.0	230	<5.0	<2.0
	3/11/2004		503237257	<5.0	<5.0	53	<5.0	<5.0	<5.0	230	<5.0	<2.0
	6/4/2004		503492829	<5.0	<5.0	74	<5.0	<5.0	<5.0	400	<5.0	<2.0
	6/4/2004		503492928	<5.0	<5.0	59	<5.0	<5.0	<5.0	290	<5.0	<2.0
	9/15/2004		A675212	<1.0	<1.0	99	2.9	<1.0	<1.0	500	<1.0	<1.0
	9/15/2004		A675213	<1.0	<1.0	97	2.8	<1.0	<1.0	490	<1.0	<1.0
	12/22/2004		A685836	<1.0	<1.0	85	4.5	<1.0	<1.0	540	<1.0	<1.0
	12/22/2004		A685823	<1.0	<1.0	96	3.9	<1.0	<1.0	520	<1.0	<1.0
	3/16/2005		A693396	<1.0	<1.0	18	<1.0	<1.0	<1.0	120	<1.0	<1.0
	3/16/2005		A693397	<1.0	<1.0	19	<1.0	<1.0	<1.0	140	<1.0	<1.0
	6/15/2005		A702987	<1.0	<1.0	15	<1.0	<1.0	<1.0	83	<1.0	<1.0
	6/15/2005		A702999	<1.0	<1.0	17	<1.0	<1.0	<1.0	91	<1.0	<1.0
	9/22/2005		A713013	<1.0	<1.0	12.7	<1.0	<1.0	<1.0	68.7	<1.0	<1.0
	9/22/2005		A713014	<1.0	<1.0	12.6	<1.0	<1.0	<1.0	68.8	<1.0	<1.0
	12/7/2005		A721022	<1.0	<1.0	9.2	<1.0	<1.0	<1.0	100	<1.0	<1.0
	12/7/2005		A721023	<1.0	<1.0	13	<1.0	<1.0	<1.0	110	<1.0	<1.0
	3/14/2006		A728644	<1.0	<1.0	6.6	<1.0	<1.0	<1.0	64	<1.0	<1.0
	3/14/2006		A728645	<1.0	<1.0	6.4	<1.0	<1.0	<1.0	59	<1.0	<1.0
	6/14/2006		A737758	<1.0	<1.0	3.7	<1.0	<1.0	<1.0	62	<1.0	<1.0
	6/14/2006		A737759	<1.0	<1.0	6.1	<1.0	<1.0	<1.0	120	<1.0	<1.0
	9/29/2006		A747976	<10	<10	15	<10	23	<10	160	<10	<10
	9/29/2006		A747977	<10	<10	16	<10	16	<10	210	<10	<10
	12/20/2006		A756766	<10	<10	14	<10	<10	<10	150	<10	<10
	12/20/2006		A756767	<10	<10	13	<10	<10	<10	150	<10	<10
	3/22/2007		A764734	<1.0	<1.0	3.1	<1.0	<1.0	<1.0	41	<1.0	<1.0
	3/22/2007		A764735	<1.0	<1.0	3.7	<1.0	<1.0	<1.0	45	<1.0	<1.0
	7/2/2007		A775739	<1.0	<1.0	63	5.0	<1.0	<1.0	170	<1.0	2.9
	9/6/2007		A781783	<5.0	<5.0	130	12	<5.0	<5.0	260	<5.0	6.0
	9/6/2007		A781784	<1.0	<1.0	110	11	<1.0	<1.0	230	<1.0	6.1
	11/29/2007		A790675	<1.0	<1.0	150	12	<1.0	<1.0	250	<1.0	4.2
	11/29/2007		A790676	<1.0	<1.0	150	12	<1.0	<1.0	250	<1.0	4.9
	3/20/2008		A803418	<1.0	<1.0	3.4	<1.0	<1.0	<1.0	18	<1.0	<1.0
	3/20/2008		A803419	<1.0	<1.0	4.6	<1.0	<1.0	<1.0	23	<1.0	<1.0
	5/30/2008		A812362	<1.0	<1.0	20	4.1	<1.0	<1.0	38	<1.0	<1.0
	5/30/2008		A812363	<1.0	<1.0	21	4.7	<1.0	<1.0	40	<1.0	<1.0
	9/23/2008		A824665	<1.0	<1.0	110	14	<1.0	<1.0	190	<1.0	2.0
	9/23/2008		A824666	<1.0	<1.0	97	14	<1.0	<1.0	170	<1.0	2.2
	12/3/2008		A832808	<1.0	<1.0	120	15	1.3B	<1.0	200	<1.0	<1.0
	12/3/2008		A832809	<1.0	<1.0	110	14	<1.0	<1.0	200	<1.0	1.0
	3/12/2009		A841802	<1.0	<1.0	150	16	<1.0	<1.0	250	<1.0	<1.0
	3/12/2009		A841803	<1.0	<1.0	130	15	<1.0	<1.0	220	<1.0	<1.0
	6/19/2009		A850609	<1.0	<1.0	7.5	3.4	<1.0	<1.0	57	<1.0	<1.0
	6/19/2009		A850612	<1.0	<1.0	7.2	3.4	<1.0	<1.0	58	<1.0	<1.0
	9/15/2009		A858550	<1.0	<1.0	150	19	<1.0	<1.0	340	<1.0	2.1
	9/15/2009		A858554	<1.0	<1.0	160	18	<1.0	<1.0	330	<1.0	2.1
	1/27/2010		5034229001	< 5.0	< 5.0	132	15	< 5.0	< 5.0	331	< 5.0	< 2.0
	1/27/2010		5034229002	< 5.0	< 5.0	97.8	13.6	< 5.0	< 5.0	297	< 5.0	< 2.0
MW-132	9/1992	10-20	NA	NA	NA	1,500*	1,500*	NA	NA	280	NA	1,200
	5/27/1993		69681	<20	<20	2,400	<20	<200	<20	1,900	NA	<100
	7/14/1995		W5070191-09	<5.0	<5.0	5,100	15	<5.0	<5.0	1,700	NA	600
	2/5/1997		W7020074-02	<120	<120	65,000	<120	<120	<120	15,000	NA	<250
	11/23/1999		253791	<5.0	<5.0	990	18	<10	<5.0	270	<5.0	580
	2/28/2000		260589	<5.0	<5.0	23,000	330	<10	13	2,900	<5.0	13
	7/22/2002		324190	<5.0	<5.0	270	11	<10	<5.0	110	<5.0	<2.0
	5/7/2003		842913	<1.0	<1.0	63.6	1	<5.0	<1.0	28.7	<1.0	<1.0
	8/22/2003		872596	<1.0	<1.0	136	4.4	<5.0	<1.0	40.9	<1.0	<1.0
	8/22/2003		872597	<1.0	<1.0	146	4.5	<5.0	<1.0	40.9	<1.0	<1.0
	12/03/2003		503002123	<5.0	<5.0	9	<5.0	<5.0	<5.0	23	<5.0	<2.0
	3/11/2004		503237166	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	9.3	<5.0	<2.0
	6/4/2004		503492647	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	12	<5.0	<2.0
	9/15/2004		A675220	<1.0	<1.0	32	4.5	<1.0	<1.0	15	<1.0	<1.0
	12/21/2004		A685833	<1.0	<1.0	60	7.1	<1.0	<1.0	16	<1.0	1.7
	3/16/2005		A693388	<1.0	<1.0	3.6	<1.0	<1.0	<1.0	7.8	<1.0	<1.0
	6/14/2005		A702985	<1.0	<1.0	12	3.0B	<1.0	<1.0	14	<1.0	<1.0
	9/22/2005		A713003	<1.0	<1.0	15.1	2.92	<1.0	<1.0	10.5	<1.0	<1.0
	12/6/2005		A721014	<1.0	<1.0	23	4.5	<1.0	<1.0	15	<1.0	<1.0
	3/13/2006		A728632	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	6/12/2006		A737743	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.5	<1.0	<1.0
MW-132R	10/13/2006	10-20	A749072	<1.0	<1.0	73	2.3	<1.0	<1.0	62	<1.0	1.4
	12/20/2006		A756757	<1.0	<1.0	39	1.7	<1.0	<1.0	41	<1.0	6.8
	3/21/2007		A764752	<1.0	<1.0	6.5	<1.0	<1.0	<1.0	15	<1.0	<1.0
	7/2/2007		A775730	<1.0	<1.0	15	<1.0	<1.0	<1.0	29	<1.0	<1.0
	9/6/2007		A781774	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	11/28/2007		A790667	<1.0	<1.0	29	3.2	<1.0	<1.0	73	<1.0	<1.0
	3/19/2008		A803409	<1.0	<1.0	14	<1.0	<1.0	<1.0	20	<1.0	2.0
	5/29/2008		A812348	<1.0	<1.0	6.4	<1.0	<1.0	<1.0	15	<1.0	<1.0
	9/23/2008		A824659	<1.0	<1.0	5.1	<1.0	<1.0	<1.0	24	<1.0	<1.0
	12/2/2008		A832827	<1.0	<1.0	25	2.1	<1.0	<1.0	44	<1.0	4.3
	3/12/2009		A841805	<1.0	<1.0	3.8	<1.0	<1.0	<1.0	13	<1.0	<1.0
	6/18/2009		A850595	<1.0	<1.0	5.3	<1.0	<1.0	<1.0	17	<1.0	<1.0
	9/15/2009		A858537	<1.0	<1.0	9.1	<1.0	<1.0	<1.0	26	<1.0	<1.0
	11/3/2009		A864527	<1.0	<1.0	9.8	1.8	<1.0	<1.0	33	<1.0	<1.0
	1/27/2010		5034229006	< 5.0	< 5.0	10.9	< 5.0	< 5.0	< 5.0	96.3	< 5.0	< 2.0
Tier II Residential Cleanup Goals - Groundwater [1]				0.289[2]	7	70	128[2]	6.30[2]	5	5	13.7[2]	2
Tier II Non-Residential Cleanup Goals - Groundwater [1]				46.1[2]	7	1,022	2,040[2]	381[2]	56.1	260	5,110[2]	10

See last page for footnotes.

Table 2a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Bromodichloromethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	1,2,4-Trimethylbenzene	Vinyl chloride
MW-133	9/1992	8-18	NA	NA	NA	**81***	**81***	NA	NA	**47**	NA	<10
	5/27/1993		69680	<1.0	<1.0	**56**	**1.4**	<10	<1.0	**24**	NA	**5.3**
	9/11/1995		W5090134-01	<5.0	<5.0	**70**	<5.0	<5.0	<5.0	**23**	NA	<10
	2/5/1997		W7020074-03	<5.0	<5.0	**100**	<5.0	<5.0	<5.0	**53**	NA	<10
	11/23/1999		253798	<5.0	<5.0	**130**	<5.0	<10	<5.0	**57**	<5.0	**7**
	2/28/2000		260596	<5.0	<5.0	**170**	<5.0	<10	<5.0	**110**	<5.0	**6.7**
MW-133R	12/04/2003	8-18	503002131	<5.0	<5.0	**49**	<5.0	<5.0	<5.0	<5.0	<5.0	**3.5**
	3/11/2004		503237208	<5.0	<5.0	**32**	<5.0	<5.0	<5.0	**5.3**	<5.0	<2.0
	6/4/2004		503492704	<5.0	<5.0	**39**	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/15/2004		A675216	<1.0	<1.0	**100**	**4.4**	<1.0	<1.0	**1.9**	<1.0	**2.6**
	12/21/2004		A685830	<1.0	<1.0	**67**	**3.4**	<1.0	<1.0	**1.7**	<1.0	<1.0
	3/16/2005		A693394	<1.0	<1.0	**22**	**1.8**	**1.3**	<1.0	**1.0**	<1.0	<1.0
	6/15/2005		A702990	<1.0	<1.0	**33**	**2.1B**	<1.0	<1.0	**1.5**	<1.0	<1.0
	9/22/2005		A713008	<1.0	<1.0	**41**	**2.73**	<1.0	<1.0	**1.37**	<1.0	<1.0
	12/7/2005		A721020	<1.0	<1.0	**45**	**3.7**	<1.0	<1.0	**1.7**	<1.0	<1.0
	3/14/2006		A728641	<1.0	<1.0	**23**	**1.8**	<1.0	<1.0	**1.8**	<1.0	<1.0
	6/13/2006		A737755	<1.0	<1.0	**25**	**2.3**	<1.0	<1.0	**1.7**	<1.0	<1.0
	9/29/2006		A747979	<1.0	<1.0	**36**	**3.8**	<1.0	<1.0	**2.3**	<1.0	<1.0
	12/20/2006		A756762	<1.0	<1.0	**28**	**3.3**	<1.0	<1.0	**2.3**	<1.0	<1.0
	3/22/2007		A764731	<1.0	<1.0	**6.6**	**1.9**	<1.0	<1.0	**1.3**	<1.0	<1.0
	7/2/2007		A775733	<1.0	<1.0	**3.5**	**2**	<1.0	<1.0	**2.2**	<1.0	<1.0
	9/6/2007		A781780	<1.0	<1.0	**9**	**3.1**	<1.0	<1.0	**3.1**	<1.0	<1.0
	11/29/2007		A790671	<1.0	<1.0	**5.3**	**2.1**	<1.0	<1.0	**2.7**	<1.0	<1.0
	3/19/2008		A803415	<1.0	<1.0	**2.1**	<1.0	<1.0	<1.0	**1.1**	<1.0	<1.0
	5/29/2008		A812353	<1.0	<1.0	**2**	**1.6**	<1.0	<1.0	**2.4**	<1.0	<1.0
	9/23/2008		A824661	<1.0	<1.0	**5.1**	**1.3**	<1.0	<1.0	**4.8**	<1.0	<1.0
	12/3/2008		A832804	<1.0	<1.0	**4.6**	**2.0**	<1.0	<1.0	**3.9**	<1.0	<1.0
	3/11/2009		A841815	<1.0	<1.0	**2.4**	**1.2**	<1.0	<1.0	**2.1**	<1.0	<1.0
	6/18/2009		A850594	<1.0	<1.0	**3.4**	**2.1**	<1.0	<1.0	**3.6**	<1.0	<1.0
	9/15/2009		A858543	<1.0	<1.0	**2.7**	**2**	<1.0	<1.0	**6.0**	<1.0	<1.0
	11/4/2009		A864532	<1.0	<1.0	**3.1**	**1.6**	<1.0	<1.0	**4.2**	<1.0	<1.0
	1/27/2010		5034231006	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0
MW-135	9/1992	10-20	NA	NA	NA	< 5.0	< 5.0	NA	NA	<5.0	NA	<10
	9/1992		NA	NA	NA	<5	<5	NA	NA	<5.0	NA	<10
	5/27/1993		69679	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	NA	<5.0
	7/14/1995		W5070191-14	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<10
	2/5/1997		W7020074-04	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<10
	11/23/1999		253802	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0
	2/29/2000		260574	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0
	11/8/2000		280651	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<2.0
	6/20/2001		296393	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<2.0
	7/15/2002		324015	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
	12/04/2003		503002149	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	12/21/2004		A685832	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/8/2005		A721032	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/21/2006		A756769	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	7/3/2007		A775747	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	11/29/2007		A790677	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/3/2008		A832811	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	11/4/2009		A864537	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-145	6/4/1993	17.5-27.5	69941	<5	<5	**440**	<5	<50	<5	**9.8**	NA	<20
	7/14/1995		W5070191-10	<5.0	<5.0	**530**	<5.0	<5	<5.0	**5.6**	NA	**12**
	2/5/1997		W7020074-05	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**43**	NA	<10
	11/23/1999		253799	<5.0	<5.0	**770**	**14**	<10	<5.0	<5.0	<5.0	**28**
	11/23/1999		253813	<5.0	<5.0	**850**	**13**	<10	<5.0	<5.0	<5.0	**31**
	2/29/2000		260597	<5.0	<5.0	**850 E**	**8.7 E**	<10	<5.0	<5.0	<5.0	**36 E**
	11/8/2000		280652	<5.0	<5.0	**710**	<5.0	<10	<5.0	<5.0	<5.0	**18**
	6/21/2001		296418	<5.0	<5.0	**630**	**5.5**	<10	<5.0	<5.0	<5.0	**170**
	7/22/2002		324184	<5.0	<5.0	**460**	**7.8**	<10	<5.0	<5.0	<5.0	**36**
	12/04/2003		503002453	<5.0	<5.0	**650**	<5.0	<5.0	<5.0	<5.0	<5.0	**14**
	12/21/2004		A685829	<1.0	<1.0	**460**	**6.0**	<1.0	<1.0	<1.0	<1.0	**6.3**
	12/8/2005		A721034	<1.0	<1.0	**150**	**5.2**	<1.0	<1.0	<1.0	<1.0	**1.1**
	12/20/2006		A756763	<10	<10	**200**	<10	<10	<10	<10	<10	<10
	7/2/2007		A775734	<1.0	<1.0	**220**	**1.6**	<1.0	<1.0	<1.0	<1.0	**7.7**
	11/29/2007		A790672	<1.0	<1.0	**150**	**2.2**	<1.0	<1.0	<1.0	<1.0	**5.6**
	12/3/2008		A832805	<1.0	<1.0	**39**	<1.0	<1.0	<1.0	<1.0	<1.0	**6.1**
	11/4/2009		A864533	<1.0	<1.0	**50**	<1.0	<1.0	<1.0	<1.0	<1.0	**5.4**
MW-146	6/4/1993	15-25	69942	**1.4**	<1.0	<1.0	<1.0	<10	<1.0	**83**	NA	<5
	7/14/1995		W5070191-11	<5.0	<5.0	<5.0	<5.0	<5	<5.0	**52**	NA	<10
	2/5/1997		W7020074-06	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**43**	NA	<10
	11/23/1999		253800	<5.0	<5.0	<5.0	<5.0	<10	<5.0	**69**	<5.0	<5.0
	2/29/2000		260572	<5.0	<5.0	<5.0	<5.0	<10	<5.0	**67**	<5.0	<5.0
	11/8/2000		280684	<5.0	<5.0	<5.0	<5.0	<10	<5.0	**70**	<5.0	<2.0
	6/21/2001		296419	<5.0	<5.0	<5.0	<5.0	<10	<5.0	**62**	<5.0	<2.0
	7/15/2002		324017	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**24.3**	<1.0	<1.0
	12/03/2003		503002461	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**42**	<5.0	<2.0
	3/11/2004		503237216	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**50**	<5.0	<2.0
	6/4/2004		503492738	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**46**	<5.0	<2.0
	9/15/2004		A675214	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**52**	<1.0	<1.0
	12/21/2004		A685828	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**74**	<1.0	<1.0
	3/16/2005		A693395	<1.0	<1.0	<1.0	<1.0	**1.2**	<1.0	**50**	<1.0	<1.0
	6/13/2005		NS									
	9/22/2005		A713010	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**43.2**	<1.0	<1.0
	12/8/2005		A721033	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**78**	<1.0	<1.0
	3/14/2006		A728643	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**47**	<1.0	<1.0
	6/14/2006		A737757	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**34**	<1.0	<1.0
	9/29/2006		A747978	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**51**	<1.0	<1.0
	12/20/2006		A756765	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**42**	<1.0	<1.0
	3/22/2007		A764732	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**36**	<1.0	<1.0
	7/2/2007		A775738	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**41**	<1.0	<1.0
	9/6/2007		A781781	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**58**	<1.0	<1.0
	11/29/2007		A790674	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**53**	<1.0	<1.0
	3/19/2008		A803417	<1.0	<1.0	**1.4**	<1.0	<1.0	<1.0	**55**	<1.0	<1.0
	5/29/2008		A812355	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**43**	<1.0	<1.0
	9/23/2008		A824664	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**46**	<1.0	<1.0
	12/3/2008		A832807	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**68**	<1.0	<1.0
	3/13/2009		A841830	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**43**	<1.0	<1.0
	6/19/2009		A850608	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**28**	<1.0	<1.0
	9/15/2009		A858551	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**50**	<1.0	<1.0
	11/4/2009		A864535	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**45**	<1.0	<1.0
	1/27/2010		5034229013	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**34**	< 5.0	< 2.0
Tier II Residential Cleanup Goals - Groundwater (1)				0.289(2)	7	70	128(2)	6.30(2)	5	5	13.7(2)	2
Tier II Non-Residential Cleanup Goals - Groundwater (1)				46.1(2)	7	1,022	2,040(2)	381(2)	56.1	260	5,110(2)	10

See last page for footnotes.

Table 2a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Bromodichloromethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	1,2,4-Trimethylbenzene	Vinyl chloride
MW-147	6/4/1993	20-30	69943	<1.0	<1.0	**140**	<1.0	<10	<1.0	**39**	NA	**42**
	7/14/1995		W5070191-08	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5.0	NA	<10
	2/5/1997		W7020074-07	<5.0	<5.0	**95**	<5.0	<5.0	<5.0	**51**	NA	<10
	11/23/1999		253790	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0
	2/28/2000		260588	<5.0	<5.0	**7.3**	<5.0	<10	<5.0	<5.0	<5.0	<5.0
	11/8/2000		280685	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<2.0
MW-147A	6/21/2001	20-30	296409	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<2.0
	7/22/2002		324189	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<2.0
	5/7/2003		842912	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
	8/22/2003		872598	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
	12/03/2003		503002578	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/11/2004		503237158	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/4/2004		503492597	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/15/2004		A675219	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/22/2004		A685820	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/16/2005		A693392	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	6/14/2005		A702984	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/22/2005		A713025	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/7/2005		A721015	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/13/2006		A728631	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	6/12/2006		A737742	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-147AR	10/13/2006	20-30	A749071	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/20/2006		A756756	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/21/2007		A764751	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	7/2/2007		A775728	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/6/2007		A781775	<1.0	<1.0	**19**	**1.1**	<1.0	<1.0	**36**	<1.0	**2.4**
	11/28/2007		A790678	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/19/2008		A803408	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/29/2008		A812347	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/23/2008		A824658	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.1**	<1.0	<1.0
	12/2/2008		A832838	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/12/2009		A841810	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	6/18/2009		A850596	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/15/2009		A858538	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	11/3/2009		A864526	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	1/27/2010		5034231001	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0
MW-148	6/4/1993	10.5-25.5	69944	<80	<80	**19,000**	<80	<800	<80	**4,900**	NA	**490**
	7/14/1995		W5070191-07	<5.0	<5.0	**1,400**	**12**	<5	<5.0	**410**	NA	**92**
	2/5/1997		W7020074-08	<5.0	<5.0	**73**	<5.0	<5.0	<5.0	<5.0	NA	<10
	11/23/1999		253792	<5.0	**5.2**	**1,200**	**24**	<10	<5.0	**310**	<5.0	**200**
	2/28/2000		260583	<5.0	<5.0	**1,200**	**11**	<10	<5.0	**300**	<5.0	**180**
	2/28/2000		260568	<5.0	<5.0	**1,600**	**20**	<10	<5.0	**400**	<5.0	**270**
	11/8/2000		280686	<5.0	<5.0	**440**	<5.0	<10	<5.0	**190**	<5.0	**35**
	11/8/2000		280687	<5.0	<5.0	**450**	<5.0	<10	<5.0	**160**	<5.0	**39**
	6/21/2001		296407	<5.0	<5.0	**1,100**	**10**	<10	<5.0	**340**	<5.0	**50**
	6/21/2001		296408	<5.0	<5.0	**1,100**	**11**	<10	<5.0	**360**	<5.0	**50**
	7/22/2002		324188	<5.0	<5.0	**360**	**19**	<10	<5.0	**170**	<5.0	<2.0
	5/7/2003		842914	<1.0	<1.0	**23.1**	**1.7**	<5.0	<1.0	**56.5**	<1.0	<1.0
	8/22/2003		872599	<1.0	<1.0	**50.6**	**1.9**	<5.0	<1.0	**80.5**	<1.0	<1.0
	12/03/2003		503002479	<5.0	<5.0	**30**	<5.0	<5.0	<5.0	**100**	<5.0	<2.0
	3/11/2004		503237174	<5.0	<5.0	**34**	<5.0	<5.0	<5.0	**20**	<5.0	<2.0
	6/4/2004		503492654	<5.0	<5.0	**35**	<5.0	<5.0	<5.0	**6.4**	<5.0	**2.6**
	9/16/2004		A675221	<1.0	<1.0	**36**	**1.8**	<1.0	<1.0	**5.6**	<1.0	**5.7**
	12/21/2004		A685831	<1.0	<1.0	**38**	**2.5**	<1.0	<1.0	**26**	<1.0	**3.7**
	3/16/2005		A693389	<1.0	<1.0	**41**	**2.4**	<1.0	<1.0	**2.1**	<1.0	**5.7**
	6/14/2005		A702986	<1.0	<1.0	**38**	**2.0B**	<1.0	<1.0	**6.5**	<1.0	**9.4**
	9/22/2005		A713004[3]	<1.0	<1.0	**79.9**	**5.49**	<1.0	<1.0	**68.8**	<1.0	**61.6**
	12/7/2005		A721016	<1.0	<1.0	**93**	**8.3**	<1.0	<1.0	**100**	<1.0	**120**
	3/13/2006		A728633	<1.0	<1.0	**200**	**14**	<1.0	<1.0	**200**	<1.0	**120**
	6/12/2006		A737744	<1.0	<1.0	**32**	**1.4**	<1.0	<1.0	**14**	<1.0	**4.8**
MW-148R	10/13/2006	10.5-25.5	A749073	<1.0	<1.0	**1,000**	**42**	<1.0	<1.0	**180**	<1.0	**140**
	12/20/2006		A756758	<10	<10	**520**	**22**	<10	<10	**100**	<10	**43**
	3/21/2007		A764753	<1.0	<1.0	**11**	**1.4**	<1.0	<1.0	**30**	<1.0	<1.0
	7/2/2007		A775731	<1.0	<1.0	**330**	**23**	<1.0	<1.0	**68**	<1.0	**30**
	9/6/2007		A781776	<10	<10	**130**	**16**	<10	<10	**530**	<10	<10
	11/29/2007		A790668	<1.0	<1.0	**1,000**	**77**	<1.0	<1.0	**220**	<1.0	**33**
	3/19/2008		A803411	<1.0	<1.0	**130**	**10**	<1.0	<1.0	**32**	<1.0	**4.2**
	5/29/2008		A812349	<10	<10	**160**	**13**	<10	<10	**82**	<10	**10**
	9/23/2008		A824660	<10	<10	**580**	**70**	<10	<10	**57**	<10	**44**
	12/2/2008		A832800	<1.0	**1.4**	**840**	**80**	<1.0	<1.0	**130**	<1.0	**91**
	3/12/2009		A841804	<1.0	**1.1**	**630**	**47**	<1.0	<1.0	**170**	<1.0	**39**
	6/19/2009		A850602	<1.0	<1.0	**8.1**	**1.1**	<1.0	<1.0	**44**	<1.0	<1.0
	9/15/2009		A858545	<1.0	**1.3**	**530**	**54**	<1.0	<1.0	**88**	<1.0	**100**
	11/3/2009		A864528	<1.0	<1.0	**480**	**39**	<1.0	<1.0	**110**	<1.0	**48**
	1/27/2010		5034229005	< 5.0	< 5.0	**190**	**31.3**	< 5.0	< 5.0	**201**	< 5.0	< 2.0
MW-150	7/17/1995	4-19	W5070229-01	<5.0	<5.0	**6.7**	<5.0	<5.0	<5.0	**65**	NA	<10
	2/5/1997		W7020074-09	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**86**	NA	<10
	11/23/1999		253803	<5.0	<5.0	**14**	<5.0	<10	<5.0	**130**	<5.0	<5.0
	2/29/2000		260575	<5.0	<5.0	**13**	<5.0	<10	<5.0	**120**	<5.0	<5.0
	11/8/2000		280688	<5.0	<5.0	**14**	<5.0	<10	<5.0	**86**	<5.0	<2.0
	6/20/2001		296390	<5.0	<5.0	**28**	<5.0	<10	<5.0	**200**	<5.0	<2.0
	7/19/2002		324159	<5.0	<5.0	<5.0	<5.0	<10	<5.0	**30**	<5.0	<2.0
	5/7/2003		842917	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	**37.1**	<1.0	<1.0
	8/22/2003		872600	<1.0	<1.0	**1.7**	<1.0	<5.0	<1.0	**56.1**	<1.0	<1.0
	12/03/2003		503002529	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**14**	<5.0	<2.0
	3/11/2004		503237232	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**20**	<5.0	<2.0
	6/4/2004		503492753	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**12**	<5.0	<2.0
	9/15/2004		A675211	<1.0	<1.0	**1.1**	<1.0	<1.0	<1.0	**23**	<1.0	<1.0
	12/21/2004		A685827	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**37**	<1.0	<1.0
	3/16/2005		A693386	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**15**	<1.0	<1.0
	6/15/2005		A702988	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**9.7**	<1.0	<1.0
	9/26/2005		A713023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**11**	<1.0	<1.0
	12/7/2005		A721030	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**12**	<1.0	<1.0
	3/15/2006		A728646	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**6.8**	<1.0	<1.0
	6/14/2006		A737760	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**2.5**	<1.0	<1.0
	9/27/2006		A747975	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**3.2**	<1.0	<1.0
	12/21/2006		A756770	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**3.2**	<1.0	<1.0
	3/22/2007		A764738	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**2.1**	<1.0	<1.0
	7/3/2007		A775748	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**2.8**	<1.0	<1.0
Tier II Residential Cleanup Goals - Groundwater [1]				0.289[2]	7	70	128[2]	6.30[2]	5	5	13.7[2]	2
Tier II Non-Residential Cleanup Goals - Groundwater [1]				46.1[2]	7	1,022	2,040[2]	381[2]	56.1	260	5,110[2]	10

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Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
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Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Bromodichloromethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	1,2,4-Trimethylbenzene	Vinyl chloride
MW-150	9/7/2007	4-19	A781791	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.6	<1.0	<1.0
(cont'd.)	11/29/2007		A790705	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6.4	<1.0	<1.0
	3/20/2008		A803420	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6.8	<1.0	<1.0
	5/29/2008		A812356	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.2	<1.0	<1.0
	9/23/2008		A824667	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	8.3	<1.0	<1.0
	12/3/2008		A832810	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6.3	<1.0	<1.0
	3/12/2009		A841827	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.1	<1.0	<1.0
	6/19/2009		A850604	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.9	<1.0	<1.0
	9/16/2009		A858565	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	7.0	<1.0	<1.0
	11/4/2009		A864536	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	7.3	<1.0	<1.0
	1/27/2010		5034229011	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	7.3	< 5.0	< 2.0
MW-151	7/14/1995	5-20	W5070191-03	<5.0	<5.0	74	7.4	<5	<5.0	<5.0	NA	<10
	2/6/1997		W7020074-13	<5.0	<5.0	20	<5.0	<5.0	<5.0	<5.0	NA	<10
	11/23/1999		253809	<5.0	<5.0	35	5.2	<10	<5.0	<5.0	<5.0	<5.0
	2/29/2000		260579	<5.0	<5.0	45	6.3	<10	<5.0	<5.0	<5.0	<5.0
	11/8/2000		280689	<5.0	<5.0	54	6.8	<10	<5.0	<5.0	<5.0	<2.0
	6/20/2001		296398	<5.0	<5.0	46	6.5	<10	<5.0	<5.0	<5.0	<2.0
	7/18/2002		324114	<1.0	<1.0	6.4	<1.0	<5.0	<1.0	2.2	<1.0	<1.0
	12/04/2003		503002586	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.4	<5.0	<5.0
	3/3/2004		503207532	NA	NA	NA	NA	NA	NA	6.4	NA	NA
	6/4/2004		503492951	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	11	< 5.0	< 2.0
	7/16/2004		A669501	<1.0	<1.0	3.1	3.8	<1.0	<1.0	5.1	<1.0	<1.0
	8/16/2004		A671802	<1.0	<1.0	2.6	4.1	1.2	<1.0	5.4	<1.0	<1.0
	9/14/2004		A675210	<1.0	<1.0	3.0	4.0	<1.0	<1.0	5.7	<1.0	<1.0
	10/18/2004		A678047	<1.0	<1.0	3.1	5.3	<1.0	<1.0	5.4	<1.0	<1.0
	11/19/2004		A681814	<1.0	<1.0	3.5	5.7	<1.0	<1.0	4.7	<1.0	<1.0
	12/21/2004		A685816	<1.0	<1.0	4.1	5	<1.0	<1.0	6.4	<1.0	<1.0
	1/24/2005		A688376	<1.0	<1.0	3.3	2.7	<1.0	<1.0	5.0	<1.0	<1.0
	3/16/2005		A693384	<1.0	<1.0	3.6	3.1	<1.0	<1.0	5.3	<1.0	<1.0
	6/14/2005		A702981	<1.0	<1.0	2.8	3.7B	<1.0	<1.0	3.6	<1.0	<1.0
	9/23/2005		A713017	<1.0	<1.0	3.23	2.47	<1.0	<1.0	4.57	<1.0	<1.0
	12/7/2005		A721026	<1.0	<1.0	4.6	3.2	<1.0	<1.0	4.8	<1.0	<1.0
	3/15/2006		A728652	<1.0	<1.0	3.4	1.5	<1.0	<1.0	4.8	<1.0	<1.0
	6/14/2006		A737762	<1.0	<1.0	2.6	1.6	<1.0	<1.0	4.6	<1.0	<1.0
	9/27/2006		A747965	<1.0	<1.0	3.6	1.6	<1.0	<1.0	6.6	<1.0	<1.0
	11/21/2006		A753698	<1.0	<1.0	3.5	1.7	<1.0	<1.0	7.4	<1.0	<1.0
	12/21/2006		A756776	<1.0	<1.0	3.5	1.9	<1.0	<1.0	6.5	<1.0	<1.0
	1/19/2007		A758754	<1.0	<1.0	2.2	1.1	<1.0	<1.0	6.0	<1.0	<1.0
	1/19/2007		A758756	<1.0	<1.0	2.0	1.4	<1.0	<1.0	5.8	<1.0	<1.0
	3/23/2007		A764757	<1.0	<1.0	1.6	1.2	<1.0	<1.0	4.2	<1.0	<1.0
	9/6/2007		A781786	<1.0	<1.0	2.7	1.7	<1.0	<1.0	7.6	<1.0	<1.0
	11/30/2007		A790717	<1.0	<1.0	2.9	1.8	<1.0	<1.0	8.3	<1.0	<1.0
	3/20/2008		A803427	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.7	<1.0	<1.0
	5/30/2008		A812366	<1.0	<1.0	1.6	<1.0	<1.0	<1.0	6.1	<1.0	<1.0
	9/24/2008		A824676	<1.0	<1.0	1.8	1.2	<1.0	<1.0	9.1	<1.0	<1.0
	12/3/2008		A832817	<1.0	<1.0	2.1	1.7	<1.0	<1.0	7.8	<1.0	<1.0
	3/13/2009		A841808	<1.0	<1.0	1.8	1.4	<1.0	<1.0	5.1	<1.0	<1.0
	6/18/2009		A850592	<1.0	<1.0	2.0	1.6	<1.0	<1.0	6.2	<1.0	<1.0
	9/16/2009		A858563	<1.0	<1.0	1.7	1.6	<1.0	<1.0	5.3	<1.0	<1.0
	11/4/2009		A864556	<1.0	<1.0	1.6	1.7	<1.0	<1.0	7.0	<1.0	<1.0
	1/27/2010		5034229008	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0
MW-152	7/14/1995	5-20	W5070191-01	<5.0	<5.0	5.3	<5.0	<5	<5.0	150	NA	<10
	2/5/1997		W7020074-10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	150	NA	<10
	11/23/1999		253801	<5.0	<5.0	<5.0	<5.0	<10	<5.0	110	<5.0	<5.0
	2/29/2000		260573	<5.0	<5.0	5.1	<5.0	<10	<5.0	180	<5.0	<5.0
	11/8/2000		280690	<5.0	<5.0	<5.0	<5.0	<10	<5.0	180	<5.0	<2.0
	6/20/2001		296401	<5.0	<5.0	7	<5.0	<10	<5.0	240	<5.0	<2.0
	7/15/2002		324016	<1.0	<1.0	1.9	<1.0	<5.0	<1.0	139	<1.0	<1.0
	12/03/2003		503002537	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	110	<5.0	<2.0
	3/11/2004		503237224	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	79	<5.0	<2.0
	6/4/2004		503492720	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	36	<5.0	<2.0
	9/15/2004		A675215	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	62	<1.0	<1.0
	12/21/2004		A685826	<1.0	<1.0	1.3	<1.0	<1.0	<1.0	99	<1.0	<1.0
	3/16/2005		A693387	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	68	<1.0	<1.0
	6/15/2005		A702989	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	50	<1.0	<1.0
	9/22/2005		A713009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	62.6	<1.0	<1.0
	12/7/2005		A721021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	59	<1.0	<1.0
	3/14/2006		A728642	<1.0	<1.0	3.5	<1.0	<1.0	<1.0	260	<1.0	<1.0
	6/14/2006		A737756	<1.0	<1.0	1.5	<1.0	<1.0	<1.0	100	<1.0	<1.0
	9/29/2006		A747983	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	110	<1.0	<1.0
	12/20/2006		A756764	<10	<10	<10	<10	<10	<10	91	<10	<10
	3/22/2007		A764733	<1.0	<1.0	1.2	<1.0	<1.0	<1.0	110	<1.0	<1.0
	7/2/2007		A775737	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	68	<1.0	<1.0
	9/6/2007		A781782	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	52	<1.0	<1.0
	11/29/2007		A790673	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	76	<1.0	<1.0
	3/19/2008		A803416	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	42	<1.0	<1.0
	5/29/2008		A812354	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	46	<1.0	<1.0
	9/23/2008		A824663	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	61	<1.0	<1.0
	12/3/2008		A832806	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	51	<1.0	<1.0
	3/12/2009		A841826	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	69	<1.0	<1.0
	6/19/2009		A850603	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	92	<1.0	<1.0
	9/15/2009		A858544	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	35	<1.0	<1.0
	11/4/2009		A864534	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	110	<1.0	<1.0
	1/27/2010		5034229012	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	49.7	< 5.0	< 2.0
MW-153	7/14/1995	4.5-19.5	W5070191-02	<5.0	<5.0	980	<5.0	<5.0	<5.0	570	NA	22
	2/6/1997		W7020074-14	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.4	NA	<10
	2/6/1997		W7020074-23	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<10
	11/23/1999		253796	<5.0	<5.0	950	19	<10	<5.0	330	<5.0	67
	2/28/2000		260594	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0
	11/8/2000		280691	<5.0	<5.0	4,200	37	<10	<5.0	250	<5.0	590
	6/21/2001		296404	<5.0	<5.0	16	<5.0	<10	<5.0	7.3	<5.0	<2.0
	6/21/2001		296405	<5.0	<5.0	15	<5.0	<10	<5.0	<5.0	<5.0	<2.0
	7/22/2002		324185	<5.0	5.3	3,600	140	<10	<5.0	290	<5.0	65
	5/7/2003		842915	<1.0	3.4	3,320	50	<5.0	<1.0	384	<1.0	1.1
	5/7/2003		842916	<1.0	3.5	3,270	53	<5.0	<1.0	381	<1.0	1.1
	8/22/2003		872601	<1.0	2.1	1,590	35	<5.0	<1.0	707	<1.0	1.4
	12/03/2003		503002545	<5.0	<5.0	770	33	<5.0	<5.0	420	<5.0	<2.0
	12/03/2003		503002552	<5.0	<5.0	700	34	<5.0	<5.0	420	<5.0	<2.0
	3/11/2004		503237182	<5.0	<5.0	500	25	<5.0	<5.0	440	<5.0	<2.0
	3/11/2004		503237190	<5.0	<5.0	540	24	<5.0	<5.0	450	<5.0	<2.0
Tier II Residential Cleanup Goals - Groundwater [1]				0.289[2]	7	70	128[2]	6.30[2]	5	5	13.7[2]	2
Tier II Non-Residential Cleanup Goals - Groundwater [1]				46.1[2]	7	1,022	2,040[2]	381[2]	56.1	260	5,110[2]	10

See last page for footnotes.

Table 2a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Bromodichloromethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	1,2,4-Trimethylbenzene	Vinyl chloride
MW-153	6/4/2004	4.5-19.5	503492670	<5.0	<5.0	**790**	**15**	<5.0	<5.0	**620**	<5.0	<2.0
(cont'd)	6/4/2004		503492696	<5.0	<5.0	**850**	**19**	<5.0	<5.0	**630**	<5.0	<2.0
	9/15/2004		A675218	<1.0	<1.0	**380**	**12**	<1.0	<1.0	**330**	<1.0	<1.0
	9/15/2004		A675222	<1.0	<1.0	**390**	**12**	<1.0	<1.0	**350**	<1.0	<1.0
	12/22/2004		A685835	<1.0	<1.0	**58**	**5.0**	<1.0	<1.0	**200**	<1.0	<1.0
	12/22/2004		A685821	<1.0	<1.0	**56**	**4.4**	<1.0	<1.0	**210**	<1.0	<1.0
	3/16/2005		A693390	<1.0	<1.0	**50**	**4.4**	<1.0	<1.0	**200**	<1.0	<1.0
	3/16/2005		A693391	<1.0	<1.0	**41**	**3.9**	<1.0	<1.0	**220**	<1.0	<1.0
	6/15/2005		A702991	<1.0	<1.0	**160**	**7.1B**	<1.0	<1.0	**420**	<1.0	<1.0
	6/15/2005		A702998	<1.0	<1.0	**140**	**7.6**	<1.0	<1.0	**360**	<1.0	<1.0
	9/22/2005		A713006	<1.0	<1.0	**23.5**	**1.92**	<1.0	<1.0	**111**	<1.0	<1.0
	9/22/2005		A713007[4]	<1.0	<1.0	**21.7**	**2.25**	<1.0	<1.0	**109**	<1.0	<1.0
	12/7/2005		A721018	<1.0	<1.0	**33**	**2.8**	<1.0	<1.0	**140**	<1.0	<1.0
	12/7/2005		A721019	<1.0	<1.0	**30**	**2.9**	<1.0	<1.0	**160**	<1.0	<1.0
	3/14/2006		A728638	<1.0	<1.0	**6.5**	<1.0	<1.0	<1.0	**52**	<1.0	<1.0
	3/14/2006		A728639	<1.0	<1.0	**6.3**	<1.0	<1.0	<1.0	**49**	<1.0	<1.0
	6/13/2006		A737752	<1.0	<1.0	**87**	**8**	<1.0	<1.0	**210**	<1.0	**1.3**
	6/13/2006		A737753	<1.0	<1.0	**92**	**8.1**	<1.0	<1.0	**200**	<1.0	**1.4**
	9/29/2006		A747980	<1.0	<1.0	**26**	**5**	<1.0	<1.0	**120**	<1.0	<1.0
	9/29/2006		A747981	<1.0	<1.0	**28**	**5.3**	<1.0	<1.0	**180**	<1.0	<1.0
	11/21/2006		A753699	<1.0	<1.0	**3.5**	**1.6**	<1.0	<1.0	**7.1**	<1.0	<1.0
	12/20/2006		A756759	<10	<10	**76**	<10	<10	<10	**170**	<10	<10
	12/20/2006		A756760	<10	<10	**86**	<10	<10	<10	**180**	<10	<10
	3/21/2007		A764754	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/21/2007		A764729	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	7/2/2007		A775732	<1.0	<1.0	**200**	**13**	<1.0	<1.0	**220**	<1.0	<1.0
	9/6/2007		A781777	<5.0	<5.0	**230**	**19**	<5.0	<5.0	**84**	<5.0	<5.0
	9/6/2007		A781778	<1.0	<1.0	**74**	**9.4**	<1.0	<1.0	**260**	<1.0	<1.0
	11/29/2007		A790669	<1.0	<1.0	**180**	**12**	<1.0	<1.0	**390**	<1.0	<1.0
	11/29/2007		A790670	<1.0	<1.0	**190**	**9.3**	<1.0	<1.0	**400**	<1.0	<1.0
	3/19/2008		A803412	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**6.3**	<1.0	<1.0
	3/19/2008		A803413	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**4.6**	<1.0	<1.0
	5/29/2008		A812350	<1.0	<1.0	**11**	**2**	<1.0	<1.0	**89**	<1.0	<1.0
	5/29/2008		A812351	<1.0	<1.0	**12**	**2.2**	<1.0	<1.0	**93**	<1.0	<1.0
	9/23/2008		A824670	<1.0	<1.0	**32**	**4.9**	<1.0	<1.0	**260**	<1.0	<1.0
	12/2/2008		A832801	<1.0	<1.0	**31**	**3.2**	<1.0	<1.0	**220**	<1.0	<1.0
	12/2/2008		A832802	<1.0	<1.0	**29**	**3.2**	<1.0	<1.0	**220**	<1.0	<1.0
	3/13/2009		A841831	<1.0	<1.0	**9.9**	**1.6**	<1.0	<1.0	**91**	<1.0	<1.0
	3/13/2009		A841832	<1.0	<1.0	**10**	**1.5**	<1.0	<1.0	**89**	<1.0	<1.0
	6/19/2009		A850606	<1.0	<1.0	**3.9**	<1.0	<1.0	<1.0	**63**	<1.0	<1.0
	6/19/2009		A850611	<1.0	<1.0	**4.1**	<1.0	<1.0	<1.0	**63**	<1.0	<1.0
	9/15/2009		A858552	<1.0	<1.0	**16**	**1.9**	<1.0	<1.0	**120**	<1.0	<1.0
	9/15/2009		A858555	<1.0	<1.0	**20**	**2.1**	<1.0	<1.0	**130**	<1.0	<1.0
	11/3/2009		A864529	<1.0	<1.0	**25**	**2.1**	<1.0	<1.0	**190**	<1.0	<1.0
	11/3/2009		A864530	<1.0	<1.0	**24**	**2.2**	<1.0	<1.0	**180**	<1.0	<1.0
	1/27/2010		5034229003	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**79.5**	< 5.0	< 2.0
	1/27/2010		5034229004	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**76.8**	< 5.0	< 2.0
MW-154	7/14/1995	5-20	W5070191-12	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5.0	NA	<10
	2/5/1997		W7020074-11	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<10
	11/23/1999		253789	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0
	2/28/2000		260587	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0
	11/8/2000		280692	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<2.0
	6/21/2001		296410	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<2.0
	7/22/2002		324191	<5.0	<5.0	**8.5**	<5.0	<10	<5.0	<5.0	<5.0	<2.0
	12/03/2003		503002560	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/11/2004		503237141	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	12/22/2004		A685834	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	6/14/2005		A702975	<1.0	<1.0	<1.0	<1.0	**2.8**	<1.0	<1.0	<1.0	<1.0
	12/6/2005		A721013	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/20/2006		A756755	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	7/2/2007		A775727	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	7/2/2007		A775729	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	11/28/2007		A790704	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/2/2008		A832826	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	11/3/2009		A864551	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-156	9/11/1995	5-20	W5090134-03	<5.0	<5.0	**30**	<5.0	<5.0	<5.0	**280**	NA	<10
	2/6/1997		W7020074-16	<5.0	<5.0	**7.5**	<5.0	<5.0	<5.0	**52**	NA	<10
	2/6/1997		W7020074-24	<5.0	<5.0	**6.9**	<5.0	<5.0	<5.0	**50**	NA	<10
	11/23/1999		253807	<5.0	<5.0	<5.0	<5.0	<10	<5.0	**48**	<5.0	<5.0
	2/29/2000		260577	<5.0	<5.0	<5.0	<5.0	<10	<5.0	**65**	<5.0	<5.0
	11/8/2000		280694	<5.0	<5.0	**11**	<5.0	<10	<5.0	**190**	<5.0	<2.0
	6/20/2001		296402	<5.0	<5.0	<5.0	<5.0	<10	<5.0	**79**	<5.0	<2.0
	7/18/2002		324116	**2.8**	<1.0	**15.8**	<1.0	<5.0	<1.0	**292**	<1.0	<1.0
	12/04/2003		503002594	< 5.0	< 5.0	**18**	< 5.0	< 5.0	< 5.0	**250**	< 5.0	<2.0
	3/11/2004		503237133	< 5.0	< 5.0	**28**	< 5.0	< 5.0	< 5.0	**330**	< 5.0	<2.0
	6/11/2004		503518128	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**24**	< 5.0	<2.0
	6/11/2004		503518136	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**22**	< 5.0	<2.0
	7/16/2004		A669500	<1.0	<1.0	**36**	**2.8**	<1.0	<1.0	**230**	<1.0	<1.0
	8/16/2004		A671801	<1.0	<1.0	**37**	**3.3**	<1.0	<1.0	**230**	<1.0	<1.0
	9/14/2004		A675209	<1.0	<1.0	**50**	**4.6**	<1.0	<1.0	**260**	<1.0	<1.0
	10/18/2004		A678049	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**13**	<1.0	<1.0
	11/19/2004		A681813	<1.0	<1.0	**52**	**4.2**	<1.0	<1.0	**260**	<1.0	<1.0
	12/21/2004		A685817	<1.0	<1.0	**54**	**3.9**	<1.0	<1.0	**250**	<1.0	<1.0
	1/24/2005		A688375	<1.0	<1.0	**35**	**2.9**	<1.0	<1.0	**130**	<1.0	<1.0
	3/16/2005		A693385	<1.0	<1.0	**53**	**4.1**	<1.0	<1.0	**230**	<1.0	<1.0
	6/14/2005		A702980	<1.0	<1.0	**3.7**	<1.0	<1.0	<1.0	**29**	<1.0	<1.0
	9/23/2005		A713018	<1.0	<1.0	**50**	**4.2**	<1.0	<1.0	**190**	<1.0	<1.0
	12/7/2005		A721027	<1.0	<1.0	**41**	**3.4**	<1.0	<1.0	**160**	<1.0	<1.0
	3/15/2006		A728651	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**4.3**	<1.0	<1.0
	6/14/2006		A737761	<1.0	<1.0	**36**	**3.5**	<1.0	<1.0	**160**	<1.0	<1.0
	9/27/2006		A747964	<1.0	<1.0	**46**	**4.7**	<1.0	<1.0	**240**	<1.0	<1.0
	11/21/2006		A753700	<1.0	<1.0	**11**	**1.3**	<1.0	<1.0	**100**	<1.0	<1.0
	12/21/2006		A756775	<10	<10	**55**	<10	<10	<10	**240**	<10	<10
	1/19/2007		A758755	<1.0	<1.0	**34**	**3.4**	<1.0	<1.0	**200**	<1.0	<1.0
	3/23/2007		A764756	<1.0	<1.0	**40**	**3.8**	<1.0	<1.0	**170**	<1.0	<1.0
	7/3/2007		A775749	<1.0	<1.0	**41**	**4.6**	<1.0	<1.0	**170**	<1.0	<1.0
	7/3/2007		A775750	<1.0	<1.0	**39**	**4.2**	<1.0	<1.0	**190**	<1.0	<1.0
	9/6/2007		A781789	<1.0	<1.0	**51**	**5.8**	<1.0	<1.0	**230**	<1.0	<1.0
	11/30/2007		A790716	<1.0	<1.0	**52**	**4.3**	<1.0	<1.0	**200**	<1.0	<1.0
	3/20/2008		A803425	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**7.6**	<1.0	<1.0
	5/30/2008		A812361	<1.0	<1.0	**31**	**3.0**	<1.0	<1.0	**150**	<1.0	<1.0
Tier II Residential Cleanup Goals - Groundwater [1]				0.289[2]	7	70	128[2]	6.30[2]	5	5	13.7[2]	2
Tier II Non-Residential Cleanup Goals - Groundwater [1]				46.1[2]	7	1,022	2,040[2]	381[2]	56.1	260	5,110[2]	10

See last page for footnotes.

Table 2a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Bromodichloromethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	1,2,4-Trimethylbenzene	Vinyl chloride
MW-156 (cont'd.)	9/24/2008	5-20	A824675	<1.0	<1.0	43	3.5	<1.0	<1.0	180	<1.0	<1.0
	12/3/2008		A832816	<5.0	<5.0	71	<5.0	<5.0	<5.0	160	<5.0	<5.0
	3/12/2009		A841806	<1.0	<1.0	27	2.4	<1.0	<1.0	120	<1.0	<1.0
	6/18/2009		A850593	<1.0	<1.0	23	2.1	<1.0	<1.0	79	<1.0	<1.0
	9/16/2009		A858564	<1.0	<1.0	54	5.1	<1.0	<1.0	210	<1.0	<1.0
	11/4/2009		A864555	<1.0	<1.0	38	3.8	<1.0	<1.0	140	<1.0	<1.0
	1/27/2010		5034229009	< 5.0	< 5.0	25.1	< 5.0	< 5.0	< 5.0	115	< 5.0	< 2.0
MW-157	2/6/1997	5-20	W7020074-19	<50	<50	<50	<50	<50	<50	60	NA	<100
	2/26/1997		W7020396-01	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	100	NA	<10
	2/29/2000		260581	<5.0	<5.0	<5.0	<5.0	<10	<5.0	100	<5.0	<5.0
	11/8/2000		280695	<5.0	<5.0	<5.0	<5.0	<10	<5.0	120	<5.0	<2.0
	6/21/2001		296411	<5.0	<5.0	7.3	<5.0	<10	<5.0	65	<5.0	<2.0
	7/19/2002		324153	<5.0	<5.0	<5.0	<5.0	<10	<5.0	99	<5.0	<2.0
	12/4/2003		503002602	<5.0	<5.0	5.3	<5.0	<5.0	<5.0	100	<5.0	<2.0
	3/11/2004		503237125	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	110	<5.0	<2.0
	6/4/2004		503493256	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	16	<5.0	<2.0
	9/14/2004		A675208	<1.0	<1.0	2.6	<1.0	<1.0	<1.0	90	<1.0	<1.0
	12/21/2004		A685815	<1.0	<1.0	1.9	<1.0	<1.0	<1.0	120	<1.0	<1.0
	3/15/2005		A693378	<1.0	<1.0	1.6	<1.0	<1.0	<1.0	89	<1.0	<1.0
	6/14/2005		A702982	<1.0	<1.0	2.0	<1.0	<1.0	<1.0	94	<1.0	<1.0
	9/23/2005		A713016	<1.0	<1.0	1.91	<1.0	<1.0	<1.0	94.9	<1.0	<1.0
	12/5/2005		NS									
	3/13/2006		NS									
	6/15/2006		A737767	<1.0	<1.0	1.3	<1.0	<1.0	<1.0	89	<1.0	<1.0
	10/13/2006		A749067	<1.0	<1.0	1.6	<1.0	<1.0	<1.0	120	<1.0	<1.0
	12/21/2006		A756777	<1.0	<1.0	3.6	<1.0	<1.0	<1.0	110	<1.0	<1.0
	3/23/2007		A764758	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	57	<1.0	<1.0
	7/3/2007		A775757	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	100	<1.0	<1.0
	9/7/2007		A781795	<1.0	<1.0	1.2	<1.0	<1.0	<1.0	120	<1.0	<1.0
	11/30/2007		A790706	<1.0	<1.0	1.0	<1.0	<1.0	<1.0	100	<1.0	<1.0
	3/19/2008		A803426	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	9.3	<1.0	<1.0
	5/30/2008		A812364	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	53	<1.0	<1.0
	9/24/2008		A824677	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	71	<1.0	<1.0
	12/3/2008		A832818	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	95	<1.0	<1.0
	3/12/2009		A841816	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	98	<1.0	<1.0
	9/16/2009		A858558	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	70	<1.0	<1.0
	11/4/2009		A864558	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	92	<1.0	<1.0
	1/27/2010		5034229007	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	89.1	< 5.0	< 2.0
MW-160	3/2/2000	3-13	260551	<5.0	<5.0	61	<5.0	<10	<5.0	<5.0	<5.0	<5.0
	11/8/2000		280698	<5.0	<5.0	51	<5.0	<10	<5.0	<5.0	<5.0	5.4
	6/21/2001		296417	<5.0	<5.0	47	<5.0	<10	<5.0	<5.0	<5.0	3.3
	7/17/2002		324027	<1.0	<1.0	107	1.5	<5.0	<1.0	<1.0	<1.0	5.2
	7/17/2002		324028	<1.0	<1.0	111	1.5	<5.0	<1.0	<1.0	<1.0	5
	12/04/2003		503002610	<5.0	<5.0	240	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/11/2004		503237281	<5.0	<5.0	240	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/4/2004		503493264	<5.0	<5.0	73	<5.0	<5.0	<5.0	400	<5.0	<2.0
	9/16/2004		A675223	<1.0	<1.0	180	2.5	<1.0	<1.0	<1.0	<1.0	7.2
	12/22/2004		A685818	<1.0	<1.0	120	1.8	<1.0	<1.0	<1.0	<1.0	8.7
	3/17/2005		A693399	<1.0	<1.0	190	2.8	<1.0	<1.0	<1.0	<1.0	2.7
	6/13/2005		A702969	<1.0	<1.0	56	<1.0	1.0	<1.0	<1.0	<1.0	9
	9/23/2005		A713022	<1.0	<1.0	55	<1.0	<1.0	<1.0	<1.0	<1.0	18
	12/6/2005		A721006	<1.0	<1.0	95	2.3	<1.0	<1.0	<1.0	<1.0	25
	4/5/2006		A730656	<1.0	<1.0	92	1.9	<1.0	<1.0	<1.0	<1.0	9.5
	6/13/2006		A737750	<1.0	<1.0	63	1.1	<1.0	<1.0	<1.0	<1.0	18
	10/13/2006		A749068	<1.0	<1.0	86	1.8	<1.0	<1.0	<1.0	<1.0	7.9
	1/19/2007		A758748	<1.0	<1.0	60	1.4	<1.0	<1.0	<1.0	<1.0	7.4
	3/22/2007		A764736	<1.0	<1.0	58	1.6	<1.0	<1.0	<1.0	<1.0	6.5
	7/2/2007		A775736	<1.0	<1.0	5.4	<1.0	<1.0	<1.0	1.5	<1.0	2.0
	9/6/2007		A781787	<1.0	<1.0	5.9	<1.0	<1.0	<1.0	1.2	<1.0	2.1
	11/28/2007		A790701	<1.0	<1.0	22	<1.0	<1.0	<1.0	<1.0	<1.0	17
	4/15/2008		A806503	<1.0	<1.0	40	<1.0	<1.0	<1.0	<1.0	<1.0	5.4
	5/30/2008		A812367	<1.0	<1.0	22	<1.0	<1.0	<1.0	<1.0	<1.0	2.5
	9/24/2008		A824679	<1.0	<1.0	25	<1.0	<1.0	<1.0	<1.0	<1.0	5.5
	12/4/2008		A832820	<1.0	<1.0	26	<1.0	<1.0	<1.0	<1.0	<1.0	11
	3/13/2009		A841828	<1.0	<1.0	26	<1.0	<1.0	<1.0	<1.0	<1.0	2.7
	1/27/2010		5034229015	< 5.0	< 5.0	16.5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	2.3
MW-161	3/2/2000	3-13	260552	<5.0	<5.0	160	<5.0	<10	<5.0	170	<5.0	8.2
	11/8/2000		280699	<5.0	79	13,000	80	<10	<5.0	4,300	<5.0	570
	6/21/2001		296416	18	36	6,700	37	<10	<5.0	2,700	<5.0	170
	7/18/2002		324103	<1.0	11.7	7,920	55.4	<5.0	<1.0	3,550	<1.0	120
	12/04/2003		503002628	<5.0	<5.0	11	<5.0	<5.0	<5.0	53	< 5.0	<2.0
	3/11/2004		503237299	<5.0	<5.0	330	<5.0	<5.0	<5.0	200	< 5.0	<2.0
	6/4/2004		503493272	<5.0	<5.0	5.1	<5.0	<5.0	<5.0	<5.0	< 5.0	<2.0
	9/16/2004		A675224	<1.0	8.4	4,500	41	<1.0	<1.0	1,900	<1.0	110
	12/22/2004		A685819	<1.0	3	1,700	16	<1.0	<1.0	660	<1.0	25
	3/17/2005		A693400	<1.0	2.7	1,500	25	<1.0	<1.0	810	<1.0	4.1
	6/13/2005		A702970	<1.0	2.0	1,200E	15	1.3	<1.0	370	<1.0	27
	9/26/2005		A713024	<1.0	<1.0	600	5.7	<1.0	<1.0	150	<1.0	10
	12/6/2005		A721007	<1.0	<1.0	7.3	<1.0	<1.0	<1.0	47	<1.0	<1.0
	12/6/2005		A721008	<1.0	<1.0	13	<1.0	<1.0	<1.0	50	<1.0	<1.0
	4/5/2006		A730657	<1.0	<1.0	21	<1.0	<1.0	<1.0	28	<1.0	<1.0
	4/5/2006		A730659	<1.0	<1.0	19	<1.0	<1.0	<1.0	26	<1.0	<1.0
	6/13/2006		A737751	<1.0	<1.0	360	3.9	<1.0	<1.0	280	<1.0	<1.0
	10/13/2006		A749069	<1.0	3.7	2,300	27	<1.0	<1.0	1,300	<1.0	83
	10/13/2006		A749070	<1.0	4.0	2,300	31	<1.0	<1.0	1,300	<1.0	95
	1/19/2007		A758749	<1.0	<1.0	4	<1.0	<1.0	<1.0	14	<1.0	<1.0
	1/19/2007		A758750	<1.0	<1.0	3.5	<1.0	<1.0	<1.0	14	<1.0	<1.0
	3/22/2007		A764737	<1.0	<1.0	1.4	<1.0	<1.0	<1.0	10	<1.0	<1.0
	7/2/2007		A775735	<1.0	<1.0	4.8	<1.0	<1.0	<1.0	1.3	<1.0	1.8
	9/6/2007		A781788	<1.0	<1.0	6.6	<1.0	<1.0	<1.0	1.5	<1.0	2.3
	11/28/2007		A790702	<1.0	<1.0	35	<1.0	<1.0	<1.0	59	<1.0	<1.0
	11/28/2007		A790703	<1.0	<1.0	50	1.1	<1.0	<1.0	72	<1.0	<1.0
	4/15/2008		A806502	<1.0	<1.0	2.7	<1.0	<1.0	<1.0	8.9	<1.0	<1.0
	5/30/2008		A812368	<1.0	<1.0	690	8.8	<1.0	<1.0	550	<1.0	23
	9/24/2008		A824680	<1.0	1.8	1,200	20	<1.0	<1.0	1,100	<1.0	29
	12/4/2008		A832821	<1.0	1.2	970	7.5	<1.0	<1.0	760	<1.0	45
	12/4/2008		A832822	<1.0	1.3	910	7.3	<1.0	<1.0	730	<1.0	42
	3/13/2009		A841829	<1.0	<1.0	48	<1.0	<1.0	<1.0	39	<1.0	<1.0
	6/19/2009		A850605	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	7.0	<1.0	<1.0
	11/4/2009		A864559	<1.0	<1.0	100	1.9	<1.0	<1.0	110	<1.0	5.2
	11/4/2009		A864560	<1.0	<1.0	88	1.8	<1.0	<1.0	110	<1.0	5.3
	1/27/2010		5034229016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	10.1	< 5.0	< 2.0
Tier II Residential Cleanup Goals - Groundwater [1]				0.289[2]	7	70	128[2]	6.30[2]	5	5	13.7[2]	2
Tier II Non-Residential Cleanup Goals - Groundwater [1]				46.1[2]	7	1,022	2,040[2]	381[2]	56.1	260	5,110[2]	10

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Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Bromodichloromethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	1,2,4-Trimethylbenzene	Vinyl chloride
MW-163	11/8/2000	10-20	280701	<5.0	11	600	11	<10	<5.0	1,500	<5.0	<2.0
	6/20/2001		296395	<5.0	13	800	14	<10	<5.0	1,800	<5.0	<2.0
	7/18/2002		324117	<1.0	<1.0	488	6.2	<5.0	<1.0	1,650	<1.0	<1.0
	7/18/2002		324119	<1.0	<1.0	521	7.1	<5.0	<1.0	1,600	<1.0	<1.0
	7/16/2004		A669497	<1.0	<1.0	250	5.9	<1.0	<1.0	1,300	<1.0	<1.0
	7/16/2004		A669498	<1.0	<1.0	240	5.4	<1.0	<1.0	1,100	<1.0	<1.0
	8/16/2004		A671798	<1.0	<1.0	240	3.7	<1.0	<1.0	790	<1.0	<1.0
	8/16/2004		A671803	<1.0	<1.0	210	3.8	<1.0	<1.0	680	<1.0	<1.0
	10/18/2004		A678053	<1.0	<1.0	530E	9.6	<1.0	<1.0	1,600	<1.0	<1.0
	11/19/2004		A681810	<1.0	2.2	1,300	15	1.1	<1.0	700	<1.0	<1.0
	12/21/2004		A685841	<1.0	<1.0	620	18	<1.0	<1.0	470	<1.0	<1.0
	1/24/2005		A688371	<1.0	<1.0	380	9	<1.0	<1.0	360	<1.0	<1.0
	3/15/2005		A693406	<1.0	<1.0	650	15	<1.0	<1.0	400	<1.0	<1.0
	6/14/2005		A702978	<1.0	<1.0	430	14	3.1	<1.0	430	<1.0	<1.0
	9/23/2005		A713028	<1.0	2.0	1,200	34	<1.0	<1.0	640	<1.0	54
	12/7/2005		A721031	<1.0	1.5	830	35	<1.0	<1.0	520	<1.0	220
	3/15/2006		A728649	<1.0	<1.0	270	9.1	<1.0	<1.0	410	<1.0	96
	6/15/2006		A737764	<1.0	<1.0	220	8.1	<1.0	<1.0	440	<1.0	52
	9/26/2006		A747961	<1.0	<1.0	120	9.7	<1.0	<1.0	450	<1.0	20
	11/21/2006		A753703	<1.0	1.2	1,200	11	<1.0	<1.0	58	<1.0	42
	12/21/2006		A756773	<1.0	<1.0	91	2.6	<1.0	<1.0	28	<1.0	13
	1/19/2007		A758759	<10	<10	170	<10	10	<10	<10	<10	58
	3/22/2007		A764741	<1.0	<1.0	210	8.1	<1.0	<1.0	23	<1.0	230
	7/3/2007		A775754	<1.0	<1.0	41	1.7	<1.0	<1.0	46	<1.0	<1.0
	9/7/2007		A781792	<1.0	<1.0	18	1.2	<1.0	<1.0	16	<1.0	30
	11/30/2007		A790714	<1.0	<1.0	38	1.1	<1.0	<1.0	14	<1.0	52
	3/20/2008		A803423	<1.0	<1.0	18	<1.0	<1.0	<1.0	11	<1.0	2.4
	5/29/2008		A812359	<1.0	<1.0	100	5.2	<1.0	<1.0	22	<1.0	77
	9/24/2008		A824673	<1.0	<1.0	5.5	1.3	<1.0	<1.0	5.6	<1.0	15
	12/3/2008		A832814	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.6	<1.0	<1.0
	3/13/2009		A841812	<1.0	<1.0	1.9	<1.0	<1.0	<1.0	10	<1.0	1.0
	6/18/2009		A850590	<1.0	<1.0	39	1.5	<1.0	<1.0	32	<1.0	11
	9/15/2009		A858540	<1.0	<1.0	19	<1.0	<1.0	<1.0	20	<1.0	12
	11/4/2009		A864553	<1.0	<1.0	16	<1.0	<1.0	<1.0	93	<1.0	9.2
	1/27/2010		5034231003	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	67	< 5.0	< 2.0
MW-164	11/7/2000	16-26	280702	<5.0	<5.0	<5.0	<5.0	<10	<5.0	18	<5.0	<2.0
	6/21/2001		296413	<5.0	<5.0	<5.0	<5.0	<10	<5.0	11	<5.0	<2.0
	7/19/2002		324154	<5.0	<5.0	<5.0	<5.0	<10	<5.0	17	<5.0	<2.0
	12/05/2003		503002636	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	21	<5.0	<2.0
	3/11/2004		503237117	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	20	<5.0	<2.0
	6/4/2004		503493249	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	16	<5.0	<2.0
	9/15/2004		A675228	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	21	<1.0	<1.0
	12/20/2004		A685806	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	22	<1.0	<1.0
	3/15/2005		A693377	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	19	<1.0	<1.0
	6/14/2005		A702983	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	19	<1.0	<1.0
	9/23/2005		A713015	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	14	<1.0	<1.0
	12/7/2005		A721028	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	20	<1.0	<1.0
	3/15/2006		A728653	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	17	<1.0	<1.0
	6/15/2006		A737768	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	19	<1.0	<1.0
	9/26/2006		A747959	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	17	<1.0	<1.0
	12/21/2006		A756778	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	24	<1.0	<1.0
	3/23/2007		A764759	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	21	<1.0	<1.0
	7/3/2007		A775758	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	25	<1.0	<1.0
	9/7/2007		A781796	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	29	<1.0	<1.0
	11/30/2007		A790707	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	19	<1.0	<1.0
	3/20/2008		A803431	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	22	<1.0	<1.0
	5/30/2008		A812365	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	13	<1.0	<1.0
	9/24/2008		A824678	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	23	<1.0	<1.0
	12/3/2008		A832819	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	23	<1.0	<1.0
	3/13/2009		A841809	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	17	<1.0	<1.0
	6/18/2009		A850587	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	16	<1.0	<1.0
	9/16/2009		A858557	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	14	<1.0	<1.0
	11/4/2009		A864557	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	21	<1.0	<1.0
	1/27/2010		5034229010	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	15.4	< 5.0	< 2.0
MW-165S	6/1/2001	10-20	294563	<5.0	<5.0	23.8	<5.0	<10	<5.0	<5.0	<5.0	<2.0
	6/1/2001		294564	<5.0	<5.0	23.6	<5.0	<10	<5.0	<5.0	<5.0	<2.0
	7/18/2002		324108	<1.0	<1.0	66.6	<1.0	<5.0	<1.0	<1.0	<1.0	36.6
	12/05/2003		503002644	<5.0	<5.0	25	<5.0	<5.0	<5.0	<5.0	<5.0	10
	3/11/2004		503237083	<5.0	<5.0	23	<5.0	<5.0	<5.0	<5.0	<5.0	13
	6/3/2004		503493066	<5.0	<5.0	19	<5.0	<5.0	<5.0	<5.0	<5.0	6.5
	9/14/2004		A675200	<1.0	<1.0	22	<1.0	<1.0	<1.0	<1.0	<1.0	6.4
	12/20/2004		A685808	<1.0	<1.0	27	<1.0	<1.0	<1.0	<1.0	<1.0	13
	3/15/2005		A693380	<1.0	<1.0	44	<1.0	<1.0	<1.0	<1.0	<1.0	26
	6/13/2005		A702972	<1.0	<1.0	11	<1.0	<1.0	<1.0	<1.0	<1.0	4.2
	9/21/2005		A713002	<1.0	<1.0	19.5	<1.0	<1.0	<1.0	<1.0	<1.0	13.6
	12/6/2005		A721010	<1.0	<1.0	14	<1.0	<1.0	<1.0	<1.0	<1.0	16
	3/14/2006		A728635	<1.0	<1.0	3.6	<1.0	<1.0	<1.0	<1.0	<1.0	1.1
	6/13/2006		A737746	<1.0	<1.0	5.4	<1.0	<1.0	<1.0	<1.0	<1.0	6.3
	9/27/2006		A747971	<1.0	<1.0	9.1	<1.0	<1.0	<1.0	<1.0	<1.0	15
	12/21/2006		A756783	<1.0	<1.0	7.5	<1.0	<1.0	<1.0	<1.0	<1.0	14
	3/21/2007		A764747	<1.0	<1.0	7.0	<1.0	<1.0	<1.0	<1.0	<1.0	33
	7/2/2007		A775742	<1.0	<1.0	4.6	<1.0	<1.0	<1.0	<1.0	<1.0	17
	9/7/2007		A781802	<1.0	<1.0	4.3	<1.0	<1.0	<1.0	<1.0	1.1	10
	11/28/2007		A790697	<1.0	<1.0	4.1	<1.0	<1.0	<1.0	<1.0	<1.0	4.0
	3/19/2008		A803404	<1.0	<1.0	2.2	<1.0	<1.0	<1.0	<1.0	<1.0	2.2
	5/28/2008		A812343	<1.0	<1.0	2.4	<1.0	<1.0	<1.0	<1.0	<1.0	7.4
	9/23/2008		A824655	<1.0	<1.0	3.6	<1.0	<1.0	<1.0	<1.0	<1.0	2.6
	12/2/2008		A832834	<1.0	<1.0	2.8	<1.0	<1.0	<1.0	<1.0	<1.0	2.9
	3/12/2009		A841819	<1.0	<1.0	1.7	<1.0	<1.0	<1.0	<1.0	<1.0	1.1
	6/18/2009		A850585	<1.0	<1.0	1.9	<1.0	<1.0	<1.0	<1.0	<1.0	4.7
	9/15/2009		A858549	<1.0	<1.0	2.8	<1.0	<1.0	<1.0	<1.0	<1.0	3.2
	11/3/2009		A864547	<1.0	<1.0	2.9	<1.0	<1.0	<1.0	<1.0	<1.0	2.4
	2/3/2010		5034508006	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0
MW-166S	6/1/2001	10-20	294565	<5.0	<5.0	553	<5.0	<10	<5.0	<5.0	<5.0	63
	7/18/2002		324106	<1.0	<1.0	222	1.5	<5.0	<1.0	<1.0	<1.0	15.8
	12/19/2003		503046765	<5.0	<5.0	170	5.5	<5.0	<5.0	<5.0	<5.0	8
	12/19/2003		503046773	<5.0	<5.0	130	8.3	<5.0	<5.0	<5.0	<5.0	7.7
	3/11/2004		503237067	<5.0	<5.0	140	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/3/2004		503493033	<5.0	<5.0	270	5.2	<5.0	<5.0	<5.0	<5.0	17
	9/14/2004		A675202	<10	<10	290	11	<10	<10	<10	<10	18
	12/20/2004		A685810	<10	<10	350	37	13	<10	<10	<10	19
Tier II Residential Cleanup Goals - Groundwater [1]				0.289[2]	7	70	128[2]	6.30[2]	5	5	13.7[2]	2
Tier II Non-Residential Cleanup Goals - Groundwater [1]				46.1[2]	7	1,022	2,040[2]	381[2]	56.1	260	5,110[2]	10

See last page for footnotes.

Table 2a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Bromodichloromethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	1,2,4-Trimethylbenzene	Vinyl chloride
MW-166S	3/15/2005	10-20	A693382	<10	<10	290	66	<10	<10	<10	<10	61
(cont'd.)	6/13/2005		A702973	<1.0	<1.0	310	7.1	<1.0	<1.0	<1.0	<1.0	11
	9/21/2005		A713000[5]	<1.0	<1.0	298	3.77	<1.0	<1.0	<1.0	<1.0	10
	12/6/2005		A721011	<1.0	<1.0	280	16	<1.0	<1.0	<1.0	<1.0	11
	3/14/2006		A728637	<1.0	<1.0	89	1.6	<1.0	<1.0	<1.0	<1.0	4.1
	6/13/2006		A737749	<1.0	<1.0	340	9.8	<1.0	<1.0	<1.0	<1.0	10
	9/27/2006		A747974	<1.0	<1.0	360	17	<1.0	<1.0	<1.0	<1.0	17
	12/21/2006		A756787	<1.0	<1.0	340	12	<1.0	<1.0	<1.0	<1.0	11
	3/21/2007		A764749	<1.0	<1.0	44	1.8	<1.0	<1.0	<1.0	<1.0	1.3
	7/2/2007		A775744	<1.0	<1.0	340	12	<1.0	<1.0	<1.0	<1.0	11
	9/7/2007		A781805	<1.0	<1.0	280	12	<1.0	<1.0	<1.0	<1.0	15
	11/28/2007		A790699	<1.0	<1.0	350	6.9	<1.0	<1.0	<1.0	<1.0	14
	3/19/2008		A803406	<1.0	<1.0	270	7.9	<1.0	<1.0	<1.0	<1.0	16
	5/28/2008		A812345	<1.0	<1.0	230	7	<1.0	<1.0	<1.0	<1.0	6.7
	9/23/2008		A824657	<1.0	<1.0	250	18	<1.0	<1.0	<1.0	<1.0	7.7
	12/2/2008		A832836	<1.0	<1.0	250	7.3	<1.0	<1.0	<1.0	<1.0	11
	3/12/2009		A841817	<1.0	<1.0	190	5.6	<1.0	<1.0	<1.0	<1.0	5.6
	6/18/2009		A850584	<1.0	<1.0	17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/15/2009		A858546	<1.0	<1.0	230	8.1	<1.0	<1.0	<1.0	<1.0	7.2
	11/3/2009		A864550	<1.0	<1.0	170	9.7	<1.0	<1.0	<1.0	<1.0	6.5
	2/3/2010		5034508008	< 5.0	< 5.0	159	5.0	< 5.0	< 5.0	< 5.0	< 5.0	2.8
MW-167S	6/1/2001	12-22	294566	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	11
	7/17/2002		324026	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	1.7
	12/04/2003		503002669	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0
	3/11/2004		503237109	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0
	6/3/2004		503493223	< 5.0	< 5.0	7.7	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	3.3
	9/14/2004		A675204	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.9
	12/21/2004		A685814	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	20
	3/15/2005		A693375	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	6/13/2005		A702967	<1.0	<1.0	<1.0	<1.0	1.9	<1.0	<1.0	<1.0	1.1
	9/23/2005		A713021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6.0
	11/7/2005		A717640	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	15
	12/6/2005		A721004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	26
	12/6/2005		A721005	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	26
	3/13/2006		A728628	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	6/12/2006		A737739	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/27/2006		A747968	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/21/2006		A756781	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/21/2007		A764744	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	7/2/2007		A775740	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/7/2007		A781799	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.9	<1.0
	11/28/2007		A790694	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.0
	3/19/2008		A803402	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/28/2008		A812340	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/23/2008		A824653	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	9.5	<1.0	<1.0
	12/1/2008		A832830	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.1
	12/1/2008		A832831	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.3
	3/12/2009		A841821	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	6/19/2009		A850599	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/16/2009		A858561	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	11/3/2009		A864544	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	2/3/2010		5034508003	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0
MW-168S	6/1/2001	12-22	294567	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<2.0
	7/18/2002		324110	<1.0	<1.0	45.5	<1.0	<5.0	49.8	10.8	<1.0	4.1
	7/18/2002		324111	<1.0	<1.0	46	<1.0	<5.0	52.7	11.3	<1.0	4.1
	11/7/2005		A717641	<1.0	<1.0	66	3.7	<1.0	370	20	<1.0	3.4
MW-169S	1/30/2002	15-25	312995	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	
	7/17/2002		324019	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	1.3
	12/04/2003		503002693	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/11/2004		503237042	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/3/2004		503493199	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/14/2004		A675207	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/21/2004		A685812	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.1
	3/15/2005		A693374	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.1
	6/13/2005		A702966	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.7
	9/22/2005		A713012	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.05
	11/7/2005		A717638	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.3
	12/6/2005		A721000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/13/2006		A728626	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0
	6/12/2006		A737738	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.2
	9/27/2006		A747966	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/21/2006		A756779	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.5
	3/21/2007		A764743	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.1
	7/3/2007		A775759	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/7/2007		A781797	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.2	1.2
	11/28/2007		A790693	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/19/2008		A803401	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.3
	5/28/2008		A812338	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/23/2008		A824650	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	11	<1.0	<1.0
	12/1/2008		A832829	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/12/2009		A841824	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	6/19/2009		A850601	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/16/2009		A858559	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	11/3/2009		A864540	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	2/3/2010		5034508001	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0
MW-170S	1/31/2002	17-27	313002	<5.0	<5.0	<5.0	<5.0	<10.	<5.0	<5.0	<5.0	6.4
	7/17/2002		324023	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	2.2
	11/3/2009		A864541	<1.0	<1.0	2.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.2
	11/3/2009		A864542	<1.0	<1.0	2.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.3
MW-173	3/3/2004	8-18	503207540	<1.0	NA	NA	NA	NA	NA	310	NA	NA
	7/16/2004		A669499	<1.0	<1.0	180	6.0	<1.0	<1.0	300	<1.0	<1.0
	8/16/2004		A671800	<1.0	<1.0	120	4.8	<1.0	<1.0	260	<1.0	<1.0
	10/18/2004		A678051	<1.0	<1.0	120	5.0	<1.0	<1.0	340	<1.0	<1.0
	11/19/2004		A681811	<1.0	<1.0	150	5.3	<1.0	<1.0	330	<1.0	<1.0
	12/21/2004		A685839	<1.0	<1.0	260	19	<1.0	<1.0	430	<1.0	<1.0
	1/24/2005		A688373	<1.0	<1.0	190	7.2	<1.0	<1.0	290	<1.0	<1.0
	3/15/2005		A693404	<1.0	<1.0	110	6.4	<1.0	<1.0	290	<1.0	<1.0
	6/14/2005		A702979	<1.0	<1.0	57	6.3B	<1.0	<1.0	320	<1.0	<1.0
	6/14/2005		A703199	<1.0	<1.0	63	6.9	<1.0	<1.0	310	<1.0	<1.0
	9/23/2005		A713029	<1.0	<1.0	36	4.8	<1.0	<1.0	230	<1.0	<1.0
	12/7/2005		A721029	<1.0	<1.0	29	3.7	<1.0	<1.0	170	<1.0	<1.0
	3/15/2006		A728650	<1.0	<1.0	55	7.8	<1.0	<1.0	240	<1.0	<1.0
	6/15/2006		A737765	<1.0	<1.0	36	9.1	<1.0	<1.0	290	<1.0	<1.0
	9/26/2006		A747960	<1.0	<1.0	30	6.8	<1.0	<1.0	210	<1.0	<1.0
	11/21/2006		A753704	<1.0	<1.0	26	5.7	<1.0	<1.0	220	<1.0	<1.0
Tier II Residential Cleanup Goals - Groundwater [(1)]				0.289[(2)]	7	70	128[(2)]	6.30[(2)]	5	5	13.7[(2)]	2
Tier II Non-Residential Cleanup Goals - Groundwater [(1)]				46.1[(2)]	7	1,022	2,040[(2)]	381[(2)]	56.1	260	5,110[(2)]	10

See last page for footnotes.

Table 2a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Bromodichloromethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	1,2,4-Trimethylbenzene	Vinyl chloride
MW-173	12/21/2006	8-18	A756774	<10	<10	39	<10	<10	<10	270	<10	<10
(cont'd.)	1/19/2007		A758760	<1.0	<1.0	49	10	<1.0	<1.0	250	<1.0	<1.0
	3/22/2007		A764755	<1.0	<1.0	25	7.3	<1.0	<1.0	300	<1.0	<1.0
	7/3/2007		A775756	<1.0	<1.0	23	6.9	<1.0	<1.0	260	<1.0	<1.0
	9/7/2007		A781794	<1.0	<1.0	14	3.3	<1.0	<1.0	180	<1.0	<1.0
	11/30/2007		A790715	<1.0	<1.0	9.5	2.3	<1.0	<1.0	120	<1.0	<1.0
	3/20/2008		A803424	<1.0	<1.0	75	8.0	<1.0	<1.0	160	<1.0	54
	5/30/2008		A812360	<1.0	<1.0	160	8.3	<1.0	<1.0	190	<1.0	1.6
	9/24/2008		A824674	<1.0	<1.0	140	16	<1.0	<1.0	320	<1.0	2.0
	12/3/2008		A832815	<1.0	<1.0	20	4.0	<1.0	<1.0	150	<1.0	<1.0
	3/13/2009		A841811	<1.0	<1.0	8.3	2.6	<1.0	<1.0	89	<1.0	<1.0
	6/18/2009		A850588	<1.0	<1.0	71	14	<1.0	<1.0	230	<1.0	<1.0
	9/15/2009		A858542	<1.0	<1.0	15	3.8	<1.0	<1.0	140	<1.0	<1.0
	11/4/2009		A864554	<1.0	<1.0	11	3.1	<1.0	<1.0	110	<1.0	<1.0
	1/27/2010		5034231002	< 5.0	< 5.0	10	< 5.0	< 5.0	< 5.0	148	< 5.0	< 2.0
IW-1	3/3/2004	10.5-15.5	503207557	NA	NA	NA	NA	NA	NA	1,000	NA	NA
	7/16/2004		A669495	<1.0	<1.0	140	4.8	<1.0	<1.0	1,100	<1.0	<1.0
	8/16/2004		A671797	<1.0	<1.0	87	3.5	<1.0	<1.0	900	<1.0	<1.0
	10/18/2004		A678052	<1.0	<1.0	330E	7.8	<1.0	<1.0	1,500	<1.0	<1.0
	11/19/2004		A681808	<1.0	2.8	1,700	8.3	4.3	<1.0	640	<1.0	2.2
	12/21/2004		A685840	<1.0	5.6	3,600	43	1.1E	<1.0	51	<1.0	2.2
	1/24/2005		A688372	<1.0	3.5	1,700	33	<1.0	<1.0	32	<1.0	1.7
	3/15/2005		A693405	<1.0	3.7	2,700	46	<1.0	<1.0	11	<1.0	<1.0
	6/14/2005		A702977	<1.0	3.3	2,400	55	3.0	<1.0	29	<1.0	5.5
	9/23/2005		A713027	<1.0	2.1	1,400	40	<1.0	<1.0	59	<1.0	350
	12/7/2005		A721025	<1.0	2.9	140	25	<1.0	<1.0	50	<1.0	620
	3/15/2006		A728648	<1.0	<1.0	380	31	<1.0	<1.0	100	<1.0	25
	6/15/2006		A737763	<1.0	3.0	430	20	<1.0	<1.0	120	<1.0	83
	9/26/2006		A747962	<1.0	1.7	230	20	<1.0	<1.0	200	<1.0	61
	11/21/2006		A753702	<1.0	1.0	620	9.8	6.2	<1.0	26	<1.0	100
	12/21/2006		A756772	<10	<10	340	<10	10	<10	<10	<10	170
	1/19/2007		A758758	<1.0	<1.0	71	6.5	1.3	<1.0	1.4	<1.0	690
	3/22/2007		A764740	<1.0	<1.0	77	3.3	<1.0	<1.0	2.6	<1.0	200
	7/3/2007		A775755	<1.0	<1.0	7.1	<1.0	<1.0	<1.0	3.2	<1.0	<1.0
	9/7/2007		A781793	<1.0	<1.0	14	1.1	<1.0	<1.0	1.8	<1.0	82
	11/30/2007		A790712	<1.0	<1.0	2.1	<1.0	<1.0	<1.0	1.0	<1.0	7.2
	3/20/2008		A803422	<1.0	<1.0	50	3.1	<1.0	<1.0	2.6	<1.0	47
	5/29/2008		A812358	<1.0	<1.0	<1.0	3.5	<1.0	<1.0	<1.0	<1.0	1.3
	9/24/2008		A824672	<1.0	<1.0	4.4	1.2	<1.0	<1.0	88	<1.0	6.4
	12/3/2008		A832813	<1.0	<1.0	4.0	<1.0	<1.0	<1.0	<1.0	<1.0	6.7
	3/13/2009		A841813	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	6/18/2009		A850589	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	25
	9/15/2009		A858539	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	11/4/2009		A864552	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.9
	1/27/2010		5034231004	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0
IW-2	3/3/2004	12-17	503207565	<1.0	NA	NA	NA	NA	NA	310	NA	NA
	7/16/2004		A669496	<1.0	<1.0	44	2.0	<1.0	<1.0	170	<1.0	<1.0
	8/16/2004		A671799	<1.0	<1.0	46	1.8	<1.0	<1.0	210	<1.0	<1.0
	10/18/2004		A678050	<1.0	<1.0	96	2.9	<1.0	<1.0	290	<1.0	<1.0
	11/19/2004		A681812	<1.0	1.9	550	5.8	<1.0	<1.0	150	<1.0	2.5
	12/21/2004		A685842	<1.0	<1.0	310	6.9	<1.0	<1.0	230	<1.0	1.1
	1/24/2005		A688374	<1.0	<1.0	240	4.3	<1.0	<1.0	190	<1.0	1.7
	3/15/2005		A693407	<1.0	<1.0	280	4.2	<1.0	<1.0	130	<1.0	21
	6/14/2005		A702976	<1.0	<1.0	130	3.3	4.3	<1.0	160	<1.0	<1.0
	9/23/2005		A713026	<1.0	<1.0	37	2.1	<1.0	<1.0	130	<1.0	<1.0
	12/7/2005		A721024	<1.0	<1.0	51	3.1	<1.0	<1.0	190	<1.0	<1.0
	3/15/2006		A728647	<1.0	<1.0	54	2.6	<1.0	<1.0	180	<1.0	<1.0
	6/13/2006		A737745	<1.0	<1.0	18	1.9	<1.0	<1.0	110	<1.0	<1.0
	9/26/2006		A747963	<1.0	<1.0	32	3.0	<1.0	<1.0	110	<1.0	<1.0
	11/21/2006		A753701	<1.0	<1.0	89	3.1	<1.0	<1.0	83	<1.0	12
	12/21/2006		A756771	<10	<10	41	<10	<10	<10	100	<10	<10
	1/19/2007		A758757	<1.0	<1.0	59	2.0	<1.0	<1.0	91	<1.0	8.6
	3/22/2007		A764739	<1.0	<1.0	31	1.9	<1.0	<1.0	100	<1.0	3.3
	7/3/2007		A775752	<1.0	<1.0	15	2.2	<1.0	<1.0	130	<1.0	2.9
	7/3/2007		A775753	<1.0	<1.0	14	2.0	<1.0	<1.0	140	<1.0	2.5
	9/6/2007		A781785	<1.0	<1.0	20	1.9	<1.0	<1.0	130	<1.0	<1.0
	11/30/2007		A790713	<1.0	<1.0	18	1.1	<1.0	<1.0	110	<1.0	<1.0
	3/20/2008		A803421	<1.0	<1.0	64	2.3	<1.0	<1.0	100	<1.0	4.5
	5/29/2008		A812357	<1.0	<1.0	16	1.1	<1.0	<1.0	75	<1.0	<1.0
	9/24/2008		A824671	<1.0	<1.0	27	1.9	<1.0	<1.0	190	<1.0	<1.0
	12/3/2008		A832812	<1.0	<1.0	17	1.1	<1.0	<1.0	110	<1.0	13
	3/13/2009		A841814	<1.0	<1.0	30	1.4	<1.0	<1.0	85	<1.0	11
	6/18/2009		A850591	<1.0	<1.0	15	<1.0	<1.0	<1.0	60	<1.0	<1.0
	9/15/2009		A858541	<1.0	<1.0	19	1.4	<1.0	<1.0	89	<1.0	<1.0
	11/4/2009		A864538	<1.0	<1.0	21	1.1	<1.0	<1.0	90	<1.0	4.0
	1/27/2010		5034231005	< 5.0	< 5.0	14.9	< 5.0	< 5.0	< 5.0	67	< 5.0	< 2.0
Tier II Residential Cleanup Goals - Groundwater [1]				0.289[2]	7	70	128[2]	6.30[2]	5	5	13.7[2]	2
Tier II Non-Residential Cleanup Goals - Groundwater [1]				46.1[2]	7	1,022	2,040[2]	381[2]	56.1	260	5,110[2]	10

See last page for footnotes.

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = Result is Estimated NA = Not Applicable NS = Not Sampled B = Detected in Blank
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Health Evaluation by Office of Environmental Response, July 1996.
[2] Calculated using surrogate toxicity values and Tier II equations.
[3] Exceeded analytical holding time for vinyl chloride.
[4] Exceeded analytical holding time.
[5] Exceeded analytical holding time for cis-1,2-Dichloroethene.

Table 2b
Deep Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Bromodichloro-methane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	1,2,4-Trimethyl-benzene	Vinyl chloride
MW-165D	1/30/2002	42-47	312999	<5.0	7	3,300	11	<10	<5.0	<5.0	<5.0	1,500
	7/18/2002		324109	<1.0	4.2	2,820	9.6	<5.0	<1.0	<1.0	<1.0	973
	12/05/2003		503002651	<5.0	6.7	2,700	12	<5.0	<5.0	<5.0	<5.0	980
	3/11/2004		503237075	<5.0	6.2	2,300	16	<5.0	<5.0	<5.0	<5.0	840
	6/3/2004		503493041	<5.0	<5.0	2,000	8.8	<5.0	<5.0	<5.0	<5.0	400
	6/3/2004		503493041	<5.0	<5.0	2,000	8.8	<5.0	<5.0	<5.0	<5.0	400
	9/14/2004		A675199	<25	<25	1,800	<25	<25	<25	<25	<25	740
	12/20/2004		A685807	<1.0	6	3,300	15	<1.0	<1.0	<1.0	<1.0	1,000
	3/15/2005		A693379	<1.0	3.3	1,900	12	<1.0	<1.0	<1.0	<1.0	640
	6/13/2005		A702971	<1.0	1.1	1,400	6.2	3.0	<1.0	<1.0	<1.0	14
	9/21/2005		A713001[3]	<1.0	3.45	2,270	7.41	<1.0	<1.0	<1.0	<1.0	921
	12/6/2005		A721009	<1.0	3.8	2,200	34	<1.0	<1.0	<1.0	<1.0	780
	3/14/2006		A728634	<1.0	2.5	1,600	6.2	<1.0	<1.0	<1.0	<1.0	400
	6/13/2006		A737747	<1.0	1.6	1,100	11	<1.0	<1.0	<1.0	<1.0	560
	9/27/2006		A747972	<1.0	2.6	1,800	20	<1.0	<1.0	<1.0	<1.0	770
	12/21/2006		A756785	<1.0	2.3	1,600	16	<1.0	<1.0	<1.0	<1.0	860
	3/21/2007		A764748	<1.0	1.2	1,200	13	<1.0	<1.0	<1.0	<1.0	840
	7/2/2007		A775743	<1.0	1.0	810	7.2	<1.0	<1.0	<1.0	<1.0	<1.0
	9/7/2007		A781803	<1.0	<1.0	4.4	1.9	<1.0	<1.0	<1.0	<1.0	<1.0
	11/28/2007		A790698	<1.0	1.5	1,200	5.2	<1.0	<1.0	<1.0	<1.0	610
	3/19/2008		A803405	<1.0	<1.0	310	5.1	<1.0	<1.0	<1.0	<1.0	190
	5/28/2008		A812344	<10	<10	470	<10	<10	<10	<10	<10	530
	9/23/2008		A824654	<10	<10	300	<10	<10	<10	<10	<10	350
	12/2/2008		A832835	<1.0	<1.0	650	5.4	<1.0	<1.0	<1.0	<1.0	550
	3/12/2009		A841820	<1.0	<1.0	300	3.2	<1.0	<1.0	<1.0	<1.0	340
	6/18/2009		A850586	<1.0	<1.0	240	2.2	<1.0	<1.0	<1.0	<1.0	500
	9/15/2009		A858548	<1.0	<1.0	98	<1.0	<1.0	<1.0	<1.0	<1.0	160
	11/3/2009		A864548	<1.0	<1.0	280	2.4	<1.0	<1.0	<1.0	<1.0	400
	2/3/2010		5034508007	< 5.0	< 5.0	255	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	286
MW-166D	1/31/2002	46-51	313000	<5.0	6.1	2,000	<5.0	<10	<5.0	<5.0	<5.0	730
	7/18/2002		324107	<1.0	5.1	2,130	3.3	<5.0	<1.0	<1.0	<1.0	563
	1/6/2004		503079204	<5.0	<5.0	2,000	7.4	<5.0	<5.0	<5.0	<5.0	290
	1/6/2004		503079212	<5.0	<5.0	1,700	7.9	<5.0	<5.0	<5.0	<5.0	150
	3/11/2004		503237059	<5.0	<5.0	2,100	<5.0	<5.0	<5.0	<5.0	<5.0	410
	6/3/2004		503492977	<5.0	<5.0	1,900	<5.0	<5.0	<5.0	<5.0	<5.0	340
	9/14/2004		A675201	<1.0	6.6	1,900	4.7	<1.0	<1.0	<1.0	<1.0	450
	12/20/2004		A685809	<1.0	7.4	2,400	5.6	<1.0	<1.0	<1.0	<1.0	470
	3/15/2005		A693381	<1.0	4.2	1,900	5.3	1.4	<1.0	<1.0	<1.0	230
	6/13/2005		A702974	<1.0	5.5	3,700	5.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/21/2005		A712999[3]	<1.0	3.98	1,650	2.12	<1.0	<1.0	<1.0	<1.0	303
	12/6/2005		A721012	<1.0	5.7	1,900	16	<1.0	<1.0	<1.0	<1.0	430
	3/14/2006		A728636	<1.0	4.4	1,800	2.9	<1.0	<1.0	<1.0	<1.0	310
	6/13/2006		A737748	<1.0	3.7	1,400	10	<1.0	<1.0	<1.0	<1.0	240
	9/27/2006		A747973	<1.0	5.6	2,100	8.2	<1.0	<1.0	<1.0	<1.0	350
	12/21/2006		A756786	<1.0	5.9	2,000	12	<1.0	<1.0	<1.0	<1.0	420
	3/21/2007		A764750	<1.0	4.2	2,400	16	<1.0	<1.0	<1.0	<1.0	410
	7/2/2007		A775745	<1.0	4.9	1,700	12	<1.0	<1.0	<1.0	<1.0	240
	9/7/2007		A781804	<1.0	2.4	1,300	7.7	<1.0	<1.0	<1.0	<1.0	24
	11/28/2007		A790700	<1.0	4.5	1,500	4.0	<1.0	<1.0	<1.0	<1.0	270
	3/19/2008		A803407	<1.0	5.5	810	16	<1.0	<1.0	<1.0	<1.0	200
	5/28/2008		A812346	<10	<10	1,500	<10	<10	<10	<10	<10	310
	9/23/2008		A824656	<10	<10	1,600	<10	<10	<10	<10	<10	300
	12/2/2008		A832837	<1.0	4.3	1,300	8.5	<1.0	<1.0	<1.0	<1.0	300
	3/12/2009		A841818	<1.0	4.0	1,400	12	<1.0	<1.0	<1.0	<1.0	330
	6/18/2009		A850583	<1.0	2.2	920	11	<1.0	<1.0	<1.0	<1.0	150
	9/15/2009		A858547	<10	<10	850	<10	<10	<10	<10	<10	210
	11/3/2009		A864549	<1.0	3.9	1,100	8.2	<1.0	<1.0	<1.0	<1.0	240
	2/3/2010		5034508009	< 5.0	< 5.0	797	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	233
MW-167D	1/31/2002	28-33	313005	<5.0	<5.0	530	11	<10	<5.0	<5.0	<5.0	390
	7/17/2002		324025	<1.0	<1.0	274	12.2	<5.0	<1.0	<1.0	<1.0	253
	12/04/2003		503002677	<5.0	<5.0	380	12	<5.0	<5.0	<5.0	<5.0	230
	12/04/2003		503002685	<5.0	<5.0	390	14	<5.0	<5.0	<5.0	<5.0	230
	3/11/2004		503237091	<5.0	<5.0	410	14	<5.0	<5.0	<5.0	<5.0	220
	6/3/2004		503493207	<5.0	<5.0	510	12	<5.0	<5.0	<5.0	<5.0	240
	9/14/2004		A675203	<1.0	<1.0	480	13	<1.0	<1.0	<1.0	<1.0	290
	9/14/2004		A675205	<1.0	<1.0	480	14	<1.0	<1.0	<1.0	<1.0	300
	12/21/2004		A685813	<1.0	<1.0	1,300	23	<1.0	<1.0	<1.0	<1.0	400
	12/21/2004		A685824	<1.0	<1.0	680	22	<1.0	<1.0	1.0	<1.0	240
	3/15/2005		A693376	<10	<10	580	18	<10	<10	<10	<10	160
	3/15/2005		A693403	<1.0	<1.0	530	18	<1.0	<1.0	<1.0	<1.0	150
	6/13/2005		A702968	<1.0	<1.0	510	14	2.6	<1.0	<1.0	<1.0	99
	9/23/2005		A713019	<1.0	<1.0	630	19	<1.0	<1.0	<1.0	<1.0	110
	9/23/2005		A713020	<1.0	<1.0	640	20	<1.0	<1.0	<1.0	<1.0	120
	11/7/2005		A717639	<1.0	<1.0	740	33	<1.0	<1.0	<1.0	<1.0	110
	12/6/2005		A721002	<1.0	<1.0	670	21	<1.0	<1.0	<1.0	<1.0	160
	12/6/2005		A721003	<1.0	<1.0	640	21	<1.0	<1.0	<1.0	<1.0	150
	3/13/2006		A728629	<1.0	<1.0	680	18	<1.0	<1.0	<1.0	<1.0	150
	3/13/2006		A728630	<1.0	<1.0	670	17	<1.0	<1.0	<1.0	<1.0	140
	6/12/2006		A737740	<1.0	<1.0	460	16	<1.0	<1.0	<1.0	<1.0	29
	6/12/2006		A737741	<1.0	<1.0	460	17	<1.0	<1.0	<1.0	<1.0	32
	9/27/2006		A747969	<1.0	<1.0	550	21	<1.0	<1.0	<1.0	<1.0	75
	9/27/2006		A747970	<1.0	<1.0	570	20	<1.0	<1.0	<1.0	<1.0	81
	12/21/2006		A756782	<1.0	<1.0	670	20	<1.0	<1.0	<1.0	<1.0	110
	12/21/2006		A756784	<1.0	<1.0	640	21	<1.0	<1.0	<1.0	<1.0	100
	3/21/2007		A764745	<1.0	<1.0	18	<1.0	<1.0	<1.0	<1.0	<1.0	3.6
	3/21/2007		A764746	<1.0	<1.0	20	1.1	<1.0	<1.0	<1.0	<1.0	3.9
	7/2/2007		A775741	<1.0	<1.0	290	17	<1.0	<1.0	<1.0	<1.0	68
	9/7/2007		A781800	<1.0	<1.0	510	21	<1.0	<1.0	<1.0	1.2	79
	9/7/2007		A781801	<1.0	<1.0	520	22	<1.0	<1.0	<1.0	<1.0	84
	11/28/2007		A790695	<1.0	<1.0	610	21	<1.0	<1.0	<1.0	<1.0	84
	11/28/2007		A790696	<1.0	<1.0	710	24	<1.0	<1.0	<1.0	<1.0	92
	3/19/2008		A803403	<1.0	<1.0	58	2.2	<1.0	<1.0	<1.0	<1.0	5.4
	3/19/2008		A803410	<1.0	<1.0	38	1.4	<1.0	<1.0	<1.0	<1.0	3.1
	5/28/2008		A812341	<1.0	<1.0	410	24	<1.0	<1.0	<1.0	<1.0	30
	5/28/2008		A812342	<1.0	<1.0	350	23	<1.0	<1.0	<1.0	<1.0	28
	9/23/2008		A824651	<5.0	<5.0	660	21	<5.0	<5.0	<5.0	<5.0	41
	9/23/2008		A824652	<5.0	<5.0	510	24	<5.0	<5.0	<5.0	<5.0	46
	12/1/2008		A832833	<1.0	<1.0	730	26	<1.0	<1.0	<1.0	<1.0	49
	12/1/2008		A832832	<1.0	<1.0	700	26	<1.0	<1.0	<1.0	<1.0	45
	3/12/2009		A841822	<1.0	<1.0	560	25	<1.0	<1.0	<1.0	<1.0	32
	3/12/2009		A841823	<1.0	<1.0	570	26	<1.0	<1.0	<1.0	<1.0	31
	6/19/2009		A850598	<1.0	<1.0	660	29	<1.0	<1.0	<1.0	<1.0	23
	6/19/2009		A850610	<1.0	<1.0	550	25	<1.0	<1.0	<1.0	<1.0	19
	9/16/2009		A858562	<10	<10	500	11	<10	<10	<10	<10	45
	9/16/2009		A858566	<1.0	<1.0	580	19	<1.0	<1.0	<1.0	<1.0	69
	11/3/2009		A864545	<1.0	<1.0	580	25	<1.0	<1.0	<1.0	<1.0	34
	11/3/2009		A864546	<1.0	<1.0	740	25	<1.0	<1.0	<1.0	<1.0	33
	2/3/2010		5034508004	< 5.0	< 5.0	419	22.7	< 5.0	< 5.0	< 5.0	< 5.0	16.5
	2/3/2010		5034508005	< 5.0	< 5.0	443	22.8	< 5.0	< 5.0	< 5.0	< 5.0	17
MW-168D	1/31/2002	26-31	313004	<5.0	<5.0	18	<5.0	<10	<5.0	<5.0	<5.0	<2.0
	7/18/2002		324112	<1.0	<1.0	21	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
	11/7/2005		A717642	<1.0	<1.0	5.6	<1.0	<1.0	<1.0	<1.0	<1.0	52
Tier II Residential Cleanup Goals - Groundwater [1]				0.289[2]	7	70	128[2]	6.30[2]	5	5	13.7[2]	2
Tier II Non-Residential Cleanup Goals - Groundwater [1]				46.1[2]	7	1,022	2,040[2]	381[2]	56.1	260	5,110[2]	10

See last page for footnotes

Table 2b
Deep Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Bromodichloro-methane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	1,2,4-Trimethyl-benzene	Vinyl chloride
MW-169D	1/30/2002	32-37	312996	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	**8.7**
	7/17/2002		324020	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	**6.4**
	12/04/2003		503002701	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**8.4**
	3/11/2004		503237034	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**11**
	6/3/2004		503493082	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**8.7**
	9/14/2004		A675206	<1.0	<1.0	<1.0	<1.0	**1.4**	<1.0	<1.0	<1.0	**10**
	12/21/2004		A685811	<1.0	<1.0	**1.7**	<1.0	<1.0	<1.0	<1.0	<1.0	**14**
	3/15/2005		A693373	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**9.6**
	6/13/2005		A702965	<1.0	<1.0	<1.0	<1.0	**1.1**	<1.0	<1.0	**2.9**	**6.8**
	9/22/2005		A713011[4]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**7.97**
	11/7/2005		A717637	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**5.9**
	12/6/2005		A721001	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.6**
	3/13/2006		A728627	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**7.0**
	6/12/2006		A737737	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**9.1**
	9/27/2006		A747967	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**9.5**
	12/21/2006		A756780	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**5.4**
	3/21/2007		A764742	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.0**
	7/3/2007		A775760	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/7/2007		A781798	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**2.6**	<1.0
	11/28/2007		A790692	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**14**
	3/19/2008		A803400	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/28/2008		A812339	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**6.8**
	9/23/2008		A824649	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**14**	<1.0	**14**
	12/1/2008		A832828	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/12/2009		A841825	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**8.2**
	6/19/2009		A850600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**13**
	9/16/2009		A858560	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**17**
	11/3/2009		A864539	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**14**
	2/3/2010		5034508002	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0
MW-170D	1/31/2002	34-39	313001	<5.0	<5.0	<5.0	<5.0	<10.	<5.0	<5.0	<5.0	**80**
	7/17/2002		324024	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	**66**
	11/3/2009		A864543	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**200**
MW-302	2/6/1997	45-55	W7020074-18	<5.0	<5.0	**8.2**	<5.0	<5.0	<5.0	<5.0	NA	<10
	11/23/1999		253795	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0
	2/28/2000		260593	<5.0	<5.0	**11**	<5.0	<10	<5.0	<5.0	<5.0	<5.0
	11/8/2000		280710	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<2.0
	6/21/2001		296403	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<2.0
	7/22/2002		324186	<5.0	<5.0	**6**	<5.0	<10	<5.0	<5.0	<5.0	**3.3**
	12/03/2003		503002719	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**4.7**
	6/11/2004		503518110	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/15/2004		A675217	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**4.1**
	12/22/2004		A685822	<1.0	<1.0	**1.5**	<1.0	<1.0	<1.0	<1.0	<1.0	**4.9**
	3/16/2005		A693393	<1.0	<1.0	**1.5**	<1.0	<1.0	<1.0	<1.0	<1.0	**3.3**
	6/15/2005		A702992	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**2.3**
	9/22/2005		A713005	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/7/2005		A721017	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**2.1**
	3/14/2006		A728640	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.1**
	6/13/2006		A737754	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**2.2**
	9/29/2006		A747982	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/20/2006		A756761	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.1**
	3/21/2007		A764730	<1.0	<1.0	**1.9**	<1.0	<1.0	<1.0	**24**	<1.0	<1.0
	7/3/2007		A775751	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/6/2007		A781779	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	11/29/2007		A790679	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/19/2008		A803414	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/29/2008		A812352	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/23/2008		A824668	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/23/2008		A824669	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/2/2008		A832803	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/13/2009		A841833	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	6/19/2009		A850607	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/15/2009		A858553	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	11/3/2009		A864531	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	1/27/2010		5034229014	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0
Tier II Residential Cleanup Goals - Groundwater [1]				0.289[2]	7	70	128[2]	6.30[2]	5	5	13.7[2]	2
Tier II Non-Residential Cleanup Goals - Groundwater [1]				46.1[2]	7	1,022	2,040[2]	381[2]	56.1	260	5,110[2]	10

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter NS = Not Sampled

[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996.
[2] Calculated using surrogate toxicity values and Tier II equations.
[3] Exceeded analytical holding times for cis-1,2-Dichloroethene and vinyl chloride.
[4] Exceeded analytical holding time for vinyl chloride.

Table 3
East Off-Site Bioremediation Field Parameters and Select Groundwater Analytical Results
Former General Motors Corporation
Allison Gas Turbine, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Well Screen Interval (Feet)	Date Sampled	pH	ORP (mV)	DO (mg/L)	TOC (mg/L)	cis-1,2-Dichloroethene (ug/L)	Trichloroethene (ug/L)	Vinyl chloride (ug/L)
IW-1	10.5-15.5	7/16/2004	7.58	287	1.91	<1	140	1,100	<1.0
		8/16/2004	7.36	34	0.26	21	87	900	<1.0
		10/18/2004	7.38	139	1.81	<1.0	330	1,500	<1.0
		11/19/2004	6.09	126	0.17	2,600	1,700	640	2.2
		12/21/2004	6.54	96	0.26	270	3,600	51	2.2
		1/24/2005	6.36	-112	1.39	340	1,700	32	1.7
		3/15/2005	6.75	NA	1.68	18	2,700	11	<1.0
		4/25/2005	7.91	-148.2	0.19	NA	NA	NA	NA
		6/14/2005	6.71	40	0.71	60	2,400	29	5.5
		9/23/2005	6.70	-98.9	0.99	4.6	1,400	59	350
		12/7/2005	7.01	-86	0.81	2.7	140	50	620
		3/15/2006	7.65	22	1.20	1.7	380	100	25
		6/15/2006	7.08	-126	2.82	1.6	430	120	83
		9/26/2006	7.01	-46.1	0.49	2.1	230	200	61
		11/21/2006	5.71	-36	5.96	2,700	620	26	100
		12/21/2006	5.88	-49.2	3.25	950	340	<10	170
		1/19/2007	6.17	-101.2	3.68	500	71	1.4	690
		3/22/2007	6.79	-128	3.38	140	77	2.6	200
		7/2/2007	6.41	-16.7	0.62	450	7	3.2	<1.0
		9/7/2007	6.24	-194	0.97	270	14	1.8	82
		11/30/2007	7.23	-86	1.37	14	2	1.0	7.2
		12/11/2007	10.45	-55	0.97	NA	NA	NA	NA
		1/10/2008	6.78	-110	1.89	1,100	110	3.8	90
		3/20/2008	6.57	-91.5	0.70	170	50	2.6	47
		5/29/2008	6.59	68	5.69	43	<1.0	<1.0	1.3
		9/24/2008	14.00	-85	0.50	270	4.4	88	6.4
		12/3/2008	6.50	69	0.64	84	4.0	<1.0	6.7
		3/13/2009	7.70	-293.3	0.00	4	<1.0	<1.0	<1.0
		6/18/2009	6.97	-116	1.95	3.6	<1.0	<1.0	25.0
		9/15/2009	6.82	104	1.01	2.6	<1.0	<1.0	<1.0
		11/4/2009	7.00	105	0.47	2.0	<1.0	<1.0	4.9
		1/27/2010	6.61	147	3.48	3.0	<5.0	<5.0	<2.0
IW-2	12-17	7/16/2004	7.37	357	2.67	<1	44	170	<1.0
		8/16/2004	7.42	105	0.77	11	46	210	<1.0
		10/18/2004	7.34	286	2.45	<1.0	96	290	<1.0
		11/19/2004	7.09	138	0.25	6.3	550	150	2.5
		12/21/2004	7.20	118	1.05	<1.0	310	230	1.1
		1/24/2005	7.09	1.8	1.50	<1.0	240	190	1.7
		3/15/2005	7.14	NA	3.93	NA	280	130	21
		4/25/2005	7.98	100.2	3.73	NA	NA	NA	NA
		6/14/2005	7.38	104	4.20	NA	130	160	<1.0
		9/23/2005	7.09	193.8	3.29	NA	37	130	<1.0
		12/7/2005	7.24	124	3.84	NA	51	190	<1.0
		3/15/2006	7.72	85	3.32	NA	54	180	<1.0
		6/13/2006	7.16	145	8.64	NA	18	110	<1.0
		9/26/2006	7.43	53.2	3.47	NA	32	110	<1.0
		11/21/2006	7.21	-78	0.18	3.9	89	83	12
		12/21/2006	7.08	-96	0.33	1.1	41	100	<10
		1/19/2007	7.26	-64.8	6.71	3.5	59	91	8.6
		3/22/2007	7.11	89	4.13	1.2	31	100	3.3
		7/2/2007	7.42	203.5	3.83	1.1	15	130	2.9
		9/6/2007	7.02	-27	2.00	1.4	20	130	<1.0
		11/30/2007	8.36	304	2.70	2	16	110	<1.0
		12/11/2007	10.29	-53	0.49	NA	NA	NA	NA
		1/10/2008	7.19	-90	1.10	12.0	55	110	22
		3/20/2008	7.10	-103.3	0.83	2.0	64	100	4.5
		5/29/2008	7.00	251	2.22	<1.0	16	75	<1.0
		9/24/2008	14.00	-44.3	1.15	1.2	27	190	<1.0
		12/3/2008	7.31	247	0.29	1.4	17	110	13
		3/13/2009	7.88	-180.3	0.00	2	30	85	11
		6/18/2009	7.16	175.4	6.92	2.3	15	60	<1.0
		9/15/2009	7.23	269	4.15	3.2	19	89	<1.0
		11/4/2009	7.32	333	0.86	<1.0	21	90	4.0
		1/27/2010	7.03	416	2.02	1.6	14.9	67	<2.0
Risk-Based Groundwater Concentrations*						NA	104,000	1,800	198

See last page for footnotes

Table 3
East Off-Site Bioremediation Field Parameters and Select Groundwater Analytical Results
Former General Motors Corporation
Allison Gas Turbine, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Well Screen Interval (Feet)	Date Sampled	pH	ORP (mV)	DO (mg/L)	TOC (mg/L)	cis-1,2-Dichloroethene (ug/L)	Trichloroethene (ug/L)	Vinyl chloride (ug/L)
MW-163	10-20	7/16/2004	7.55	294	1.67	<1	250	1,300	<1.0
		8/16/2004	7.54	130	0.81	7.2	240	790	<1.0
		10/18/2004	7.29	223	4.22	<1.0	530	1,600	<1.0
		11/19/2004	6.64	120	0.33	220	1,300	700	<1.0
		12/21/2004	7.31	124	1.50	<1.0	620	470	<1.0
		1/24/2005	7.42	-25.9	2.00	9.9	380	360	<1.0
		3/15/2005	7.20	NA	4.34	NA	650	400	<1.0
		4/25/2005	8.25	10.1	4.37	NA	NA	NA	NA
		6/14/2005	7.14	78	3.75	NA	430	430	<1.0
		9/23/2005	6.90	108.2	0.50	NA	1,200	640	54
		12/7/2005	7.22	-38	4.28	NA	830	520	220
		3/15/2006	7.96	6	2.94	NA	270	410	96
		6/15/2006	7.32	-23	4.02	NA	220	440	52
		9/26/2006	7.20	209.9	1.35	NA	120	450	20
		11/21/2006	6.97	-101	3.81	170	1,200	58	42
		12/21/2006	7.00	-60	3.45	3.5	91	28	13
		1/19/2007	6.86	-113.3	7.01	62	170	<10	58
		3/22/2007	6.62	-122	1.39	83	210	23	230
		7/2/2007	7.12	151	4.16	2.8	41	46	<1.0
		9/7/2007	6.71	-185	1.08	3.9	18	16	30
		11/30/2007	7.44	-56	1.20	3	38	14	52
		12/11/2007	8.32	-68	0.30	NA	NA	NA	NA
		1/10/2008	7.41	-76	2.28	31	49	120	41
		3/20/2008	7.38	-103.6	0.74	<200	16	11	2.4
		5/29/2008	6.80	40	0.63	<5	100	22	77
		9/24/2008	8.65	-41.3	0.35	5.4	5.5	5.6	15
		12/3/2008	7.11	53	0.78	5.1	<1.0	1.6	<1.0
		3/13/2009	7.34	206	1.14	6.1	1.9	10	1.0
		6/18/2009	6.94	-92.9	2.26	4.1	39	32	11
		9/15/2009	6.85	147	0.94	4.0	19	20	12
		11/4/2009	6.96	201	0.40	1.7	16	93	9
		1/27/2010	6.82	208	2.81	2.0	<5.0	67	<2.0
MW-173	8-18	7/16/2004	7.30	286	1.03	<1	180	300	<1.0
		8/16/2004	7.37	340	0.47	8.7	120	260	<1.0
		10/18/2004	7.30	291	1.40	1.7	120	340	<1.0
		11/19/2004	7.26	161	1.21	37	150	330	<1.0
		12/21/2004	7.31	262	2.59	<1.0	260	430	<1.0
		1/24/2005	7.06	-15.4	2.72	<1.0	190	290	<1.0
		3/15/2005	7.20	NA	4.63	NA	110	290	<1.0
		4/25/2005	NA	128.2	3.47	NA	NA	NA	NA
		6/14/2005	7.21	104	5.07	NA	57	320	<1.0
		9/23/2005	7.05	207.7	3.21	NA	36	230	<1.0
		12/7/2005	7.37	102	6.48	NA	29	170	<1.0
		3/15/2006	7.86	64	4.41	NA	55	240	<1.0
		6/15/2006	7.23	28	3.20	NA	36	290	<1.0
		9/26/2006	7.15	293.3	2.18	NA	30	210	<1.0
		11/21/2006	7.35	0.51	2.32	<1.0	26	220	<1.0
		12/21/2006	7.12	2.0	1.55	1.0	39	270	<10
		1/19/2007	7.25	-8.3	4.40	<1.0	49	250	<1.0
		3/22/2007	7.13	3.0	3.57	1.5	25	300	<1.0
		7/2/2007	7.17	-40.3	3.12	<1.0	23	260	<1.0
		9/7/2007	7.02	-21.0	1.42	<1.0	14	180	<1.0
		11/30/2007	7.56	-9.0	1.88	<1.0	10	120	<1.0
		12/11/2007	8.62	-7.0	0.44	NA	NA	NA	NA
		1/10/2008	8.00	-41.0	1.12	4.7	52	210	1.3
		3/20/2008	6.99	-69.4	-0.03	140	75	160	54
		5/30/2008	7.10	82	6.35	2	160	190	1.6
		9/24/2008	10.40	38	1.19	1.3	140	320	2.0
		12/3/2008	7.26	143	3.98	1.2	20	150	<1.0
		3/13/2009	7.58	384	0.69	1.2	8.3	89	<1.0
		6/18/2009	7.31	74	4.05	1.9	71	230	<1.0
		9/15/2009	7.21	299	2.84	2.3	15	140	<1.0
		11/4/2009	7.28	268	1.45	<1.0	11	110	<1.0
		1/27/2010	7.06	289	2.89	1.0	10	148	<2.0
Risk-Based Groundwater Concentrations*						NA	104,000	1,800	198

See last page for footnotes

Table 3
East Off-Site Bioremediation Field Parameters and Select Groundwater Analytical Results
Former General Motors Corporation
Allison Gas Turbine, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Well Screen Interval (Feet)	Date Sampled	pH	ORP (mV)	DO (mg/L)	TOC (mg/L)	cis-1,2-Dichloroethene (ug/L)	Trichloroethene (ug/L)	Vinyl chloride (ug/L)
MW-156	5-20	7/16/2004	7.26	296	0.59	<1	36	230	<1.0
		8/16/2004	7.33	351	0.22	9.1	37	230	<1.0
		10/18/2004	7.26	270	6.66	<1.0	<1.0	13	<1.0
		11/19/2004	7.30	238	0.85	2.9	52	260	<1.0
		12/21/2004	7.38	253	1.70	1.5	54	250	<1.0
		1/24/2005	7.25	25.9	2.42	<1.0	35	130	<1.0
		3/16/2005	7.12	NA	1.96	NA	53	230	<1.0
		6/14/2005	7.42	106	7.78	NA	3.7	29	<1.0
		9/23/2005	6.96	139.8	1.30	NA	50	190	<1.0
		12/7/2005	7.35	72	3.63	NA	41	160	<1.0
		3/15/2006	8.23	111	4.41	NA	<1.0	4.3	<1.0
		6/14/2006	7.15	40	2.46	NA	36	160	<1.0
		9/27/2006	7.37	91.1	2.57	NA	46	240	<1.0
		11/21/2006	7.41	247	3.39	1.0	11	100	<1.0
		12/21/2006	7.16	31.1	1.41	1.3	55	240	<10
		1/19/2007	7.24	80.8	4.33	<1.0	34	200	<1.0
		3/23/2007	7.18	149	8.70	1.4	40	170	<1.0
		7/2/2007	7.31	85.2	1.11	1.2	41	170	<1.0
		9/6/2007	6.87	28	0.90	1.5	51	230	<1.0
		11/30/2007	7.71	27	2.16	1.8	52	200	<1.0
		12/11/2007	7.99	-52	1.30	NA	NA	NA	NA
		1/10/2008	7.89	16	6.34	1.3	9.5	58	<1.0
		3/20/2008	7.37	-0.2	11.47	<10.0	<1.0	7.6	<1.0
		5/30/2008	6.98	218	0.90	1.2	31	150	<1.0
		9/24/2008	14.00	-30	0.60	3.8	43	180	<1.0
		12/3/2008	7.18	122	1.70	1.6	71	160	<5.0
		3/12/2009	7.55	378	4.87	1.4	27	120	<1.0
		6/18/2009	7.33	128.3	4.27	2.2	23	79	<1.0
		9/16/2009	7.06	282	0.80	2.8	54	210	<1.0
		11/4/2009	7.24	298	1.31	<1.0	38	140	<1.0
		1/27/2010	7.10	312	3.30	1.3	25.1	115	<2.0
MW-151	5-20	7/16/2004	7.16	334	0.96	<1	3.1	5.1	<1.0
		8/16/2004	7.26	360	0.40	8.2	2.6	5.4	<1.0
		10/18/2004	7.11	236	0.26	<1.0	3.1	5.4	<1.0
		11/19/2004	7.10	254	3.02	13	3.5	4.7	<1.0
		12/21/2004	7.14	262	3.28	62	4.1	6.4	<1.0
		1/24/2005	7.13	50.6	4.00	<1.0	3.3	5.0	<1.0
		3/16/2005	7.10	NA	4.26	NA	3.6	5.3	<1.0
		6/14/2005	7.14	112	0.89	NA	2.8	3.6	<1.0
		9/23/2005	6.84	118	1.27	NA	3.23	4.57	<1.0
		12/7/2005	7.11	60	2.41	NA	4.6	4.8	<1.0
		3/15/2006	7.71	142	2.68	NA	3.4	4.8	<1.0
		6/14/2006	7.12	76	1.85	NA	2.6	4.6	<1.0
		9/27/2006	7.02	117.2	2.32	NA	3.6	6.6	<1.0
		11/21/2006	7.27	266	4.26	<1.0	3.5	7.4	<1.0
		12/21/2006	6.97	36.3	3.70	<1.0	3.5	6.5	<1.0
		1/19/2007	7.41	54.9	11.81	<1.0	2.2	6.0	<1.0
		3/23/2007	7.07	152	6.58	1.2	1.6	4.2	<1.0
		9/6/2007	6.86	29	1.75	1.6	2.7	7.6	<1.0
		11/30/2007	7.34	44	1.30	1.2	2.9	8.3	<1.0
		12/11/2007	7.55	-32	2.82	NA	NA	NA	NA
		1/10/2008	7.69	52	4.50	1.4	2.0	5.1	<1.0
		3/20/2008	7.10	19.2	9.40	<10.0	<1.0	2.7	<1.0
		5/30/2008	7.05	299	8.19	1.2	1.6	6.1	<1.0
		9/24/2008	14.00	-89.2	1.56	1.3	1.8	9.1	<1.0
		12/3/2008	7.14	177	1.79	1.7	2.1	7.8	<1.0
		3/13/2009	7.74	-34.3	1.30	1.9	1.8	5.1	<1.0
		6/18/2009	7.20	122.7	10.74	2.1	2.0	6.2	<1.0
		9/16/2009	7.16	294	2.20	4.6	1.7	5.3	<1.0
		11/4/2009	7.14	325	1.70	<1.0	1.6	7.0	<1.0
		1/27/2010	---	---	---	1.4	<5.0	<5.0	<2.0
Risk-Based Groundwater Concentrations*						NA	104,000	1,800	198

*Based on 10^{-6} risk from vapor intrusion to indoor air.
DO = dissolved oxygen
mg/L = milligrams per liter
mV = millivolts
NA = Not Applicable
ORP = oxidation-reduction potential
TOC = total organic carbon
ug/L = micrograms per liter

Table 4
Trend Analysis - Eastern Source Plume Stability Groundwater Monitoring Locations
Former General Motors Corportion
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP $6691004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Last 4 Quarters for Trichloroethene	Overall Trend [1]
MW-10-1R	6/19/2009	**57**	**Stable - 28 Events**
	6/19/2009	**58**	
	9/15/2009	**340**	
	9/15/2009	**330**	
	11/2009	**NS**	
	1/27/2010	**331**	
	1/27/2010	**297**	
MW-146	6/19/2009	**28**	**Stable - 28 Events**
	9/15/2009	**50**	
	11/4/2009	**45**	
	1/27/2010	**34**	
MW-151	6/18/2009	**6.2**	**Stable - 28 Events**
	9/16/2009	**5.3**	
	11/4/2009	**7.0**	
	1/27/2010	< 5.0	
MW-152	6/19/2009	**92**	**Decreasing - 28 Events**
	9/15/2009	**35**	
	11/4/2009	**110**	
	1/27/2010	**49.7**	
MW-156	6/18/2009	**79**	**Decreasing - 28 Events**
	9/16/2009	**210**	
	11/4/2009	**140**	
	1/27/2010	**115**	
MW-157	June 2009	**NS**	**Stable - 28 Events**
	9/16/2009	**70**	
	11/4/2009	**92**	
	1/27/2010	**89.1**	
MW-164	6/18/2009	**16**	**Stable - 28 Events**
	9/16/2009	**14**	
	11/4/2009	**21**	
	1/27/2010	**15.4**	

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

Samples analyzed using EPA SW-846 Method 8260
Results reported in micrograms per liter (µg/L)
NA = Not Analyzed NS = Not Sampled
Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Health Evaluation by Office of Environmental Response, July 1996.

[1]Trend Analysis completed using Mann Kendall Trend method.

Table 5
Trend Analysis - East Off-Site Area Bioremediation Groundwater Monitoring Locations
Former General Motors Corportion
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP $6691004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Last 4 Quarters for cis-1,2-Dichloroethene	Overall Trend [1]	Last 4 Quarters for Trichloroethene	Overall Trend [1]	Last 4 Quarters for Vinyl chloride	Overall Trend [1]
MW-151	6/18/2009	2.0	NA	6.2	Stable - 28 Events	<1.0	NA
	9/16/2009	1.7		5.3		<1.0	
	11/4/2009	1.6		7.0		<1.0	
	1/27/2010	< 5.0		< 5.0		<2.0	
MW-163	6/18/2009	39	Decreasing - 16 Events	32	Stable - 16 Events	11	Decreasing - 16 Events
	9/15/2009	19		20		12	
	11/4/2009	16		93		9.2	
	1/27/2010	<5.0		67		<2.0	
MW-173	6/18/2009	71	Stable - 16 Events	230	Decreasing - 16 Events	<1.0	NA
	9/15/2009	15		140		<1.0	
	11/4/2009	11		110		<1.0	
	1/27/2010	10		148		<2.0	
IW-1	6/18/2009	<1.0	NA	<1.0	NA	25	Decreasing - 16 Events
	9/15/2009	<1.0		<1.0		<1.0	
	11/4/2009	<1.0		<1.0		4.9	
	1/27/2010	<5.0		<5.0		<2.0	
IW-2	6/18/2009	15	NA	60	Decreasing - 16 Events	<1.0	Stable - 16 Events
	9/15/2009	19		89		<1.0	
	11/4/2009	21		90		4.0	
	1/27/2010	14.9		67		<2.0	

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

Samples analyzed using EPA SW-846 Method 8260
Results reported in micrograms per liter (µg/L)
NA = Not Analyzed NS = Not Sampled
Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Health Evaluation by Office of Environmental Response, July 1996.
[1]Trend Analysis completed using Mann Kendall Trend method.

Table 6
Trend Analysis - Western Source Plume Stability Groundwater Monitoring Locations
Former General Motors Corportion
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6691004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Last 4 Quarters for cis-1,2-Dichloroethene	Overall Trend [1]	Last 4 Quarters for Trichloroethene	Overall Trend [1]	Last 4 Quarters for Vinyl chloride	Overall Trend [1]
MW-148R	6/19/2009	8.1	Expansion - 28 Events	44	Expansion - 28 Events	<1.0	Expansion - 28 Events
	9/15/2009	530		88		100	
	11/3/2009	480		110		48	
	1/27/2010	190		201		<2.0	
MW-153	6/19/2009	3.9	Decreasing - 28 Events	63	Decreasing - 28 Events	<1.0	NA
	6/19/2009	4.1		63		<1.0	
	9/15/2009	16		120		<1.0	
	9/15/2009	20		130		<1.0	
	11/3/2009	25		190		<1.0	
	11/3/2009	24		180		<1.0	
	1/27/2010	< 5.0		79.5		<2.0	
	1/27/2010	< 5.0		76.8		<2.0	
MW-160	9/24/2008	25	Decreasing - 16 Events	<1.0	NA	5.5	Decreasing - 16 Events
	12/4/2008	26		<1.0		11	
	3/13/2009	26		<1.0		2.7	
	June 2009	NS		NS		NS	
	Sept 2009	NS		NS		NS	
	Nov 2009	NS		NS		NS	
	1/27/2010	16.5		< 5.0		2.3	
MW-161	3/13/2009	48	Decreasing - 28 Events	39	Decreasing - 28 Events	<1.0	Decreasing - 28 Events
	6/19/2009	<1.0		7.0		<1.0	
	11/4/2009	100		110		5.2	
	11/4/2009	88		110		5.3	
	1/27/2010	<5.0		10.1		<2.0	
MW-165S	6/18/2009	1.9	Decreasing - 28 Events	<1.0	NA	4.7	Decreasing - 28 Events
	9/15/2009	2.8		<1.0		3.2	
	11/3/2009	2.9		<1.0		2.4	
	2/3/2010	<5.0		<5.0		<2.0	
MW-165D	6/18/2009	240	Decreasing - 28 Events	<1.0	NA	500	Decreasing - 28 Events
	9/15/2009	98		<1.0		160	
	11/3/2009	280		<1.0		400	
	2/3/2010	255		<5.0		286	
MW-166S	6/18/2009	17	Decreasing - 28 Events	<1.0	NA	<1.0	Decreasing - 28 Events
	9/15/2009	230		<1.0		7.2	
	11/3/2009	170		<1.0		6.5	
	2/3/2010	159		<5.0		2.8	
MW-166D	6/18/2009	920	Decreasing - 28 Events	<1.0	NA	150	Decreasing - 28 Events
	9/15/2009	850		<10		210	
	11/3/2009	1,100		<1.0		240	
	2/3/2010	797		<5.0		233	
MW-167D	6/19/2009	660	Stable - 28 Events	<1.0	NA	23	Decreasing - 28 Events
	6/19/2009	550		<1.0		19	
	9/16/2009	500		<10		45	
	9/16/2009	580		<1.0		69	
	11/3/2009	580		<1.0		34	
	11/3/2009	740		<1.0		33	
	2/3/2010	419		< 5.0		16.5	
	2/3/2010	443		< 5.0		17	
MW-169D	6/19/2009	<1.0	NA	<1.0	NA	13	Stable - 28 Events
	9/16/2009	<1.0		<1.0		17	
	11/3/2009	<1.0		<1.0		14	
	2/3/2010	<5.0		<5.0		<2.0	

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

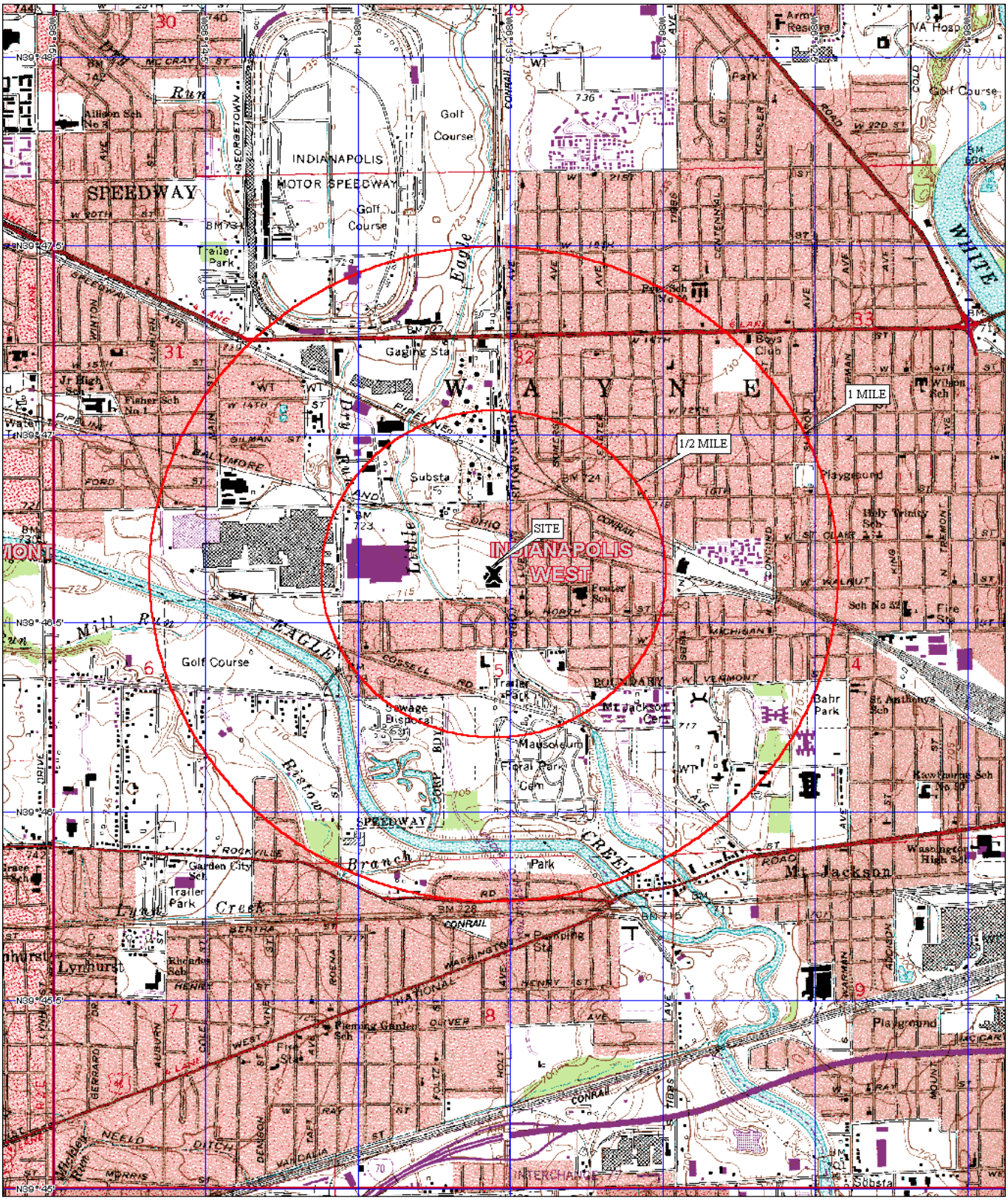
Samples analyzed using EPA SW-846 Method 8260 NA = Not Analyzed NS = Not Sampled

Results reported in micrograms per liter (µg/L)

Indiana Department of Environmental ManagementVoluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Health Evaluation by Office of Environmental Response, July 1996.

[1]Trend Analysis completed using Mann Kendall Trend method.

FIGURES



3-D TopoQuads Copyright © 1999 DeLorme Yarmouth, ME 04096 Source Data: USGS 693 ft Scale: 1 : 24,000 Detail: 13-0 Datum: WGS84

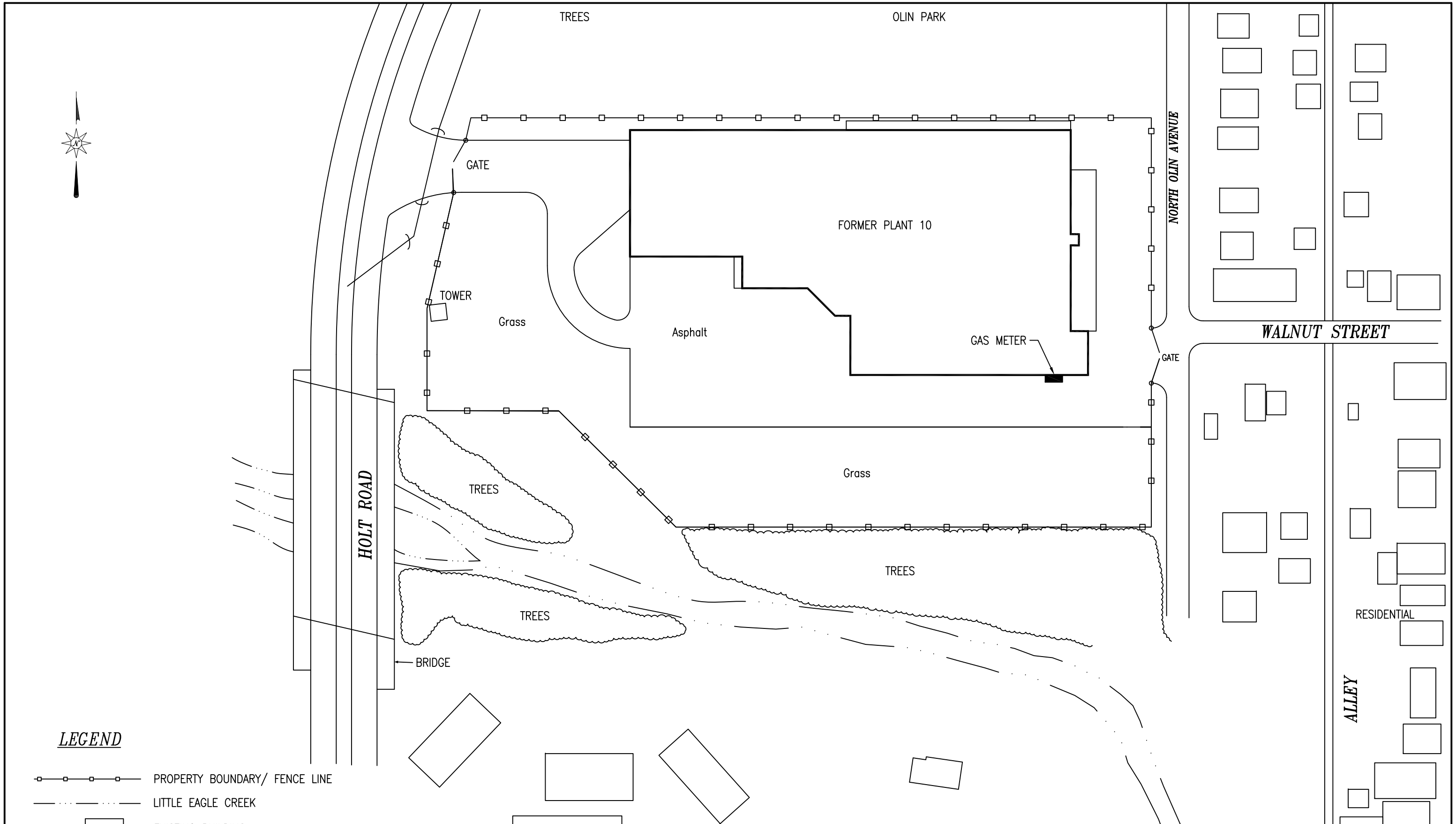
KERAMIDA Inc.
401 North College Avenue
Indianapolis, Indiana 46202

(317) 685-6600 FAX (317) 685-6610

Figure 1
Site Location Map
Former General Motors Corporation
Allison Gas Turbine Plant 10
700 North Olin Avenue
Indianapolis, IN

Prepared by :	**Becky Cassinelli**
Approved by :	**Kris Buckles**
Date :	**9/29/2002**
Project Number:	**2829E**

N.



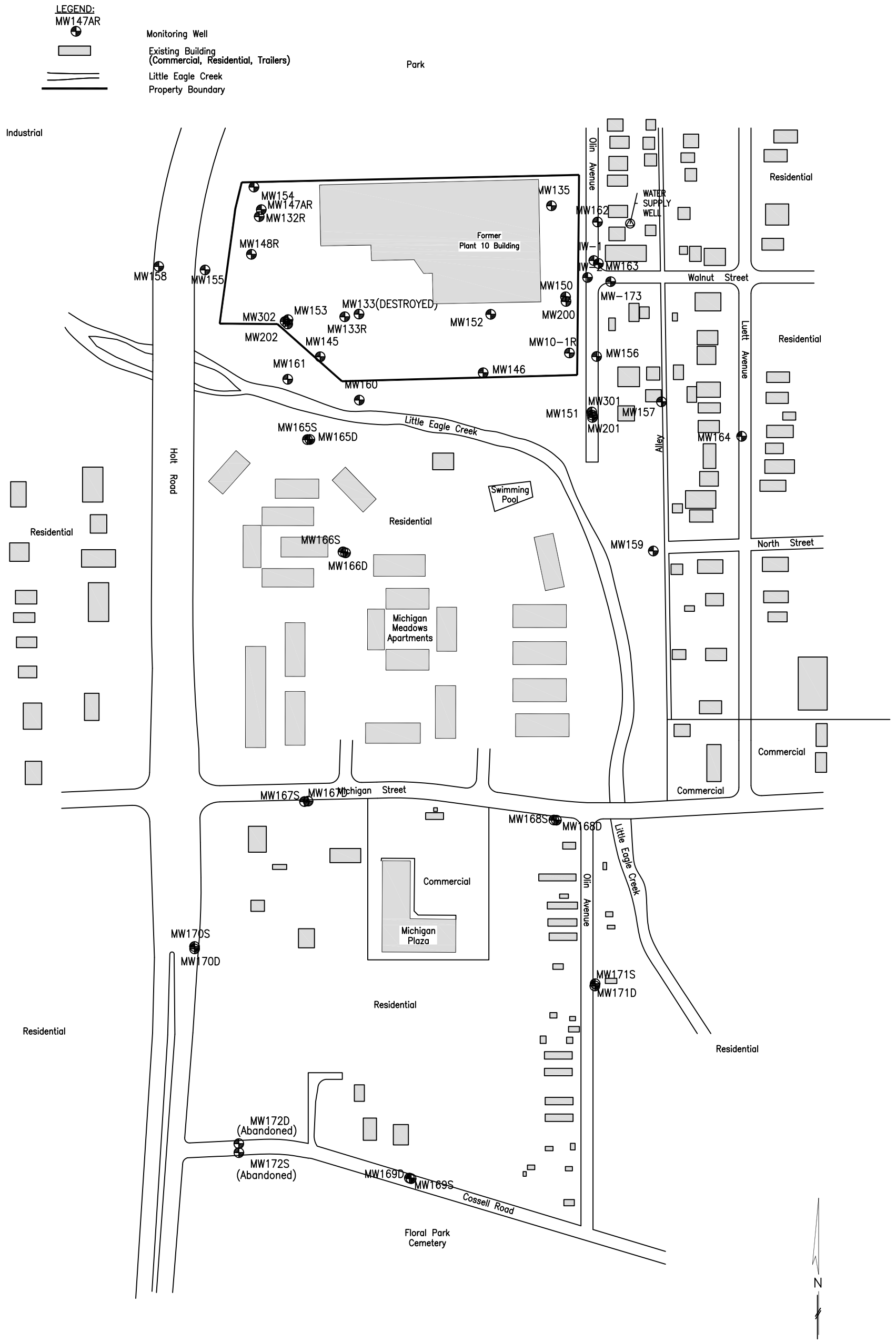
KERAMIDA
A Global EHS Services Provider

Project: Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana	
	Drawn By: MHJ
Project Number: 2829E	Approved By: RSF
Date: June 11, 2009	File: 2829EFig2

Figure 2

Site Map

G:\CLIENTS\G\Genuine Parts\2829E Genuine Parts Invest. thru Remed\2829E-0018\003, Remediation Systems\Figures, Logs & Tables\Figures\System Evaluation Reports\Olden\Figure 2's & 3's\2829EFig2.dwg, Site Plan, 11/2/2009 1:49:51 PM



SCALE: 1" = 200'

0 100' 200'

KERAMIDA
A Global EHS Services Provider

Project: Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana	
	Drawn By: J.CLARK
Project Number: 2829E	Approved By: RSF
Date: October 25, 2005	File No. GenuinePtsFigs

Figure 3

Expanded Site Map

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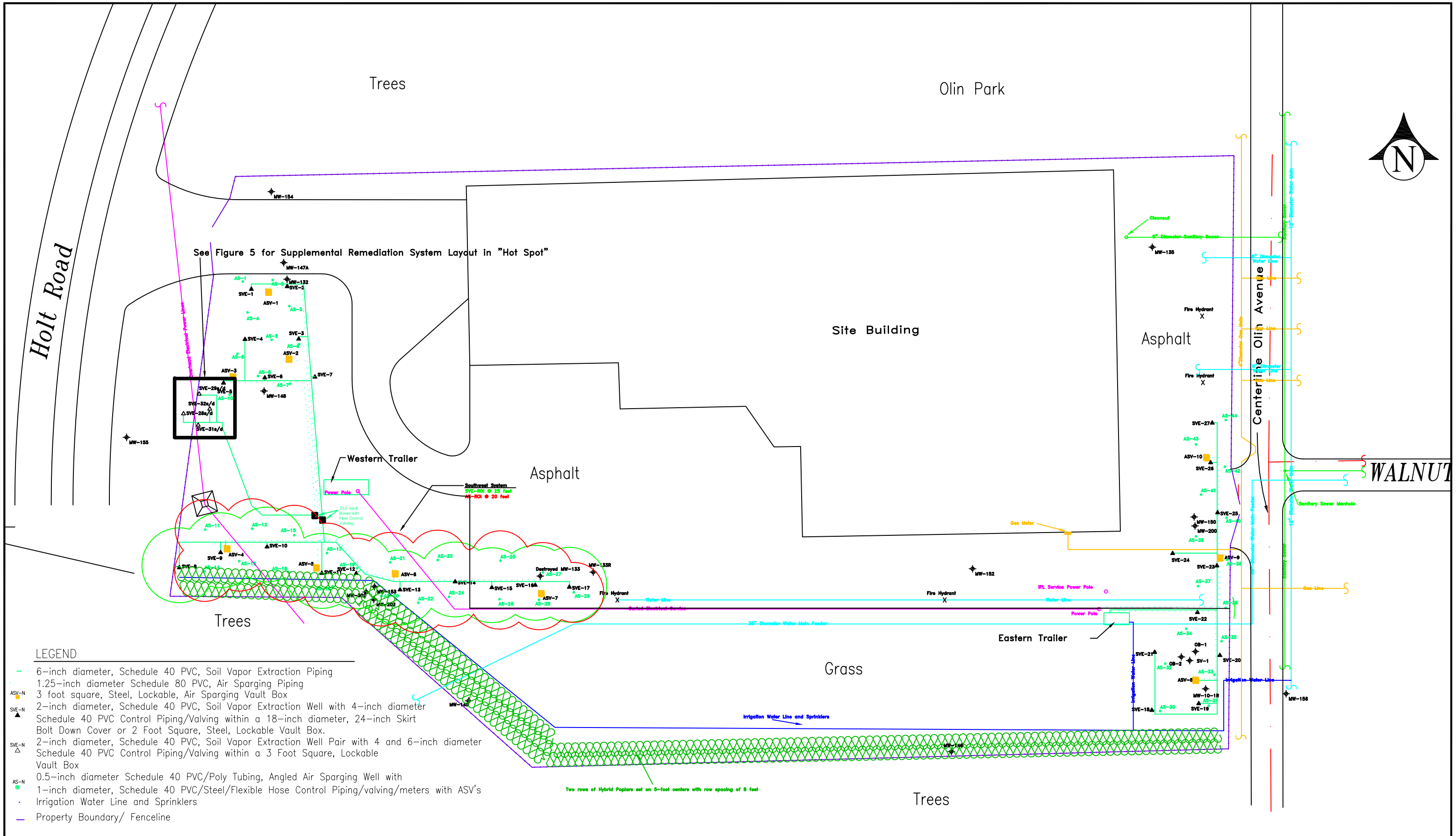

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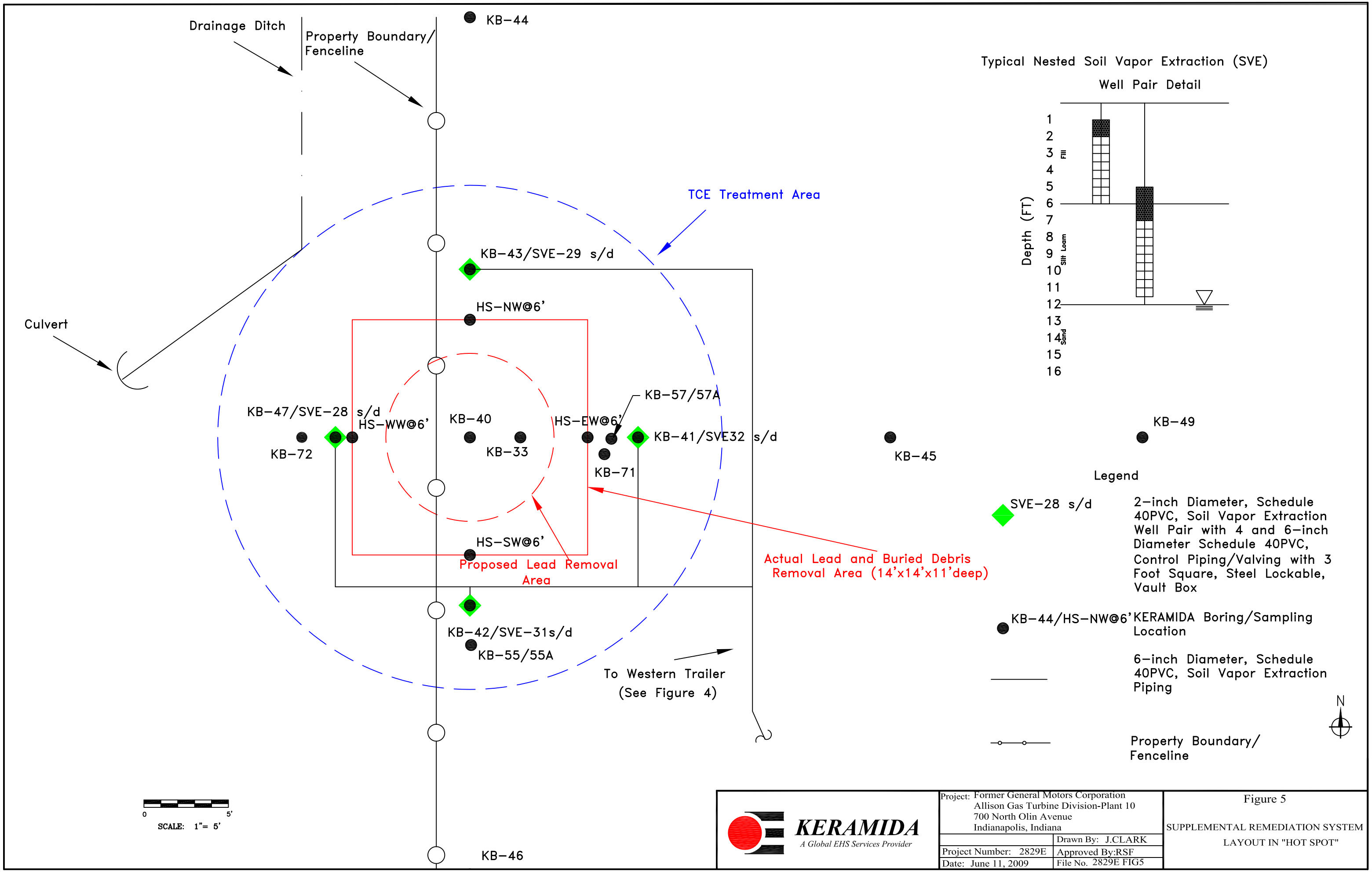
KERAMIDA
A Global EHS Services Provider

Project: Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana	
	Drawn By: J.CLARK
Project Number: 2829E	Approved By: RSF
Date: June 10, 2009	File No. Figs4March2006

Figure 4

REMEDIATION SYSTEM LAYOUT WITH UTILITIES

G:\CLIENTS\G\Genuine Parts\2829E Genuine Parts Invest. thru Remed\2829E-001&003, Remediation Systems\Figures, Logs & Tables\Figures\System Evaluation Reports\Figure 4's\Figure 4 March 2006.dwg, Fig 4, 7/1/2009 9:21:19 AM



KERAMIDA
A Global EHS Services Provider

Project: Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana	Drawn By: J.CLARK
Project Number: 2829E	Approved By:RSF
Date: June 11, 2009	File No. 2829E FIG5

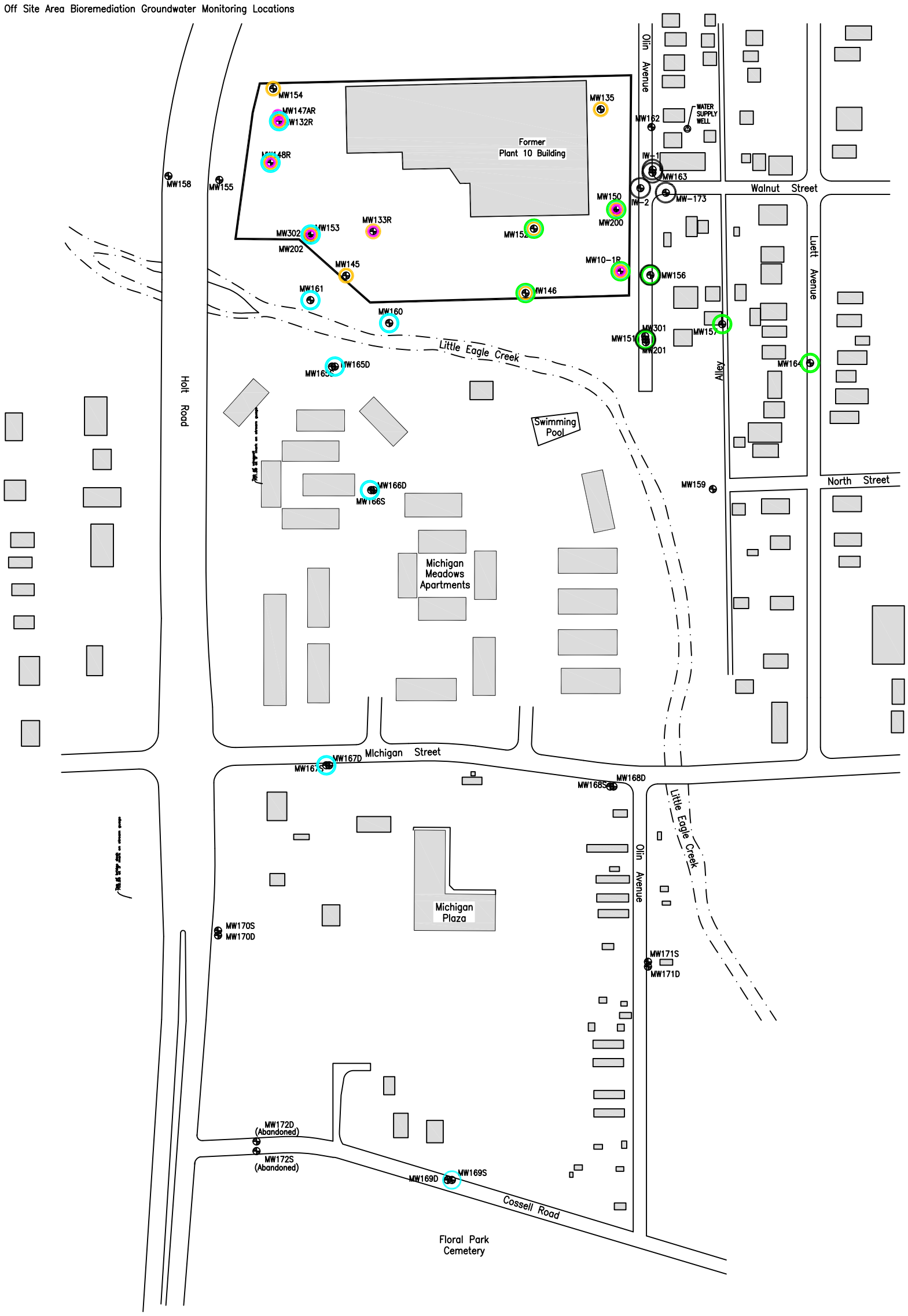
Figure 5

SUPPLEMENTAL REMEDIATION SYSTEM LAYOUT IN "HOT SPOT"

G:\CLIENTS\G\Genuine Parts\2829E Genuine Parts Invest. thru Remed\2829E-001&003, Remediation Systems\Figures, Logs & Tables\Figures\System Evaluation Reports\Figure 5's\Figure 5 July through September 2005 Report.dwg, Fig 5, 7/1/2009 9:23:55 AM

LEGEND:

- MW135 — Monitoring Well
- Existing Building (Commercial, Residential, Trailers)
- Little Eagle Creek
- Property Boundary/ Fenceline
- Selective On-Site Groundwater Monitoring Locations
- On-Site Groundwater Monitoring Locations
- Western Source Plume Stability Groundwater Monitoring Locations
- Eastern Source Plume Stability Groundwater Monitoring Locations
- East Off Site Area Bioremediation Groundwater Monitoring Locations



SCALE: 1"= 200'

0 100' 200'

KERAMIDA
A Global EHS Services Provider

Project: Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana	Figure 6 GROUNDWATER MONITORING PLAN
	Drawn By: J.CLARK
Project Number: 2829E	Approved By:
Date: June 10, 2009	File No. 2829EFigs6

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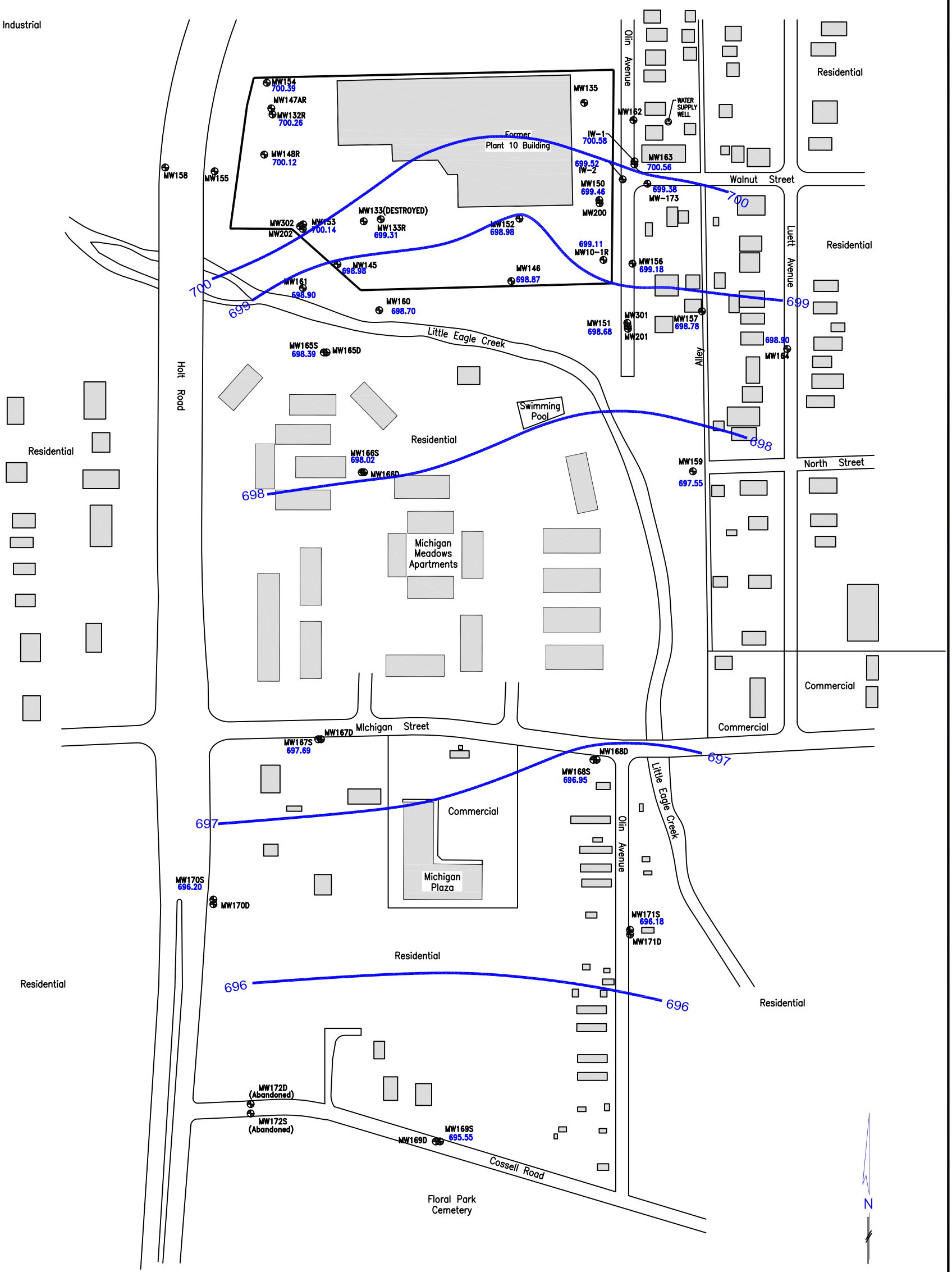
LEGEND:

- MW148 Monitoring Well
- Existing Building (Commercial, Residential, Trailers)
- Little Eagle Creek
- Property Boundary/ Fence Line
- 700 Groundwater Potentiometric Surface Elevation feet above Mean Sea Level



SCALE: 1" = 200'

0 100' 200'

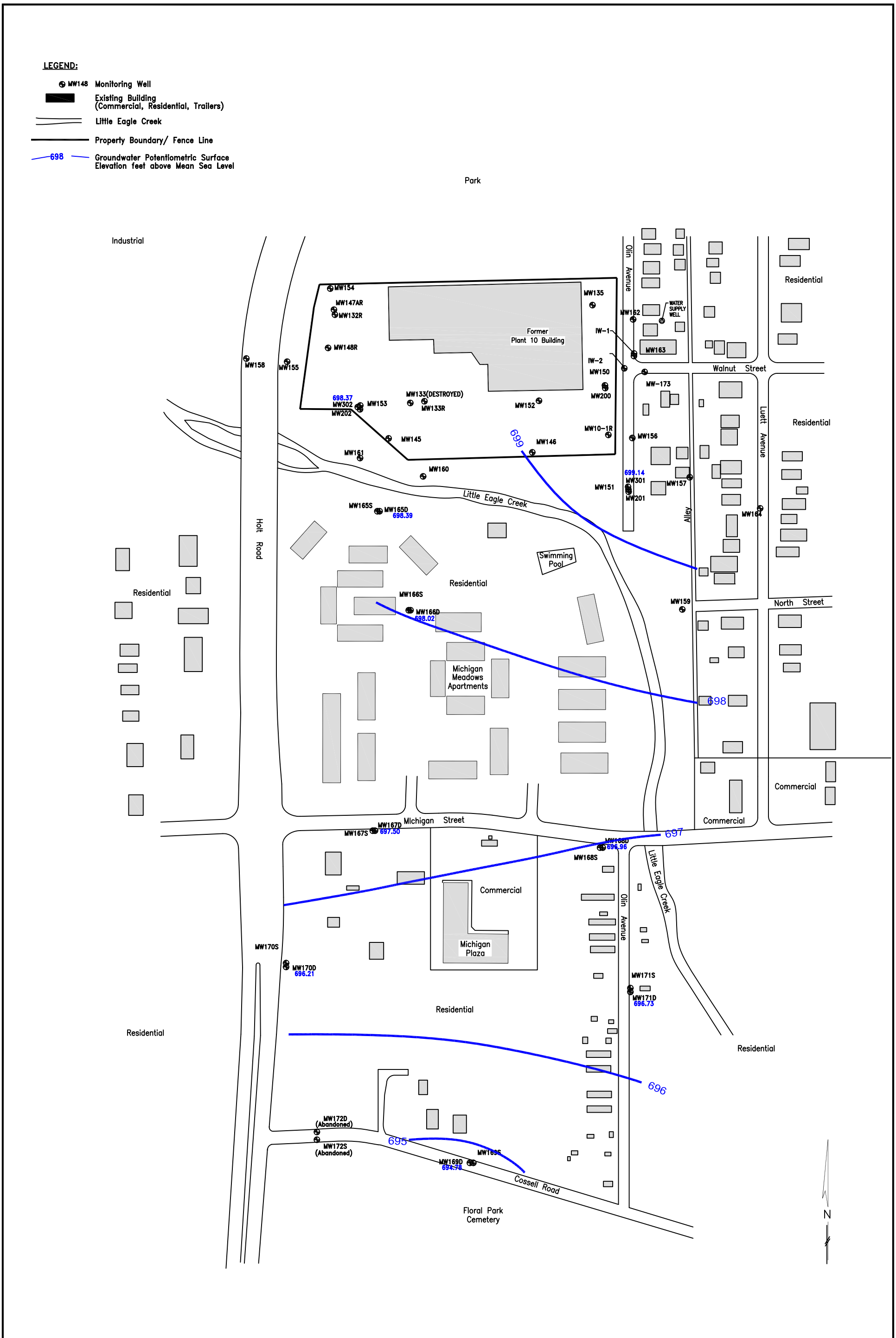
KERAMIDA
A Global EHS Services Provider

Project: Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana	
	Drawn By: J.CLARK
Project Number: 2829E-001	Approved By: RSF
Date: March 12, 2010	File:GenuinePtsPot

Figure 7

Groundwater Potentiometric Surface Map-Shallow Wells
January 26, 2010

G:\CLIENTS\G\Genuine Parts\2829E Genuine Parts Invest. thru Remed\2829E-0018003, Remediation Systems\Figures, Logs & Tables\Figures\GenuinePtsPot.dwg, Pot Map Shallow Jan 26 2010, 3/12/2010 11:30:50 AM



SCALE: 1" = 200'

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KERAMIDA
A Global EHS Services Provider

Project: Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana	
	Drawn By: J.CLARK
Project Number: 2829E-001	Approved By: RSF
Date: March 12, 2010	File: GenuinePtsPot

Figure 8

Groundwater Potentiometric Surface Map-Deep Wells
January 26, 2010

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ATTACHMENT 1

January through March 2010 - Operation & Maintenance Logs

KERAMIDA ENVIRONMENTAL, INC.
401 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 - FAX (317) 685-6610

OPERATION & MAINTENANCE LOG
Genuine Parts Groundwater Remediation System
KERAMIDA PROJECT #2829E

Date: 1-5-09 Technician: Alan Harper

SOUTHWEST SYSTEM STATUS

SVE Blower (B-201) Operating ? (Yes / No)
Air Compressor (AC-201) Operating ? (Yes / No)
Air Sparges Operating ? (Yes/No)
Heater Operating ? (Yes/No)
Ventilation Operating ? (Yes/No)

If yes, which vault? (ASV 4, 5, 6, or 7)

OPERATIONAL PARAMETERS

SVE System

Influent Vacuum (PI-201)	18	Inches of H2O
Influent Air Temperature (TI-201)	26	°F
Influent Air Flowrate (FI-201)	—	scfm
Ambient Air Flowrate (FI-202)	—	scfm
Particulate Filter Inlet Vacuum (PI-202)	5	Inches of H2O
Particulate Filter Outlet Vacuum (PI-203)	3	Inches of H2O
Effluent Air Pressure (PI-204)	0	Inches of H2O
Effluent Air Flowrate (FI-203)	1000	scfm
Effluent Air Temperature (TI-202)	78	°F
Blower Current (B-201)	24	amps
Blower Hours (B-201)	07532	hours

Air Sparging System

Air Injection Pressure ASV-4 (PI-207)	34	psi
Air Injection Flowrate ASV-4 (FI-204)	12	scfm
Air Injection Pressure ASV-5 (PI-208)	36	psi
Air Injection Flowrate ASV-5 (FI-205)	13	scfm
Air Injection Pressure ASV-6 (PI-209)	35	psi
Air Injection Flowrate ASV-6 (FI-206)	11.5	scfm
Air Injection Pressure ASV-7 (PI-210)	12	psi
Air Injection Flowrate ASV-7 (FI-207)	32	scfm
Regulator Pressure (PI-206)	40	psi
Compressor Pressure (PI-205)	110	psi
Compressor Air Temperature (TI-203)	86	°F
Compressor Air Temperature on AC-201 display unit	188	°F
Compressor Load Hours AC-201 display unit	18309	hours 52669
Compressor Current (AC-201)	18/26	amps

MAINTENANCE PARAMETERS:

Monthly Effluent Vapor Sample Collected ? (Yes/No) If yes, name: _____
SVE Knockout Tanks Drained ? (Yes/No)
Blower Dilution Air Filter (FS-201) Cleaned ? (Yes/No) Changed ? (Yes/No)
Blower In-line Air Filter (PF-201) Cleaned ? (Yes/No) Changed ? (Yes/No) — Pressure loss across (PI-202 and PI-203) not to exceed 14 inches of H_2O.
Blower Lubricated ? (Yes/No) — Lubricate weekly.
Blower Oil Changed ? (Yes/No) — Change every 1,000 hours.
Compressor In-line Air Filters (PF-202) Changed? (Yes/No) — Changing frequency based on indicators on filter housings.
Compressor Filter Changed ? (Yes/No) — Change every 1,500 hours.
Compressor Oil Changed ? (Yes/No) — Change every 4,000 hours.

NOTES: Adjust Belt Tension on Compressor
Balence Wells Well Vaults Frozen Had to use torch to open due to freezing vault lids.

KERAMIDA ENVIRONMENTAL, INC.
401 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 - FAX (317) 685-6610

OPERATION & MAINTENANCE LOG
Genuine Parts Groundwater Remediation System
KERAMIDA PROJECT #2829E

Date: 1-11-10 Technician: Alan Harper

SOUTHWEST SYSTEM STATUS

SVE Blower (B-201) Operating ? (Yes / No)
Air Compressor (AC-201) Operating ? (Yes / No)
Air Sparges Operating ? (Yes/No)
Heater Operating ? (Yes/No)
Ventilation Operating ? (Yes/No)

If yes, which vault? (ASV 4, 5, 6, or 7)

OPERATIONAL PARAMETERS

SVE System

Influent Vacuum (PI-201)	16.5	Inches of H2O
Influent Air Temperature (TI-201)	50	°F
Influent Air Flowrate (FI-201)	—	scfm
Ambient Air Flowrate (FI-202)	—	scfm
Particulate Filter Inlet Vacuum (PI-202)	56	Inches of H2O
Particulate Filter Outlet Vacuum (PI-203)	60	Inches of H2O
Effluent Air Pressure (PI-204)	1000	Inches of H2O
Effluent Air Flowrate (FI-203)		scfm
Effluent Air Temperature (TI-202)	38	°F
Blower Current (B-201)	24	amps
Blower Hours (B-201)	57674	hours

Air Sparging System

Air Injection Pressure ASV-4 (PI-207)	35	psi
Air Injection Flowrate ASV-4 (FI-204)	12	scfm
Air Injection Pressure ASV-5 (PI-208)	33	psi
Air Injection Flowrate ASV-5 (FI-205)	14	scfm
Air Injection Pressure ASV-6 (PI-209)	30	psi
Air Injection Flowrate ASV-6 (FI-206)	12	scfm
Air Injection Pressure ASV-7 (PI-210)	34	psi
Air Injection Flowrate ASV-7 (FI-207)	11.5	scfm
Regulator Pressure (PI-206)	40	psi
Compressor Pressure (PI-205)	110	psi
Compressor Air Temperature (TI-203)	85	°F
Compressor Air Temperature on AC-201 display unit	189	°F
Compressor Load Hours AC-201 display unit	18367	hours
Compressor Current (AC-201)	17.26	amps

52812

MAINTENANCE PARAMETERS:

Monthly Effluent Vapor Sample Collected ? (Yes/No) — If yes, name: _____
SVE Knockout Tanks Drained ? (Yes/No)
Blower Dilution Air Filter (FS-201) Cleaned ? (Yes/No) Changed ? (Yes/No)
Blower In-line Air Filter (PF-201) Cleaned ? (Yes/No) Changed ? (Yes/No) — Pressure loss across (PI-202 and PI-203) not to exceed 14 inches of H_2O.
Blower Lubricated ? (Yes/No) — Lubricate weekly.
Blower Oil Changed ? (Yes/No) — Change every 1,000 hours.
Compressor In-line Air Filters (PF-202) Changed? (Yes/No) — Changing frequency based on indicators on filter housings.
Compressor Filter Changed ? (Yes/No) — Change every 1,500 hours.
Compressor Oil Changed ? (Yes/No) — Change every 4,000 hours.

NOTES: PERFORMANCE TEST ON SYSTEM

KERAMIDA ENVIRONMENTAL, INC.
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OPERATION & MAINTENANCE LOG
Genuine Parts Groundwater Remediation System
KERAMIDA PROJECT #2829E

Date: 1-19-10 Technician: A. Hanpen

SOUTHWEST SYSTEM STATUS

SVE Blower (B-201) Operating ? **(Yes / No)**
Air Compressor (AC-201) Operating ? **(Yes / No)**
Air Sparges Operating ? **(Yes/No)**
Heater Operating ? **(Yes/No)**
Ventilation Operating ? **(Yes/No)**

If yes, which vault? (ASV 4, 5, 6, or 7)

OPERATIONAL PARAMETERS

SVE System

Influent Vacuum (PI-201)	14	Inches of H2O
Influent Air Temperature (TI-201)	37°	°F
Influent Air Flowrate (FI-201)	—	scfm
Ambient Air Flowrate (FI-202)	—	scfm
Particulate Filter Inlet Vacuum (PI-202)	45	Inches of H2O
Particulate Filter Outlet Vacuum (PI-203)	49	Inches of H2O
Effluent Air Pressure (PI-204)	1000	Inches of H2O
Effluent Air Flowrate (FI-203)	1	scfm
Effluent Air Temperature (TI-202)	90	°F
Blower Current (B-201)	23.5	amps
Blower Hours (B-201)	57866	hours

Air Sparging System

Air Injection Pressure ASV-4 (PI-207)	37	psi
Air Injection Flowrate ASV-4 (FI-204)	12	scfm
Air Injection Pressure ASV-5 (PI-208)	36	psi
Air Injection Flowrate ASV-5 (FI-205)	12	scfm
Air Injection Pressure ASV-6 (PI-209)	34	psi
Air Injection Flowrate ASV-6 (FI-206)	12	scfm
Air Injection Pressure ASV-7 (PI-210)	32	psi
Air Injection Flowrate ASV-7 (FI-207)	11	scfm
Regulator Pressure (PI-206)	40	psi
Compressor Pressure (PI-205)	110	psi
Compressor Air Temperature (TI-203)	89	°F
Compressor Air Temperature on AC-201 display unit	186	°F
Compressor Load Hours AC-201 display unit	18438	hours 53002
Compressor Current (AC-201)	17/26	amps

MAINTENANCE PARAMETERS:

Monthly Effluent Vapor Sample Collected ? **(Yes/No)** If yes, name: _____
SVE Knockout Tanks Drained ? **(Yes/No)**
Blower Dilution Air Filter (FS-201) Cleaned ? **(Yes/No)** Changed ? **(Yes/No)**
Blower In-line Air Filter (PF-201) Cleaned ? **(Yes/No)** Changed ? **(Yes/No)** — Pressure loss across (PI-202 and PI-203) not to exceed 14 inches of H_2O.
Blower Lubricated ? **(Yes/No)** — Lubricate weekly.
Blower Oil Changed ? **(Yes/No)** — Change every 1,000 hours.
Compressor In-line Air Filters (PF-202) Changed? **(Yes/No)** — Changing frequency based on indicators on filter housings.
Compressor Filter Changed ? **(Yes/No)** YES — Change every 1,500 hours.
Compressor Oil Changed ? **(Yes/No)** — Change every 4,000 hours.

NOTES:

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OPERATION & MAINTENANCE LOG
Genuine Parts Groundwater Remediation System
KERAMIDA PROJECT #2829E

Date: 1/26/10 Technician: R. Fedorchuk

SOUTHWEST SYSTEM STATUS

SVE Blower (B-201) Operating ? (Yes/No)
Air Compressor (AC-201) Operating ? (Yes/No)
Air Sparges Operating ? (Yes/No) — If yes, which vault? (ASV 4, 5, 6, or 7)
Heater Operating ? (Yes/No)
Ventilation Operating ? (Yes/No) off

OPERATIONAL PARAMETERS

SVE System

Influent Vacuum (PI-201)	16	Inches of H2O
Influent Air Temperature (TI-201)	37	°F
Influent Air Flowrate (FI-201)	–	scfm
Ambient Air Flowrate (FI-202)	–	scfm
Particulate Filter Inlet Vacuum (PI-202)	54	Inches of H2O
Particulate Filter Outlet Vacuum (PI-203)	46	Inches of H2O
Effluent Air Pressure (PI-204)	0	Inches of H2O
Effluent Air Flowrate (FI-203)	1000	scfm
Effluent Air Temperature (TI-202)	79	°F
Blower Current (B-201)	21	amps
Blower Hours (B-201)	58035	hours

Air Sparging System

Air Injection Pressure ASV-4 (PI-207)	34	psi
Air Injection Flowrate ASV-4 (FI-204)	18	scfm
Air Injection Pressure ASV-5 (PI-208)	34	psi
Air Injection Flowrate ASV-5 (FI-205)	16	scfm
Air Injection Pressure ASV-6 (PI-209)	35	psi
Air Injection Flowrate ASV-6 (FI-206)	11	scfm
Air Injection Pressure ASV-7 (PI-210)	32	psi
Air Injection Flowrate ASV-7 (FI-207)	18	scfm
Regulator Pressure (PI-206)	40	psi
Compressor Pressure (PI-205)	108	psi
Compressor Air Temperature (TI-203)	80	°F
Compressor Air Temperature on AC-201 display unit	185	°F
Compressor Load Hours AC-201 display unit	18500	hours 53171 total
Compressor Current (AC-201)	25 load 17 idle	amps

MAINTENANCE PARAMETERS:

Monthly Effluent Vapor Sample Collected ? (Yes/No) — If yes, name: SW Vapor Effluent
SVE Knockout Tanks Drained ? (Yes/No)
Blower Dilution Air Filter (FS-201) Cleaned ? (Yes/No) Changed ? (Yes/No)
Blower In-line Air Filter (PF-201) Cleaned ? (Yes/No) Changed ? (Yes/No) — Pressure loss across (PI-202 and PI-203) not to exceed 14 inches of H_2O.
Blower Lubricated ? (Yes/No) — Lubricate weekly.
Blower Oil Changed ? (Yes/No) — Change every 1,000 hours.
Compressor In-line Air Filters (PF-202) Changed? (Yes/No) — Changing frequency based on indicators on filter housings.
Compressor Filter Changed ? (Yes/No) — Change every 1,500 hours.
Compressor Oil Changed ? (Yes/No) — Change every 4,000 hours.

NOTES:

- Alan conducting GW monitoring event today w/ Jason. tomorrow.
- Surveying TOC's for MW-100, 101 and MW-10-IRR (See logbook)

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OPERATION & MAINTENANCE LOG
Genuine Parts Groundwater Remediation System
KERAMIDA PROJECT #2829E

Date: 2/1/10 Technician: J. Juliano

SOUTHWEST SYSTEM STATUS

SVE Blower (B-201) Operating ? (Yes / No)
Air Compressor (AC-201) Operating ? (Yes / No)
Air Sparges Operating ? (Yes/No)
Heater Operating ? (Yes/No)
Ventilation Operating ? (Yes/No) Off

If yes, which vault? (ASV 4, 5, 6, or 7)

OPERATIONAL PARAMETERS

SVE System

Influent Vacuum (PI-201)	15	Inches of H2O
Influent Air Temperature (TI-201)	34	°F
Influent Air Flowrate (FI-201)	—	scfm
Ambient Air Flowrate (FI-202)	—	scfm
Particulate Filter Inlet Vacuum (PI-202)	54	Inches of H2O
Particulate Filter Outlet Vacuum (PI-203)	48	Inches of H2O
Effluent Air Pressure (PI-204)	0	Inches of H2O
Effluent Air Flowrate (FI-203)	1000	scfm
Effluent Air Temperature (TI-202)	81	°F
Blower Current (B-201)	21	amps
Blower Hours (B-201)	55153	hours

Air Sparging System

Air Injection Pressure ASV-4 (PI-207)	34	psi
Air Injection Flowrate ASV-4 (FI-204)	12	scfm
Air Injection Pressure ASV-5 (PI-208)	34	psi
Air Injection Flowrate ASV-5 (FI-205)	16	scfm
Air Injection Pressure ASV-6 (PI-209)	34	psi
Air Injection Flowrate ASV-6 (FI-206)	18	scfm
Air Injection Pressure ASV-7 (PI-210)	32	psi
Air Injection Flowrate ASV-7 (FI-207)	12	scfm
Regulator Pressure (PI-206)	39	psi
Compressor Pressure (PI-205)	108	psi
Compressor Air Temperature (TI-203)	(5) ~~52~~ ~~190~~ 91	°F
Compressor Air Temperature on AC-201 display unit	190	°F
Compressor Load Hours AC-201 display unit	18554	hours 53318 TOTAL
Compressor Current (AC-201)	16 idle 25 Load	amps

MAINTENANCE PARAMETERS:

Monthly Effluent Vapor Sample Collected ? (Yes/No) — If yes, name: _____
SVE Knockout Tanks Drained ? (Yes/No)
Blower Dilution Air Filter (FS-201) Cleaned ? (Yes/No) Changed ? (Yes/No)
Blower In-line Air Filter (PF-201) Cleaned ? (Yes/No) Changed ? (Yes/No) — Pressure loss across (PI-202 and PI-203) not to exceed 14 inches of H_2O.
Blower Lubricated ? (Yes/No) — Lubricate weekly.
Blower Oil Changed ? (Yes/No) — Change every 1,000 hours.
Compressor In-line Air Filters (PF-202) Changed? (Yes/No) — Changing frequency based on indicators on filter housings.
Compressor Filter Changed ? (Yes/No) — Change every 1,500 hours.
Compressor Oil Changed ? (Yes/No) — Change every 4,000 hours.

NOTES:

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OPERATION & MAINTENANCE LOG
Genuine Parts Groundwater Remediation System
KERAMIDA PROJECT #2829E

Date: 2-9-10 Technician: A. HARPER

SOUTHWEST SYSTEM STATUS

SVE Blower (B-201) Operating ? (Yes / No)
Air Compressor (AC-201) Operating ? (Yes / No)
Air Sparges Operating ? (Yes/No)
Heater Operating ? (Yes/No)
Ventilation Operating ? (Yes/No)

If yes, which vault? (ASV 4, 5, 6, or 7)

OPERATIONAL PARAMETERS

SVE System

Influent Vacuum (PI-201)	17	Inches of H2O
Influent Air Temperature (TI-201)	32	°F
Influent Air Flowrate (FI-201)	—	scfm
Ambient Air Flowrate (FI-202)	—	scfm
Particulate Filter Inlet Vacuum (PI-202)	58	Inches of H2O
Particulate Filter Outlet Vacuum (PI-203)	58	Inches of H2O
Effluent Air Pressure (PI-204)	0	Inches of H2O
Effluent Air Flowrate (FI-203)	1000	scfm
Effluent Air Temperature (TI-202)	82	°F
Blower Current (B-201)	21	amps
Blower Hours (B-201)	58371	hours

Air Sparging System

Air Injection Pressure ASV-4 (PI-207)	34	psi
Air Injection Flowrate ASV-4 (FI-204)	12	scfm
Air Injection Pressure ASV-5 (PI-208)	34	psi
Air Injection Flowrate ASV-5 (FI-205)	15	scfm
Air Injection Pressure ASV-6 (PI-209)	35	psi
Air Injection Flowrate ASV-6 (FI-206)	11	scfm
Air Injection Pressure ASV-7 (PI-210)	34	psi
Air Injection Flowrate ASV-7 (FI-207)	12	scfm
Regulator Pressure (PI-206)	40	psi
Compressor Pressure (PI-205)	110	psi
Compressor Air Temperature (TI-203)	93	°F
Compressor Air Temperature on AC-201 display unit	186	°F
Compressor Load Hours AC-201 display unit	18623	hours
Compressor Current (AC-201)	17/25	amps

53507 Total

MAINTENANCE PARAMETERS:

Monthly Effluent Vapor Sample Collected? (Yes/No) — If yes, name: VOC + Vinyl Chloride SVE Ex.
SVE Knockout Tanks Drained ? (Yes/No)
Blower Dilution Air Filter (FS-201) Cleaned ? (Yes/No) Changed ? (Yes/No)
Blower In-line Air Filter (PF-201) Cleaned ? (Yes/No) Changed ? (Yes/No) — Pressure loss across (PI-202 and PI-203) not to exceed 14 inches of H_2O.
Blower Lubricated ? (Yes/No) — Lubricate weekly.
Blower Oil Changed ? (Yes/No) — Change every 1,000 hours.
Compressor In-line Air Filters (PF-202) Changed? (Yes/No) — Changing frequency based on indicators on filter housings.
Compressor Filter Changed ? (Yes/No) — Change every 1,500 hours.
Compressor Oil Changed ? (Yes/No) — Change every 4,000 hours.

NOTES: Got stuck in snow had to dig out, 9"-10"
Replaced interlock switch on door of north west compressor
(2' lid used it to replace broken on on south west compressor door.

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OPERATION & MAINTENANCE LOG
Genuine Parts Groundwater Remediation System
KERAMIDA PROJECT #2829E

Date: 2-16-10 Technician: Alan Hamper

SOUTHWEST SYSTEM STATUS

SVE Blower (B-201) Operating ? (Yes / No)
Air Compressor (AC-201) Operating ? (Yes / No)
Air Sparges Operating ? (Yes/No) — If yes, which vault? (ASV 4, 5, 6, or 7)
Heater Operating ? (Yes/No)
Ventilation Operating ? (Yes/No)

OPERATIONAL PARAMETERS

SVE System

Influent Vacuum (PI-201)	15	Inches of H2O
Influent Air Temperature (TI-201)	32	°F
Influent Air Flowrate (FI-201)	—	scfm
Ambient Air Flowrate (FI-202)	—	scfm
Particulate Filter Inlet Vacuum (PI-202)	52	Inches of H2O
Particulate Filter Outlet Vacuum (PI-203)	52	Inches of H2O
Effluent Air Pressure (PI-204)	0	Inches of H2O
Effluent Air Flowrate (FI-203)	100	scfm
Effluent Air Temperature (TI-202)	80	°F
Blower Current (B-201)	21	amps
Blower Hours (B-201)	58538	hours

Air Sparging System

Air Injection Pressure ASV-4 (PI-207)	34	psi
Air Injection Flowrate ASV-4 (FI-204)	12	scfm
Air Injection Pressure ASV-5 (PI-208)	34	psi
Air Injection Flowrate ASV-5 (FI-205)	14	scfm
Air Injection Pressure ASV-6 (PI-209)	35	psi
Air Injection Flowrate ASV-6 (FI-206)	11	scfm
Air Injection Pressure ASV-7 (PI-210)	34	psi
Air Injection Flowrate ASV-7 (FI-207)	12	scfm
Regulator Pressure (PI-206)	40	psi
Compressor Pressure (PI-205)	110	psi
Compressor Air Temperature (TI-203)	96	°F
Compressor Air Temperature on AC-201 display unit	140	°F
Compressor Load Hours AC-201 display unit	18684	hours — 53674 Total
Compressor Current (AC-201)	16/26	amps

MAINTENANCE PARAMETERS:

Monthly Effluent Vapor Sample Collected ? (Yes/No) — If yes, name: _____
SVE Knockout Tanks Drained ? (Yes/No)
Blower Dilution Air Filter (FS-201) Cleaned ? (Yes/No) Changed ? (Yes/No)
Blower In-line Air Filter (PF-201) Cleaned ? (Yes/No) Changed ? (Yes/No) — Pressure loss across (PI-202 and PI-203) not to exceed 14 inches of H_2O.
Blower Lubricated ? (Yes/No) — Lubricate weekly.
Blower Oil Changed ? (Yes/No) — Change every 1,000 hours.
Compressor In-line Air Filters (PF-202) Changed? (Yes/No) — Changing frequency based on indicators on filter housings.
Compressor Filter Changed ? (Yes/No) — Change every 1,500 hours.
Compressor Oil Changed ? (Yes/No) — Change every 4,000 hours.

NOTES: System running on arrival. Checked system data. made no adjustments.

Also accident w/ Employee of Asset Recovery (tractor out of area of trailer) backed into front of the Impeller w/ truck from Polaris. Report on file.

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OPERATION & MAINTENANCE LOG
Genuine Parts Groundwater Remediation System
KERAMIDA PROJECT #2829E

Date: 2-23-10 Technician: ALAN HARPER

SOUTHWEST SYSTEM STATUS

SVE Blower (B-201) Operating ? (Yes / No)
Air Compressor (AC-201) Operating ? (Yes / No)
Air Sparges Operating ? (Yes/No)
Heater Operating ? (Yes/No)
Ventilation Operating ? (Yes/No)

If yes, which vault? (ASV 4, 5, 6, or 7)

OPERATIONAL PARAMETERS

SVE System

Influent Vacuum (PI-201)	15	Inches of H2O
Influent Air Temperature (TI-201)	36	°F
Influent Air Flowrate (FI-201)	—	scfm
Ambient Air Flowrate (FI-202)	—	scfm
Particulate Filter Inlet Vacuum (PI-202)	52	Inches of H2O
Particulate Filter Outlet Vacuum (PI-203)	52	Inches of H2O
Effluent Air Pressure (PI-204)	0.5	Inches of H2O
Effluent Air Flowrate (FI-203)	1000	scfm
Effluent Air Temperature (TI-202)	74	°F
Blower Current (B-201)	21	amps
Blower Hours (B-201)	53706	hours

Air Sparging System

Air Injection Pressure ASV-4 (PI-207)	35	psi
Air Injection Flowrate ASV-4 (FI-204)	12	scfm
Air Injection Pressure ASV-5 (PI-208)	34	psi
Air Injection Flowrate ASV-5 (FI-205)	12	scfm
Air Injection Pressure ASV-6 (PI-209)	35	psi
Air Injection Flowrate ASV-6 (FI-206)	12	scfm
Air Injection Pressure ASV-7 (PI-210)	36	psi
Air Injection Flowrate ASV-7 (FI-207)	12	scfm
Regulator Pressure (PI-206)	40	psi
Compressor Pressure (PI-205)	40	psi
Compressor Air Temperature (TI-203)	92	°F
Compressor Air Temperature on AC-201 display unit	190	°F
Compressor Load Hours AC-201 display unit	18741	hours
Compressor Current (AC-201)	16/25	amps

53842 TOTAL HR.

MAINTENANCE PARAMETERS:

Monthly Effluent Vapor Sample Collected ? (Yes/No) — If yes, name: _____
SVE Knockout Tanks Drained ? (Yes/No)
Blower Dilution Air Filter (FS-201) Cleaned ? (Yes/No) Changed ? (Yes/No)
Blower In-line Air Filter (PF-201) Cleaned ? (Yes/No) Changed ? (Yes/No) — Pressure loss across (PI-202 and PI-203) not to exceed 14 inches of H_2O.
Blower Lubricated ? (Yes/No) — Lubricate weekly.
Blower Oil Changed ? (Yes/No) — Change every 1,000 hours.
Compressor In-line Air Filters (PF-202) Changed? (Yes/No) — Changing frequency based on indicators on filter housings.
Compressor Filter Changed ? (Yes/No) — Change every 1,500 hours.
Compressor Oil Changed ? (Yes/No) — Change every 4,000 hours.

NOTES: System Running OK. Removed water from top of tarp on poly tank out side trailer.

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OPERATION & MAINTENANCE LOG
Genuine Parts Groundwater Remediation System
KERAMIDA PROJECT #2829E

Date: 3-1-10 Technician: ALAN Harper

SOUTHWEST SYSTEM STATUS

SVE Blower (B-201) Operating ? **(Yes / No)**
Air Compressor (AC-201) Operating ? **(Yes / No)**
Air Sparges Operating ? **(Yes/No)**
Heater Operating ? **(Yes/No)**
Ventilation Operating ? **(Yes/No)**

If yes, which vault? **(ASV 4, 5, 6, or 7)**

OPERATIONAL PARAMETERS

SVE System

Influent Vacuum (PI-201)	14.5	Inches of H2O
Influent Air Temperature (TI-201)	40	°F
Influent Air Flowrate (FI-201)	—	scfm
Ambient Air Flowrate (FI-202)	—	scfm
Particulate Filter Inlet Vacuum (PI-202)	52	Inches of H2O
Particulate Filter Outlet Vacuum (PI-203)	52	Inches of H2O
Effluent Air Pressure (PI-204)	.5	Inches of H2O
Effluent Air Flowrate (FI-203)	1000	scfm
Effluent Air Temperature (TI-202)	90	°F
Blower Current (B-201)	21	amps
Blower Hours (B-201)	58850	hours

Air Sparging System

Air Injection Pressure ASV-4 (PI-207)	35	psi
Air Injection Flowrate ASV-4 (FI-204)	11.5	scfm
Air Injection Pressure ASV-5 (PI-208)	35	psi
Air Injection Flowrate ASV-5 (FI-205)	12	scfm
Air Injection Pressure ASV-6 (PI-209)	35	psi
Air Injection Flowrate ASV-6 (FI-206)	12	scfm
Air Injection Pressure ASV-7 (PI-210)	0.6	psi
Air Injection Flowrate ASV-7 (FI-207)	12	scfm
Regulator Pressure (PI-206)	40	psi
Compressor Pressure (PI-205)	110	psi
Compressor Air Temperature (TI-203)	92	°F
Compressor Air Temperature on AC-201 display unit	102	°F
Compressor Load Hours AC-201 display unit	18787	hours
Compressor Current (AC-201)	16/25	amps

53991 Total

MAINTENANCE PARAMETERS:

Monthly Effluent Vapor Sample Collected ? **(Yes/No)** If yes, name: _____
SVE Knockout Tanks Drained ? **(Yes/No)**
Blower Dilution Air Filter (FS-201) Cleaned ? **(Yes/No)** Changed ? **(Yes/No)**
Blower In-line Air Filter (PF-201) Cleaned ? **(Yes/No)** Changed ? **(Yes/No)** — Pressure loss across (PI-202 and PI-203) not to exceed 14 inches of H_2O.
Blower Lubricated ? **(Yes/No)** — Lubricate weekly.
Blower Oil Changed ? **(Yes/No)** — Change every 1,000 hours.
Compressor In-line Air Filters (PF-202) Changed? **(Yes/No)** — Changing frequency based on indicators on filter housings.
Compressor Filter Changed ? **(Yes/No)** — Change every 1,500 hours.
Compressor Oil Changed ? **(Yes/No)** — Change every 4,000 hours.

NOTES:

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OPERATION & MAINTENANCE LOG
Genuine Parts Groundwater Remediation System
KERAMIDA PROJECT #2829E

Date: 3-9-10 Technician: Alan Harper

SOUTHWEST SYSTEM STATUS

SVE Blower (B-201) Operating ? (Yes / No)
Air Compressor (AC-201) Operating ? (Yes / No)
Air Sparges Operating ? (Yes/No)
Heater Operating ? (Yes/No)
Ventilation Operating ? (Yes/No)

If yes, which vault? (ASV 4, 5, 6, or 7)

OPERATIONAL PARAMETERS

SVE System

Influent Vacuum (PI-201)	14	Inches of H2O
Influent Air Temperature (TI-201)	50	°F
Influent Air Flowrate (FI-201)	—	scfm
Ambient Air Flowrate (FI-202)	—	scfm
Particulate Filter Inlet Vacuum (PI-202)	50	Inches of H2O
Particulate Filter Outlet Vacuum (PI-203)	51	Inches of H2O
Effluent Air Pressure (PI-204)	1	Inches of H2O
Effluent Air Flowrate (FI-203)	1,033	scfm
Effluent Air Temperature (TI-202)	75	°F
Blower Current (B-201)	21	amps
Blower Hours (B-201)	59047	hours

Air Sparging System

Air Injection Pressure ASV-4 (PI-207)	35	psi
Air Injection Flowrate ASV-4 (FI-204)	11.5	scfm
Air Injection Pressure ASV-5 (PI-208)	36	psi
Air Injection Flowrate ASV-5 (FI-205)	12	scfm
Air Injection Pressure ASV-6 (PI-209)	35	psi
Air Injection Flowrate ASV-6 (FI-206)	12	scfm
Air Injection Pressure ASV-7 (PI-210)	36	psi
Air Injection Flowrate ASV-7 (FI-207)	12	scfm
Regulator Pressure (PI-206)	40	psi
Compressor Pressure (PI-205)	110	psi
Compressor Air Temperature (TI-203)	94	°F
Compressor Air Temperature on AC-201 display unit	186	°F
Compressor Load Hours AC-201 display unit	18856	hours
Compressor Current (AC-201)		amps

54183 Total Hr.

MAINTENANCE PARAMETERS:

Monthly Effluent Vapor Sample Collected ? (Yes/No) — If yes, name: _____
SVE Knockout Tanks Drained ? (Yes/No)
Blower Dilution Air Filter (FS-201) Cleaned ? (Yes/No) Changed ? (Yes/No)
Blower In-line Air Filter (PF-201) Cleaned ? (Yes/No) Changed ? (Yes/No) — Pressure loss across (PI-202 and PI-203) not to exceed 14 inches of H_2O.
Blower Lubricated ? (Yes/No) — Lubricate weekly.
Blower Oil Changed ? (Yes/No) — Change every 1,000 hours.
Compressor In-line Air Filters (PF-202) Changed? (Yes/No) — Changing frequency based on indicators on filter housings.
Compressor Filter Changed ? (Yes/No) — Change every 1,500 hours.
Compressor Oil Changed ? (Yes/No) — Change every 4,000 hours.

NOTES: BALENCED Vac & Sparge valves

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OPERATION & MAINTENANCE LOG
Genuine Parts Groundwater Remediation System
KERAMIDA PROJECT #2829E

Date: 3-16-10 Technician: A. HARDER

SOUTHWEST SYSTEM STATUS

SVE Blower (B-201) Operating ? **(Yes / No)**
Air Compressor (AC-201) Operating ? **(Yes / No)**
Air Sparges Operating ? **(Yes/No)**
Heater Operating ? **(Yes/No)**
Ventilation Operating ? **(Yes/No)**

If yes, which vault? **(ASV 4, 5, 6, or 7)**

OPERATIONAL PARAMETERS

SVE System

Influent Vacuum (PI-201)	14.5	Inches of H2O
Influent Air Temperature (TI-201)	41	°F
Influent Air Flowrate (FI-201)	—	scfm
Ambient Air Flowrate (FI-202)	—	scfm
Particulate Filter Inlet Vacuum (PI-202)	52	Inches of H2O
Particulate Filter Outlet Vacuum (PI-203)	52	Inches of H2O
Effluent Air Pressure (PI-204)	1	Inches of H2O
Effluent Air Flowrate (FI-203)	1000	scfm
Effluent Air Temperature (TI-202)	82°	°F
Blower Current (B-201)	21	amps
Blower Hours (B-201)	59209	hours

Air Sparging System

Air Injection Pressure ASV-4 (PI-207)	35	psi
Air Injection Flowrate ASV-4 (FI-204)	12	scfm
Air Injection Pressure ASV-5 (PI-208)	36	psi
Air Injection Flowrate ASV-5 (FI-205)	12	scfm
Air Injection Pressure ASV-6 (PI-209)	35	psi
Air Injection Flowrate ASV-6 (FI-206)	12	scfm
Air Injection Pressure ASV-7 (PI-210)	36	psi
Air Injection Flowrate ASV-7 (FI-207)	12	scfm
Regulator Pressure (PI-206)	40	psi
Compressor Pressure (PI-205)	110	psi
Compressor Air Temperature (TI-203)	42	°F
Compressor Air Temperature on AC-201 display unit	186	°F
Compressor Load Hours AC-201 display unit	18913	hours
Compressor Current (AC-201)	16/25	amps

54345 hr. Total

MAINTENANCE PARAMETERS:

Monthly Effluent Vapor Sample Collected ? **(Yes/No)** — If yes, name: VOC + Vinyl Chloride
SVE Knockout Tanks Drained ? **(Yes/No)**
Blower Dilution Air Filter (FS-201) Cleaned ? **(Yes/No)** Changed ? **(Yes/No)**
Blower In-line Air Filter (PF-201) Cleaned ? **(Yes/No)** Changed ? **(Yes/No)** — Pressure loss across (PI-202 and PI-203) not to exceed 14 inches of H_2O.
Blower Lubricated ? **(Yes/No)** — Lubricate weekly.
Blower Oil Changed ? **(Yes/No)** — Change every 1,000 hours.
Compressor In-line Air Filters (PF-202) Changed? **(Yes/No)** — Changing frequency based on indicators on filter housings.
Compressor Filter Changed ? **(Yes/No)** — Change every 1,500 hours.
Compressor Oil Changed ? **(Yes/No)** — Change every 4,000 hours.

NOTES: CHANGE FRESH AIR FILTER ON COMPRESSOR SIDE

KERAMIDA ENVIRONMENTAL, INC.
401 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 - FAX (317) 685-6610

OPERATION & MAINTENANCE LOG
Genuine Parts Groundwater Remediation System
KERAMIDA PROJECT #2829E

Date: 3/22/10 Technician: J. CONDRY

SOUTHWEST SYSTEM STATUS

SVE Blower (B-201) Operating ? (Yes / No)
Air Compressor (AC-201) Operating ? (Yes / No)
Air Sparges Operating ? (Yes/No)
Heater Operating ? (Yes/No)
Ventilation Operating ? (Yes/No)

If yes, which vault? (ASV 4, 5, 6, or 7)

OPERATIONAL PARAMETERS

SVE System

Influent Vacuum (PI-201)	15	Inches of H2O
Influent Air Temperature (TI-201)	67	°F
Influent Air Flowrate (FI-201)	—	scfm
Ambient Air Flowrate (FI-202)	—	scfm
Particulate Filter Inlet Vacuum (PI-202)	52	Inches of H2O
Particulate Filter Outlet Vacuum (PI-203)	48	Inches of H2O
Effluent Air Pressure (PI-204)	1	~~Inches of H2O~~ psi
Effluent Air Flowrate (FI-203)	1,800	scfm
Effluent Air Temperature (TI-202)	82	°F
Blower Current (B-201)	21	amps
Blower Hours (B-201)	59359.3	hours

Air Sparging System

Air Injection Pressure ASV-4 (PI-207)	34	psi
Air Injection Flowrate ASV-4 (FI-204)	12	scfm
Air Injection Pressure ASV-5 (PI-208)	36	psi
Air Injection Flowrate ASV-5 (FI-205)	12	scfm
Air Injection Pressure ASV-6 (PI-209)	36	psi
Air Injection Flowrate ASV-6 (FI-206)	12	scfm
Air Injection Pressure ASV-7 (PI-210)	36	psi
Air Injection Flowrate ASV-7 (FI-207)	12	scfm
Regulator Pressure (PI-206)	42	psi
Compressor Pressure (PI-205)	106	psi
Compressor Air Temperature (TI-203)	93	°F
Compressor Air Temperature on AC-201 display unit	184	°F
Compressor Load Hours AC-201 display unit	18966	hours Total = 54495
Compressor Current (AC-201)	25	amps @ load

MAINTENANCE PARAMETERS:

Monthly Effluent Vapor Sample Collected ? (Yes/No)
SVE Knockout Tanks Drained ? (Yes/No)
Blower Dilution Air Filter (FS-201) Cleaned ? (Yes/No) Changed ? (Yes/No)
Blower In-line Air Filter (PF-201) Cleaned ? (Yes/No) Changed ? (Yes/No)
Blower Lubricated ? (Yes/No)
Blower Oil Changed ? (Yes/No)
Compressor In-line Air Filters (PF-202) Changed? (Yes/No)
Compressor Filter Changed ? (Yes/No)
Compressor Oil Changed ? (Yes/No)

If yes, name: N/A

Pressure loss across (PI-202 and PI-203) not to exceed 14 inches of H_2O.
Lubricate weekly.
Change every 1,000 hours.
Changing frequency based on indicators on filter housings.
Change every 1,500 hours.
Change every 4,000 hours.

NOTES: BASIC O&M Performed. SYSTEM OPERATING AS DESIGNED.

KERAMIDA ENVIRONMENTAL, INC.
401 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 - FAX (317) 685-6610

OPERATION & MAINTENANCE LOG
Genuine Parts Groundwater Remediation System
KERAMIDA PROJECT #2829E

Date: 4/1/10 Technician: R. Fedorchak

SOUTHWEST SYSTEM STATUS

SVE Blower (B-201) Operating ? (Yes/No)
Air Compressor (AC-201) Operating ? (Yes/No)
Air Sparges Operating ? (Yes/No)
Heater Operating ? (Yes/No)
Ventilation Operating ? (Yes/No)

If yes, which vault? (ASV 4, 5, 6, or 7)

OPERATIONAL PARAMETERS

SVE System

Influent Vacuum (PI-201)	14.5	Inches of H2O
Influent Air Temperature (TI-201)	49	°F
Influent Air Flowrate (FI-201)	—	scfm
Ambient Air Flowrate (FI-202)	—	scfm
Particulate Filter Inlet Vacuum (PI-202)	53	Inches of H2O
Particulate Filter Outlet Vacuum (PI-203)	53	Inches of H2O
Effluent Air Pressure (PI-204)	broken	Inches of H2O
Effluent Air Flowrate (FI-203)	100	scfm
Effluent Air Temperature (TI-202)	92	°F
Blower Current (B-201)	21	amps
Blower Hours (B-201)	59593	hours

Air Sparging System

Air Injection Pressure ASV-4 (PI-207)	32	psi
Air Injection Flowrate ASV-4 (FI-204)	13	scfm
Air Injection Pressure ASV-5 (PI-208)	36	psi
Air Injection Flowrate ASV-5 (FI-205)	15	scfm
Air Injection Pressure ASV-6 (PI-209)	38	psi
Air Injection Flowrate ASV-6 (FI-206)	11	scfm
Air Injection Pressure ASV-7 (PI-210)	38	psi
Air Injection Flowrate ASV-7 (FI-207)	12	scfm
Regulator Pressure (PI-206)	47	psi
Compressor Pressure (PI-205)	110	psi
Compressor Air Temperature (TI-203)	109	°F
Compressor Air Temperature on AC-201 display unit	191	°F
Compressor Load Hours AC-201 display unit	19053	hours 54729 total
Compressor Current (AC-201)	16 idle 25 load	amps

MAINTENANCE PARAMETERS:

Monthly Effluent Vapor Sample Collected ? (Yes/No) If yes, name: —
SVE Knockout Tanks Drained ? (Yes/No)
Blower Dilution Air Filter (FS-201) Cleaned ? (Yes/No) Changed ? (Yes/No)
Blower In-line Air Filter (PF-201) Cleaned ? (Yes/No) Changed ? (Yes/No) — Pressure loss across (PI-202 and PI-203) not to exceed 14 inches of H_2O.
Blower Lubricated ? (Yes/No) — ~~Lubricate weekly.~~
Blower Oil Changed ? (Yes/No) — Change every 1,000 hours.
Compressor In-line Air Filters (PF-202) Changed? (Yes/No) — Changing frequency based on indicators on filter housings.
Compressor Filter Changed ? (Yes/No) — Change every 1,500 hours.
Compressor Oil Changed ? (Yes/No) — Change every 4,000 hours.

NOTES:

- Some Water in KO Tank

ATTACHMENT 2

January 2010 – Operational Data Log (Performance Data)

KERAMIDA ENVIRONMENTAL, INC.
330 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 - FAX (317) 685-6610

QUARTERLY OPERATIONAL LOG FOR SW SYSTEM
(ASV-5 is Operational)
Genuine Parts Groundwater Remediation System
KERAMIDA Project #2829E

Date: 1-11-10 Technician: Alan Harper

Air Sparging Points (AS-15, 16, 17, 18 & 19) Pressure set @ 8 psi with an Air Flow @ 6 cfm

Time	MW - 153		
	Vac./Pres.("H_2O)	DTW (feet) (Screen @ 4.5' bgs)	DO (% or mg/L)
0 (SVE Only, ASV's Off)	0.01	13.55	12.66
0 (w/SVE-10&13asObs.Pt., ASV's Off)	.03	13.10	10.79
1315	.07	12.25	9.51
1330	.02	12.63	10.93
1400	.05	12.63	10.48
1430	.04	12.63	10.59

Time	SVE - 10		
	Vac./Pres.("H_2O)	DTW (feet) (Screen 5' bgs)	DO (% or mg/L)
0 (SVE Only, ASV's Off)	8	11.70	11.78
0 (as Obs. Pt., ASV's Off)	.09	11.40	4.02
1315	.02	10.25	5.96
1330	.01	10.76	10.59
1400	.02	10.75	10.10
1430	.02	10.76	10.32

Time	SVE - 11		
	Vac./Pres.("H_2O)	DTW (feet) (Screen @ 5' bgs)	DO (% or mg/L)
0 (SVE Only, ASV's Off)	8	12.05	13.56
0 (w/SVE-10&13asObs.Pt., ASV's Off)	8	11.45	4.35
1315	8	9.78	7.28
1330	8	10.60	11.41
1400	8	10.60	11.52
1430	8	10.60	11.67

Time	SVE - 12		
	Vac./Pres.("H_2O)	DTW (feet) (Screen @ 5' bgs)	DO (% or mg/L)
0 (SVE Only, ASV's Off)	8	11.40	13.20
0 (w/SVE-10&13asObs.Pt., ASV's Off)	8	10.75	3.91
1315	8	9.42	10.51
1330	8	10.50	10.93
1400	8	10.58	10.90
1430	8	10.61	10.93

Time	SVE - 13		
	Vac./Pres.("H_2O)	DTW (feet) (Screen 5' bgs)	DO (% or mg/L)
0 (SVE Only, ASV's Off)	8	9.80	7.97
0 (as Obs. Pt., ASV's Off)	.01	9.63	6.29
1315	0	9.03	10.16
1330	.01	9.33	11.03
1400	.01	9.30	11.05
1430	.01	9.32	11.27

ATTACHMENT 3

January through March 2010 - Vapor Analytical Reports and Discharge Calculations

Vapor Discharge Calculation Worksheet

Site: Former Allison Plant #10 - Groundwater Remediation System
Date: 1-27-10
Time: Southwest System

Enter Air Flowrate in CFM	1000

Enter Concentrations in PPMV

Vinyl Chloride	0
Methylene Chloride	0
t-1,2 DCE	0
Chloroform	0
1,1,1 TCA	0
Carbon Tetrachloride	0
TCE	0.046
PCE	0

	Discharge Rate (pounds/day)	Discharge Rate (pounds/hour)
Vinyl Chloride	0.00	0.00
Methylene Chloride	0.00	0.00
t-1,2 DCE	0.00	0.00
Chloroform	0.00	0.00
1,1,1 TCA	0.00	0.00
Carbon Tetrachloride	0.00	0.00
TCE	0.02	0.00
PCE	0.00	0.00
Total Chlorinated HC	0.02	0.00

Vapor Discharge Calculation Worksheet

Site: Former Allison Plant #10 - Groundwater Remediation System
Date: 2-11-10
Time: Southwest System

Enter Air Flowrate in CFM	1000

Enter Concentrations in PPMV

Vinyl Chloride	0
Methylene Chloride	0
t-1,2 DCE	0
Chloroform	0
1,1,1 TCA	0
Carbon Tetrachloride	0
TCE	0.044
PCE	0

	Discharge Rate (pounds/day)	Discharge Rate (pounds/hour)
Vinyl Chloride	0.00	0.00
Methylene Chloride	0.00	0.00
t-1,2 DCE	0.00	0.00
Chloroform	0.00	0.00
1,1,1 TCA	0.00	0.00
Carbon Tetrachloride	0.00	0.00
TCE	0.02	0.00
PCE	0.00	0.00
Total Chlorinated HC	0.02	0.00

Vapor Discharge Calculation Worksheet

Site: Former Allison Plant #10 - Groundwater Remediation System
Date: 3-16-10
Time: Southwest System

Enter Air Flowrate in CFM	1000

Enter Concentrations in PPMV

Vinyl Chloride	0
Methylene Chloride	0
t-1,2 DCE	0
Chloroform	0
1,1,1 TCA	0
Carbon Tetrachloride	0
TCE	0.052
PCE	0

	Discharge Rate (pounds/day)	Discharge Rate (pounds/hour)
Vinyl Chloride	0.00	0.00
Methylene Chloride	0.00	0.00
t-1,2 DCE	0.00	0.00
Chloroform	0.00	0.00
1,1,1 TCA	0.00	0.00
Carbon Tetrachloride	0.00	0.00
TCE	0.03	0.00
PCE	0.00	0.00
Total Chlorinated HC	0.03	0.00

VAPORTECH Services, Inc.

Analytical Laboratory & Geoprobe Sampling

2/4/2010

Mr. Rob Fedorchak
Keramida Environmental, Inc.
401 N. College AVE
Indianapolis, IN 46202

RECEIVED
FEB 08 2010
KERAMIDA

Dear Rob:

Enclosed are the sample data report, chain of custody record and quality control data for the sample(s) received on January 28, 2010 for your project; GP - 2829E.

Please give me a call if you have questions or I can be of further assistance. Thank you for using Vaportech Services.

Sincerely,

David J. Masdea

Enclosure:

1158 Pittsburgh Road • Suite 201 • Valencia, PA 16059
Tel.: 724-898-2622 • Fax: 724-898-2633

Vaportech Services, Inc

KER266-0055

Keramida Environmental, Inc.
Project: G.P. - 2829E

CONCENTRATIONS IN PPMV

COMPOUND	SW VAPOR EFF	PQL
1,1 DICHLOROETHYLENE	ND	0.01
METHYLENE CHLORIDE	ND	0.05
TRANS-1,2 DICHLOROETHYLENE	ND	0.01
1,1 DICHLOROETHANE	ND	0.02
CIS-1,2 DICHLOROETHYLENE	ND	0.01
CHLOROFORM	ND	0.005
1,1,1 TRICHLOROETHANE	ND	0.005
CARBON TETRACHLORIDE	ND	0.005
TRICHLOROETHYLENE	0.046	0.005
TETRACHLOROETHYLENE	ND	0.005
VINYL CHLORIDE	ND	1

FILE NAME	V63A/B.255.BND
DATE SAMPLED	01/27/10
DATE RECEIVED	01/28/10
DATE ANALYZED	01/30/10

PQL - denotes lower 'Practical Quantitation Limit'

ND - 'Not Detected' at or above the lower practical quantitation limit

05-Feb-10

Reviewed by:

Vaportech Services, Inc

Keramida Environmental, Inc.
Quality Control
Laboratory Project(s): 0055

CONTINUING CALIBRATION CHECK

STANDARDS:	21V-R4	STD VC1000
FILE NAME:	V63A.246.BND	V63A.250.BND
DATE ANALYZED:	01/29/10	01/29/10

COMPOUND	KNOWN (PPMV)	RESULT (PPMV)	PERCENT DIFFERENCE
1,1 DICHLOROETHYLENE	1.01	1.01	0.20
METHYLENE CHLORIDE	1.15	1.17	1.39
TRANS-1,2 DICHLOROETHYLENE	1.01	1.08	7.13
1,1 DICHLOROETHANE	0.99	1.10	10.91
CIS-1,2 DICHLOROETHYLENE	1.01	1.08	6.93
CHLOROFORM	0.820	0.866	5.61
1,1,1 TRICHLOROETHANE	0.730	0.773	5.89
CARBON TETRACHLORIDE	0.640	0.683	6.72
TRICHLOROETHYLENE	0.740	0.815	10.14
TETRACHLOROETHYLENE	0.590	0.627	6.27
VINYL CHLORIDE	1000	990	1.03

LABORATORY BLANK RESULTS

BLANK: N2 IN VIAL
FILE NAME: V63A/B.245.BND
DATE ANALYZED: 01/29/10

COMPOUND	BLANK (PPMV)	PRACTICAL QUANTITATION LIMIT (PPMV)
1,1 DICHLOROETHYLENE	ND	0.01
METHYLENE CHLORIDE	ND	0.10
TRANS-1,2 DICHLOROETHYLENI	ND	0.01
1,1 DICHLOROETHANE	ND	0.02
CIS-1,2 DICHLOROETHYLENE	ND	0.01
CHLOROFORM	ND	0.005
1,1,1 TRICHLOROETHANE	ND	0.005
CARBON TETRACHLORIDE	ND	0.005
TRICHLOROETHYLENE	ND	0.005
TETRACHLOROETHYLENE	ND	0.005
VINYL CHLORIDE	ND	1

ND - 'Not Detected' at or above the lower practical quantitation limit

04-Feb-10

Reviewed by:_____

KER 266-0055

CHAIN-OF-CUSTODY RECORD

VAPORTECH Services, Inc.

1158 Pittsburgh Road • Suite 201 • Valencia, PA 16059
Tel: 724-898-2622 • Fax: 724-898-2633

Company Name: KERAMIDA, Inc.
Address: 901 N. College Ave.
City: Indianapolis **State:** IN **Zip:** 46202
Proj. Manager: Rob Fedorchak
Proj. Location: Genuine Parts - Fmr Allison Plt. #10
Proj. Number: 28791E-001
Phone #: 317 685 6800 **Fax #:** 317 685 6610
Sampler's signature: RS Falkenbach

Analysis Options: Enter letters in Requested Analysis columns below.

A	Light Hydrocarbons	F	BTEX
B	Permanent Gases	G	BTEX & C5 - C10
C	Methane	H	TPH (C4 - C12 range)
D	Methane, Ethane, Ethylene	I	Chlorinated Hydrocarbons
E	Hydrogen	J	624 Compound List

Light Hydrocarbons: Methane, Ethane, Ethylene, Propane, Propylene, iso-Butane, n-Butane
Permanent Gases: Carbon Dioxide, Oxygen, Nitrogen, Methane, Carbon Monoxide
BTEX: Benzene, Toluene, Ethyl Benzene, m & p -Xylene, o-Xylene
C5-C10: Pentane, Hexane, Heptane, Octane, Nonane, Decane
Chlorinated HC: 1,1-DCE, 1,1-DCA, Methylene Chloride, trans-1,2-DCE, cis-1,2-DCE, Chloroform 1,1,1-TCA, Carbon Tetrachloride, Trichloroethylene (TCE), Tetrachloroethylene (PCE)

Collection Date	Collection Time	Number of Containers	Sample Type	Sample Identification	Requested Analysis				(Other)	Remarks
1/27/10	0945	2	vapor	SVS Vapor Effluent	I				plus Vinyl Chloride	

Results to : Robert Fedorchak
Invoice to : Cheryl Apple

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
RS Falkenbach	KERAMIDA	1/27/10	1140	[illegible]	Vaportech	1-28-10	1000
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Laboratory to return. YELLOW COPY : Laboratory PINK COPY : Submitter

VAPORTECH Services, Inc.

Analytical Laboratory & Geoprobe Sampling

2/19/2010

Mr. Rob Fedorchak
Keramida Environmental, Inc.
401 N. College AVE
Indianapolis, IN 46202

Dear Rob:

Enclosed are the sample data report, chain of custody record and quality control data for the sample(s) received on February 11, 2010 for your project; 2829E - G.P..

Please give me a call if you have questions or I can be of further assistance. Thank you for using Vaportech Services.

RECEIVED
FEB 25 2010
KERAMIDA

Sincerely,

David J. Masdea

Enclosure:

1158 Pittsburgh Road • Suite 201 • Valencia, PA 16059
Tel.: 724-898-2622 • Fax: 724-898-2633

Vaportech Services, Inc

KER268-0100

Keramida Environmental, Inc.
Project: G.P. - 2829E

CONCENTRATIONS IN PPMV

COMPOUND	SVE EX	PQL
1,1 DICHLOROETHYLENE	ND	0.01
METHYLENE CHLORIDE	ND	0.05
TRANS-1,2 DICHLOROETHYLENE	ND	0.01
1,1 DICHLOROETHANE	ND	0.02
CIS-1,2 DICHLOROETHYLENE	ND	0.01
CHLOROFORM	ND	0.005
1,1,1 TRICHLOROETHANE	ND	0.005
CARBON TETRACHLORIDE	ND	0.005
TRICHLOROETHYLENE	0.044	0.005
TETRACHLOROETHYLENE	ND	0.005
VINYL CHLORIDE	ND	1

FILE NAME	V63A/B.418.BND
DATE SAMPLED	02/09/10
DATE RECEIVED	02/11/10
DATE ANALYZED	02/18/10

PQL - denotes lower 'Practical Quantitation Limit'
ND - 'Not Detected' at or above the lower practical quantitation limit

19-Feb-10

Reviewed by:_____

Vaportech Services, Inc

Keramida Environmental, Inc.
Quality Control
Laboratory Project(s): 0100

CONTINUING CALIBRATION CHECK

STANDARDS:	21V-R4	STD VC1000
FILE NAME:	V63B.409.BND	V63A.411.BND
DATE ANALYZED:	02/17/10	02/17/10

COMPOUND	KNOWN (PPMV)	RESULT (PPMV)	PERCENT DIFFERENCE
1,1 DICHLOROETHYLENE	1.01	0.89	12.08
METHYLENE CHLORIDE	1.15	1.12	2.43
TRANS-1,2 DICHLOROETHYLENE	1.01	1.02	0.99
1,1 DICHLOROETHANE	0.99	1.00	1.41
CIS-1,2 DICHLOROETHYLENE	1.01	1.01	0.10
CHLOROFORM	0.820	0.862	5.12
1,1,1 TRICHLOROETHANE	0.730	0.762	4.38
CARBON TETRACHLORIDE	0.640	0.670	4.69
TRICHLOROETHYLENE	0.740	0.782	5.68
TETRACHLOROETHYLENE	0.590	0.643	8.98
VINYL CHLORIDE	1000	982	1.83

LABORATORY BLANK RESULTS

BLANK: N2 IN VIAL
FILE NAME: V63A/B.408.BND
DATE ANALYZED: 02/17/10

COMPOUND	BLANK (PPMV)	PRACTICAL QUANTITATION LIMIT (PPMV)
1,1 DICHLOROETHYLENE	ND	0.01
METHYLENE CHLORIDE	ND	0.10
TRANS-1,2 DICHLOROETHYLENI	ND	0.01
1,1 DICHLOROETHANE	ND	0.02
CIS-1,2 DICHLOROETHYLENE	ND	0.01
CHLOROFORM	ND	0.005
1,1,1 TRICHLOROETHANE	ND	0.005
CARBON TETRACHLORIDE	ND	0.005
TRICHLOROETHYLENE	ND	0.005
TETRACHLOROETHYLENE	ND	0.005
VINYL CHLORIDE	ND	1

ND - 'Not Detected' at or above the lower practical quantitation limit

19-Feb-10

Reviewed by:_____

KER 268 - 0100

CHAIN-OF-CUSTODY RECORD

VAPORTECH Services, Inc.
1158 Pittsburgh Road • Suite 201 • Valencia, PA 16059
Tel: 724-898-2622 • Fax: 724-898-2633

Company Name: Keramida Inc
Address: 401 N. College Ave
City: Indianapolis **State:** IN **Zip:** 46202
Proj. Manager: ROB FEDORCHAK
Proj. Location: G.P.
Proj. Number: 2829E
Phone #: 317-685-6600 **Fax #:** 317-685-6610

Sampler's signature: Allan W. Thompson

Analysis Options: Enter letters in Requested Analysis columns below.

A	Light Hydrocarbons	F	BTEX
B	Permanent Gases	G	BTEX & C5 - C10
C	Methane	H	TPH (C4 - C12 range)
D	Methane, Ethane, Ethylene	I	Chlorinated Hydrocarbons
E	Hydrogen	J	624 Compound List

Light Hydrocarbons: Methane, Ethane, Ethylene, Propane, Propylene, iso-Butane, n-Butane
Permanent Gases: Carbon Dioxide, Oxygen, Nitrogen, Methane, Carbon Monoxide
BTEX: Benzene, Toluene, Ethyl Benzene, m & p -Xylene, o-Xylene
C5-C10: Pentane, Hexane, Heptane, Octane, Nonane, Decane
Chlorinated HC: 1,1-DCE, 1,1-DCA, Methylene Chloride, trans-1,2-DCE, cis-1,2-DCE, Chloroform 1,1,1-TCA, Carbon Tetrachloride, Trichloroethylene (TCE), Tetrachloroethylene (PCE)

Collection Date	Time	Number of Containers	Sample Type	Sample Identification	Requested Analysis				(Other)	Remarks
2-9-10	1101	2	AIR	SVE EX	VOC's	+	Vinyl	Chloride		

Results to: Rob Fedorchak
Invoice to : Cheryl Apple

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
				[illegible]	Vaportech	2/11/10	1130
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Laboratory to return. YELLOW COPY : Laboratory PINK COPY : Submitter

VAPORTECH Services, Inc.

Analytical Laboratory & Geoprobe Sampling

3/23/2010

Mr. Rob Fedorchak
Keramida Environmental, Inc.
401 N. College AVE
Indianapolis, IN 46202

Dear Rob:

Enclosed are the sample data report, chain of custody record and quality control data for the sample(s) received on March 18, 2010 for your project; G.P. - 2829E.

Please give me a call if you have questions or I can be of further assistance. Thank you for using Vaportech Services.

Sincerely,

David J. Masdea

RECEIVED
MAR 29 2010
KERAMIDA

Enclosure:

1158 Pittsburgh Road • Suite 201 • Valencia, PA 16059
Tel.: 724-898-2622 • Fax: 724-898-2633

Vaportech Services, Inc

KER269-0159

Keramida Environmental, Inc.
Project: G.P. - 2829E

CONCENTRATIONS IN PPMV

COMPOUND	SVE EX	PQL
1,1 DICHLOROETHYLENE	ND	0.01
METHYLENE CHLORIDE	ND	0.05
TRANS-1,2 DICHLOROETHYLENE	ND	0.01
1,1 DICHLOROETHANE	ND	0.02
CIS-1,2 DICHLOROETHYLENE	ND	0.01
CHLOROFORM	ND	0.005
1,1,1 TRICHLOROETHANE	ND	0.005
CARBON TETRACHLORIDE	ND	0.005
TRICHLOROETHYLENE	0.052	0.005
TETRACHLOROETHYLENE	ND	0.005
VINYL CHLORIDE	ND	1

FILE NAME	V63A/B.609.BND
DATE SAMPLED	03/16/10
DATE RECEIVED	03/18/10
DATE ANALYZED	03/18/10

PQL - denotes lower 'Practical Quantitation Limit'
ND - 'Not Detected' at or above the lower practical quantitation limit

23-Mar-10

Reviewed by:

Vaportech Services, Inc

Keramida Environmental, Inc.
Quality Control
Laboratory Project(s): 0159

CONTINUING CALIBRATION CHECK

STANDARDS:	21V-R4	STD VC1000
FILE NAME:	V63B.606.BND	V63A.609.BND
DATE ANALYZED:	03/18/10	03/18/10

COMPOUND	KNOWN (PPMV)	RESULT (PPMV)	PERCENT DIFFERENCE
1,1 DICHLOROETHYLENE	1.01	0.88	12.48
METHYLENE CHLORIDE	1.15	1.13	1.91
TRANS-1,2 DICHLOROETHYLENE	1.01	1.00	1.09
1,1 DICHLOROETHANE	0.99	1.06	6.67
CIS-1,2 DICHLOROETHYLENE	1.01	1.07	6.14
CHLOROFORM	0.820	0.892	8.78
1,1,1 TRICHLOROETHANE	0.730	0.776	6.30
CARBON TETRACHLORIDE	0.640	0.675	5.47
TRICHLOROETHYLENE	0.740	0.822	11.08
TETRACHLOROETHYLENE	0.590	0.663	12.37
VINYL CHLORIDE	1000	995	0.50

LABORATORY BLANK RESULTS

BLANK: N2 IN VIAL
FILE NAME: V63A/B.605.BND
DATE ANALYZED: 03/18/10

COMPOUND	BLANK (PPMV)	PRACTICAL QUANTITATION LIMIT (PPMV)
1,1 DICHLOROETHYLENE	ND	0.01
METHYLENE CHLORIDE	ND	0.10
TRANS-1,2 DICHLOROETHYLENI	ND	0.01
1,1 DICHLOROETHANE	ND	0.02
CIS-1,2 DICHLOROETHYLENE	ND	0.01
CHLOROFORM	ND	0.005
1,1,1 TRICHLOROETHANE	ND	0.005
CARBON TETRACHLORIDE	ND	0.005
TRICHLOROETHYLENE	ND	0.005
TETRACHLOROETHYLENE	ND	0.005
VINYL CHLORIDE	ND	1

ND - 'Not Detected' at or above the lower practical quantitation limit

23-Mar-10

Reviewed by:_____

KER 269-0159

CHAIN-OF-CUSTODY RECORD

VAPORTECH Services, Inc.
1158 Pittsburgh Road • Suite 201 • Valencia, PA 16059
Tel: 724-898-2622 • Fax: 724-898-2633

Company Name: Keramida Inc.
Address: 401 N. College Ave
City: Indianapolis **State:** IN **Zip:** 46202
Proj. Manager: ROB FEDORCHAK
Proj. Location: G.P.
Proj. Number: 2829E
Phone #: 317-685-6600 **Fax #:** 317-685-6610

Sampler's signature: Alan W. Harper

Analysis Options: Enter letters in Requested Analysis columns below.

A	Light Hydrocarbons	F	BTEX
B	Permanent Gases	G	BTEX & C5 - C10
C	Methane	H	TPH (C4 - C12 range)
D	Methane, Ethane, Ethylene	I	Chlorinated Hydrocarbons
E	Hydrogen	J	624 Compound List

Light Hydrocarbons: Methane, Ethane, Ethylene, Propane, Propylene, iso-Butane, n-Butane
Permanent Gases: Carbon Dioxide, Oxygen, Nitrogen, Methane, Carbon Monoxide
BTEX: Benzene, Toluene, Ethyl Benzene, m & p -Xylene, o-Xylene
C5-C10: Pentane, Hexane, Heptane, Octane, Nonane, Decane
Chlorinated HC: 1,1-DCE, 1,1-DCA, Methylene Chloride, trans-1,2-DCE, cis-1,2-DCE, Chloroform 1,1,1-TCA, Carbon Tetrachloride, Trichloroethylene (TCE), Tetrachloroethylene (PCE)

Collection Date	Collection Time	Number of Containers	Sample Type	Sample Identification	Requested Analysis				(Other)	Remarks
3-16-10	9:30	2	AIR	SVE EX.	VOC	+	Vinyl	Chloride		

Results to : Rob Fedorchak

Invoice to : Cheryl Apple

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Alan Harper	Keramida Inc	3-16-10	11:50	[illegible]	VAPORtech	3/18/10	1030
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Laboratory to return. YELLOW COPY : Laboratory PINK COPY : Submitter

ATTACHMENT 4

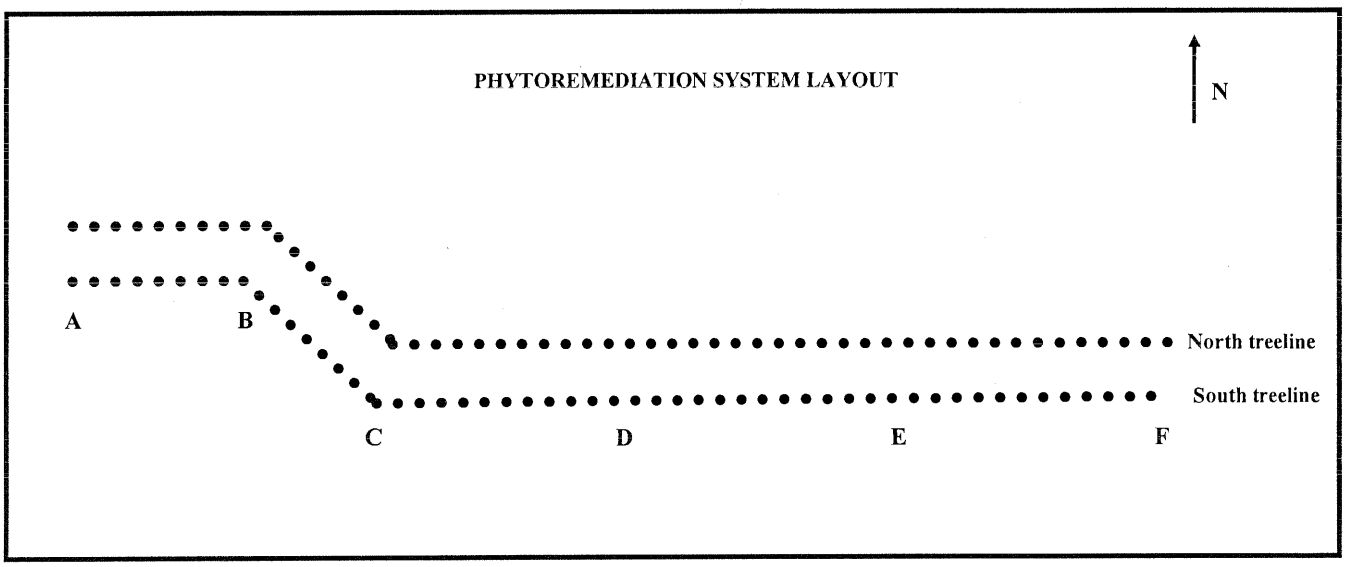
January 2010 – Phytoremediation System Inspection Checklist

Phytoremediation System Inspection Checklist
Former General Motors Corporation
Allison Gas Turbine Division Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Date of Inspection: 1-19-10
Inspection Frequency: Quarterly
(monthly, quarterly, other)
Inspector: Alan Harper

Trees damaged by BEAVERS —

	Parameters		
	Ground [1]	Trunk, Limbs & Branches[2]	Stability[3]
North Treeline Areas:			
A-B	✓	✓	✓
B-C	✓	✓	✓
C-D	✓	RA	✓
D-E	✓	RA	✓
E-F	✓	✓	✓
South Treeline Areas:			
A-B	✓	✓	✓
B-C	✓		✓
C-D	✓	RA	✓
D-E	✓	RA	✓
E-F	✓	✓	✓



Notes:
(1) Ground - check for soil coverage at tree base
(2) Trunk, limbs, & branches - check for broken branches, lacerations, pests, or other signs of damage or potential problems with the tree
(3) Stability - check for overall stability of the tree
Place a check mark in each box where no problems are observed.
Write "RA" where remedial action is needed to address a problem and describe the problem and remedial actions needed on the back of this form.

ATTACHMENT 5

January 2010 - Groundwater Sample Information Sheets

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G> P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: IW-1	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	15.00	ft
Depth to product		ft
Depth to water (DTW)	11.96	ft

Sample Types (circle all applicable)
Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling		
Depth of pump placement (place mid-screen)	12.00	ft
Bubbles purged from flow cell?	Y / N	
Is drawdown >0.3 feet	Y / N	
Was passive sampling used?	Y / N	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	10.20	10.15	10.22				
Spec. Cond (µmhos)	+/- 3%	1.044	1.043	1.044				
D.O. (mg/L)	+/- 10%**	3.50	3.61	3.48				
pH	+/- 0.1	6.60	6.60	6.61				
ORP (mV)	+/- 10 mV**	152	149	147				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: N/A gallons
Sample Date: 1/27/10 Sample Time: 11 : 00 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration: N/A After filtration: N/A
Reaction upon addition of preservatives? YES NO explain: N/A
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: OK

Signature: _____ Date: 1/27/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G> P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW-163	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	19.47 ft
Depth to product	ft
Depth to water (DTW)	11.80 ft

Sample Types (circle all applicable)
Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling		
Depth of pump placement (place mid-screen)	16.47	ft
Bubbles purged from flow cell?	Y / N	
Is drawdown >0.3 feet	Y / N	
Was passive sampling used?	Y / N	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	10.83	10.81	10.78				
Spec. Cond (µmhos)	+/- 3%	.970	.967	.962				
D.O. (mg/L)	+/- 10%**	2.88	2.84	2.81				
pH	+/- 0.1	6.84	6.83	6.82				
ORP (mV)	+/- 10 mV**	205	208	208				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: N/A gallons
Sample Date: 1/27/10 Sample Time: 11 : 20 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration: N/A After filtration: N/A
Reaction upon addition of preservatives? YES NO explain: n/a
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: OK

Signature: [signature] Date: 1/27/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G> P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW-173	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	17.55 ft
Depth to product	ft
Depth to water (DTW)	13.85 ft

Sample Types (circle all applicable)
(Monitoring Well)
(Grab)/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling		⇐OR⇒	Micropurge sampling	
Height of water column (H = TD – DTW)	ft		Depth of pump placement (place mid-screen)	14.55 ft
Conversion value (CV)*	x		Bubbles purged from flow cell?	(Y) / N
1 Well volume = H x CV	= gal		Is drawdown >0.3 feet	(Y) / N
3 Well volumes =	= gal		Was passive sampling used?	Y / (N)
Purge method (B = bailer, P = pump)	B / P		Flowrate =	mL/min
			ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	10.89	10.87	10.89				
Spec. Cond (µmhos)	+/- 3%	.693	.692	.692				
D.O. (mg/L)	+/- 10%**	3.15	2.94	2.89				
pH	+/- 0.1	7.08	7.07	7.06				
ORP (mV)	+/- 10 mV**	290	290	289				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: N/A gallons
Sample Date: 1/27/10 Sample Time: 11:40 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration: N/A After filtration: N/A
Reaction upon addition of preservatives? YES (NO) explain: N/A
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: OK

Signature: _____ Date: 1/27/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G> P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: mw-156	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	18.53 ft
Depth to product	ft
Depth to water (DTW)	12.51 ft

Sample Types (circle all applicable)
Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling		
Depth of pump placement (place mid-screen)	15.53	ft
Bubbles purged from flow cell?	Y / N	
Is drawdown >0.3 feet	Y / N	
Was passive sampling used?	Y / N	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	9.65	9.61	9.65				
Spec. Cond (µmhos)	+/- 3%	.721	.718	.716				
D.O. (mg/L)	+/- 10%**	3.40	3.40	3.30				
pH	+/- 0.1	7.10	7.10	7.10				
ORP (mV)	+/- 10 mV**	310	312	312				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: N/A gallons
Sample Date: 1/27/10 Sample Time: 13 : 00 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration: N/A After filtration: N/A
Reaction upon addition of preservatives? YES NO explain: N/A
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: ok

Signature: _____ Date: 1/27/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G> P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW - 151	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1/2/4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	18.67	ft
Depth to product		ft
Depth to water (DTW)	14.25	ft

Sample Types (circle all applicable)
Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling		
Depth of pump placement (place mid-screen)	15.67	ft
Bubbles purged from flow cell?	(Y) / N	
Is drawdown >0.3 feet	(Y) / N	
Was passive sampling used?	Y / (N)	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%							
Spec. Cond (µmhos)	+/- 3%							
D.O. (mg/L)	+/- 10%**							
pH	+/- 0.1							
ORP (mV)	+/- 10 mV**							
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: N/A gallons
Sample Date: 1/27/10 Sample Time: 13 : 20 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration: N/A After filtration: N/A
Reaction upon addition of preservatives? YES (NO) explain: N/A
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: OK

Signature: _____ Date: 1/27/10

KERAMIDA ENVIRONMENTAL, INC.

GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: ~~Hill-Rom Plating Facility~~ G.P.	KEI Project #: ~~[illegible]~~ 2829-E
Sample I.D.: MW-157	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	17.18	ft
Depth to product		ft
Depth to water (DTW)	12.49	ft

Sample Types (circle all applicable)
Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling		
Depth of pump placement (place mid-screen)	14.15	ft
Bubbles purged from flow cell?	Y / N	
Is drawdown >0.3 feet	Y / N	
Was passive sampling used?	Y / N	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	10.39	10.35	10.31	10.35			
Spec. Cond (µmhos)	+/- 3%	.1837	.1549	.1550	.1549			
D.O. (mg/L)	+/- 10%**	2.97	2.72	2.73	2.69			
pH	+/- 0.1	7.01	7.01	7.01	7.01			
ORP (mV)	+/- 10 mV**	311	310	310	308			
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 1/27/10 Sample Time: 11 : 40 (military time)

Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES NO explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: O/K

Signature: _____ Date: 1/27/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G> P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW-147AR	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	28.70	ft
Depth to product		ft
Depth to water (DTW)	12.40	ft

Sample Types (circle all applicable)
(Monitoring Well)
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling		
Depth of pump placement (place mid-screen)	25'	ft
Bubbles purged from flow cell?	Y / N	
Is drawdown >0.3 feet	Y / N	
Was passive sampling used?	Y / N	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	11.73	12.38	12.56	12.14			
Spec. Cond (µmhos)	+/- 3%	1381	1377	1373	1370			
D.O. (mg/L)	+/- 10%**	0	0	0	0			
pH	+/- 0.1	7.71	7.56	7.44	7.36			
ORP (mV)	+/- 10 mV**	-296.4	-306.1	-305.5	-314.3			
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: .5 gallons
Sample Date: 1/27/10 Sample Time: 9 : 00 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES (NO) explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: Good needs Bolts

Signature: Alan Harper Date: 1-27-10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G> P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW-132R	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	19.15 ft
Depth to product	ft
Depth to water (DTW)	11.48 ft

Sample Types (circle all applicable)
Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling		⇐OR⇒	Micropurge sampling	
Height of water column (H = TD – DTW)	ft		Depth of pump placement (place mid-screen)	16' ft
Conversion value (CV)*	x		Bubbles purged from flow cell?	Y / N
1 Well volume = H x CV	= gal		Is drawdown >0.3 feet	Y / N
3 Well volumes =	= gal		Was passive sampling used?	Y / N
Purge method (B = bailer, P = pump)	B / P		Flowrate =	mL/min
			ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	9.55	9.39	10.05	9.78	9.71		
Spec. Cond (µmhos)	+/- 3%	1100	1095	1090	1082	1074		
D.O. (mg/L)	+/- 10%**	2.16	2.10	2.33	2.25	2.28		
pH	+/- 0.1	7.10	7.10	7.09	7.07	7.07		
ORP (mV)	+/- 10 mV**	-173.3	-169.7	-159.8	-155.8	-155.4		
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: 15 gallons
Sample Date: 1/27/10 Sample Time: 9:30 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES NO explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: Good needs Bolts

Signature: Allen Pierson Date: 1-27-10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G> P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: mw-148R	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	24.55 ft
Depth to product	ft
Depth to water (DTW)	11.32 ft

Sample Types (circle all applicable)
Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling		
Depth of pump placement (place mid-screen)	21'	ft
Bubbles purged from flow cell?	Y / N	
Is drawdown >0.3 feet	Y / N	
Was passive sampling used?	Y / N	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	9.90	10.89	10.55	11.66			
Spec. Cond (µmhos)	+/- 3%	1292	1279	1260	1260			
D.O. (mg/L)	+/- 10%**	0.31	0.28	0.10	0.11			
pH	+/- 0.1	6.83	6.84	6.83	6.82			
ORP (mV)	+/- 10 mV**	-229.8	-208.0	-215.3	-207.9			
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: 15 gallons
Sample Date: 1/27/10 Sample Time: 10:00 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES NO explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: Good needs Bolts.

Signature: Alan Hayes Date: 1-27-10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G> P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW -153	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1/2/4 6)
Stick up or stick down height	ft
Total depth of well (TD)	20.95 ft
Depth to product	ft
Depth to water (DTW)	11.50 ft

Sample Types (circle all applicable)
Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: DUP -01)
~~MS/MSD~~
Other_____

Conventional sampling		⇐OR⇒	Micropurge sampling	
Height of water column (H = TD – DTW)	ft		Depth of pump placement (place mid-screen)	17.95 ft
Conversion value (CV)*	x		Bubbles purged from flow cell?	Y / N
1 Well volume = H x CV	= gal		Is drawdown >0.3 feet	Y / N
3 Well volumes =	= gal		Was passive sampling used?	Y / N
Purge method (B = bailer, P = pump)	B / P		Flowrate =	mL/min
			ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	9.43	9.56	9.63	9.60			
Spec. Cond (µmhos)	+/- 3%	1723	1719	1719	1717			
D.O. (mg/L)	+/- 10%**	8.18	8.47	8.54	8.54			
pH	+/- 0.1	7.16	7.16	7.17	7.17			
ORP (mV)	+/- 10 mV**	-0.2	-77.1	-77.2	-77.4			
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: 15 gallons
Sample Date: 1/27/10 Sample Time: 10 : 30 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES NO explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: Good

Signature: Alan Hanson Date: 1-27-10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G> P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW-101R	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	18.95 ft
Depth to product	ft
Depth to water (DTW)	14.89 14.89 ft

Sample Types (circle all applicable)
Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: DUP-02)
MS/MSD
Other_____

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling		
Depth of pump placement (place mid-screen)	16	ft
Bubbles purged from flow cell?	Y / N	
Is drawdown >0.3 feet	Y / N	
Was passive sampling used?	Y / N	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	11.03	11.29	11.31				
Spec. Cond (µmhos)	+/- 3%	886	886	886				
D.O. (mg/L)	+/- 10%**	2.58	2.47	2.45				
pH	+/- 0.1	6.73	6.73	6.73				
ORP (mV)	+/- 10 mV**	-120.1	-121.1	-122.5				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: 15 gallons
Sample Date: 1/27/10 Sample Time: 11 : 15 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES NO explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: Good

Signature: Alan Karson Date: 1-27-10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G> P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: IW-2	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	16.97	ft
Depth to product		ft
Depth to water (DTW)	13.31	ft

Sample Types (circle all applicable)
Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling		
Depth of pump placement (place mid-screen)	13.97	ft
Bubbles purged from flow cell?	Y / N	
Is drawdown >0.3 feet	Y / N	
Was passive sampling used?	Y / N	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	10.81	10.82	11.01				
Spec. Cond (µmhos)	+/- 3%	.720	.719	.718				
D.O. (mg/L)	+/- 10%**	2.25	1.95	2.02				
pH	+/- 0.1	7.03	7.02	7.03				
ORP (mV)	+/- 10 mV**	417	417	416				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: N/A gallons
Sample Date: 1/27/10 Sample Time: 10 : 40 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration: N/A After filtration: N/A
Reaction upon addition of preservatives? YES NO explain: N/A
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: OK

Signature: [signature] Date: 1-27-10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G> P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW - 164	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	25.00	ft
Depth to product		ft
Depth to water (DTW)	19.66	ft

Sample Types (circle all applicable)
Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling		
Depth of pump placement (place mid-screen)	22.00	ft
Bubbles purged from flow cell?	Y / N	
Is drawdown >0.3 feet	Y / N	
Was passive sampling used?	Y / N	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	12.38	12.40	12.41				
Spec. Cond (µmhos)	+/- 3%	.1959	.1957	1948				
D.O. (mg/L)	+/- 10%**	1.02	1.02	.98				
pH	+/- 0.1	6.96	6.96	6.96				
ORP (mV)	+/- 10 mV**	278	275	277				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: N/A gallons
Sample Date: 1/27/10 Sample Time: 14:20 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration: N/A After filtration: N/A
Reaction upon addition of preservatives? YES NO explain: N/A
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: OK

Signature: _____ Date: 1/27/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G> P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW-15D	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	18.90 ft
Depth to product	ft
Depth to water (DTW)	13.50 ft

Sample Types (circle all applicable)
Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling		⇐OR⇒	Micropurge sampling	
Height of water column (H = TD – DTW)	ft		Depth of pump placement (place mid-screen)	16' ft
Conversion value (CV)*	x		Bubbles purged from flow cell?	Y / N
1 Well volume = H x CV	= gal		Is drawdown >0.3 feet	Y / N
3 Well volumes =	= gal		Was passive sampling used?	Y / N
Purge method (B = bailer, P = pump)	B / P		Flowrate =	mL/min
			ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	10.29	11.03	11.85	12.26			
Spec. Cond (µmhos)	+/- 3%	920	921	918	921			
D.O. (mg/L)	+/- 10%**	2.05	1.32	0.91	0.78			
pH	+/- 0.1	6.80	6.77	6.75	6.74			
ORP (mV)	+/- 10 mV**	-178.9	-177.1	-174.3	-173.9			
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: 5 gallons
Sample Date: 1/27/10 Sample Time: 12:30 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES NO explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: OK needs Brush

Signature: Allen Harper Date: 1-27-10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G> P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW-152	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	18.75 ft
Depth to product	ft
Depth to water (DTW)	13.95 ft

Sample Types (circle all applicable)
Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling	
Depth of pump placement (place mid-screen)	16' ft
Bubbles purged from flow cell?	Y / N
Is drawdown >0.3 feet	Y / N
Was passive sampling used?	Y / N
Flowrate =	mL/min
ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	12.32	12.83	13.03				
Spec. Cond (µmhos)	+/- 3%	526	526	526				
D.O. (mg/L)	+/- 10%**	0.98	0.95	0.94				
pH	+/- 0.1	6.93	6.93	6.93				
ORP (mV)	+/- 10 mV**	-141.6	-141.6	-141.6				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: .5 gallons
Sample Date: 1/27/10 Sample Time: 1300 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES NO explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: BAD

Signature: [signature] Date: 1-27-10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G> P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW-133R	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1/2/4 6)
Stick up or stick down height	ft
Total depth of well (TD)	16.1 ft
Depth to product	ft
Depth to water (DTW)	9.72 ft

Sample Types (circle all applicable)
Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling		
Depth of pump placement (place mid-screen)	13	ft
Bubbles purged from flow cell?	Y / N	
Is drawdown >0.3 feet	Y / N	
Was passive sampling used?	Y / N	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	10.45	10.65	10.86	11.04	11.06		
Spec. Cond (µmhos)	+/- 3%	1151	1149	1147	1146	1146		
D.O. (mg/L)	+/- 10%**	3.89	3.68	3.53	3.40	3.30		
pH	+/- 0.1	6.81	6.80	6.79	6.79	6.79		
ORP (mV)	+/- 10 mV**	-77.7	-80.7	-82.0	-83.2	-84.2		
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: 5 gallons
Sample Date: 1/27/10 Sample Time: 13:30 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES NO explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: Needs Bolts

Signature: Alan Hagen Date: 1-27-10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G> P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW-146	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1/2/4/6)	
Stick up or stick down height		ft
Total depth of well (TD)	23.40	ft
Depth to product		ft
Depth to water (DTW)	9.80	ft

Sample Types (circle all applicable)
Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling		
Depth of pump placement (place mid-screen)	20'	ft
Bubbles purged from flow cell?	Y / N	
Is drawdown >0.3 feet	Y / N	
Was passive sampling used?	Y / N	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	10.94	10.14	9.66	9.58	9.30	9.21	
Spec. Cond (µmhos)	+/- 3%	1040	1048	1044	1041	1032	1025	
D.O. (mg/L)	+/- 10%**	1.29	0	0	0	0	0	
pH	+/- 0.1	6.58	6.57	6.57	6.57	6.58	6.58	
ORP (mV)	+/- 10 mV**	135.3	-177.4	-187.6	-190.7	-192.3	-192.4	
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: 15 gallons
Sample Date: 1/27/10 Sample Time: 14:00 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES NO explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: OK Needs Bolts 9/10

Signature: [signature] Date: 1-27-10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G> P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW-302	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	54.20 ~~37.90~~ ft
Depth to product	ft
Depth to water (DTW)	13.23 ~~12.60~~ ft

Sample Types (circle all applicable)
Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling	
Depth of pump placement (place mid-screen)	51.20 ft
Bubbles purged from flow cell?	Y / N
Is drawdown >0.3 feet	Y / N
Was passive sampling used?	Y / N
Flowrate =	mL/min
ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	11.70	11.71	11.69				
Spec. Cond (µmhos)	+/- 3%	648	648	649				
D.O. (mg/L)	+/- 10%**	0	0	0				
pH	+/- 0.1	7.17	7.17	7.17				
ORP (mV)	+/- 10 mV**	-241.5	-245.1	-246.1				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: N/A gallons
Sample Date: 1/27/10 Sample Time: 14:20 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration: N/A After filtration: N/A
Reaction upon addition of preservatives? YES NO explain: N/A
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: OK

Signature: [signature] Date: 1/27/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G> P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW-160	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	13.50	ft
Depth to product		ft
Depth to water (DTW)	3.65	ft

Sample Types (circle all applicable)
Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling		
Depth of pump placement (place mid-screen)	11.50	ft
Bubbles purged from flow cell?	Y / N	
Is drawdown >0.3 feet	Y / N	
Was passive sampling used?	Y / N	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	12.78	12.29	11.88				
Spec. Cond (µmhos)	+/- 3%	1750	1745	1747				
D.O. (mg/L)	+/- 10%**	0	0	0				
pH	+/- 0.1	6.67	6.67	6.67				
ORP (mV)	+/- 10 mV**	-300.8	-300.5	-300.2				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: .5 gallons
Sample Date: 1/27/10 Sample Time: 14:40 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES NO explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/~~Very Turbid~~)
Well condition: NEW ~~[illegible]~~

Signature: Alan [illegible] Date: 1-27-10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G> P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW-161	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1 (2) 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	13.95 ft
Depth to product	ft
Depth to water (DTW)	5.28 ft

Sample Types (circle all applicable)
(Monitoring Well)
(Grab)/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling		
Depth of pump placement (place mid-screen)		ft
Bubbles purged from flow cell?	Y / N	
Is drawdown >0.3 feet	Y / N	
Was passive sampling used?	Y / N	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	8.30	8.74	8.75				
Spec. Cond (µmhos)	+/- 3%	990	986	986				
D.O. (mg/L)	+/- 10%**	0.85	0.83	0.82				
pH	+/- 0.1	6.61	6.59	6.59				
ORP (mV)	+/- 10 mV**	-62.1	-60.7	-60.2				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: 15 gallons
Sample Date: 1/27/10 Sample Time: 15:00 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES (NO) explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: New ~~[illegible]~~

Signature: [signature] Date: 1-27-10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G> P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW-169S	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	23.40	ft
Depth to product		ft
Depth to water (DTW)	20.40	ft

Sample Types (circle all applicable)
Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling		
Depth of pump placement (place mid-screen)	20.40	ft
Bubbles purged from flow cell?	Y / N	
Is drawdown >0.3 feet	Y / N	
Was passive sampling used?	Y / N	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	13.31	13.35	13.36	13.34			
Spec. Cond (µmhos)	+/- 3%	1.091	1.056	1.055	1.055			
D.O. (mg/L)	+/- 10%**	1.37	1.19	1.07	.99			
pH	+/- 0.1	6.54	6.54	6.53	6.53			
ORP (mV)	+/- 10 mV**	235	236	234	233			
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: N/A gallons
Sample Date: 2 / 3 / 10 Sample Time: 10 : 30 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration: N/A After filtration: N/A
Reaction upon addition of preservatives? YES NO explain: N/A
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: OK needs lid on well

Signature: [signature] Date: 2/3/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G> P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW-169D	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	34.90	ft
Depth to product		ft
Depth to water (DTW)	20.45	ft

Sample Types (circle all applicable)
(Monitoring Well)
(Grab)/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling		
Depth of pump placement (place mid-screen)	31.90	ft
Bubbles purged from flow cell?	(Y) N	
Is drawdown >0.3 feet	(Y) N	
Was passive sampling used?	Y (N)	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	13.94	13.90	13.55	13.52	13.79		
Spec. Cond (µmhos)	+/- 3%	1.037	1.059	1.051	1.050	1.071		
D.O. (mg/L)	+/- 10%**	.44	.39	.33	.32	.30		
pH	+/- 0.1	6.85	6.87	6.89	6.89	6.90		
ORP (mV)	+/- 10 mV**	313	300	297	298	275		
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: N/A gallons
Sample Date: 2 / 3 / 10 Sample Time: 10 : 00 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration: N/A After filtration: N/A
Reaction upon addition of preservatives? YES (NO) explain: N/A
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: ok needs lid on well

Signature: [signature] Date: 2/3/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G> P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW - 167 S	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	22.00	ft
Depth to product		ft
Depth to water (DTW)	18.56	ft

Sample Types (circle all applicable)
Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: [redacted])
MS/MSD
Other_____

Conventional sampling			⇐OR⇒	Micropurge sampling		
Height of water column (H = TD – DTW)		ft		Depth of pump placement (place mid-screen)	19.00	ft
Conversion value (CV)*	x			Bubbles purged from flow cell?	Y / N	
1 Well volume = H x CV	=	gal		Is drawdown >0.3 feet	Y N	
3 Well volumes =	=	gal		Was passive sampling used?	Y N	
Purge method (B = bailer, P = pump)	B / P			Flowrate =		mL/min
				ID number from controller console	#	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	14.44	14.45	14.40				
Spec. Cond (µmhos)	+/- 3%	1.75	1.75	1.74				
D.O. (mg/L)	+/- 10%**	1.54	1.34	1.25				
pH	+/- 0.1	6.71	6.70	6.70				
ORP (mV)	+/- 10 mV**	352	351	351				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: N/A gallons
Sample Date: 2 / 3 / 10 Sample Time: 13 : 00 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration: N/A After filtration: N/A
Reaction upon addition of preservatives? YES NO explain: N/A
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: ok

Signature: [signature] Date: 2/3/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G> P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW - 167 D	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	32.35	ft
Depth to product		ft
Depth to water (DTW)	18.75	ft

Sample Types (circle all applicable)
Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: DUP -03)
MS/MSD
Other_____

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling		
Depth of pump placement (place mid-screen)	29.35	ft
Bubbles purged from flow cell?	Y / N	
Is drawdown >0.3 feet	Y / N	
Was passive sampling used?	Y / N	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	15.21	15.19	15.17	15.18			
Spec. Cond (µmhos)	+/- 3%	.978	.975	.971	.977			
D.O. (mg/L)	+/- 10%**	1.22	1.14	1.12	1.110			
pH	+/- 0.1	7.11	7.11	7.11	7.10			
ORP (mV)	+/- 10 mV**	180	174	174	174			
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: N/A gallons
Sample Date: 2 / 3 / 10 Sample Time: 13 : 30 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration: N/A After filtration: N/A
Reaction upon addition of preservatives? YES NO explain: N/A
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: ok

Signature: _____ Date: 2/3/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G> P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW-1655	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1/2/4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	19.70 ~~19.20~~	ft
Depth to product		ft
Depth to water (DTW)	14.15 ~~14.97~~	ft

Sample Types (circle all applicable)
Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling		
Depth of pump placement (place mid-screen)	16.20	ft
Bubbles purged from flow cell?	Y / N	
Is drawdown >0.3 feet	Y / N	
Was passive sampling used?	Y N	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	6.78	6.79	6.79	6.78			
Spec. Cond (µmhos)	+/- 3%	1,251	1,249	1,249	1,252			
D.O. (mg/L)	+/- 10%**	1.73	1.60	1.61	1.54			
pH	+/- 0.1	7.29	7.29	7.28	7.29			
ORP (mV)	+/- 10 mV**	161	153	152	153			
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: N/A gallons
Sample Date: 2/3/10 Sample Time: 14:30 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration: N/A After filtration: N/A
Reaction upon addition of preservatives? YES NO explain: N/A
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: OK

Signature: [signature] Date: 2/3/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G> P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW - 1651	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1/2/4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	46.50 ~~49.65~~	ft
Depth to product		ft
Depth to water (DTW)	13.95 ~~14.79~~	ft

Sample Types (circle all applicable)
Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling		
Depth of pump placement (place mid-screen)	48.65	ft
Bubbles purged from flow cell?	Y N	
Is drawdown >0.3 feet	Y N	
Was passive sampling used?	Y N	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	11.47	11.48	11.51	11.53			
Spec. Cond (µmhos)	+/- 3%	.761	.769	.771	.773			
D.O. (mg/L)	+/- 10%**	1.30	1.23	1.17	1.16			
pH	+/- 0.1	7.24	7.24	7.24	7.24			
ORP (mV)	+/- 10 mV**	185	171	160	165			
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: N/A gallons
Sample Date: 2 / 3 / 10 Sample Time: 14 : 00 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration: N/A After filtration: N/A
Reaction upon addition of preservatives? YES NO explain: N/A
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: ok

Signature: _____ Date: 2/3/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G> P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D. MW-65	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	19.20 ~~19.70~~	ft
Depth to product		ft
Depth to water (DTW)	14.97 ~~14.15~~	ft

Sample Types (circle all applicable)
(Monitoring Well)
~~Grab~~/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling		
Depth of pump placement (place mid-screen)	16.20	ft
Bubbles purged from flow cell?	(Y)/ N	
Is drawdown >0.3 feet	(Y)/ N	
Was passive sampling used?	Y / (N)	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	14.72	14.74	14.73	14.72			
Spec. Cond (µmhos)	+/- 3%	.937	.939	.940	.941			
D.O. (mg/L)	+/- 10%**	.56	.54	.51	.51			
pH	+/- 0.1	7.02	7.02	7.02	7.02			
ORP (mV)	+/- 10 mV**	203	204	204	203			
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

* Eq. Blank 1600

Observations:
Volume of water purged from well: N/A gallons
Sample Date: 2 / 3 / 10 Sample Time: 15 : 30 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration: N/A After filtration: N/A
Reaction upon addition of preservatives? YES (NO) explain: N/A
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: OK

Signature: [signature] Date: 2/3/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: G> P > former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW-16D	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	49.65 ~~46.50~~	ft
Depth to product		ft
Depth to water (DTW)	14.74 ~~13.95~~	ft

Sample Types (circle all applicable)
Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling		
Depth of pump placement (place mid-screen)	46.65 ~~43.50~~	ft
Bubbles purged from flow cell?	Y / N	
Is drawdown >0.3 feet	Y / N	
Was passive sampling used?	Y / N	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	14.45	14.44	14.44				
Spec. Cond (µmhos)	+/- 3%	1984	1986	1987				
D.O. (mg/L)	+/- 10%**	1.29	1.21	1.19				
pH	+/- 0.1	7.18	7.18	7.18				
ORP (mV)	+/- 10 mV**	124	120	119				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: N/A gallons
Sample Date: 2/3/10 Sample Time: 15:00 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration: N/A After filtration: N/A
Reaction upon addition of preservatives? YES NO explain: N/A
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: ok

Signature: _____ Date: 2/3/10

ATTACHMENT 6

January 2010 - Groundwater Analytical Report

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

March 08, 2010

Mr. Rob Fedorchak
Keramida Environmental
401 North College Avenue
Indianapolis, IN 46202

RE: Project: GP / 2829E-001
Pace Project No.: 5034229_revised Sample 001 reanalyzed and reported out of hold for TCE.

Dear Mr. Fedorchak:
Enclosed are the analytical results for sample(s) received by the laboratory between January 27, 2010 and February 06, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Andrew Votaw

andrew.votaw@pacelabs.com
Project Manager

Enclosures

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Indianapolis, IN 46268
(317)875-5894

CERTIFICATIONS

Project: GP / 2829E-001
Pace Project No.: 5034229

Indiana Certification IDs

West Virginia Certification #: 330
7726 Moller Road Indianapolis, IN 46268
Illinois/NELAC Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Ohio VAP: CL0065
Pennsylvania: 68-00791

Kansas Certification IDs

A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Oregon Certification #: KS200001
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665
Washington Certification #: C2069
9608 Loiret Boulevard Lenexa, KS 66219

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SAMPLE SUMMARY

Project: GP / 2829E-001
Pace Project No.: 5034229

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5034229001	MW-10-1R	Water	01/27/10 11:15	01/27/10 16:41
5034229002	DUP-02	Water	01/27/10 08:00	01/27/10 16:41
5034229003	MW-153	Water	01/27/10 10:30	01/27/10 16:41
5034229004	DUP-01	Water	01/27/10 08:00	01/27/10 16:41
5034229005	MW-148R	Water	01/27/10 10:00	01/27/10 16:41
5034229006	MW-132R	Water	01/27/10 09:30	01/27/10 16:41
5034229007	MW-157	Water	01/27/10 11:40	01/27/10 16:41
5034229008	MW-151	Water	01/27/10 13:20	01/27/10 16:41
5034229009	MW-156	Water	01/27/10 13:00	01/27/10 16:41
5034229010	MW-164	Water	01/27/10 14:20	01/27/10 16:41
5034229011	MW-150	Water	01/27/10 12:30	01/27/10 16:41
5034229012	MW-152	Water	01/27/10 13:00	01/27/10 16:41
5034229013	MW-146	Water	01/27/10 14:00	01/27/10 16:41
5034229014	MW-302	Water	01/27/10 14:20	01/27/10 16:41
5034229015	MW-160	Water	01/27/10 14:40	01/27/10 16:41
5034229016	MW-161	Water	01/27/10 15:00	01/27/10 16:41
5034229017	EQU. BLANK	Water	01/27/10 15:00	01/27/10 16:41
5034231001	MW-147AR	Water	01/27/10 09:00	01/27/10 16:41
5034231002	MW-173	Water	01/27/10 11:40	01/27/10 16:41
5034231003	MW-163	Water	01/27/10 11:20	01/27/10 16:41
5034231004	IW-1	Water	01/27/10 11:00	01/27/10 16:41
5034231005	IW-2	Water	01/27/10 10:40	01/27/10 16:41
5034231006	MW-133R	Water	01/27/10 13:30	01/27/10 16:41
5034508001	MW-169S	Water	02/03/10 10:30	02/06/10 10:20
5034508002	MW-169D	Water	02/03/10 10:00	02/06/10 10:20
5034508003	MW-167S	Water	02/03/10 13:00	02/06/10 10:20
5034508004	MW-167D	Water	02/03/10 13:30	02/06/10 10:20
5034508005	DUP-03	Water	02/03/10 08:00	02/06/10 10:20
5034508006	MW-165S	Water	02/03/10 14:30	02/06/10 10:20
5034508007	MW-165D	Water	02/03/10 14:00	02/06/10 10:20
5034508008	MW-166S	Water	02/03/10 15:30	02/06/10 10:20
5034508009	MW-166D	Water	02/03/10 15:00	02/06/10 10:20
5034508010	EQ BLANK	Water	02/03/10 16:00	02/06/10 10:20
5034508011	TRIP BLANK	Water	02/03/10 08:00	02/06/10 10:20

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SAMPLE ANALYTE COUNT

Project: GP / 2829E-001
Pace Project No.: 5034229

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
5034229001	MW-10-1R	EPA 8260	JLF	74	PASI-I
5034229002	DUP-02	EPA 8260	JLF	74	PASI-I
5034229003	MW-153	EPA 8260	JLF	74	PASI-I
5034229004	DUP-01	EPA 8260	JLF	74	PASI-I
5034229005	MW-148R	EPA 8260	JLF	74	PASI-I
5034229006	MW-132R	EPA 8260	JLF	74	PASI-I
5034229007	MW-157	EPA 8260	JLF	74	PASI-I
5034229008	MW-151	EPA 8260	JLF	74	PASI-I
		SM 5310C	AJM	1	PASI-K
5034229009	MW-156	EPA 8260	JLF	74	PASI-I
		SM 5310C	AJM	1	PASI-K
5034229010	MW-164	EPA 8260	JLF	74	PASI-I
5034229011	MW-150	EPA 8260	JLF	74	PASI-I
5034229012	MW-152	EPA 8260	JLF	74	PASI-I
5034229013	MW-146	EPA 8260	JLF	74	PASI-I
5034229014	MW-302	EPA 8260	JLF	74	PASI-I
5034229015	MW-160	EPA 8260	JLF	74	PASI-I
5034229016	MW-161	EPA 8260	JLF	74	PASI-I
5034229017	EQU. BLANK	EPA 8260	JLF	74	PASI-I
5034231001	MW-147AR	EPA 8260	JLF	74	PASI-I
5034231002	MW-173	EPA 8260	JLF	74	PASI-I
		SM 5310C	AJM	1	PASI-K
5034231003	MW-163	EPA 8260	JLF	74	PASI-I
		SM 5310C	AJM	1	PASI-K
5034231004	IW-1	EPA 8260	JLF	74	PASI-I
		SM 5310C	AJM	1	PASI-K
5034231005	IW-2	EPA 8260	JLF	74	PASI-I
		SM 5310C	AJM	1	PASI-K
5034231006	MW-133R	EPA 8260	JLF	74	PASI-I
5034508001	MW-169S	EPA 8260	JLF	74	PASI-I
5034508002	MW-169D	EPA 8260	JLF	74	PASI-I
5034508003	MW-167S	EPA 8260	JLF	74	PASI-I
5034508004	MW-167D	EPA 8260	JLF	74	PASI-I
5034508005	DUP-03	EPA 8260	JLF	74	PASI-I
5034508006	MW-165S	EPA 8260	JLF	74	PASI-I
5034508007	MW-165D	EPA 8260	JLF	74	PASI-I
5034508008	MW-166S	EPA 8260	JLF	74	PASI-I

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(317)875-5894

SAMPLE ANALYTE COUNT

Project: GP / 2829E-001
Pace Project No.: 5034229

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
5034508009	**MW-166D**	EPA 8260	JLF	74	PASI-I
5034508010	**EQ BLANK**	EPA 8260	JLF	74	PASI-I
5034508011	**TRIP BLANK**	EPA 8260	JLF	74	PASI-I

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-10-1R **Lab ID: 5034229001** Collected: 01/27/10 11:15 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		01/31/10 14:54	67-64-1	
Acrolein	ND	ug/L	50.0	1		01/31/10 14:54	107-02-8	
Acrylonitrile	ND	ug/L	100	1		01/31/10 14:54	107-13-1	
Benzene	ND	ug/L	5.0	1		01/31/10 14:54	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		01/31/10 14:54	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		01/31/10 14:54	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		01/31/10 14:54	75-27-4	
Bromoform	ND	ug/L	5.0	1		01/31/10 14:54	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/31/10 14:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		01/31/10 14:54	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		01/31/10 14:54	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		01/31/10 14:54	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		01/31/10 14:54	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		01/31/10 14:54	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		01/31/10 14:54	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		01/31/10 14:54	108-90-7	
Chloroethane	ND	ug/L	5.0	1		01/31/10 14:54	75-00-3	
Chloroform	ND	ug/L	5.0	1		01/31/10 14:54	67-66-3	
Chloromethane	ND	ug/L	5.0	1		01/31/10 14:54	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		01/31/10 14:54	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		01/31/10 14:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		01/31/10 14:54	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		01/31/10 14:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		01/31/10 14:54	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		01/31/10 14:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 14:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 14:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 14:54	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		01/31/10 14:54	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		01/31/10 14:54	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		01/31/10 14:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		01/31/10 14:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		01/31/10 14:54	75-35-4	
cis-1,2-Dichloroethene	**132**	ug/L	5.0	1		01/31/10 14:54	156-59-2	
trans-1,2-Dichloroethene	**15.0**	ug/L	5.0	1		01/31/10 14:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		01/31/10 14:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		01/31/10 14:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		01/31/10 14:54	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		01/31/10 14:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/31/10 14:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		01/31/10 14:54	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		01/31/10 14:54	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		01/31/10 14:54	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		01/31/10 14:54	87-68-3	
n-Hexane	ND	ug/L	5.0	1		01/31/10 14:54	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		01/31/10 14:54	591-78-6	
Iodomethane	ND	ug/L	10.0	1		01/31/10 14:54	74-88-4	

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7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-10-1R **Lab ID: 5034229001** Collected: 01/27/10 11:15 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		01/31/10 14:54	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		01/31/10 14:54	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		01/31/10 14:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		01/31/10 14:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		01/31/10 14:54	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		01/31/10 14:54	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		01/31/10 14:54	103-65-1	
Styrene	ND	ug/L	5.0	1		01/31/10 14:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		01/31/10 14:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		01/31/10 14:54	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		01/31/10 14:54	127-18-4	
Toluene	ND	ug/L	5.0	1		01/31/10 14:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		01/31/10 14:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		01/31/10 14:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		01/31/10 14:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		01/31/10 14:54	79-00-5	
Trichloroethene	**331**	ug/L	25.0	5		03/02/10 19:03	79-01-6	1d,2d
Trichlorofluoromethane	ND	ug/L	5.0	1		01/31/10 14:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		01/31/10 14:54	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		01/31/10 14:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		01/31/10 14:54	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		01/31/10 14:54	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		01/31/10 14:54	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		01/31/10 14:54	1330-20-7	
Dibromofluoromethane (S)	101	%	80-123	1		01/31/10 14:54	1868-53-7	
4-Bromofluorobenzene (S)	102	%	70-126	1		01/31/10 14:54	460-00-4	
Toluene-d8 (S)	100	%	80-116	1		01/31/10 14:54	2037-26-5	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: DUP-02 **Lab ID: 5034229002** Collected: 01/27/10 08:00 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		02/01/10 12:44	67-64-1	
Acrolein	ND	ug/L	100	1		02/01/10 12:44	107-02-8	
Acrylonitrile	ND	ug/L	100	1		02/01/10 12:44	107-13-1	
Benzene	ND	ug/L	5.0	1		02/01/10 12:44	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		02/01/10 12:44	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		02/01/10 12:44	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/01/10 12:44	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/01/10 12:44	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/01/10 12:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		02/01/10 12:44	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		02/01/10 12:44	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		02/01/10 12:44	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		02/01/10 12:44	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		02/01/10 12:44	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/01/10 12:44	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/01/10 12:44	108-90-7	
Chloroethane	ND	ug/L	5.0	1		02/01/10 12:44	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/01/10 12:44	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/01/10 12:44	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		02/01/10 12:44	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		02/01/10 12:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/01/10 12:44	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/01/10 12:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/01/10 12:44	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		02/01/10 12:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/01/10 12:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/01/10 12:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/01/10 12:44	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		02/01/10 12:44	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/01/10 12:44	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/01/10 12:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/01/10 12:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/01/10 12:44	75-35-4	
cis-1,2-Dichloroethene	**97.8**	ug/L	5.0	1		02/01/10 12:44	156-59-2	
trans-1,2-Dichloroethene	**13.6**	ug/L	5.0	1		02/01/10 12:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/01/10 12:44	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		02/01/10 12:44	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		02/01/10 12:44	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		02/01/10 12:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/01/10 12:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/01/10 12:44	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/01/10 12:44	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		02/01/10 12:44	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		02/01/10 12:44	87-68-3	
n-Hexane	ND	ug/L	5.0	1		02/01/10 12:44	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		02/01/10 12:44	591-78-6	
Iodomethane	ND	ug/L	10.0	1		02/01/10 12:44	74-88-4	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: DUP-02 **Lab ID: 5034229002** Collected: 01/27/10 08:00 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		02/01/10 12:44	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		02/01/10 12:44	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		02/01/10 12:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		02/01/10 12:44	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		02/01/10 12:44	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		02/01/10 12:44	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		02/01/10 12:44	103-65-1	
Styrene	ND	ug/L	5.0	1		02/01/10 12:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/01/10 12:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/01/10 12:44	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/01/10 12:44	127-18-4	
Toluene	ND	ug/L	5.0	1		02/01/10 12:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		02/01/10 12:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		02/01/10 12:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/01/10 12:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/01/10 12:44	79-00-5	
Trichloroethene	**297**	ug/L	5.0	1		02/01/10 12:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/01/10 12:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/01/10 12:44	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		02/01/10 12:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		02/01/10 12:44	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		02/01/10 12:44	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/01/10 12:44	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/01/10 12:44	1330-20-7	
Dibromofluoromethane (S)	101	%	80-123	1		02/01/10 12:44	1868-53-7	
4-Bromofluorobenzene (S)	102	%	70-126	1		02/01/10 12:44	460-00-4	
Toluene-d8 (S)	100	%	80-116	1		02/01/10 12:44	2037-26-5	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-153 **Lab ID: 5034229003** Collected: 01/27/10 10:30 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		02/01/10 13:18	67-64-1	
Acrolein	ND	ug/L	100	1		02/01/10 13:18	107-02-8	
Acrylonitrile	ND	ug/L	100	1		02/01/10 13:18	107-13-1	
Benzene	ND	ug/L	5.0	1		02/01/10 13:18	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		02/01/10 13:18	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		02/01/10 13:18	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/01/10 13:18	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/01/10 13:18	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/01/10 13:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		02/01/10 13:18	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		02/01/10 13:18	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		02/01/10 13:18	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		02/01/10 13:18	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		02/01/10 13:18	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/01/10 13:18	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/01/10 13:18	108-90-7	
Chloroethane	ND	ug/L	5.0	1		02/01/10 13:18	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/01/10 13:18	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/01/10 13:18	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		02/01/10 13:18	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		02/01/10 13:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/01/10 13:18	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/01/10 13:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/01/10 13:18	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		02/01/10 13:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/01/10 13:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/01/10 13:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/01/10 13:18	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		02/01/10 13:18	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/01/10 13:18	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/01/10 13:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/01/10 13:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/01/10 13:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/01/10 13:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/01/10 13:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/01/10 13:18	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		02/01/10 13:18	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		02/01/10 13:18	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		02/01/10 13:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/01/10 13:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/01/10 13:18	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/01/10 13:18	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		02/01/10 13:18	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		02/01/10 13:18	87-68-3	
n-Hexane	ND	ug/L	5.0	1		02/01/10 13:18	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		02/01/10 13:18	591-78-6	
Iodomethane	ND	ug/L	10.0	1		02/01/10 13:18	74-88-4	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-153 **Lab ID: 5034229003** Collected: 01/27/10 10:30 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		02/01/10 13:18	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		02/01/10 13:18	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		02/01/10 13:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		02/01/10 13:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		02/01/10 13:18	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		02/01/10 13:18	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		02/01/10 13:18	103-65-1	
Styrene	ND	ug/L	5.0	1		02/01/10 13:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/01/10 13:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/01/10 13:18	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/01/10 13:18	127-18-4	
Toluene	ND	ug/L	5.0	1		02/01/10 13:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		02/01/10 13:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		02/01/10 13:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/01/10 13:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/01/10 13:18	79-00-5	
Trichloroethene	**79.5**	ug/L	5.0	1		02/01/10 13:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/01/10 13:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/01/10 13:18	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		02/01/10 13:18	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		02/01/10 13:18	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		02/01/10 13:18	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/01/10 13:18	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/01/10 13:18	1330-20-7	
Dibromofluoromethane (S)	104	%	80-123	1		02/01/10 13:18	1868-53-7	
4-Bromofluorobenzene (S)	101	%	70-126	1		02/01/10 13:18	460-00-4	
Toluene-d8 (S)	102	%	80-116	1		02/01/10 13:18	2037-26-5	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: DUP-01 **Lab ID: 5034229004** Collected: 01/27/10 08:00 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		01/31/10 16:36	67-64-1	
Acrolein	ND	ug/L	100	1		01/31/10 16:36	107-02-8	
Acrylonitrile	ND	ug/L	100	1		01/31/10 16:36	107-13-1	
Benzene	ND	ug/L	5.0	1		01/31/10 16:36	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		01/31/10 16:36	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		01/31/10 16:36	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		01/31/10 16:36	75-27-4	
Bromoform	ND	ug/L	5.0	1		01/31/10 16:36	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/31/10 16:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		01/31/10 16:36	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		01/31/10 16:36	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		01/31/10 16:36	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		01/31/10 16:36	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		01/31/10 16:36	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		01/31/10 16:36	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		01/31/10 16:36	108-90-7	
Chloroethane	ND	ug/L	5.0	1		01/31/10 16:36	75-00-3	
Chloroform	ND	ug/L	5.0	1		01/31/10 16:36	67-66-3	
Chloromethane	ND	ug/L	5.0	1		01/31/10 16:36	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		01/31/10 16:36	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		01/31/10 16:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		01/31/10 16:36	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		01/31/10 16:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		01/31/10 16:36	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		01/31/10 16:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 16:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 16:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 16:36	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		01/31/10 16:36	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		01/31/10 16:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		01/31/10 16:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		01/31/10 16:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		01/31/10 16:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		01/31/10 16:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		01/31/10 16:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		01/31/10 16:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		01/31/10 16:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		01/31/10 16:36	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		01/31/10 16:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/31/10 16:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		01/31/10 16:36	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		01/31/10 16:36	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		01/31/10 16:36	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		01/31/10 16:36	87-68-3	
n-Hexane	ND	ug/L	5.0	1		01/31/10 16:36	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		01/31/10 16:36	591-78-6	
Iodomethane	ND	ug/L	10.0	1		01/31/10 16:36	74-88-4	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: DUP-01 **Lab ID: 5034229004** Collected: 01/27/10 08:00 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		01/31/10 16:36	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		01/31/10 16:36	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		01/31/10 16:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		01/31/10 16:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		01/31/10 16:36	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		01/31/10 16:36	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		01/31/10 16:36	103-65-1	
Styrene	ND	ug/L	5.0	1		01/31/10 16:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		01/31/10 16:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		01/31/10 16:36	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		01/31/10 16:36	127-18-4	
Toluene	ND	ug/L	5.0	1		01/31/10 16:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		01/31/10 16:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		01/31/10 16:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		01/31/10 16:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		01/31/10 16:36	79-00-5	
Trichloroethene	**76.8**	ug/L	5.0	1		01/31/10 16:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		01/31/10 16:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		01/31/10 16:36	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		01/31/10 16:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		01/31/10 16:36	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		01/31/10 16:36	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		01/31/10 16:36	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		01/31/10 16:36	1330-20-7	
Dibromofluoromethane (S)	105	%	80-123	1		01/31/10 16:36	1868-53-7	
4-Bromofluorobenzene (S)	102	%	70-126	1		01/31/10 16:36	460-00-4	
Toluene-d8 (S)	99	%	80-116	1		01/31/10 16:36	2037-26-5	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-148R **Lab ID: 5034229005** Collected: 01/27/10 10:00 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		01/31/10 17:10	67-64-1	
Acrolein	ND	ug/L	100	1		01/31/10 17:10	107-02-8	
Acrylonitrile	ND	ug/L	100	1		01/31/10 17:10	107-13-1	
Benzene	ND	ug/L	5.0	1		01/31/10 17:10	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		01/31/10 17:10	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		01/31/10 17:10	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		01/31/10 17:10	75-27-4	
Bromoform	ND	ug/L	5.0	1		01/31/10 17:10	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/31/10 17:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		01/31/10 17:10	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		01/31/10 17:10	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		01/31/10 17:10	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		01/31/10 17:10	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		01/31/10 17:10	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		01/31/10 17:10	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		01/31/10 17:10	108-90-7	
Chloroethane	ND	ug/L	5.0	1		01/31/10 17:10	75-00-3	
Chloroform	ND	ug/L	5.0	1		01/31/10 17:10	67-66-3	
Chloromethane	ND	ug/L	5.0	1		01/31/10 17:10	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		01/31/10 17:10	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		01/31/10 17:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		01/31/10 17:10	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		01/31/10 17:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		01/31/10 17:10	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		01/31/10 17:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 17:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 17:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 17:10	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		01/31/10 17:10	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		01/31/10 17:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		01/31/10 17:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		01/31/10 17:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		01/31/10 17:10	75-35-4	
cis-1,2-Dichloroethene	**190**	ug/L	25.0	5		02/01/10 18:57	156-59-2	
trans-1,2-Dichloroethene	**31.3**	ug/L	5.0	1		01/31/10 17:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		01/31/10 17:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		01/31/10 17:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		01/31/10 17:10	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		01/31/10 17:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/31/10 17:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		01/31/10 17:10	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		01/31/10 17:10	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		01/31/10 17:10	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		01/31/10 17:10	87-68-3	
n-Hexane	ND	ug/L	5.0	1		01/31/10 17:10	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		01/31/10 17:10	591-78-6	
Iodomethane	ND	ug/L	10.0	1		01/31/10 17:10	74-88-4	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-148R **Lab ID: 5034229005** Collected: 01/27/10 10:00 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		01/31/10 17:10	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		01/31/10 17:10	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		01/31/10 17:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		01/31/10 17:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		01/31/10 17:10	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		01/31/10 17:10	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		01/31/10 17:10	103-65-1	
Styrene	ND	ug/L	5.0	1		01/31/10 17:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		01/31/10 17:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		01/31/10 17:10	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		01/31/10 17:10	127-18-4	
Toluene	ND	ug/L	5.0	1		01/31/10 17:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		01/31/10 17:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		01/31/10 17:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		01/31/10 17:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		01/31/10 17:10	79-00-5	
Trichloroethene	**201**	ug/L	5.0	1		01/31/10 17:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		01/31/10 17:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		01/31/10 17:10	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		01/31/10 17:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		01/31/10 17:10	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		01/31/10 17:10	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		01/31/10 17:10	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		01/31/10 17:10	1330-20-7	
Dibromofluoromethane (S)	102	%	80-123	1		01/31/10 17:10	1868-53-7	
4-Bromofluorobenzene (S)	104	%	70-126	1		01/31/10 17:10	460-00-4	
Toluene-d8 (S)	100	%	80-116	1		01/31/10 17:10	2037-26-5	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-132R **Lab ID: 5034229006** Collected: 01/27/10 09:30 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		01/31/10 17:44	67-64-1	
Acrolein	ND	ug/L	100	1		01/31/10 17:44	107-02-8	
Acrylonitrile	ND	ug/L	100	1		01/31/10 17:44	107-13-1	
Benzene	ND	ug/L	5.0	1		01/31/10 17:44	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		01/31/10 17:44	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		01/31/10 17:44	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		01/31/10 17:44	75-27-4	
Bromoform	ND	ug/L	5.0	1		01/31/10 17:44	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/31/10 17:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		01/31/10 17:44	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		01/31/10 17:44	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		01/31/10 17:44	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		01/31/10 17:44	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		01/31/10 17:44	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		01/31/10 17:44	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		01/31/10 17:44	108-90-7	
Chloroethane	ND	ug/L	5.0	1		01/31/10 17:44	75-00-3	
Chloroform	ND	ug/L	5.0	1		01/31/10 17:44	67-66-3	
Chloromethane	ND	ug/L	5.0	1		01/31/10 17:44	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		01/31/10 17:44	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		01/31/10 17:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		01/31/10 17:44	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		01/31/10 17:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		01/31/10 17:44	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		01/31/10 17:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 17:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 17:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 17:44	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		01/31/10 17:44	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		01/31/10 17:44	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		01/31/10 17:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		01/31/10 17:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		01/31/10 17:44	75-35-4	
cis-1,2-Dichloroethene	**10.9**	ug/L	5.0	1		01/31/10 17:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		01/31/10 17:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		01/31/10 17:44	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		01/31/10 17:44	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		01/31/10 17:44	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		01/31/10 17:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/31/10 17:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		01/31/10 17:44	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		01/31/10 17:44	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		01/31/10 17:44	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		01/31/10 17:44	87-68-3	
n-Hexane	ND	ug/L	5.0	1		01/31/10 17:44	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		01/31/10 17:44	591-78-6	
Iodomethane	ND	ug/L	10.0	1		01/31/10 17:44	74-88-4	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-132R **Lab ID: 5034229006** Collected: 01/27/10 09:30 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		01/31/10 17:44	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		01/31/10 17:44	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		01/31/10 17:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		01/31/10 17:44	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		01/31/10 17:44	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		01/31/10 17:44	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		01/31/10 17:44	103-65-1	
Styrene	ND	ug/L	5.0	1		01/31/10 17:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		01/31/10 17:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		01/31/10 17:44	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		01/31/10 17:44	127-18-4	
Toluene	ND	ug/L	5.0	1		01/31/10 17:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		01/31/10 17:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		01/31/10 17:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		01/31/10 17:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		01/31/10 17:44	79-00-5	
Trichloroethene	**96.3**	ug/L	5.0	1		01/31/10 17:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		01/31/10 17:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		01/31/10 17:44	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		01/31/10 17:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		01/31/10 17:44	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		01/31/10 17:44	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		01/31/10 17:44	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		01/31/10 17:44	1330-20-7	
Dibromofluoromethane (S)	104	%	80-123	1		01/31/10 17:44	1868-53-7	
4-Bromofluorobenzene (S)	103	%	70-126	1		01/31/10 17:44	460-00-4	
Toluene-d8 (S)	99	%	80-116	1		01/31/10 17:44	2037-26-5	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-157 **Lab ID: 5034229007** Collected: 01/27/10 11:40 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		01/31/10 18:18	67-64-1	
Acrolein	ND	ug/L	100	1		01/31/10 18:18	107-02-8	
Acrylonitrile	ND	ug/L	100	1		01/31/10 18:18	107-13-1	
Benzene	ND	ug/L	5.0	1		01/31/10 18:18	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		01/31/10 18:18	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		01/31/10 18:18	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		01/31/10 18:18	75-27-4	
Bromoform	ND	ug/L	5.0	1		01/31/10 18:18	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/31/10 18:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		01/31/10 18:18	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		01/31/10 18:18	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		01/31/10 18:18	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		01/31/10 18:18	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		01/31/10 18:18	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		01/31/10 18:18	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		01/31/10 18:18	108-90-7	
Chloroethane	ND	ug/L	5.0	1		01/31/10 18:18	75-00-3	
Chloroform	ND	ug/L	5.0	1		01/31/10 18:18	67-66-3	
Chloromethane	ND	ug/L	5.0	1		01/31/10 18:18	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		01/31/10 18:18	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		01/31/10 18:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		01/31/10 18:18	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		01/31/10 18:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		01/31/10 18:18	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		01/31/10 18:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 18:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 18:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 18:18	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		01/31/10 18:18	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		01/31/10 18:18	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		01/31/10 18:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		01/31/10 18:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		01/31/10 18:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		01/31/10 18:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		01/31/10 18:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		01/31/10 18:18	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		01/31/10 18:18	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		01/31/10 18:18	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		01/31/10 18:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/31/10 18:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		01/31/10 18:18	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		01/31/10 18:18	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		01/31/10 18:18	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		01/31/10 18:18	87-68-3	
n-Hexane	ND	ug/L	5.0	1		01/31/10 18:18	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		01/31/10 18:18	591-78-6	
Iodomethane	ND	ug/L	10.0	1		01/31/10 18:18	74-88-4	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-157 **Lab ID: 5034229007** Collected: 01/27/10 11:40 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		01/31/10 18:18	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		01/31/10 18:18	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		01/31/10 18:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		01/31/10 18:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		01/31/10 18:18	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		01/31/10 18:18	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		01/31/10 18:18	103-65-1	
Styrene	ND	ug/L	5.0	1		01/31/10 18:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		01/31/10 18:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		01/31/10 18:18	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		01/31/10 18:18	127-18-4	
Toluene	ND	ug/L	5.0	1		01/31/10 18:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		01/31/10 18:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		01/31/10 18:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		01/31/10 18:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		01/31/10 18:18	79-00-5	
Trichloroethene	**89.1**	ug/L	5.0	1		01/31/10 18:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		01/31/10 18:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		01/31/10 18:18	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		01/31/10 18:18	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		01/31/10 18:18	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		01/31/10 18:18	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		01/31/10 18:18	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		01/31/10 18:18	1330-20-7	
Dibromofluoromethane (S)	104	%	80-123	1		01/31/10 18:18	1868-53-7	
4-Bromofluorobenzene (S)	102	%	70-126	1		01/31/10 18:18	460-00-4	
Toluene-d8 (S)	99	%	80-116	1		01/31/10 18:18	2037-26-5	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-151 **Lab ID: 5034229008** Collected: 01/27/10 13:20 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		01/31/10 18:52	67-64-1	
Acrolein	ND	ug/L	100	1		01/31/10 18:52	107-02-8	
Acrylonitrile	ND	ug/L	100	1		01/31/10 18:52	107-13-1	
Benzene	ND	ug/L	5.0	1		01/31/10 18:52	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		01/31/10 18:52	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		01/31/10 18:52	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		01/31/10 18:52	75-27-4	
Bromoform	ND	ug/L	5.0	1		01/31/10 18:52	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/31/10 18:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		01/31/10 18:52	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		01/31/10 18:52	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		01/31/10 18:52	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		01/31/10 18:52	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		01/31/10 18:52	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		01/31/10 18:52	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		01/31/10 18:52	108-90-7	
Chloroethane	ND	ug/L	5.0	1		01/31/10 18:52	75-00-3	
Chloroform	ND	ug/L	5.0	1		01/31/10 18:52	67-66-3	
Chloromethane	ND	ug/L	5.0	1		01/31/10 18:52	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		01/31/10 18:52	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		01/31/10 18:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		01/31/10 18:52	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		01/31/10 18:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		01/31/10 18:52	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		01/31/10 18:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 18:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 18:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 18:52	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		01/31/10 18:52	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		01/31/10 18:52	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		01/31/10 18:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		01/31/10 18:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		01/31/10 18:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		01/31/10 18:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		01/31/10 18:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		01/31/10 18:52	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		01/31/10 18:52	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		01/31/10 18:52	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		01/31/10 18:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/31/10 18:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		01/31/10 18:52	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		01/31/10 18:52	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		01/31/10 18:52	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		01/31/10 18:52	87-68-3	
n-Hexane	ND	ug/L	5.0	1		01/31/10 18:52	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		01/31/10 18:52	591-78-6	
Iodomethane	ND	ug/L	10.0	1		01/31/10 18:52	74-88-4	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-151 **Lab ID: 5034229008** Collected: 01/27/10 13:20 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		01/31/10 18:52	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		01/31/10 18:52	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		01/31/10 18:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		01/31/10 18:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		01/31/10 18:52	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		01/31/10 18:52	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		01/31/10 18:52	103-65-1	
Styrene	ND	ug/L	5.0	1		01/31/10 18:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		01/31/10 18:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		01/31/10 18:52	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		01/31/10 18:52	127-18-4	
Toluene	ND	ug/L	5.0	1		01/31/10 18:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		01/31/10 18:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		01/31/10 18:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		01/31/10 18:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		01/31/10 18:52	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		01/31/10 18:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		01/31/10 18:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		01/31/10 18:52	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		01/31/10 18:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		01/31/10 18:52	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		01/31/10 18:52	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		01/31/10 18:52	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		01/31/10 18:52	1330-20-7	
Dibromofluoromethane (S)	104	%	80-123	1		01/31/10 18:52	1868-53-7	
4-Bromofluorobenzene (S)	103	%	70-126	1		01/31/10 18:52	460-00-4	
Toluene-d8 (S)	100	%	80-116	1		01/31/10 18:52	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.4**	mg/L	1.0	1		02/03/10 18:28	7440-44-0	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-156 **Lab ID: 5034229009** Collected: 01/27/10 13:00 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		01/31/10 19:26	67-64-1	
Acrolein	ND	ug/L	100	1		01/31/10 19:26	107-02-8	
Acrylonitrile	ND	ug/L	100	1		01/31/10 19:26	107-13-1	
Benzene	ND	ug/L	5.0	1		01/31/10 19:26	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		01/31/10 19:26	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		01/31/10 19:26	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		01/31/10 19:26	75-27-4	
Bromoform	ND	ug/L	5.0	1		01/31/10 19:26	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/31/10 19:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		01/31/10 19:26	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		01/31/10 19:26	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		01/31/10 19:26	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		01/31/10 19:26	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		01/31/10 19:26	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		01/31/10 19:26	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		01/31/10 19:26	108-90-7	
Chloroethane	ND	ug/L	5.0	1		01/31/10 19:26	75-00-3	
Chloroform	ND	ug/L	5.0	1		01/31/10 19:26	67-66-3	
Chloromethane	ND	ug/L	5.0	1		01/31/10 19:26	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		01/31/10 19:26	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		01/31/10 19:26	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		01/31/10 19:26	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		01/31/10 19:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		01/31/10 19:26	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		01/31/10 19:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 19:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 19:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 19:26	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		01/31/10 19:26	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		01/31/10 19:26	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		01/31/10 19:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		01/31/10 19:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		01/31/10 19:26	75-35-4	
cis-1,2-Dichloroethene	**25.1**	ug/L	5.0	1		01/31/10 19:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		01/31/10 19:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		01/31/10 19:26	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		01/31/10 19:26	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		01/31/10 19:26	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		01/31/10 19:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/31/10 19:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		01/31/10 19:26	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		01/31/10 19:26	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		01/31/10 19:26	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		01/31/10 19:26	87-68-3	
n-Hexane	ND	ug/L	5.0	1		01/31/10 19:26	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		01/31/10 19:26	591-78-6	
Iodomethane	ND	ug/L	10.0	1		01/31/10 19:26	74-88-4	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-156 **Lab ID: 5034229009** Collected: 01/27/10 13:00 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		01/31/10 19:26	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		01/31/10 19:26	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		01/31/10 19:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		01/31/10 19:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		01/31/10 19:26	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		01/31/10 19:26	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		01/31/10 19:26	103-65-1	
Styrene	ND	ug/L	5.0	1		01/31/10 19:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		01/31/10 19:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		01/31/10 19:26	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		01/31/10 19:26	127-18-4	
Toluene	ND	ug/L	5.0	1		01/31/10 19:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		01/31/10 19:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		01/31/10 19:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		01/31/10 19:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		01/31/10 19:26	79-00-5	
Trichloroethene	**115**	ug/L	5.0	1		01/31/10 19:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		01/31/10 19:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		01/31/10 19:26	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		01/31/10 19:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		01/31/10 19:26	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		01/31/10 19:26	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		01/31/10 19:26	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		01/31/10 19:26	1330-20-7	
Dibromofluoromethane (S)	101	%	80-123	1		01/31/10 19:26	1868-53-7	
4-Bromofluorobenzene (S)	104	%	70-126	1		01/31/10 19:26	460-00-4	
Toluene-d8 (S)	100	%	80-116	1		01/31/10 19:26	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.3**	mg/L	1.0	1		02/03/10 23:35	7440-44-0	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-164 **Lab ID: 5034229010** Collected: 01/27/10 14:20 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		01/31/10 20:00	67-64-1	
Acrolein	ND	ug/L	100	1		01/31/10 20:00	107-02-8	
Acrylonitrile	ND	ug/L	100	1		01/31/10 20:00	107-13-1	
Benzene	ND	ug/L	5.0	1		01/31/10 20:00	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		01/31/10 20:00	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		01/31/10 20:00	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		01/31/10 20:00	75-27-4	
Bromoform	ND	ug/L	5.0	1		01/31/10 20:00	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/31/10 20:00	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		01/31/10 20:00	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		01/31/10 20:00	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		01/31/10 20:00	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		01/31/10 20:00	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		01/31/10 20:00	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		01/31/10 20:00	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		01/31/10 20:00	108-90-7	
Chloroethane	ND	ug/L	5.0	1		01/31/10 20:00	75-00-3	
Chloroform	ND	ug/L	5.0	1		01/31/10 20:00	67-66-3	
Chloromethane	ND	ug/L	5.0	1		01/31/10 20:00	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		01/31/10 20:00	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		01/31/10 20:00	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		01/31/10 20:00	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		01/31/10 20:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		01/31/10 20:00	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		01/31/10 20:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 20:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 20:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 20:00	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		01/31/10 20:00	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		01/31/10 20:00	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		01/31/10 20:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		01/31/10 20:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		01/31/10 20:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		01/31/10 20:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		01/31/10 20:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		01/31/10 20:00	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		01/31/10 20:00	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		01/31/10 20:00	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		01/31/10 20:00	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/31/10 20:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		01/31/10 20:00	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		01/31/10 20:00	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		01/31/10 20:00	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		01/31/10 20:00	87-68-3	
n-Hexane	ND	ug/L	5.0	1		01/31/10 20:00	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		01/31/10 20:00	591-78-6	
Iodomethane	ND	ug/L	10.0	1		01/31/10 20:00	74-88-4	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-164 **Lab ID: 5034229010** Collected: 01/27/10 14:20 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		01/31/10 20:00	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		01/31/10 20:00	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		01/31/10 20:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		01/31/10 20:00	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		01/31/10 20:00	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		01/31/10 20:00	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		01/31/10 20:00	103-65-1	
Styrene	ND	ug/L	5.0	1		01/31/10 20:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		01/31/10 20:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		01/31/10 20:00	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		01/31/10 20:00	127-18-4	
Toluene	ND	ug/L	5.0	1		01/31/10 20:00	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		01/31/10 20:00	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		01/31/10 20:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		01/31/10 20:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		01/31/10 20:00	79-00-5	
Trichloroethene	**15.4**	ug/L	5.0	1		01/31/10 20:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		01/31/10 20:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		01/31/10 20:00	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		01/31/10 20:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		01/31/10 20:00	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		01/31/10 20:00	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		01/31/10 20:00	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		01/31/10 20:00	1330-20-7	
Dibromofluoromethane (S)	103	%	80-123	1		01/31/10 20:00	1868-53-7	
4-Bromofluorobenzene (S)	102	%	70-126	1		01/31/10 20:00	460-00-4	
Toluene-d8 (S)	100	%	80-116	1		01/31/10 20:00	2037-26-5	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-150 **Lab ID: 5034229011** Collected: 01/27/10 12:30 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		01/31/10 20:34	67-64-1	
Acrolein	ND	ug/L	100	1		01/31/10 20:34	107-02-8	
Acrylonitrile	ND	ug/L	100	1		01/31/10 20:34	107-13-1	
Benzene	ND	ug/L	5.0	1		01/31/10 20:34	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		01/31/10 20:34	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		01/31/10 20:34	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		01/31/10 20:34	75-27-4	
Bromoform	ND	ug/L	5.0	1		01/31/10 20:34	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/31/10 20:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		01/31/10 20:34	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		01/31/10 20:34	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		01/31/10 20:34	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		01/31/10 20:34	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		01/31/10 20:34	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		01/31/10 20:34	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		01/31/10 20:34	108-90-7	
Chloroethane	ND	ug/L	5.0	1		01/31/10 20:34	75-00-3	
Chloroform	ND	ug/L	5.0	1		01/31/10 20:34	67-66-3	
Chloromethane	ND	ug/L	5.0	1		01/31/10 20:34	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		01/31/10 20:34	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		01/31/10 20:34	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		01/31/10 20:34	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		01/31/10 20:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		01/31/10 20:34	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		01/31/10 20:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 20:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 20:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 20:34	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		01/31/10 20:34	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		01/31/10 20:34	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		01/31/10 20:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		01/31/10 20:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		01/31/10 20:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		01/31/10 20:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		01/31/10 20:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		01/31/10 20:34	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		01/31/10 20:34	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		01/31/10 20:34	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		01/31/10 20:34	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/31/10 20:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		01/31/10 20:34	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		01/31/10 20:34	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		01/31/10 20:34	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		01/31/10 20:34	87-68-3	
n-Hexane	ND	ug/L	5.0	1		01/31/10 20:34	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		01/31/10 20:34	591-78-6	
Iodomethane	ND	ug/L	10.0	1		01/31/10 20:34	74-88-4	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-150 **Lab ID: 5034229011** Collected: 01/27/10 12:30 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		01/31/10 20:34	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		01/31/10 20:34	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		01/31/10 20:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		01/31/10 20:34	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		01/31/10 20:34	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		01/31/10 20:34	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		01/31/10 20:34	103-65-1	
Styrene	ND	ug/L	5.0	1		01/31/10 20:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		01/31/10 20:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		01/31/10 20:34	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		01/31/10 20:34	127-18-4	
Toluene	ND	ug/L	5.0	1		01/31/10 20:34	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		01/31/10 20:34	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		01/31/10 20:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		01/31/10 20:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		01/31/10 20:34	79-00-5	
Trichloroethene	**7.3**	ug/L	5.0	1		01/31/10 20:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		01/31/10 20:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		01/31/10 20:34	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		01/31/10 20:34	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		01/31/10 20:34	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		01/31/10 20:34	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		01/31/10 20:34	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		01/31/10 20:34	1330-20-7	
Dibromofluoromethane (S)	103	%	80-123	1		01/31/10 20:34	1868-53-7	
4-Bromofluorobenzene (S)	103	%	70-126	1		01/31/10 20:34	460-00-4	
Toluene-d8 (S)	101	%	80-116	1		01/31/10 20:34	2037-26-5	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-152 **Lab ID: 5034229012** Collected: 01/27/10 13:00 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		01/31/10 21:08	67-64-1	
Acrolein	ND	ug/L	100	1		01/31/10 21:08	107-02-8	
Acrylonitrile	ND	ug/L	100	1		01/31/10 21:08	107-13-1	
Benzene	ND	ug/L	5.0	1		01/31/10 21:08	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		01/31/10 21:08	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		01/31/10 21:08	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		01/31/10 21:08	75-27-4	
Bromoform	ND	ug/L	5.0	1		01/31/10 21:08	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/31/10 21:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		01/31/10 21:08	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		01/31/10 21:08	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		01/31/10 21:08	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		01/31/10 21:08	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		01/31/10 21:08	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		01/31/10 21:08	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		01/31/10 21:08	108-90-7	
Chloroethane	ND	ug/L	5.0	1		01/31/10 21:08	75-00-3	
Chloroform	ND	ug/L	5.0	1		01/31/10 21:08	67-66-3	
Chloromethane	ND	ug/L	5.0	1		01/31/10 21:08	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		01/31/10 21:08	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		01/31/10 21:08	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		01/31/10 21:08	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		01/31/10 21:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		01/31/10 21:08	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		01/31/10 21:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 21:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 21:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 21:08	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		01/31/10 21:08	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		01/31/10 21:08	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		01/31/10 21:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		01/31/10 21:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		01/31/10 21:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		01/31/10 21:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		01/31/10 21:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		01/31/10 21:08	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		01/31/10 21:08	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		01/31/10 21:08	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		01/31/10 21:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/31/10 21:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		01/31/10 21:08	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		01/31/10 21:08	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		01/31/10 21:08	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		01/31/10 21:08	87-68-3	
n-Hexane	ND	ug/L	5.0	1		01/31/10 21:08	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		01/31/10 21:08	591-78-6	
Iodomethane	ND	ug/L	10.0	1		01/31/10 21:08	74-88-4	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-152 **Lab ID: 5034229012** Collected: 01/27/10 13:00 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		01/31/10 21:08	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		01/31/10 21:08	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		01/31/10 21:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		01/31/10 21:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		01/31/10 21:08	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		01/31/10 21:08	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		01/31/10 21:08	103-65-1	
Styrene	ND	ug/L	5.0	1		01/31/10 21:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		01/31/10 21:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		01/31/10 21:08	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		01/31/10 21:08	127-18-4	
Toluene	ND	ug/L	5.0	1		01/31/10 21:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		01/31/10 21:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		01/31/10 21:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		01/31/10 21:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		01/31/10 21:08	79-00-5	
Trichloroethene	**49.7**	ug/L	5.0	1		01/31/10 21:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		01/31/10 21:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		01/31/10 21:08	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		01/31/10 21:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		01/31/10 21:08	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		01/31/10 21:08	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		01/31/10 21:08	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		01/31/10 21:08	1330-20-7	
Dibromofluoromethane (S)	104	%	80-123	1		01/31/10 21:08	1868-53-7	
4-Bromofluorobenzene (S)	102	%	70-126	1		01/31/10 21:08	460-00-4	
Toluene-d8 (S)	99	%	80-116	1		01/31/10 21:08	2037-26-5	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-146 **Lab ID: 5034229013** Collected: 01/27/10 14:00 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		01/31/10 21:42	67-64-1	
Acrolein	ND	ug/L	100	1		01/31/10 21:42	107-02-8	
Acrylonitrile	ND	ug/L	100	1		01/31/10 21:42	107-13-1	
Benzene	ND	ug/L	5.0	1		01/31/10 21:42	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		01/31/10 21:42	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		01/31/10 21:42	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		01/31/10 21:42	75-27-4	
Bromoform	ND	ug/L	5.0	1		01/31/10 21:42	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/31/10 21:42	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		01/31/10 21:42	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		01/31/10 21:42	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		01/31/10 21:42	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		01/31/10 21:42	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		01/31/10 21:42	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		01/31/10 21:42	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		01/31/10 21:42	108-90-7	
Chloroethane	ND	ug/L	5.0	1		01/31/10 21:42	75-00-3	
Chloroform	ND	ug/L	5.0	1		01/31/10 21:42	67-66-3	
Chloromethane	ND	ug/L	5.0	1		01/31/10 21:42	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		01/31/10 21:42	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		01/31/10 21:42	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		01/31/10 21:42	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		01/31/10 21:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		01/31/10 21:42	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		01/31/10 21:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 21:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 21:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 21:42	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		01/31/10 21:42	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		01/31/10 21:42	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		01/31/10 21:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		01/31/10 21:42	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		01/31/10 21:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		01/31/10 21:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		01/31/10 21:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		01/31/10 21:42	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		01/31/10 21:42	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		01/31/10 21:42	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		01/31/10 21:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/31/10 21:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		01/31/10 21:42	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		01/31/10 21:42	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		01/31/10 21:42	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		01/31/10 21:42	87-68-3	
n-Hexane	ND	ug/L	5.0	1		01/31/10 21:42	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		01/31/10 21:42	591-78-6	
Iodomethane	ND	ug/L	10.0	1		01/31/10 21:42	74-88-4	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-146 **Lab ID: 5034229013** Collected: 01/27/10 14:00 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		01/31/10 21:42	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		01/31/10 21:42	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		01/31/10 21:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		01/31/10 21:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		01/31/10 21:42	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		01/31/10 21:42	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		01/31/10 21:42	103-65-1	
Styrene	ND	ug/L	5.0	1		01/31/10 21:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		01/31/10 21:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		01/31/10 21:42	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		01/31/10 21:42	127-18-4	
Toluene	ND	ug/L	5.0	1		01/31/10 21:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		01/31/10 21:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		01/31/10 21:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		01/31/10 21:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		01/31/10 21:42	79-00-5	
Trichloroethene	**34.0**	ug/L	5.0	1		01/31/10 21:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		01/31/10 21:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		01/31/10 21:42	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		01/31/10 21:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		01/31/10 21:42	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		01/31/10 21:42	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		01/31/10 21:42	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		01/31/10 21:42	1330-20-7	
Dibromofluoromethane (S)	103	%	80-123	1		01/31/10 21:42	1868-53-7	
4-Bromofluorobenzene (S)	103	%	70-126	1		01/31/10 21:42	460-00-4	
Toluene-d8 (S)	100	%	80-116	1		01/31/10 21:42	2037-26-5	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-302 **Lab ID: 5034229014** Collected: 01/27/10 14:20 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		01/31/10 22:16	67-64-1	
Acrolein	ND	ug/L	100	1		01/31/10 22:16	107-02-8	
Acrylonitrile	ND	ug/L	100	1		01/31/10 22:16	107-13-1	
Benzene	ND	ug/L	5.0	1		01/31/10 22:16	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		01/31/10 22:16	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		01/31/10 22:16	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		01/31/10 22:16	75-27-4	
Bromoform	ND	ug/L	5.0	1		01/31/10 22:16	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/31/10 22:16	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		01/31/10 22:16	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		01/31/10 22:16	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		01/31/10 22:16	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		01/31/10 22:16	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		01/31/10 22:16	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		01/31/10 22:16	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		01/31/10 22:16	108-90-7	
Chloroethane	ND	ug/L	5.0	1		01/31/10 22:16	75-00-3	
Chloroform	ND	ug/L	5.0	1		01/31/10 22:16	67-66-3	
Chloromethane	ND	ug/L	5.0	1		01/31/10 22:16	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		01/31/10 22:16	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		01/31/10 22:16	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		01/31/10 22:16	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		01/31/10 22:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		01/31/10 22:16	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		01/31/10 22:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 22:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 22:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 22:16	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		01/31/10 22:16	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		01/31/10 22:16	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		01/31/10 22:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		01/31/10 22:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		01/31/10 22:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		01/31/10 22:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		01/31/10 22:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		01/31/10 22:16	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		01/31/10 22:16	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		01/31/10 22:16	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		01/31/10 22:16	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/31/10 22:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		01/31/10 22:16	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		01/31/10 22:16	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		01/31/10 22:16	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		01/31/10 22:16	87-68-3	
n-Hexane	ND	ug/L	5.0	1		01/31/10 22:16	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		01/31/10 22:16	591-78-6	
Iodomethane	ND	ug/L	10.0	1		01/31/10 22:16	74-88-4	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-302 **Lab ID: 5034229014** Collected: 01/27/10 14:20 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		01/31/10 22:16	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		01/31/10 22:16	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		01/31/10 22:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		01/31/10 22:16	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		01/31/10 22:16	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		01/31/10 22:16	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		01/31/10 22:16	103-65-1	
Styrene	ND	ug/L	5.0	1		01/31/10 22:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		01/31/10 22:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		01/31/10 22:16	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		01/31/10 22:16	127-18-4	
Toluene	ND	ug/L	5.0	1		01/31/10 22:16	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		01/31/10 22:16	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		01/31/10 22:16	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		01/31/10 22:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		01/31/10 22:16	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		01/31/10 22:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		01/31/10 22:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		01/31/10 22:16	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		01/31/10 22:16	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		01/31/10 22:16	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		01/31/10 22:16	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		01/31/10 22:16	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		01/31/10 22:16	1330-20-7	
Dibromofluoromethane (S)	104	%	80-123	1		01/31/10 22:16	1868-53-7	
4-Bromofluorobenzene (S)	102	%	70-126	1		01/31/10 22:16	460-00-4	
Toluene-d8 (S)	100	%	80-116	1		01/31/10 22:16	2037-26-5	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-160 **Lab ID: 5034229015** Collected: 01/27/10 14:40 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		01/31/10 22:49	67-64-1	
Acrolein	ND	ug/L	100	1		01/31/10 22:49	107-02-8	
Acrylonitrile	ND	ug/L	100	1		01/31/10 22:49	107-13-1	
Benzene	ND	ug/L	5.0	1		01/31/10 22:49	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		01/31/10 22:49	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		01/31/10 22:49	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		01/31/10 22:49	75-27-4	
Bromoform	ND	ug/L	5.0	1		01/31/10 22:49	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/31/10 22:49	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		01/31/10 22:49	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		01/31/10 22:49	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		01/31/10 22:49	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		01/31/10 22:49	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		01/31/10 22:49	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		01/31/10 22:49	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		01/31/10 22:49	108-90-7	
Chloroethane	ND	ug/L	5.0	1		01/31/10 22:49	75-00-3	
Chloroform	ND	ug/L	5.0	1		01/31/10 22:49	67-66-3	
Chloromethane	ND	ug/L	5.0	1		01/31/10 22:49	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		01/31/10 22:49	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		01/31/10 22:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		01/31/10 22:49	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		01/31/10 22:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		01/31/10 22:49	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		01/31/10 22:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 22:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 22:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 22:49	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		01/31/10 22:49	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		01/31/10 22:49	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		01/31/10 22:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		01/31/10 22:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		01/31/10 22:49	75-35-4	
cis-1,2-Dichloroethene	**16.5**	ug/L	5.0	1		01/31/10 22:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		01/31/10 22:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		01/31/10 22:49	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		01/31/10 22:49	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		01/31/10 22:49	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		01/31/10 22:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/31/10 22:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		01/31/10 22:49	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		01/31/10 22:49	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		01/31/10 22:49	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		01/31/10 22:49	87-68-3	
n-Hexane	ND	ug/L	5.0	1		01/31/10 22:49	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		01/31/10 22:49	591-78-6	
Iodomethane	ND	ug/L	10.0	1		01/31/10 22:49	74-88-4	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-160 **Lab ID: 5034229015** Collected: 01/27/10 14:40 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		01/31/10 22:49	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		01/31/10 22:49	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		01/31/10 22:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		01/31/10 22:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		01/31/10 22:49	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		01/31/10 22:49	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		01/31/10 22:49	103-65-1	
Styrene	ND	ug/L	5.0	1		01/31/10 22:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		01/31/10 22:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		01/31/10 22:49	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		01/31/10 22:49	127-18-4	
Toluene	ND	ug/L	5.0	1		01/31/10 22:49	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		01/31/10 22:49	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		01/31/10 22:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		01/31/10 22:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		01/31/10 22:49	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		01/31/10 22:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		01/31/10 22:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		01/31/10 22:49	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		01/31/10 22:49	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		01/31/10 22:49	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		01/31/10 22:49	108-05-4	
Vinyl chloride	**2.3**	ug/L	2.0	1		01/31/10 22:49	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		01/31/10 22:49	1330-20-7	
Dibromofluoromethane (S)	103	%	80-123	1		01/31/10 22:49	1868-53-7	
4-Bromofluorobenzene (S)	104	%	70-126	1		01/31/10 22:49	460-00-4	
Toluene-d8 (S)	101	%	80-116	1		01/31/10 22:49	2037-26-5	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-161 **Lab ID: 5034229016** Collected: 01/27/10 15:00 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		01/31/10 23:23	67-64-1	
Acrolein	ND	ug/L	100	1		01/31/10 23:23	107-02-8	
Acrylonitrile	ND	ug/L	100	1		01/31/10 23:23	107-13-1	
Benzene	ND	ug/L	5.0	1		01/31/10 23:23	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		01/31/10 23:23	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		01/31/10 23:23	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		01/31/10 23:23	75-27-4	
Bromoform	ND	ug/L	5.0	1		01/31/10 23:23	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/31/10 23:23	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		01/31/10 23:23	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		01/31/10 23:23	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		01/31/10 23:23	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		01/31/10 23:23	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		01/31/10 23:23	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		01/31/10 23:23	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		01/31/10 23:23	108-90-7	
Chloroethane	ND	ug/L	5.0	1		01/31/10 23:23	75-00-3	
Chloroform	ND	ug/L	5.0	1		01/31/10 23:23	67-66-3	
Chloromethane	ND	ug/L	5.0	1		01/31/10 23:23	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		01/31/10 23:23	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		01/31/10 23:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		01/31/10 23:23	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		01/31/10 23:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		01/31/10 23:23	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		01/31/10 23:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 23:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 23:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 23:23	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		01/31/10 23:23	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		01/31/10 23:23	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		01/31/10 23:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		01/31/10 23:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		01/31/10 23:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		01/31/10 23:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		01/31/10 23:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		01/31/10 23:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		01/31/10 23:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		01/31/10 23:23	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		01/31/10 23:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/31/10 23:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		01/31/10 23:23	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		01/31/10 23:23	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		01/31/10 23:23	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		01/31/10 23:23	87-68-3	
n-Hexane	ND	ug/L	5.0	1		01/31/10 23:23	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		01/31/10 23:23	591-78-6	
Iodomethane	ND	ug/L	10.0	1		01/31/10 23:23	74-88-4	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-161 **Lab ID: 5034229016** Collected: 01/27/10 15:00 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		01/31/10 23:23	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		01/31/10 23:23	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		01/31/10 23:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		01/31/10 23:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		01/31/10 23:23	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		01/31/10 23:23	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		01/31/10 23:23	103-65-1	
Styrene	ND	ug/L	5.0	1		01/31/10 23:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		01/31/10 23:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		01/31/10 23:23	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		01/31/10 23:23	127-18-4	
Toluene	ND	ug/L	5.0	1		01/31/10 23:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		01/31/10 23:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		01/31/10 23:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		01/31/10 23:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		01/31/10 23:23	79-00-5	
Trichloroethene	**10.1**	ug/L	5.0	1		01/31/10 23:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		01/31/10 23:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		01/31/10 23:23	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		01/31/10 23:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		01/31/10 23:23	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		01/31/10 23:23	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		01/31/10 23:23	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		01/31/10 23:23	1330-20-7	
Dibromofluoromethane (S)	104	%	80-123	1		01/31/10 23:23	1868-53-7	
4-Bromofluorobenzene (S)	103	%	70-126	1		01/31/10 23:23	460-00-4	
Toluene-d8 (S)	100	%	80-116	1		01/31/10 23:23	2037-26-5	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: EQU. BLANK **Lab ID: 5034229017** Collected: 01/27/10 15:00 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		01/31/10 23:57	67-64-1	
Acrolein	ND	ug/L	100	1		01/31/10 23:57	107-02-8	
Acrylonitrile	ND	ug/L	100	1		01/31/10 23:57	107-13-1	
Benzene	ND	ug/L	5.0	1		01/31/10 23:57	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		01/31/10 23:57	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		01/31/10 23:57	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		01/31/10 23:57	75-27-4	
Bromoform	ND	ug/L	5.0	1		01/31/10 23:57	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/31/10 23:57	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		01/31/10 23:57	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		01/31/10 23:57	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		01/31/10 23:57	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		01/31/10 23:57	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		01/31/10 23:57	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		01/31/10 23:57	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		01/31/10 23:57	108-90-7	
Chloroethane	ND	ug/L	5.0	1		01/31/10 23:57	75-00-3	
Chloroform	ND	ug/L	5.0	1		01/31/10 23:57	67-66-3	
Chloromethane	ND	ug/L	5.0	1		01/31/10 23:57	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		01/31/10 23:57	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		01/31/10 23:57	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		01/31/10 23:57	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		01/31/10 23:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		01/31/10 23:57	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		01/31/10 23:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 23:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 23:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		01/31/10 23:57	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		01/31/10 23:57	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		01/31/10 23:57	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		01/31/10 23:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		01/31/10 23:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		01/31/10 23:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		01/31/10 23:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		01/31/10 23:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		01/31/10 23:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		01/31/10 23:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		01/31/10 23:57	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		01/31/10 23:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/31/10 23:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		01/31/10 23:57	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		01/31/10 23:57	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		01/31/10 23:57	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		01/31/10 23:57	87-68-3	
n-Hexane	ND	ug/L	5.0	1		01/31/10 23:57	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		01/31/10 23:57	591-78-6	
Iodomethane	ND	ug/L	10.0	1		01/31/10 23:57	74-88-4	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: EQU. BLANK **Lab ID: 5034229017** Collected: 01/27/10 15:00 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		01/31/10 23:57	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		01/31/10 23:57	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		01/31/10 23:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		01/31/10 23:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		01/31/10 23:57	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		01/31/10 23:57	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		01/31/10 23:57	103-65-1	
Styrene	ND	ug/L	5.0	1		01/31/10 23:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		01/31/10 23:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		01/31/10 23:57	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		01/31/10 23:57	127-18-4	
Toluene	ND	ug/L	5.0	1		01/31/10 23:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		01/31/10 23:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		01/31/10 23:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		01/31/10 23:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		01/31/10 23:57	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		01/31/10 23:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		01/31/10 23:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		01/31/10 23:57	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		01/31/10 23:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		01/31/10 23:57	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		01/31/10 23:57	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		01/31/10 23:57	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		01/31/10 23:57	1330-20-7	
Dibromofluoromethane (S)	103	%	80-123	1		01/31/10 23:57	1868-53-7	
4-Bromofluorobenzene (S)	102	%	70-126	1		01/31/10 23:57	460-00-4	
Toluene-d8 (S)	99	%	80-116	1		01/31/10 23:57	2037-26-5	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-147AR **Lab ID: 5034231001** Collected: 01/27/10 09:00 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		02/01/10 15:00	67-64-1	
Acrolein	ND	ug/L	100	1		02/01/10 15:00	107-02-8	
Acrylonitrile	ND	ug/L	100	1		02/01/10 15:00	107-13-1	
Benzene	ND	ug/L	5.0	1		02/01/10 15:00	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		02/01/10 15:00	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		02/01/10 15:00	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/01/10 15:00	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/01/10 15:00	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/01/10 15:00	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		02/01/10 15:00	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		02/01/10 15:00	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		02/01/10 15:00	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		02/01/10 15:00	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		02/01/10 15:00	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/01/10 15:00	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/01/10 15:00	108-90-7	
Chloroethane	ND	ug/L	5.0	1		02/01/10 15:00	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/01/10 15:00	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/01/10 15:00	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		02/01/10 15:00	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		02/01/10 15:00	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/01/10 15:00	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/01/10 15:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/01/10 15:00	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		02/01/10 15:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/01/10 15:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/01/10 15:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/01/10 15:00	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		02/01/10 15:00	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/01/10 15:00	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/01/10 15:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/01/10 15:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/01/10 15:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/01/10 15:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/01/10 15:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/01/10 15:00	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		02/01/10 15:00	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		02/01/10 15:00	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		02/01/10 15:00	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/01/10 15:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/01/10 15:00	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/01/10 15:00	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		02/01/10 15:00	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		02/01/10 15:00	87-68-3	
n-Hexane	ND	ug/L	5.0	1		02/01/10 15:00	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		02/01/10 15:00	591-78-6	
Iodomethane	ND	ug/L	10.0	1		02/01/10 15:00	74-88-4	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-147AR **Lab ID: 5034231001** Collected: 01/27/10 09:00 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		02/01/10 15:00	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		02/01/10 15:00	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		02/01/10 15:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		02/01/10 15:00	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		02/01/10 15:00	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		02/01/10 15:00	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		02/01/10 15:00	103-65-1	
Styrene	ND	ug/L	5.0	1		02/01/10 15:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/01/10 15:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/01/10 15:00	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/01/10 15:00	127-18-4	
Toluene	ND	ug/L	5.0	1		02/01/10 15:00	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		02/01/10 15:00	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		02/01/10 15:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/01/10 15:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/01/10 15:00	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/01/10 15:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/01/10 15:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/01/10 15:00	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		02/01/10 15:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		02/01/10 15:00	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		02/01/10 15:00	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/01/10 15:00	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/01/10 15:00	1330-20-7	
Dibromofluoromethane (S)	103	%	80-123	1		02/01/10 15:00	1868-53-7	
4-Bromofluorobenzene (S)	100	%	70-126	1		02/01/10 15:00	460-00-4	
Toluene-d8 (S)	108	%	80-116	1		02/01/10 15:00	2037-26-5	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-173 **Lab ID: 5034231002** Collected: 01/27/10 11:40 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		02/01/10 15:35	67-64-1	
Acrolein	ND	ug/L	100	1		02/01/10 15:35	107-02-8	
Acrylonitrile	ND	ug/L	100	1		02/01/10 15:35	107-13-1	
Benzene	ND	ug/L	5.0	1		02/01/10 15:35	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		02/01/10 15:35	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		02/01/10 15:35	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/01/10 15:35	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/01/10 15:35	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/01/10 15:35	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		02/01/10 15:35	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		02/01/10 15:35	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		02/01/10 15:35	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		02/01/10 15:35	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		02/01/10 15:35	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/01/10 15:35	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/01/10 15:35	108-90-7	
Chloroethane	ND	ug/L	5.0	1		02/01/10 15:35	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/01/10 15:35	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/01/10 15:35	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		02/01/10 15:35	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		02/01/10 15:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/01/10 15:35	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/01/10 15:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/01/10 15:35	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		02/01/10 15:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/01/10 15:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/01/10 15:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/01/10 15:35	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		02/01/10 15:35	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/01/10 15:35	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/01/10 15:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/01/10 15:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/01/10 15:35	75-35-4	
cis-1,2-Dichloroethene	**10**	ug/L	5.0	1		02/01/10 15:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/01/10 15:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/01/10 15:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		02/01/10 15:35	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		02/01/10 15:35	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		02/01/10 15:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/01/10 15:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/01/10 15:35	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/01/10 15:35	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		02/01/10 15:35	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		02/01/10 15:35	87-68-3	
n-Hexane	ND	ug/L	5.0	1		02/01/10 15:35	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		02/01/10 15:35	591-78-6	
Iodomethane	ND	ug/L	10.0	1		02/01/10 15:35	74-88-4	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-173 **Lab ID: 5034231002** Collected: 01/27/10 11:40 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		02/01/10 15:35	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		02/01/10 15:35	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		02/01/10 15:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		02/01/10 15:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		02/01/10 15:35	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		02/01/10 15:35	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		02/01/10 15:35	103-65-1	
Styrene	ND	ug/L	5.0	1		02/01/10 15:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/01/10 15:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/01/10 15:35	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/01/10 15:35	127-18-4	
Toluene	ND	ug/L	5.0	1		02/01/10 15:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		02/01/10 15:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		02/01/10 15:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/01/10 15:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/01/10 15:35	79-00-5	
Trichloroethene	**148**	ug/L	5.0	1		02/01/10 15:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/01/10 15:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/01/10 15:35	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		02/01/10 15:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		02/01/10 15:35	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		02/01/10 15:35	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/01/10 15:35	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/01/10 15:35	1330-20-7	
Dibromofluoromethane (S)	99	%	80-123	1		02/01/10 15:35	1868-53-7	
4-Bromofluorobenzene (S)	100	%	70-126	1		02/01/10 15:35	460-00-4	
Toluene-d8 (S)	109	%	80-116	1		02/01/10 15:35	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.0**	mg/L	1.0	1		02/03/10 19:02	7440-44-0	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-163 **Lab ID: 5034231003** Collected: 01/27/10 11:20 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		02/01/10 16:09	67-64-1	
Acrolein	ND	ug/L	100	1		02/01/10 16:09	107-02-8	
Acrylonitrile	ND	ug/L	100	1		02/01/10 16:09	107-13-1	
Benzene	ND	ug/L	5.0	1		02/01/10 16:09	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		02/01/10 16:09	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		02/01/10 16:09	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/01/10 16:09	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/01/10 16:09	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/01/10 16:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		02/01/10 16:09	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		02/01/10 16:09	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		02/01/10 16:09	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		02/01/10 16:09	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		02/01/10 16:09	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/01/10 16:09	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/01/10 16:09	108-90-7	
Chloroethane	ND	ug/L	5.0	1		02/01/10 16:09	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/01/10 16:09	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/01/10 16:09	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		02/01/10 16:09	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		02/01/10 16:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/01/10 16:09	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/01/10 16:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/01/10 16:09	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		02/01/10 16:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/01/10 16:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/01/10 16:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/01/10 16:09	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		02/01/10 16:09	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/01/10 16:09	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/01/10 16:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/01/10 16:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/01/10 16:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/01/10 16:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/01/10 16:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/01/10 16:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		02/01/10 16:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		02/01/10 16:09	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		02/01/10 16:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/01/10 16:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/01/10 16:09	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/01/10 16:09	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		02/01/10 16:09	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		02/01/10 16:09	87-68-3	
n-Hexane	ND	ug/L	5.0	1		02/01/10 16:09	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		02/01/10 16:09	591-78-6	
Iodomethane	ND	ug/L	10.0	1		02/01/10 16:09	74-88-4	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-163 **Lab ID: 5034231003** Collected: 01/27/10 11:20 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		02/01/10 16:09	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		02/01/10 16:09	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		02/01/10 16:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		02/01/10 16:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		02/01/10 16:09	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		02/01/10 16:09	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		02/01/10 16:09	103-65-1	
Styrene	ND	ug/L	5.0	1		02/01/10 16:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/01/10 16:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/01/10 16:09	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/01/10 16:09	127-18-4	
Toluene	ND	ug/L	5.0	1		02/01/10 16:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		02/01/10 16:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		02/01/10 16:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/01/10 16:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/01/10 16:09	79-00-5	
Trichloroethene	**67.0**	ug/L	5.0	1		02/01/10 16:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/01/10 16:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/01/10 16:09	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		02/01/10 16:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		02/01/10 16:09	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		02/01/10 16:09	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/01/10 16:09	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/01/10 16:09	1330-20-7	
Dibromofluoromethane (S)	101	%	80-123	1		02/01/10 16:09	1868-53-7	
4-Bromofluorobenzene (S)	98	%	70-126	1		02/01/10 16:09	460-00-4	
Toluene-d8 (S)	111	%	80-116	1		02/01/10 16:09	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.0**	mg/L	1.0	1		02/03/10 19:10	7440-44-0	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: IW-1 **Lab ID: 5034231004** Collected: 01/27/10 11:00 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		02/01/10 16:43	67-64-1	
Acrolein	ND	ug/L	100	1		02/01/10 16:43	107-02-8	
Acrylonitrile	ND	ug/L	100	1		02/01/10 16:43	107-13-1	
Benzene	ND	ug/L	5.0	1		02/01/10 16:43	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		02/01/10 16:43	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		02/01/10 16:43	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/01/10 16:43	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/01/10 16:43	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/01/10 16:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		02/01/10 16:43	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		02/01/10 16:43	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		02/01/10 16:43	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		02/01/10 16:43	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		02/01/10 16:43	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/01/10 16:43	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/01/10 16:43	108-90-7	
Chloroethane	ND	ug/L	5.0	1		02/01/10 16:43	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/01/10 16:43	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/01/10 16:43	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		02/01/10 16:43	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		02/01/10 16:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/01/10 16:43	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/01/10 16:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/01/10 16:43	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		02/01/10 16:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/01/10 16:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/01/10 16:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/01/10 16:43	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		02/01/10 16:43	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/01/10 16:43	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/01/10 16:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/01/10 16:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/01/10 16:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/01/10 16:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/01/10 16:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/01/10 16:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		02/01/10 16:43	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		02/01/10 16:43	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		02/01/10 16:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/01/10 16:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/01/10 16:43	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/01/10 16:43	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		02/01/10 16:43	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		02/01/10 16:43	87-68-3	
n-Hexane	ND	ug/L	5.0	1		02/01/10 16:43	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		02/01/10 16:43	591-78-6	
Iodomethane	ND	ug/L	10.0	1		02/01/10 16:43	74-88-4	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: IW-1 **Lab ID: 5034231004** Collected: 01/27/10 11:00 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		02/01/10 16:43	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		02/01/10 16:43	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		02/01/10 16:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		02/01/10 16:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		02/01/10 16:43	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		02/01/10 16:43	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		02/01/10 16:43	103-65-1	
Styrene	ND	ug/L	5.0	1		02/01/10 16:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/01/10 16:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/01/10 16:43	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/01/10 16:43	127-18-4	
Toluene	ND	ug/L	5.0	1		02/01/10 16:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		02/01/10 16:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		02/01/10 16:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/01/10 16:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/01/10 16:43	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/01/10 16:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/01/10 16:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/01/10 16:43	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		02/01/10 16:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		02/01/10 16:43	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		02/01/10 16:43	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/01/10 16:43	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/01/10 16:43	1330-20-7	
Dibromofluoromethane (S)	104	%	80-123	1		02/01/10 16:43	1868-53-7	
4-Bromofluorobenzene (S)	99	%	70-126	1		02/01/10 16:43	460-00-4	
Toluene-d8 (S)	113	%	80-116	1		02/01/10 16:43	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.0**	mg/L	1.0	1		02/03/10 19:19	7440-44-0	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: IW-2 **Lab ID: 5034231005** Collected: 01/27/10 10:40 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		02/01/10 17:16	67-64-1	
Acrolein	ND	ug/L	50.0	1		02/01/10 17:16	107-02-8	
Acrylonitrile	ND	ug/L	100	1		02/01/10 17:16	107-13-1	
Benzene	ND	ug/L	5.0	1		02/01/10 17:16	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		02/01/10 17:16	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		02/01/10 17:16	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/01/10 17:16	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/01/10 17:16	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/01/10 17:16	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		02/01/10 17:16	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		02/01/10 17:16	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		02/01/10 17:16	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		02/01/10 17:16	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		02/01/10 17:16	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/01/10 17:16	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/01/10 17:16	108-90-7	
Chloroethane	ND	ug/L	5.0	1		02/01/10 17:16	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/01/10 17:16	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/01/10 17:16	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		02/01/10 17:16	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		02/01/10 17:16	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/01/10 17:16	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/01/10 17:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/01/10 17:16	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		02/01/10 17:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/01/10 17:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/01/10 17:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/01/10 17:16	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		02/01/10 17:16	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/01/10 17:16	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/01/10 17:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/01/10 17:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/01/10 17:16	75-35-4	
cis-1,2-Dichloroethene	**14.9**	ug/L	5.0	1		02/01/10 17:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/01/10 17:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/01/10 17:16	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		02/01/10 17:16	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		02/01/10 17:16	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		02/01/10 17:16	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/01/10 17:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/01/10 17:16	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/01/10 17:16	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		02/01/10 17:16	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		02/01/10 17:16	87-68-3	
n-Hexane	ND	ug/L	5.0	1		02/01/10 17:16	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		02/01/10 17:16	591-78-6	
Iodomethane	ND	ug/L	10.0	1		02/01/10 17:16	74-88-4	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: IW-2 **Lab ID: 5034231005** Collected: 01/27/10 10:40 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		02/01/10 17:16	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		02/01/10 17:16	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		02/01/10 17:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		02/01/10 17:16	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		02/01/10 17:16	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		02/02/10 14:01	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		02/01/10 17:16	103-65-1	
Styrene	ND	ug/L	5.0	1		02/01/10 17:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/01/10 17:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/01/10 17:16	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/01/10 17:16	127-18-4	
Toluene	ND	ug/L	5.0	1		02/01/10 17:16	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		02/01/10 17:16	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		02/01/10 17:16	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/01/10 17:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/01/10 17:16	79-00-5	
Trichloroethene	**67.0**	ug/L	5.0	1		02/01/10 17:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/01/10 17:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/01/10 17:16	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		02/01/10 17:16	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		02/01/10 17:16	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		02/01/10 17:16	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/01/10 17:16	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/01/10 17:16	1330-20-7	
Dibromofluoromethane (S)	101	%	80-123	1		02/01/10 17:16	1868-53-7	
4-Bromofluorobenzene (S)	96	%	70-126	1		02/01/10 17:16	460-00-4	
Toluene-d8 (S)	113	%	80-116	1		02/01/10 17:16	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.6**	mg/L	1.0	1		02/03/10 19:26	7440-44-0	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-133R **Lab ID: 5034231006** Collected: 01/27/10 13:30 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		02/01/10 17:50	67-64-1	
Acrolein	ND	ug/L	50.0	1		02/01/10 17:50	107-02-8	
Acrylonitrile	ND	ug/L	100	1		02/01/10 17:50	107-13-1	
Benzene	ND	ug/L	5.0	1		02/01/10 17:50	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		02/01/10 17:50	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		02/01/10 17:50	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/01/10 17:50	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/01/10 17:50	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/01/10 17:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		02/01/10 17:50	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		02/01/10 17:50	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		02/01/10 17:50	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		02/01/10 17:50	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		02/01/10 17:50	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/01/10 17:50	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/01/10 17:50	108-90-7	
Chloroethane	ND	ug/L	5.0	1		02/01/10 17:50	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/01/10 17:50	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/01/10 17:50	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		02/01/10 17:50	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		02/01/10 17:50	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/01/10 17:50	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/01/10 17:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/01/10 17:50	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		02/01/10 17:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/01/10 17:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/01/10 17:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/01/10 17:50	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		02/01/10 17:50	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/01/10 17:50	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/01/10 17:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/01/10 17:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/01/10 17:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/01/10 17:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/01/10 17:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/01/10 17:50	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		02/01/10 17:50	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		02/01/10 17:50	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		02/01/10 17:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/01/10 17:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/01/10 17:50	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/01/10 17:50	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		02/01/10 17:50	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		02/01/10 17:50	87-68-3	
n-Hexane	ND	ug/L	5.0	1		02/01/10 17:50	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		02/01/10 17:50	591-78-6	
Iodomethane	ND	ug/L	10.0	1		02/01/10 17:50	74-88-4	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-133R **Lab ID: 5034231006** Collected: 01/27/10 13:30 Received: 01/27/10 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		02/01/10 17:50	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		02/01/10 17:50	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		02/01/10 17:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		02/01/10 17:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		02/01/10 17:50	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		02/02/10 14:35	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		02/01/10 17:50	103-65-1	
Styrene	ND	ug/L	5.0	1		02/01/10 17:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/01/10 17:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/01/10 17:50	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/01/10 17:50	127-18-4	
Toluene	ND	ug/L	5.0	1		02/01/10 17:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		02/01/10 17:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		02/01/10 17:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/01/10 17:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/01/10 17:50	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/01/10 17:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/01/10 17:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/01/10 17:50	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		02/01/10 17:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		02/01/10 17:50	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		02/01/10 17:50	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/01/10 17:50	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/01/10 17:50	1330-20-7	
Dibromofluoromethane (S)	100	%	80-123	1		02/01/10 17:50	1868-53-7	
4-Bromofluorobenzene (S)	98	%	70-126	1		02/01/10 17:50	460-00-4	
Toluene-d8 (S)	114	%	80-116	1		02/01/10 17:50	2037-26-5	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-169S **Lab ID: 5034508001** Collected: 02/03/10 10:30 Received: 02/06/10 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		02/09/10 15:19	67-64-1	
Acrolein	ND	ug/L	50.0	1		02/09/10 15:19	107-02-8	
Acrylonitrile	ND	ug/L	100	1		02/09/10 15:19	107-13-1	
Benzene	ND	ug/L	5.0	1		02/09/10 15:19	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		02/09/10 15:19	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		02/09/10 15:19	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/09/10 15:19	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/09/10 15:19	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/09/10 15:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		02/09/10 15:19	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		02/09/10 15:19	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		02/09/10 15:19	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		02/09/10 15:19	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		02/09/10 15:19	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/09/10 15:19	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/09/10 15:19	108-90-7	
Chloroethane	ND	ug/L	5.0	1		02/09/10 15:19	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/09/10 15:19	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/09/10 15:19	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		02/09/10 15:19	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		02/09/10 15:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/09/10 15:19	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/09/10 15:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/09/10 15:19	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		02/09/10 15:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/09/10 15:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/09/10 15:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/09/10 15:19	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		02/09/10 15:19	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/09/10 15:19	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/09/10 15:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/09/10 15:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/09/10 15:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/09/10 15:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/09/10 15:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/09/10 15:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		02/09/10 15:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		02/09/10 15:19	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		02/09/10 15:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/09/10 15:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/09/10 15:19	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/09/10 15:19	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		02/09/10 15:19	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		02/09/10 15:19	87-68-3	
n-Hexane	ND	ug/L	5.0	1		02/09/10 15:19	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		02/09/10 15:19	591-78-6	
Iodomethane	ND	ug/L	10.0	1		02/09/10 15:19	74-88-4	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-169S **Lab ID: 5034508001** Collected: 02/03/10 10:30 Received: 02/06/10 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		02/09/10 15:19	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		02/09/10 15:19	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		02/09/10 15:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		02/09/10 15:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		02/09/10 15:19	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		02/09/10 15:19	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		02/09/10 15:19	103-65-1	
Styrene	ND	ug/L	5.0	1		02/09/10 15:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/09/10 15:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/09/10 15:19	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/09/10 15:19	127-18-4	
Toluene	ND	ug/L	5.0	1		02/09/10 15:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		02/09/10 15:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		02/09/10 15:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/09/10 15:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/09/10 15:19	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/09/10 15:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/09/10 15:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/09/10 15:19	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		02/09/10 15:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		02/09/10 15:19	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		02/09/10 15:19	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/09/10 15:19	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/09/10 15:19	1330-20-7	
Dibromofluoromethane (S)	102	%	80-123	1		02/09/10 15:19	1868-53-7	
4-Bromofluorobenzene (S)	99	%	70-126	1		02/09/10 15:19	460-00-4	
Toluene-d8 (S)	114	%	80-116	1		02/09/10 15:19	2037-26-5	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-169D **Lab ID: 5034508002** Collected: 02/03/10 10:00 Received: 02/06/10 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		02/09/10 15:53	67-64-1	
Acrolein	ND	ug/L	50.0	1		02/09/10 15:53	107-02-8	
Acrylonitrile	ND	ug/L	100	1		02/09/10 15:53	107-13-1	
Benzene	ND	ug/L	5.0	1		02/09/10 15:53	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		02/09/10 15:53	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		02/09/10 15:53	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/09/10 15:53	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/09/10 15:53	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/09/10 15:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		02/09/10 15:53	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		02/09/10 15:53	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		02/09/10 15:53	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		02/09/10 15:53	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		02/09/10 15:53	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/09/10 15:53	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/09/10 15:53	108-90-7	
Chloroethane	ND	ug/L	5.0	1		02/09/10 15:53	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/09/10 15:53	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/09/10 15:53	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		02/09/10 15:53	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		02/09/10 15:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/09/10 15:53	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/09/10 15:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/09/10 15:53	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		02/09/10 15:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/09/10 15:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/09/10 15:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/09/10 15:53	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		02/09/10 15:53	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/09/10 15:53	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/09/10 15:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/09/10 15:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/09/10 15:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/09/10 15:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/09/10 15:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/09/10 15:53	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		02/09/10 15:53	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		02/09/10 15:53	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		02/09/10 15:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/09/10 15:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/09/10 15:53	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/09/10 15:53	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		02/09/10 15:53	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		02/09/10 15:53	87-68-3	
n-Hexane	ND	ug/L	5.0	1		02/09/10 15:53	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		02/09/10 15:53	591-78-6	
Iodomethane	ND	ug/L	10.0	1		02/09/10 15:53	74-88-4	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-169D **Lab ID: 5034508002** Collected: 02/03/10 10:00 Received: 02/06/10 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		02/09/10 15:53	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		02/09/10 15:53	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		02/09/10 15:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		02/09/10 15:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		02/09/10 15:53	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		02/09/10 15:53	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		02/09/10 15:53	103-65-1	
Styrene	ND	ug/L	5.0	1		02/09/10 15:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/09/10 15:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/09/10 15:53	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/09/10 15:53	127-18-4	
Toluene	ND	ug/L	5.0	1		02/09/10 15:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		02/09/10 15:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		02/09/10 15:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/09/10 15:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/09/10 15:53	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/09/10 15:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/09/10 15:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/09/10 15:53	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		02/09/10 15:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		02/09/10 15:53	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		02/09/10 15:53	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/09/10 15:53	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/09/10 15:53	1330-20-7	
Dibromofluoromethane (S)	102	%	80-123	1		02/09/10 15:53	1868-53-7	
4-Bromofluorobenzene (S)	98	%	70-126	1		02/09/10 15:53	460-00-4	
Toluene-d8 (S)	112	%	80-116	1		02/09/10 15:53	2037-26-5	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-167S **Lab ID: 5034508003** Collected: 02/03/10 13:00 Received: 02/06/10 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		02/09/10 16:27	67-64-1	
Acrolein	ND	ug/L	50.0	1		02/09/10 16:27	107-02-8	
Acrylonitrile	ND	ug/L	100	1		02/09/10 16:27	107-13-1	
Benzene	ND	ug/L	5.0	1		02/09/10 16:27	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		02/09/10 16:27	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		02/09/10 16:27	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/09/10 16:27	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/09/10 16:27	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/09/10 16:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		02/09/10 16:27	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		02/09/10 16:27	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		02/09/10 16:27	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		02/09/10 16:27	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		02/09/10 16:27	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/09/10 16:27	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/09/10 16:27	108-90-7	
Chloroethane	ND	ug/L	5.0	1		02/09/10 16:27	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/09/10 16:27	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/09/10 16:27	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		02/09/10 16:27	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		02/09/10 16:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/09/10 16:27	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/09/10 16:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/09/10 16:27	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		02/09/10 16:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/09/10 16:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/09/10 16:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/09/10 16:27	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		02/09/10 16:27	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/09/10 16:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/09/10 16:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/09/10 16:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/09/10 16:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/09/10 16:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/09/10 16:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/09/10 16:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		02/09/10 16:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		02/09/10 16:27	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		02/09/10 16:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/09/10 16:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/09/10 16:27	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/09/10 16:27	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		02/09/10 16:27	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		02/09/10 16:27	87-68-3	
n-Hexane	ND	ug/L	5.0	1		02/09/10 16:27	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		02/09/10 16:27	591-78-6	
Iodomethane	ND	ug/L	10.0	1		02/09/10 16:27	74-88-4	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-167S **Lab ID: 5034508003** Collected: 02/03/10 13:00 Received: 02/06/10 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		02/09/10 16:27	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		02/09/10 16:27	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		02/09/10 16:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		02/09/10 16:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		02/09/10 16:27	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		02/09/10 16:27	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		02/09/10 16:27	103-65-1	
Styrene	ND	ug/L	5.0	1		02/09/10 16:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/09/10 16:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/09/10 16:27	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/09/10 16:27	127-18-4	
Toluene	ND	ug/L	5.0	1		02/09/10 16:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		02/09/10 16:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		02/09/10 16:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/09/10 16:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/09/10 16:27	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/09/10 16:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/09/10 16:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/09/10 16:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		02/09/10 16:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		02/09/10 16:27	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		02/09/10 16:27	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/09/10 16:27	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/09/10 16:27	1330-20-7	
Dibromofluoromethane (S)	101	%	80-123	1		02/09/10 16:27	1868-53-7	
4-Bromofluorobenzene (S)	99	%	70-126	1		02/09/10 16:27	460-00-4	
Toluene-d8 (S)	113	%	80-116	1		02/09/10 16:27	2037-26-5	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-167D **Lab ID: 5034508004** Collected: 02/03/10 13:30 Received: 02/06/10 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		02/09/10 17:36	67-64-1	
Acrolein	ND	ug/L	50.0	1		02/09/10 17:36	107-02-8	
Acrylonitrile	ND	ug/L	100	1		02/09/10 17:36	107-13-1	
Benzene	ND	ug/L	5.0	1		02/09/10 17:36	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		02/09/10 17:36	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		02/09/10 17:36	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/09/10 17:36	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/09/10 17:36	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/09/10 17:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		02/09/10 17:36	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		02/09/10 17:36	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		02/09/10 17:36	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		02/09/10 17:36	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		02/09/10 17:36	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/09/10 17:36	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/09/10 17:36	108-90-7	
Chloroethane	ND	ug/L	5.0	1		02/09/10 17:36	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/09/10 17:36	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/09/10 17:36	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		02/09/10 17:36	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		02/09/10 17:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/09/10 17:36	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/09/10 17:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/09/10 17:36	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		02/09/10 17:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/09/10 17:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/09/10 17:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/09/10 17:36	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		02/09/10 17:36	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/09/10 17:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/09/10 17:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/09/10 17:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/09/10 17:36	75-35-4	
cis-1,2-Dichloroethene	**419**	ug/L	50.0	10		02/10/10 14:19	156-59-2	
trans-1,2-Dichloroethene	**22.7**	ug/L	5.0	1		02/09/10 17:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/09/10 17:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		02/09/10 17:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		02/09/10 17:36	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		02/09/10 17:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/09/10 17:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/09/10 17:36	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/09/10 17:36	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		02/09/10 17:36	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		02/09/10 17:36	87-68-3	
n-Hexane	ND	ug/L	5.0	1		02/09/10 17:36	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		02/09/10 17:36	591-78-6	
Iodomethane	ND	ug/L	10.0	1		02/09/10 17:36	74-88-4	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-167D **Lab ID: 5034508004** Collected: 02/03/10 13:30 Received: 02/06/10 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		02/09/10 17:36	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		02/09/10 17:36	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		02/09/10 17:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		02/09/10 17:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		02/09/10 17:36	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		02/09/10 17:36	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		02/09/10 17:36	103-65-1	
Styrene	ND	ug/L	5.0	1		02/09/10 17:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/09/10 17:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/09/10 17:36	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/09/10 17:36	127-18-4	
Toluene	ND	ug/L	5.0	1		02/09/10 17:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		02/09/10 17:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		02/09/10 17:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/09/10 17:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/09/10 17:36	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/09/10 17:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/09/10 17:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/09/10 17:36	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		02/09/10 17:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		02/09/10 17:36	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		02/09/10 17:36	108-05-4	
Vinyl chloride	**16.5**	ug/L	2.0	1		02/09/10 17:36	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/09/10 17:36	1330-20-7	
Dibromofluoromethane (S)	96	%	80-123	1		02/09/10 17:36	1868-53-7	
4-Bromofluorobenzene (S)	98	%	70-126	1		02/09/10 17:36	460-00-4	
Toluene-d8 (S)	114	%	80-116	1		02/09/10 17:36	2037-26-5	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: DUP-03 **Lab ID: 5034508005** Collected: 02/03/10 08:00 Received: 02/06/10 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		02/09/10 18:10	67-64-1	
Acrolein	ND	ug/L	50.0	1		02/09/10 18:10	107-02-8	
Acrylonitrile	ND	ug/L	100	1		02/09/10 18:10	107-13-1	
Benzene	ND	ug/L	5.0	1		02/09/10 18:10	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		02/09/10 18:10	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		02/09/10 18:10	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/09/10 18:10	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/09/10 18:10	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/09/10 18:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		02/09/10 18:10	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		02/09/10 18:10	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		02/09/10 18:10	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		02/09/10 18:10	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		02/09/10 18:10	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/09/10 18:10	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/09/10 18:10	108-90-7	
Chloroethane	ND	ug/L	5.0	1		02/09/10 18:10	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/09/10 18:10	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/09/10 18:10	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		02/09/10 18:10	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		02/09/10 18:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/09/10 18:10	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/09/10 18:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/09/10 18:10	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		02/09/10 18:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/09/10 18:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/09/10 18:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/09/10 18:10	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		02/09/10 18:10	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/09/10 18:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/09/10 18:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/09/10 18:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/09/10 18:10	75-35-4	
cis-1,2-Dichloroethene	**443**	ug/L	50.0	10		02/10/10 14:53	156-59-2	
trans-1,2-Dichloroethene	**22.8**	ug/L	5.0	1		02/09/10 18:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/09/10 18:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		02/09/10 18:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		02/09/10 18:10	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		02/09/10 18:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/09/10 18:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/09/10 18:10	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/09/10 18:10	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		02/09/10 18:10	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		02/09/10 18:10	87-68-3	
n-Hexane	ND	ug/L	5.0	1		02/09/10 18:10	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		02/09/10 18:10	591-78-6	
Iodomethane	ND	ug/L	10.0	1		02/09/10 18:10	74-88-4	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: DUP-03 **Lab ID: 5034508005** Collected: 02/03/10 08:00 Received: 02/06/10 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		02/09/10 18:10	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		02/09/10 18:10	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		02/09/10 18:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		02/09/10 18:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		02/09/10 18:10	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		02/09/10 18:10	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		02/09/10 18:10	103-65-1	
Styrene	ND	ug/L	5.0	1		02/09/10 18:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/09/10 18:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/09/10 18:10	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/09/10 18:10	127-18-4	
Toluene	ND	ug/L	5.0	1		02/09/10 18:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		02/09/10 18:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		02/09/10 18:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/09/10 18:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/09/10 18:10	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/09/10 18:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/09/10 18:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/09/10 18:10	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		02/09/10 18:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		02/09/10 18:10	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		02/09/10 18:10	108-05-4	
Vinyl chloride	**17.0**	ug/L	2.0	1		02/09/10 18:10	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/09/10 18:10	1330-20-7	
Dibromofluoromethane (S)	99	%	80-123	1		02/09/10 18:10	1868-53-7	
4-Bromofluorobenzene (S)	99	%	70-126	1		02/09/10 18:10	460-00-4	
Toluene-d8 (S)	113	%	80-116	1		02/09/10 18:10	2037-26-5	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-165S **Lab ID: 5034508006** Collected: 02/03/10 14:30 Received: 02/06/10 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		02/09/10 18:44	67-64-1	
Acrolein	ND	ug/L	50.0	1		02/09/10 18:44	107-02-8	
Acrylonitrile	ND	ug/L	100	1		02/09/10 18:44	107-13-1	
Benzene	ND	ug/L	5.0	1		02/09/10 18:44	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		02/09/10 18:44	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		02/09/10 18:44	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/09/10 18:44	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/09/10 18:44	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/09/10 18:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		02/09/10 18:44	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		02/09/10 18:44	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		02/09/10 18:44	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		02/09/10 18:44	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		02/09/10 18:44	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/09/10 18:44	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/09/10 18:44	108-90-7	
Chloroethane	ND	ug/L	5.0	1		02/09/10 18:44	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/09/10 18:44	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/09/10 18:44	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		02/09/10 18:44	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		02/09/10 18:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/09/10 18:44	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/09/10 18:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/09/10 18:44	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		02/09/10 18:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/09/10 18:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/09/10 18:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/09/10 18:44	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		02/09/10 18:44	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/09/10 18:44	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/09/10 18:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/09/10 18:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/09/10 18:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/09/10 18:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/09/10 18:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/09/10 18:44	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		02/09/10 18:44	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		02/09/10 18:44	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		02/09/10 18:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/09/10 18:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/09/10 18:44	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/09/10 18:44	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		02/09/10 18:44	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		02/09/10 18:44	87-68-3	
n-Hexane	ND	ug/L	5.0	1		02/09/10 18:44	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		02/09/10 18:44	591-78-6	
Iodomethane	ND	ug/L	10.0	1		02/09/10 18:44	74-88-4	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-165S **Lab ID: 5034508006** Collected: 02/03/10 14:30 Received: 02/06/10 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		02/09/10 18:44	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		02/09/10 18:44	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		02/09/10 18:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		02/09/10 18:44	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		02/09/10 18:44	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		02/09/10 18:44	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		02/09/10 18:44	103-65-1	
Styrene	ND	ug/L	5.0	1		02/09/10 18:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/09/10 18:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/09/10 18:44	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/09/10 18:44	127-18-4	
Toluene	ND	ug/L	5.0	1		02/09/10 18:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		02/09/10 18:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		02/09/10 18:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/09/10 18:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/09/10 18:44	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/09/10 18:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/09/10 18:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/09/10 18:44	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		02/09/10 18:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		02/09/10 18:44	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		02/09/10 18:44	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/09/10 18:44	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/09/10 18:44	1330-20-7	
Dibromofluoromethane (S)	101	%	80-123	1		02/09/10 18:44	1868-53-7	
4-Bromofluorobenzene (S)	99	%	70-126	1		02/09/10 18:44	460-00-4	
Toluene-d8 (S)	115	%	80-116	1		02/09/10 18:44	2037-26-5	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-165D **Lab ID: 5034508007** Collected: 02/03/10 14:00 Received: 02/06/10 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		02/09/10 19:18	67-64-1	
Acrolein	ND	ug/L	50.0	1		02/09/10 19:18	107-02-8	
Acrylonitrile	ND	ug/L	100	1		02/09/10 19:18	107-13-1	
Benzene	ND	ug/L	5.0	1		02/09/10 19:18	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		02/09/10 19:18	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		02/09/10 19:18	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/09/10 19:18	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/09/10 19:18	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/09/10 19:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		02/09/10 19:18	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		02/09/10 19:18	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		02/09/10 19:18	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		02/09/10 19:18	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		02/09/10 19:18	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/09/10 19:18	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/09/10 19:18	108-90-7	
Chloroethane	ND	ug/L	5.0	1		02/09/10 19:18	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/09/10 19:18	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/09/10 19:18	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		02/09/10 19:18	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		02/09/10 19:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/09/10 19:18	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/09/10 19:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/09/10 19:18	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		02/09/10 19:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/09/10 19:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/09/10 19:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/09/10 19:18	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		02/09/10 19:18	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/09/10 19:18	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/09/10 19:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/09/10 19:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/09/10 19:18	75-35-4	
cis-1,2-Dichloroethene	**255**	ug/L	5.0	1		02/09/10 19:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/09/10 19:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/09/10 19:18	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		02/09/10 19:18	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		02/09/10 19:18	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		02/09/10 19:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/09/10 19:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/09/10 19:18	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/09/10 19:18	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		02/09/10 19:18	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		02/09/10 19:18	87-68-3	
n-Hexane	ND	ug/L	5.0	1		02/09/10 19:18	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		02/09/10 19:18	591-78-6	
Iodomethane	ND	ug/L	10.0	1		02/09/10 19:18	74-88-4	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-165D **Lab ID: 5034508007** Collected: 02/03/10 14:00 Received: 02/06/10 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		02/09/10 19:18	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		02/09/10 19:18	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		02/09/10 19:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		02/09/10 19:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		02/09/10 19:18	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		02/09/10 19:18	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		02/09/10 19:18	103-65-1	
Styrene	ND	ug/L	5.0	1		02/09/10 19:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/09/10 19:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/09/10 19:18	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/09/10 19:18	127-18-4	
Toluene	ND	ug/L	5.0	1		02/09/10 19:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		02/09/10 19:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		02/09/10 19:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/09/10 19:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/09/10 19:18	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/09/10 19:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/09/10 19:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/09/10 19:18	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		02/09/10 19:18	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		02/09/10 19:18	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		02/09/10 19:18	108-05-4	
Vinyl chloride	**286**	ug/L	2.0	1		02/09/10 19:18	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/09/10 19:18	1330-20-7	
Dibromofluoromethane (S)	98	%	80-123	1		02/09/10 19:18	1868-53-7	
4-Bromofluorobenzene (S)	98	%	70-126	1		02/09/10 19:18	460-00-4	
Toluene-d8 (S)	113	%	80-116	1		02/09/10 19:18	2037-26-5	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-166S **Lab ID: 5034508008** Collected: 02/03/10 15:30 Received: 02/06/10 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		02/09/10 19:52	67-64-1	
Acrolein	ND	ug/L	50.0	1		02/09/10 19:52	107-02-8	
Acrylonitrile	ND	ug/L	100	1		02/09/10 19:52	107-13-1	
Benzene	ND	ug/L	5.0	1		02/09/10 19:52	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		02/09/10 19:52	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		02/09/10 19:52	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/09/10 19:52	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/09/10 19:52	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/09/10 19:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		02/09/10 19:52	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		02/09/10 19:52	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		02/09/10 19:52	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		02/09/10 19:52	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		02/09/10 19:52	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/09/10 19:52	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/09/10 19:52	108-90-7	
Chloroethane	ND	ug/L	5.0	1		02/09/10 19:52	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/09/10 19:52	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/09/10 19:52	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		02/09/10 19:52	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		02/09/10 19:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/09/10 19:52	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/09/10 19:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/09/10 19:52	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		02/09/10 19:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/09/10 19:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/09/10 19:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/09/10 19:52	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		02/09/10 19:52	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/09/10 19:52	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/09/10 19:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/09/10 19:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/09/10 19:52	75-35-4	
cis-1,2-Dichloroethene	**159**	ug/L	5.0	1		02/09/10 19:52	156-59-2	
trans-1,2-Dichloroethene	**5.0**	ug/L	5.0	1		02/09/10 19:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/09/10 19:52	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		02/09/10 19:52	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		02/09/10 19:52	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		02/09/10 19:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/09/10 19:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/09/10 19:52	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/09/10 19:52	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		02/09/10 19:52	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		02/09/10 19:52	87-68-3	
n-Hexane	ND	ug/L	5.0	1		02/09/10 19:52	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		02/09/10 19:52	591-78-6	
Iodomethane	ND	ug/L	10.0	1		02/09/10 19:52	74-88-4	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-166S **Lab ID: 5034508008** Collected: 02/03/10 15:30 Received: 02/06/10 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		02/09/10 19:52	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		02/09/10 19:52	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		02/09/10 19:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		02/09/10 19:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		02/09/10 19:52	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		02/09/10 19:52	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		02/09/10 19:52	103-65-1	
Styrene	ND	ug/L	5.0	1		02/09/10 19:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/09/10 19:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/09/10 19:52	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/09/10 19:52	127-18-4	
Toluene	ND	ug/L	5.0	1		02/09/10 19:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		02/09/10 19:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		02/09/10 19:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/09/10 19:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/09/10 19:52	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/09/10 19:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/09/10 19:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/09/10 19:52	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		02/09/10 19:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		02/09/10 19:52	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		02/09/10 19:52	108-05-4	
Vinyl chloride	**2.8**	ug/L	2.0	1		02/09/10 19:52	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/09/10 19:52	1330-20-7	
Dibromofluoromethane (S)	98	%	80-123	1		02/09/10 19:52	1868-53-7	
4-Bromofluorobenzene (S)	98	%	70-126	1		02/09/10 19:52	460-00-4	
Toluene-d8 (S)	114	%	80-116	1		02/09/10 19:52	2037-26-5	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-166D **Lab ID: 5034508009** Collected: 02/03/10 15:00 Received: 02/06/10 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		02/09/10 20:26	67-64-1	
Acrolein	ND	ug/L	50.0	1		02/09/10 20:26	107-02-8	
Acrylonitrile	ND	ug/L	100	1		02/09/10 20:26	107-13-1	
Benzene	ND	ug/L	5.0	1		02/09/10 20:26	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		02/09/10 20:26	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		02/09/10 20:26	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/09/10 20:26	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/09/10 20:26	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/09/10 20:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		02/09/10 20:26	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		02/09/10 20:26	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		02/09/10 20:26	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		02/09/10 20:26	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		02/09/10 20:26	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/09/10 20:26	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/09/10 20:26	108-90-7	
Chloroethane	ND	ug/L	5.0	1		02/09/10 20:26	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/09/10 20:26	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/09/10 20:26	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		02/09/10 20:26	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		02/09/10 20:26	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/09/10 20:26	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/09/10 20:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/09/10 20:26	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		02/09/10 20:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/09/10 20:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/09/10 20:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/09/10 20:26	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		02/09/10 20:26	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/09/10 20:26	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/09/10 20:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/09/10 20:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/09/10 20:26	75-35-4	
cis-1,2-Dichloroethene	**797**	ug/L	50.0	10		02/10/10 15:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/09/10 20:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/09/10 20:26	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		02/09/10 20:26	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		02/09/10 20:26	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		02/09/10 20:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/09/10 20:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/09/10 20:26	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/09/10 20:26	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		02/09/10 20:26	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		02/09/10 20:26	87-68-3	
n-Hexane	ND	ug/L	5.0	1		02/09/10 20:26	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		02/09/10 20:26	591-78-6	
Iodomethane	ND	ug/L	10.0	1		02/09/10 20:26	74-88-4	

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ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: MW-166D **Lab ID: 5034508009** Collected: 02/03/10 15:00 Received: 02/06/10 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		02/09/10 20:26	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		02/09/10 20:26	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		02/09/10 20:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		02/09/10 20:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		02/09/10 20:26	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		02/09/10 20:26	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		02/09/10 20:26	103-65-1	
Styrene	ND	ug/L	5.0	1		02/09/10 20:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/09/10 20:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/09/10 20:26	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/09/10 20:26	127-18-4	
Toluene	ND	ug/L	5.0	1		02/09/10 20:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		02/09/10 20:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		02/09/10 20:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/09/10 20:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/09/10 20:26	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/09/10 20:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/09/10 20:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/09/10 20:26	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		02/09/10 20:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		02/09/10 20:26	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		02/09/10 20:26	108-05-4	
Vinyl chloride	**233**	ug/L	2.0	1		02/09/10 20:26	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/09/10 20:26	1330-20-7	
Dibromofluoromethane (S)	98	%	80-123	1		02/09/10 20:26	1868-53-7	
4-Bromofluorobenzene (S)	98	%	70-126	1		02/09/10 20:26	460-00-4	
Toluene-d8 (S)	114	%	80-116	1		02/09/10 20:26	2037-26-5	

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Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: EQ BLANK **Lab ID: 5034508010** Collected: 02/03/10 16:00 Received: 02/06/10 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		02/09/10 21:00	67-64-1	
Acrolein	ND	ug/L	50.0	1		02/09/10 21:00	107-02-8	
Acrylonitrile	ND	ug/L	100	1		02/09/10 21:00	107-13-1	
Benzene	ND	ug/L	5.0	1		02/09/10 21:00	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		02/09/10 21:00	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		02/09/10 21:00	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/09/10 21:00	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/09/10 21:00	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/09/10 21:00	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		02/09/10 21:00	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		02/09/10 21:00	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		02/09/10 21:00	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		02/09/10 21:00	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		02/09/10 21:00	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/09/10 21:00	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/09/10 21:00	108-90-7	
Chloroethane	ND	ug/L	5.0	1		02/09/10 21:00	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/09/10 21:00	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/09/10 21:00	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		02/09/10 21:00	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		02/09/10 21:00	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/09/10 21:00	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/09/10 21:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/09/10 21:00	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		02/09/10 21:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/09/10 21:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/09/10 21:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/09/10 21:00	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		02/09/10 21:00	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/09/10 21:00	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/09/10 21:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/09/10 21:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/09/10 21:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/09/10 21:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/09/10 21:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/09/10 21:00	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		02/09/10 21:00	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		02/09/10 21:00	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		02/09/10 21:00	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/09/10 21:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/09/10 21:00	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/09/10 21:00	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		02/09/10 21:00	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		02/09/10 21:00	87-68-3	
n-Hexane	ND	ug/L	5.0	1		02/09/10 21:00	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		02/09/10 21:00	591-78-6	
Iodomethane	ND	ug/L	10.0	1		02/09/10 21:00	74-88-4	

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(317)875-5894

ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: EQ BLANK **Lab ID: 5034508010** Collected: 02/03/10 16:00 Received: 02/06/10 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		02/09/10 21:00	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		02/09/10 21:00	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		02/09/10 21:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		02/09/10 21:00	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		02/09/10 21:00	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		02/09/10 21:00	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		02/09/10 21:00	103-65-1	
Styrene	ND	ug/L	5.0	1		02/09/10 21:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/09/10 21:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/09/10 21:00	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/09/10 21:00	127-18-4	
Toluene	ND	ug/L	5.0	1		02/09/10 21:00	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		02/09/10 21:00	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		02/09/10 21:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/09/10 21:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/09/10 21:00	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/09/10 21:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/09/10 21:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/09/10 21:00	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		02/09/10 21:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		02/09/10 21:00	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		02/09/10 21:00	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/09/10 21:00	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/09/10 21:00	1330-20-7	
Dibromofluoromethane (S)	102	%	80-123	1		02/09/10 21:00	1868-53-7	
4-Bromofluorobenzene (S)	98	%	70-126	1		02/09/10 21:00	460-00-4	
Toluene-d8 (S)	114	%	80-116	1		02/09/10 21:00	2037-26-5	

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(317)875-5894

ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: TRIP BLANK **Lab ID: 5034508011** Collected: 02/03/10 08:00 Received: 02/06/10 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		02/09/10 21:34	67-64-1	
Acrolein	ND	ug/L	50.0	1		02/09/10 21:34	107-02-8	
Acrylonitrile	ND	ug/L	100	1		02/09/10 21:34	107-13-1	
Benzene	ND	ug/L	5.0	1		02/09/10 21:34	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		02/09/10 21:34	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		02/09/10 21:34	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/09/10 21:34	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/09/10 21:34	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/09/10 21:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		02/09/10 21:34	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		02/09/10 21:34	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		02/09/10 21:34	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		02/09/10 21:34	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		02/09/10 21:34	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/09/10 21:34	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/09/10 21:34	108-90-7	
Chloroethane	ND	ug/L	5.0	1		02/09/10 21:34	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/09/10 21:34	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/09/10 21:34	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		02/09/10 21:34	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		02/09/10 21:34	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/09/10 21:34	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/09/10 21:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/09/10 21:34	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		02/09/10 21:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/09/10 21:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/09/10 21:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/09/10 21:34	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		02/09/10 21:34	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/09/10 21:34	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/09/10 21:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/09/10 21:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/09/10 21:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/09/10 21:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/09/10 21:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/09/10 21:34	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		02/09/10 21:34	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		02/09/10 21:34	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		02/09/10 21:34	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/09/10 21:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/09/10 21:34	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/09/10 21:34	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		02/09/10 21:34	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		02/09/10 21:34	87-68-3	
n-Hexane	ND	ug/L	5.0	1		02/09/10 21:34	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		02/09/10 21:34	591-78-6	
Iodomethane	ND	ug/L	10.0	1		02/09/10 21:34	74-88-4	

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7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: GP / 2829E-001
Pace Project No.: 5034229

Sample: TRIP BLANK **Lab ID: 5034508011** Collected: 02/03/10 08:00 Received: 02/06/10 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		02/09/10 21:34	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		02/09/10 21:34	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		02/09/10 21:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		02/09/10 21:34	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		02/09/10 21:34	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		02/09/10 21:34	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		02/09/10 21:34	103-65-1	
Styrene	ND	ug/L	5.0	1		02/09/10 21:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/09/10 21:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/09/10 21:34	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/09/10 21:34	127-18-4	
Toluene	ND	ug/L	5.0	1		02/09/10 21:34	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		02/09/10 21:34	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		02/09/10 21:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/09/10 21:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/09/10 21:34	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/09/10 21:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/09/10 21:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/09/10 21:34	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		02/09/10 21:34	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		02/09/10 21:34	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		02/09/10 21:34	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/09/10 21:34	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/09/10 21:34	1330-20-7	
Dibromofluoromethane (S)	102	%	80-123	1		02/09/10 21:34	1868-53-7	
4-Bromofluorobenzene (S)	98	%	70-126	1		02/09/10 21:34	460-00-4	
Toluene-d8 (S)	113	%	80-116	1		02/09/10 21:34	2037-26-5	

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QUALITY CONTROL DATA

Project: GP / 2829E-001
Pace Project No.: 5034229

QC Batch: MSV/21429 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5034229001, 5034229004, 5034229005, 5034229006, 5034229007, 5034229008, 5034229009, 5034229010, 5034229011, 5034229012, 5034229013, 5034229014, 5034229015, 5034229016, 5034229017

METHOD BLANK: 393491 Matrix: Water
Associated Lab Samples: 5034229001, 5034229004, 5034229005, 5034229006, 5034229007, 5034229008, 5034229009, 5034229010, 5034229011, 5034229012, 5034229013, 5034229014, 5034229015, 5034229016, 5034229017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	01/31/10 14:20	
1,1,1-Trichloroethane	ug/L	ND	5.0	01/31/10 14:20	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	01/31/10 14:20	
1,1,2-Trichloroethane	ug/L	ND	5.0	01/31/10 14:20	
1,1-Dichloroethane	ug/L	ND	5.0	01/31/10 14:20	
1,1-Dichloroethene	ug/L	ND	5.0	01/31/10 14:20	
1,1-Dichloropropene	ug/L	ND	5.0	01/31/10 14:20	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	01/31/10 14:20	
1,2,3-Trichloropropane	ug/L	ND	5.0	01/31/10 14:20	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	01/31/10 14:20	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	01/31/10 14:20	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	01/31/10 14:20	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	01/31/10 14:20	
1,2-Dichlorobenzene	ug/L	ND	5.0	01/31/10 14:20	
1,2-Dichloroethane	ug/L	ND	5.0	01/31/10 14:20	
1,2-Dichloropropane	ug/L	ND	5.0	01/31/10 14:20	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	01/31/10 14:20	
1,3-Dichlorobenzene	ug/L	ND	5.0	01/31/10 14:20	
1,3-Dichloropropane	ug/L	ND	5.0	01/31/10 14:20	
1,4-Dichlorobenzene	ug/L	ND	5.0	01/31/10 14:20	
2,2-Dichloropropane	ug/L	ND	5.0	01/31/10 14:20	
2-Butanone (MEK)	ug/L	ND	25.0	01/31/10 14:20	
2-Chlorotoluene	ug/L	ND	5.0	01/31/10 14:20	
2-Hexanone	ug/L	ND	25.0	01/31/10 14:20	
4-Chlorotoluene	ug/L	ND	5.0	01/31/10 14:20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	01/31/10 14:20	
Acetone	ug/L	ND	100	01/31/10 14:20	
Acrolein	ug/L	ND	50.0	01/31/10 14:20	
Acrylonitrile	ug/L	ND	100	01/31/10 14:20	
Benzene	ug/L	ND	5.0	01/31/10 14:20	
Bromobenzene	ug/L	ND	5.0	01/31/10 14:20	
Bromochloromethane	ug/L	ND	5.0	01/31/10 14:20	
Bromodichloromethane	ug/L	ND	5.0	01/31/10 14:20	
Bromoform	ug/L	ND	5.0	01/31/10 14:20	
Bromomethane	ug/L	ND	5.0	01/31/10 14:20	
Carbon disulfide	ug/L	ND	10.0	01/31/10 14:20	
Carbon tetrachloride	ug/L	ND	5.0	01/31/10 14:20	
Chlorobenzene	ug/L	ND	5.0	01/31/10 14:20	
Chloroethane	ug/L	ND	5.0	01/31/10 14:20	
Chloroform	ug/L	ND	5.0	01/31/10 14:20	
Chloromethane	ug/L	ND	5.0	01/31/10 14:20	

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QUALITY CONTROL DATA

Project: GP / 2829E-001
Pace Project No.: 5034229

METHOD BLANK: 393491 Matrix: Water

Associated Lab Samples: 5034229001, 5034229004, 5034229005, 5034229006, 5034229007, 5034229008, 5034229009, 5034229010, 5034229011, 5034229012, 5034229013, 5034229014, 5034229015, 5034229016, 5034229017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	ND	5.0	01/31/10 14:20	
cis-1,3-Dichloropropene	ug/L	ND	5.0	01/31/10 14:20	
Dibromochloromethane	ug/L	ND	5.0	01/31/10 14:20	
Dibromomethane	ug/L	ND	5.0	01/31/10 14:20	
Dichlorodifluoromethane	ug/L	ND	5.0	01/31/10 14:20	
Ethyl methacrylate	ug/L	ND	100	01/31/10 14:20	
Ethylbenzene	ug/L	ND	5.0	01/31/10 14:20	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	01/31/10 14:20	
Iodomethane	ug/L	ND	10.0	01/31/10 14:20	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	01/31/10 14:20	
Methyl-tert-butyl ether	ug/L	ND	4.0	01/31/10 14:20	
Methylene chloride	ug/L	ND	5.0	01/31/10 14:20	
n-Butylbenzene	ug/L	ND	5.0	01/31/10 14:20	
n-Hexane	ug/L	ND	5.0	01/31/10 14:20	
n-Propylbenzene	ug/L	ND	5.0	01/31/10 14:20	
Naphthalene	ug/L	ND	5.0	01/31/10 14:20	
p-Isopropyltoluene	ug/L	ND	5.0	01/31/10 14:20	
sec-Butylbenzene	ug/L	ND	5.0	01/31/10 14:20	
Styrene	ug/L	ND	5.0	01/31/10 14:20	
tert-Butylbenzene	ug/L	ND	5.0	01/31/10 14:20	
Tetrachloroethene	ug/L	ND	5.0	01/31/10 14:20	
Toluene	ug/L	ND	5.0	01/31/10 14:20	
trans-1,2-Dichloroethene	ug/L	ND	5.0	01/31/10 14:20	
trans-1,3-Dichloropropene	ug/L	ND	5.0	01/31/10 14:20	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	01/31/10 14:20	
Trichloroethene	ug/L	ND	5.0	01/31/10 14:20	
Trichlorofluoromethane	ug/L	ND	5.0	01/31/10 14:20	
Vinyl acetate	ug/L	ND	10.0	01/31/10 14:20	
Vinyl chloride	ug/L	ND	2.0	01/31/10 14:20	
Xylene (Total)	ug/L	ND	10.0	01/31/10 14:20	
4-Bromofluorobenzene (S)	%	101	70-126	01/31/10 14:20	
Dibromofluoromethane (S)	%	105	80-123	01/31/10 14:20	
Toluene-d8 (S)	%	100	80-116	01/31/10 14:20	

LABORATORY CONTROL SAMPLE: 393492

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.5	101	69-130	
1,1,1-Trichloroethane	ug/L	50	51.2	102	69-136	
1,1,2,2-Tetrachloroethane	ug/L	50	45.7	91	69-131	
1,1,2-Trichloroethane	ug/L	50	51.2	102	77-132	
1,1-Dichloroethane	ug/L	50	45.7	91	67-133	
1,1-Dichloroethene	ug/L	50	57.4	115	63-128	
1,1-Dichloropropene	ug/L	50	53.9	108	75-134	

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QUALITY CONTROL DATA

Project: GP / 2829E-001
Pace Project No.: 5034229

LABORATORY CONTROL SAMPLE: 393492

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	ug/L	50	47.7	95	58-131	
1,2,3-Trichloropropane	ug/L	100	86.5	87	60-131	
1,2,4-Trichlorobenzene	ug/L	50	45.9	92	60-130	
1,2,4-Trimethylbenzene	ug/L	50	47.7	95	73-130	
1,2-Dibromo-3-chloropropane	ug/L	50	40.5	81	61-125	
1,2-Dibromoethane (EDB)	ug/L	50	47.5	95	75-126	
1,2-Dichlorobenzene	ug/L	50	48.6	97	76-124	
1,2-Dichloroethane	ug/L	50	54.7	109	69-139	
1,2-Dichloropropane	ug/L	50	53.8	108	76-129	
1,3,5-Trimethylbenzene	ug/L	50	47.4	95	74-130	
1,3-Dichlorobenzene	ug/L	50	48.2	96	76-125	
1,3-Dichloropropane	ug/L	50	50.4	101	74-126	
1,4-Dichlorobenzene	ug/L	50	46.8	94	75-122	
2,2-Dichloropropane	ug/L	50	54.3	109	53-144	
2-Butanone (MEK)	ug/L	250	217	87	47-189	
2-Chlorotoluene	ug/L	50	45.6	91	72-128	
2-Hexanone	ug/L	250	235	94	57-167	
4-Chlorotoluene	ug/L	50	48.2	96	73-124	
4-Methyl-2-pentanone (MIBK)	ug/L	250	213	85	61-135	
Acetone	ug/L	250	246	99	30-170	
Acrolein	ug/L	1000	2100	210	30-170	L3
Acrylonitrile	ug/L	1000	936	94	67-136	
Benzene	ug/L	50	50.5	101	78-127	
Bromobenzene	ug/L	50	47.9	96	62-139	
Bromochloromethane	ug/L	50	66.5	133	54-162	
Bromodichloromethane	ug/L	50	54.2	108	69-133	
Bromoform	ug/L	50	44.1	88	60-127	
Bromomethane	ug/L	50	73.6	147	30-170	
Carbon disulfide	ug/L	100	138	138	58-152	
Carbon tetrachloride	ug/L	50	49.9	100	62-143	
Chlorobenzene	ug/L	50	46.7	93	75-123	
Chloroethane	ug/L	50	55.9	112	56-153	
Chloroform	ug/L	50	51.0	102	74-131	
Chloromethane	ug/L	50	48.0	96	35-147	
cis-1,2-Dichloroethene	ug/L	50	50.9	102	74-128	
cis-1,3-Dichloropropene	ug/L	50	55.0	110	58-123	
Dibromochloromethane	ug/L	50	52.5	105	66-131	
Dibromomethane	ug/L	50	49.4	99	73-133	
Dichlorodifluoromethane	ug/L	50	59.9	120	30-170	
Ethyl methacrylate	ug/L	50	48.5J	97	59-138	
Ethylbenzene	ug/L	50	48.3	97	81-126	
Hexachloro-1,3-butadiene	ug/L	50	46.7	93	70-130	
Iodomethane	ug/L	100	95.7	96	41-170	
Isopropylbenzene (Cumene)	ug/L	50	46.5	93	80-130	
Methyl-tert-butyl ether	ug/L	100	102	102	66-147	
Methylene chloride	ug/L	50	49.5	99	32-164	
n-Butylbenzene	ug/L	50	50.8	102	68-135	
n-Hexane	ug/L	50	62.8	126	69-157	

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QUALITY CONTROL DATA

Project: GP / 2829E-001
Pace Project No.: 5034229

LABORATORY CONTROL SAMPLE: 393492

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Propylbenzene	ug/L	50	48.5	97	71-132	
Naphthalene	ug/L	50	46.5	93	61-135	
p-Isopropyltoluene	ug/L	50	48.1	96	66-131	
sec-Butylbenzene	ug/L	50	48.2	96	73-130	
Styrene	ug/L	50	49.5	99	74-128	
tert-Butylbenzene	ug/L	50	38.1	76	63-117	
Tetrachloroethene	ug/L	50	43.0	86	60-119	
Toluene	ug/L	50	47.6	95	75-129	
trans-1,2-Dichloroethene	ug/L	50	53.3	107	71-126	
trans-1,3-Dichloropropene	ug/L	50	49.0	98	54-123	
trans-1,4-Dichloro-2-butene	ug/L	200	176	88	47-141	
Trichloroethene	ug/L	50	53.8	108	74-130	
Trichlorofluoromethane	ug/L	50	55.5	111	62-150	
Vinyl acetate	ug/L	200	189	95	41-145	
Vinyl chloride	ug/L	50	55.4	111	55-141	
Xylene (Total)	ug/L	150	145	96	76-132	
4-Bromofluorobenzene (S)	%			103	70-126	
Dibromofluoromethane (S)	%			103	80-123	
Toluene-d8 (S)	%			98	80-116	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 393493 393494

Parameter	Units	5034229001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	40.5	41.5	81	83	55-131	2	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	42.9	44.4	86	89	64-143	3	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	39.5	39.5	79	79	64-142	.09	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	42.5	43.3	85	87	71-143	2	20	
1,1-Dichloroethane	ug/L	ND	50	50	39.9	40.5	80	81	68-139	2	20	
1,1-Dichloroethene	ug/L	ND	50	50	49.3	50.8	99	102	55-140	3	20	
1,1-Dichloropropene	ug/L	ND	50	50	45.3	46.3	91	93	66-140	2	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	36.6	37.2	73	74	33-140	1	20	
1,2,3-Trichloropropane	ug/L	ND	100	100	73.0	73.1	73	73	58-133	.08	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	35.5	36.2	71	72	28-140	2	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	38.7	39.0	77	78	39-146	.8	20	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	35.7	36.0	71	72	39-140	.6	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	40.1	40.6	80	81	67-134	1	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	38.7	39.8	77	80	48-137	3	20	
1,2-Dichloroethane	ug/L	ND	50	50	46.3	47.2	93	94	63-148	2	20	
1,2-Dichloropropane	ug/L	ND	50	50	44.2	45.0	88	90	70-136	2	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	38.9	39.8	78	80	39-145	2	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	37.9	39.3	76	78	40-143	3	20	
1,3-Dichloropropane	ug/L	ND	50	50	41.6	42.9	83	86	65-133	3	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	36.6	38.1	73	76	38-142	4	20	
2,2-Dichloropropane	ug/L	ND	50	50	45.2	45.8	90	92	35-157	1	20	
2-Butanone (MEK)	ug/L	ND	250	250	187	190	75	76	62-132	2	20	
2-Chlorotoluene	ug/L	ND	50	50	36.9	37.8	74	76	44-143	2	20	

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QUALITY CONTROL DATA

Project: GP / 2829E-001
Pace Project No.: 5034229

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 393493 393494

Parameter	Units	5034229001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Hexanone	ug/L	ND	250	250	204	208	81	83	61-141	2	20	
4-Chlorotoluene	ug/L	ND	50	50	38.1	40.0	76	80	43-140	5	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	188	189	75	75	57-135	.3	20	
Acetone	ug/L	ND	250	250	199	206	80	82	30-170	3	20	
Acrolein	ug/L	ND	1000	1000	1800	1840	180	184	30-170	2	20	M0
Acrylonitrile	ug/L	ND	1000	1000	877	894	88	89	66-137	2	20	
Benzene	ug/L	ND	50	50	43.1	44.6	86	89	63-141	3	20	
Bromobenzene	ug/L	ND	50	50	37.9	39.4	76	79	57-128	4	20	
Bromochloromethane	ug/L	ND	50	50	54.1	55.7	108	111	65-157	3	20	
Bromodichloromethane	ug/L	ND	50	50	44.9	46.2	90	92	63-135	3	20	
Bromoform	ug/L	ND	50	50	37.3	37.5	75	75	58-124	.5	20	
Bromomethane	ug/L	ND	50	50	64.8	67.0	130	134	30-170	3	20	
Carbon disulfide	ug/L	ND	100	100	122	125	122	125	46-162	3	20	
Carbon tetrachloride	ug/L	ND	50	50	42.2	43.2	84	86	54-145	2	20	
Chlorobenzene	ug/L	ND	50	50	38.2	39.1	76	78	56-133	2	20	
Chloroethane	ug/L	ND	50	50	49.0	49.9	98	100	54-157	2	20	
Chloroform	ug/L	ND	50	50	43.5	44.4	87	89	67-134	2	20	
Chloromethane	ug/L	ND	50	50	39.9	41.6	80	83	36-137	4	20	
cis-1,2-Dichloroethene	ug/L	132	50	50	119	104	-27	-58	65-132	14	20	M0
cis-1,3-Dichloropropene	ug/L	ND	50	50	43.3	45.5	87	91	46-121	5	20	
Dibromochloromethane	ug/L	ND	50	50	42.5	43.1	85	86	64-124	1	20	
Dibromomethane	ug/L	ND	50	50	42.1	43.4	84	87	67-144	3	20	
Dichlorodifluoromethane	ug/L	ND	50	50	42.7	43.9	85	88	30-163	3	20	
Ethyl methacrylate	ug/L	ND	50	50	40.8J	41.8J	82	84	52-140		20	
Ethylbenzene	ug/L	ND	50	50	39.3	40.6	79	81	44-151	3	20	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	38.4	39.2	77	78	30-145	2	20	
Iodomethane	ug/L	ND	100	100	53.6	64.0	54	64	28-168	18	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	37.9	39.7	76	79	40-148	5	20	
Methyl-tert-butyl ether	ug/L	ND	100	100	88.1	89.3	88	89	52-156	1	20	
Methylene chloride	ug/L	ND	50	50	39.3	41.3	79	83	46-154	5	20	
n-Butylbenzene	ug/L	ND	50	50	40.3	41.4	81	83	27-153	3	20	
n-Hexane	ug/L	ND	50	50	49.8	53.4	100	107	32-176	7	20	
n-Propylbenzene	ug/L	ND	50	50	39.5	40.7	79	81	40-148	3	20	
Naphthalene	ug/L	ND	50	50	36.5	37.3	73	75	44-138	2	20	
p-Isopropyltoluene	ug/L	ND	50	50	39.1	40.2	78	80	34-146	3	20	
sec-Butylbenzene	ug/L	ND	50	50	39.8	40.3	80	81	38-150	1	20	
Styrene	ug/L	ND	50	50	39.6	41.5	79	83	38-141	5	20	
tert-Butylbenzene	ug/L	ND	50	50	35.1	31.5	70	63	32-133	11	20	
Tetrachloroethene	ug/L	ND	50	50	33.7	36.1	67	72	25-146	7	20	
Toluene	ug/L	ND	50	50	39.8	41.0	80	82	59-142	3	20	
trans-1,2-Dichloroethene	ug/L	15.0	50	50	59.1	59.5	88	89	60-137	.6	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	39.9	40.5	80	81	43-117	1	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	148	148	74	74	44-139	.4	20	
Trichloroethene	ug/L	331	50	50	316	293	-31	-77	61-137	8	20	M0
Trichlorofluoromethane	ug/L	ND	50	50	46.4	47.2	93	94	53-162	2	20	
Vinyl acetate	ug/L	ND	200	200	162	162	81	81	24-132	.05	20	
Vinyl chloride	ug/L	ND	50	50	46.2	47.5	92	95	51-144	3	20	

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QUALITY CONTROL DATA

Project: GP / 2829E-001
Pace Project No.: 5034229

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 393493 393494

Parameter	Units	5034229001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Xylene (Total)	ug/L	ND	150	150	117	122	78	81	44-152	4	20	
4-Bromofluorobenzene (S)	%						101	102	70-126		20	
Dibromofluoromethane (S)	%						103	103	80-123		20	
Toluene-d8 (S)	%						96	97	80-116		20	

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QUALITY CONTROL DATA

Project: GP / 2829E-001
Pace Project No.: 5034229

QC Batch: MSV/21455 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5034229002, 5034229003, 5034231001, 5034231002, 5034231003, 5034231004, 5034231005, 5034231006

METHOD BLANK: 393782 Matrix: Water
Associated Lab Samples: 5034229002, 5034229003, 5034231001, 5034231002, 5034231003, 5034231004, 5034231005, 5034231006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	02/01/10 11:36	
1,1,1-Trichloroethane	ug/L	ND	5.0	02/01/10 11:36	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	02/01/10 11:36	
1,1,2-Trichloroethane	ug/L	ND	5.0	02/01/10 11:36	
1,1-Dichloroethane	ug/L	ND	5.0	02/01/10 11:36	
1,1-Dichloroethene	ug/L	ND	5.0	02/01/10 11:36	
1,1-Dichloropropene	ug/L	ND	5.0	02/01/10 11:36	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	02/01/10 11:36	
1,2,3-Trichloropropane	ug/L	ND	5.0	02/01/10 11:36	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	02/01/10 11:36	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	02/01/10 11:36	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	02/01/10 11:36	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	02/01/10 11:36	
1,2-Dichlorobenzene	ug/L	ND	5.0	02/01/10 11:36	
1,2-Dichloroethane	ug/L	ND	5.0	02/01/10 11:36	
1,2-Dichloropropane	ug/L	ND	5.0	02/01/10 11:36	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	02/01/10 11:36	
1,3-Dichlorobenzene	ug/L	ND	5.0	02/01/10 11:36	
1,3-Dichloropropane	ug/L	ND	5.0	02/01/10 11:36	
1,4-Dichlorobenzene	ug/L	ND	5.0	02/01/10 11:36	
2,2-Dichloropropane	ug/L	ND	5.0	02/01/10 11:36	
2-Butanone (MEK)	ug/L	ND	25.0	02/01/10 11:36	
2-Chlorotoluene	ug/L	ND	5.0	02/01/10 11:36	
2-Hexanone	ug/L	ND	25.0	02/01/10 11:36	
4-Chlorotoluene	ug/L	ND	5.0	02/01/10 11:36	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	02/01/10 11:36	
Acetone	ug/L	ND	100	02/01/10 11:36	
Acrolein	ug/L	ND	100	02/01/10 11:36	
Acrylonitrile	ug/L	ND	100	02/01/10 11:36	
Benzene	ug/L	ND	5.0	02/01/10 11:36	
Bromobenzene	ug/L	ND	5.0	02/01/10 11:36	
Bromochloromethane	ug/L	ND	5.0	02/01/10 11:36	
Bromodichloromethane	ug/L	ND	5.0	02/01/10 11:36	
Bromoform	ug/L	ND	5.0	02/01/10 11:36	
Bromomethane	ug/L	ND	5.0	02/01/10 11:36	
Carbon disulfide	ug/L	ND	10.0	02/01/10 11:36	
Carbon tetrachloride	ug/L	ND	5.0	02/01/10 11:36	
Chlorobenzene	ug/L	ND	5.0	02/01/10 11:36	
Chloroethane	ug/L	ND	5.0	02/01/10 11:36	
Chloroform	ug/L	ND	5.0	02/01/10 11:36	
Chloromethane	ug/L	ND	5.0	02/01/10 11:36	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/01/10 11:36	
cis-1,3-Dichloropropene	ug/L	ND	5.0	02/01/10 11:36	

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QUALITY CONTROL DATA

Project: GP / 2829E-001
Pace Project No.: 5034229

METHOD BLANK: 393782 Matrix: Water

Associated Lab Samples: 5034229002, 5034229003, 5034231001, 5034231002, 5034231003, 5034231004, 5034231005, 5034231006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	5.0	02/01/10 11:36	
Dibromomethane	ug/L	ND	5.0	02/01/10 11:36	
Dichlorodifluoromethane	ug/L	ND	5.0	02/01/10 11:36	
Ethyl methacrylate	ug/L	ND	100	02/01/10 11:36	
Ethylbenzene	ug/L	ND	5.0	02/01/10 11:36	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	02/01/10 11:36	
Iodomethane	ug/L	ND	10.0	02/01/10 11:36	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	02/01/10 11:36	
Methyl-tert-butyl ether	ug/L	ND	4.0	02/01/10 11:36	
Methylene chloride	ug/L	ND	5.0	02/01/10 11:36	
n-Butylbenzene	ug/L	ND	5.0	02/01/10 11:36	
n-Hexane	ug/L	ND	5.0	02/01/10 11:36	
n-Propylbenzene	ug/L	ND	5.0	02/01/10 11:36	
Naphthalene	ug/L	ND	5.0	02/01/10 11:36	
p-Isopropyltoluene	ug/L	ND	5.0	02/01/10 11:36	
sec-Butylbenzene	ug/L	ND	5.0	02/01/10 11:36	
Styrene	ug/L	ND	5.0	02/01/10 11:36	
tert-Butylbenzene	ug/L	ND	5.0	02/01/10 11:36	
Tetrachloroethene	ug/L	ND	5.0	02/01/10 11:36	
Toluene	ug/L	ND	5.0	02/01/10 11:36	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/01/10 11:36	
trans-1,3-Dichloropropene	ug/L	ND	5.0	02/01/10 11:36	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	02/01/10 11:36	
Trichloroethene	ug/L	ND	5.0	02/01/10 11:36	
Trichlorofluoromethane	ug/L	ND	5.0	02/01/10 11:36	
Vinyl acetate	ug/L	ND	10.0	02/01/10 11:36	
Vinyl chloride	ug/L	ND	2.0	02/01/10 11:36	
Xylene (Total)	ug/L	ND	10.0	02/01/10 11:36	
4-Bromofluorobenzene (S)	%	102	70-126	02/01/10 11:36	
Dibromofluoromethane (S)	%	104	80-123	02/01/10 11:36	
Toluene-d8 (S)	%	100	80-116	02/01/10 11:36	

LABORATORY CONTROL SAMPLE: 393783

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.8	100	69-130	
1,1,1-Trichloroethane	ug/L	50	52.0	104	69-136	
1,1,2,2-Tetrachloroethane	ug/L	50	48.7	97	69-131	
1,1,2-Trichloroethane	ug/L	50	52.5	105	77-132	
1,1-Dichloroethane	ug/L	50	46.0	92	67-133	
1,1-Dichloroethene	ug/L	50	57.3	115	63-128	
1,1-Dichloropropene	ug/L	50	54.5	109	75-134	
1,2,3-Trichlorobenzene	ug/L	50	46.8	94	58-131	
1,2,3-Trichloropropane	ug/L	100	93.5	94	60-131	
1,2,4-Trichlorobenzene	ug/L	50	45.5	91	60-130	

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QUALITY CONTROL DATA

Project: GP / 2829E-001
Pace Project No.: 5034229

LABORATORY CONTROL SAMPLE: 393783

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	46.5	93	73-130	
1,2-Dibromo-3-chloropropane	ug/L	50	44.9	90	61-125	
1,2-Dibromoethane (EDB)	ug/L	50	49.8	100	75-126	
1,2-Dichlorobenzene	ug/L	50	48.7	97	76-124	
1,2-Dichloroethane	ug/L	50	56.8	114	69-139	
1,2-Dichloropropane	ug/L	50	54.5	109	76-129	
1,3,5-Trimethylbenzene	ug/L	50	47.0	94	74-130	
1,3-Dichlorobenzene	ug/L	50	47.1	94	76-125	
1,3-Dichloropropane	ug/L	50	51.2	102	74-126	
1,4-Dichlorobenzene	ug/L	50	46.1	92	75-122	
2,2-Dichloropropane	ug/L	50	55.1	110	53-144	
2-Butanone (MEK)	ug/L	250	274	110	47-189	
2-Chlorotoluene	ug/L	50	44.4	89	72-128	
2-Hexanone	ug/L	250	275	110	57-167	
4-Chlorotoluene	ug/L	50	46.9	94	73-124	
4-Methyl-2-pentanone (MIBK)	ug/L	250	237	95	61-135	
Acetone	ug/L	250	337	135	30-170	
Acrolein	ug/L	1000	2350	235	30-170	L3
Acrylonitrile	ug/L	1000	1100	110	67-136	
Benzene	ug/L	50	51.3	103	78-127	
Bromobenzene	ug/L	50	48.8	98	62-139	
Bromochloromethane	ug/L	50	65.4	131	54-162	
Bromodichloromethane	ug/L	50	54.4	109	69-133	
Bromoform	ug/L	50	44.7	89	60-127	
Bromomethane	ug/L	50	63.2	126	30-170	
Carbon disulfide	ug/L	100	138	138	58-152	
Carbon tetrachloride	ug/L	50	50.4	101	62-143	
Chlorobenzene	ug/L	50	46.4	93	75-123	
Chloroethane	ug/L	50	54.3	109	56-153	
Chloroform	ug/L	50	51.5	103	74-131	
Chloromethane	ug/L	50	47.0	94	35-147	
cis-1,2-Dichloroethene	ug/L	50	51.6	103	74-128	
cis-1,3-Dichloropropene	ug/L	50	52.9	106	58-123	
Dibromochloromethane	ug/L	50	51.6	103	66-131	
Dibromomethane	ug/L	50	50.8	102	73-133	
Dichlorodifluoromethane	ug/L	50	59.6	119	30-170	
Ethyl methacrylate	ug/L	50	51.8J	104	59-138	
Ethylbenzene	ug/L	50	48.1	96	81-126	
Hexachloro-1,3-butadiene	ug/L	50	47.0	94	70-130	
Iodomethane	ug/L	100	51.1	51	41-170	
Isopropylbenzene (Cumene)	ug/L	50	46.4	93	80-130	
Methyl-tert-butyl ether	ug/L	100	107	107	66-147	
Methylene chloride	ug/L	50	47.4	95	32-164	
n-Butylbenzene	ug/L	50	49.8	100	68-135	
n-Hexane	ug/L	50	63.9	128	69-157	
n-Propylbenzene	ug/L	50	47.2	94	71-132	
Naphthalene	ug/L	50	47.5	95	61-135	
p-Isopropyltoluene	ug/L	50	48.0	96	66-131	

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QUALITY CONTROL DATA

Project: GP / 2829E-001
Pace Project No.: 5034229

LABORATORY CONTROL SAMPLE: 393783

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
sec-Butylbenzene	ug/L	50	47.8	96	73-130	
Styrene	ug/L	50	49.1	98	74-128	
tert-Butylbenzene	ug/L	50	42.1	84	63-117	
Tetrachloroethene	ug/L	50	42.7	85	60-119	
Toluene	ug/L	50	47.3	95	75-129	
trans-1,2-Dichloroethene	ug/L	50	54.0	108	71-126	
trans-1,3-Dichloropropene	ug/L	50	48.8	98	54-123	
trans-1,4-Dichloro-2-butene	ug/L	200	193	97	47-141	
Trichloroethene	ug/L	50	54.8	110	74-130	
Trichlorofluoromethane	ug/L	50	54.2	108	62-150	
Vinyl acetate	ug/L	200	204	102	41-145	
Vinyl chloride	ug/L	50	55.1	110	55-141	
Xylene (Total)	ug/L	150	144	96	76-132	
4-Bromofluorobenzene (S)	%			102	70-126	
Dibromofluoromethane (S)	%			101	80-123	
Toluene-d8 (S)	%			94	80-116	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 393784 393785

Parameter	Units	5034229003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	50.1	53.7	100	107	55-131	7	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	51.6	53.9	103	108	64-143	4	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	48.2	53.1	96	106	64-142	10	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	52.9	56.5	106	113	71-143	7	20	
1,1-Dichloroethane	ug/L	ND	50	50	46.4	47.6	93	95	68-139	2	20	
1,1-Dichloroethene	ug/L	ND	50	50	58.4	60.6	117	121	55-140	4	20	
1,1-Dichloropropene	ug/L	ND	50	50	53.3	55.0	107	110	66-140	3	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	43.1	48.3	86	97	33-140	11	20	
1,2,3-Trichloropropane	ug/L	ND	100	100	88.6	96.8	89	97	58-133	9	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	42.6	46.9	85	94	28-140	10	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	47.9	52.1	96	104	39-146	8	20	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	42.1	46.6	84	93	39-140	10	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	49.6	52.5	99	105	67-134	6	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	49.2	53.5	98	107	48-137	9	20	
1,2-Dichloroethane	ug/L	ND	50	50	54.5	56.6	109	113	63-148	4	20	
1,2-Dichloropropane	ug/L	ND	50	50	53.2	54.5	106	109	70-136	2	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	48.1	52.5	96	105	39-145	9	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	47.8	52.4	96	105	40-143	9	20	
1,3-Dichloropropane	ug/L	ND	50	50	52.1	54.9	104	110	65-133	5	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	46.5	50.5	93	101	38-142	8	20	
2,2-Dichloropropane	ug/L	ND	50	50	52.4	53.3	105	107	35-157	2	20	
2-Butanone (MEK)	ug/L	ND	250	250	223	231	89	92	62-132	3	20	
2-Chlorotoluene	ug/L	ND	50	50	45.7	50.2	91	100	44-143	9	20	
2-Hexanone	ug/L	ND	250	250	254	265	102	106	61-141	4	20	
4-Chlorotoluene	ug/L	ND	50	50	47.9	52.7	96	105	43-140	10	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	231	239	92	96	57-135	3	20	

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QUALITY CONTROL DATA

Project: GP / 2829E-001
Pace Project No.: 5034229

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 393784 393785

Parameter	Units	5034229003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acetone	ug/L	ND	250	250	236	246	94	98	30-170	4	20	
Acrolein	ug/L	ND	1000	1000	2050	2090	205	209	30-170	2	20	M0
Acrylonitrile	ug/L	ND	1000	1000	1030	1070	103	107	66-137	4	20	
Benzene	ug/L	ND	50	50	50.9	52.6	102	105	63-141	3	20	
Bromobenzene	ug/L	ND	50	50	49.5	52.1	99	104	57-128	5	20	
Bromochloromethane	ug/L	ND	50	50	64.6	66.6	129	133	65-157	3	20	
Bromodichloromethane	ug/L	ND	50	50	53.5	54.6	107	109	63-135	2	20	
Bromoform	ug/L	ND	50	50	45.8	49.8	92	100	58-124	8	20	
Bromomethane	ug/L	ND	50	50	82.5	83.5	165	167	30-170	1	20	
Carbon disulfide	ug/L	ND	100	100	142	145	142	145	46-162	3	20	
Carbon tetrachloride	ug/L	ND	50	50	50.4	51.5	101	103	54-145	2	20	
Chlorobenzene	ug/L	ND	50	50	48.1	50.5	96	101	56-133	5	20	
Chloroethane	ug/L	ND	50	50	57.3	58.4	115	117	54-157	2	20	
Chloroform	ug/L	ND	50	50	51.1	52.7	102	105	67-134	3	20	
Chloromethane	ug/L	ND	50	50	45.6	46.9	91	94	36-137	3	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	57.7	60.1	106	111	65-132	4	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	54.6	56.9	109	114	46-121	4	20	
Dibromochloromethane	ug/L	ND	50	50	52.9	56.5	106	113	64-124	7	20	
Dibromomethane	ug/L	ND	50	50	49.1	50.5	98	101	67-144	3	20	
Dichlorodifluoromethane	ug/L	ND	50	50	52.0	52.6	104	105	30-163	1	20	
Ethyl methacrylate	ug/L	ND	50	50	51.4J	53.8J	103	108	52-140		20	
Ethylbenzene	ug/L	ND	50	50	49.5	52.4	99	105	44-151	6	20	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	44.8	49.1	90	98	30-145	9	20	
Iodomethane	ug/L	ND	100	100	58.3	70.9	58	71	28-168	20	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	48.2	50.8	96	102	40-148	5	20	
Methyl-tert-butyl ether	ug/L	ND	100	100	103	108	103	108	52-156	5	20	
Methylene chloride	ug/L	ND	50	50	47.0	48.8	94	98	46-154	4	20	
n-Butylbenzene	ug/L	ND	50	50	49.9	54.7	100	109	27-153	9	20	
n-Hexane	ug/L	ND	50	50	59.3	60.5	119	121	32-176	2	20	
n-Propylbenzene	ug/L	ND	50	50	49.5	53.2	99	106	40-148	7	20	
Naphthalene	ug/L	ND	50	50	43.3	48.1	87	96	44-138	11	20	
p-Isopropyltoluene	ug/L	ND	50	50	48.7	53.1	97	106	34-146	9	20	
sec-Butylbenzene	ug/L	ND	50	50	49.2	53.2	98	106	38-150	8	20	
Styrene	ug/L	ND	50	50	50.1	52.9	100	106	38-141	6	20	
tert-Butylbenzene	ug/L	ND	50	50	39.0	42.0	78	84	32-133	8	20	
Tetrachloroethene	ug/L	ND	50	50	44.0	47.1	88	94	25-146	7	20	
Toluene	ug/L	ND	50	50	49.7	52.3	99	105	59-142	5	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	55.4	57.2	111	114	60-137	3	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	48.7	51.0	97	102	43-117	5	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	182	188	91	94	44-139	3	20	
Trichloroethene	ug/L	79.5	50	50	129	128	99	97	61-137	1	20	
Trichlorofluoromethane	ug/L	ND	50	50	55.4	56.3	111	113	53-162	2	20	
Vinyl acetate	ug/L	ND	200	200	176	178	88	89	24-132	1	20	
Vinyl chloride	ug/L	ND	50	50	54.9	55.5	110	111	51-144	1	20	
Xylene (Total)	ug/L	ND	150	150	149	158	99	105	44-152	6	20	
4-Bromofluorobenzene (S)	%						102	101	70-126		20	
Dibromofluoromethane (S)	%						101	102	80-123		20	

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QUALITY CONTROL DATA

Project: GP / 2829E-001
Pace Project No.: 5034229

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 393784 393785

Parameter	Units	5034229003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene-d8 (S)	%						101	101	80-116		20	

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QUALITY CONTROL DATA

Project: GP / 2829E-001
Pace Project No.: 5034229

QC Batch: MSV/21592 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5034508001, 5034508002, 5034508003, 5034508004, 5034508005, 5034508006, 5034508007, 5034508008, 5034508009, 5034508010, 5034508011

METHOD BLANK: 395904 Matrix: Water
Associated Lab Samples: 5034508001, 5034508002, 5034508003, 5034508004, 5034508005, 5034508006, 5034508007, 5034508008, 5034508009, 5034508010, 5034508011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	02/09/10 12:28	
1,1,1-Trichloroethane	ug/L	ND	5.0	02/09/10 12:28	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	02/09/10 12:28	
1,1,2-Trichloroethane	ug/L	ND	5.0	02/09/10 12:28	
1,1-Dichloroethane	ug/L	ND	5.0	02/09/10 12:28	
1,1-Dichloroethene	ug/L	ND	5.0	02/09/10 12:28	
1,1-Dichloropropene	ug/L	ND	5.0	02/09/10 12:28	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	02/09/10 12:28	
1,2,3-Trichloropropane	ug/L	ND	5.0	02/09/10 12:28	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	02/09/10 12:28	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	02/09/10 12:28	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	02/09/10 12:28	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	02/09/10 12:28	
1,2-Dichlorobenzene	ug/L	ND	5.0	02/09/10 12:28	
1,2-Dichloroethane	ug/L	ND	5.0	02/09/10 12:28	
1,2-Dichloropropane	ug/L	ND	5.0	02/09/10 12:28	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	02/09/10 12:28	
1,3-Dichlorobenzene	ug/L	ND	5.0	02/09/10 12:28	
1,3-Dichloropropane	ug/L	ND	5.0	02/09/10 12:28	
1,4-Dichlorobenzene	ug/L	ND	5.0	02/09/10 12:28	
2,2-Dichloropropane	ug/L	ND	5.0	02/09/10 12:28	
2-Butanone (MEK)	ug/L	ND	25.0	02/09/10 12:28	
2-Chlorotoluene	ug/L	ND	5.0	02/09/10 12:28	
2-Hexanone	ug/L	ND	25.0	02/09/10 12:28	
4-Chlorotoluene	ug/L	ND	5.0	02/09/10 12:28	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	02/09/10 12:28	
Acetone	ug/L	ND	100	02/09/10 12:28	
Acrolein	ug/L	ND	50.0	02/09/10 12:28	
Acrylonitrile	ug/L	ND	100	02/09/10 12:28	
Benzene	ug/L	ND	5.0	02/09/10 12:28	
Bromobenzene	ug/L	ND	5.0	02/09/10 12:28	
Bromochloromethane	ug/L	ND	5.0	02/09/10 12:28	
Bromodichloromethane	ug/L	ND	5.0	02/09/10 12:28	
Bromoform	ug/L	ND	5.0	02/09/10 12:28	
Bromomethane	ug/L	ND	5.0	02/09/10 12:28	
Carbon disulfide	ug/L	ND	10.0	02/09/10 12:28	
Carbon tetrachloride	ug/L	ND	5.0	02/09/10 12:28	
Chlorobenzene	ug/L	ND	5.0	02/09/10 12:28	
Chloroethane	ug/L	ND	5.0	02/09/10 12:28	
Chloroform	ug/L	ND	5.0	02/09/10 12:28	
Chloromethane	ug/L	ND	5.0	02/09/10 12:28	

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7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: GP / 2829E-001
Pace Project No.: 5034229

METHOD BLANK: 395904 Matrix: Water

Associated Lab Samples: 5034508001, 5034508002, 5034508003, 5034508004, 5034508005, 5034508006, 5034508007, 5034508008, 5034508009, 5034508010, 5034508011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/09/10 12:28	
cis-1,3-Dichloropropene	ug/L	ND	5.0	02/09/10 12:28	
Dibromochloromethane	ug/L	ND	5.0	02/09/10 12:28	
Dibromomethane	ug/L	ND	5.0	02/09/10 12:28	
Dichlorodifluoromethane	ug/L	ND	5.0	02/09/10 12:28	
Ethyl methacrylate	ug/L	ND	100	02/09/10 12:28	
Ethylbenzene	ug/L	ND	5.0	02/09/10 12:28	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	02/09/10 12:28	
Iodomethane	ug/L	ND	10.0	02/09/10 12:28	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	02/09/10 12:28	
Methyl-tert-butyl ether	ug/L	ND	4.0	02/09/10 12:28	
Methylene chloride	ug/L	ND	5.0	02/09/10 12:28	
n-Butylbenzene	ug/L	ND	5.0	02/09/10 12:28	
n-Hexane	ug/L	ND	5.0	02/09/10 12:28	
n-Propylbenzene	ug/L	ND	5.0	02/09/10 12:28	
Naphthalene	ug/L	ND	5.0	02/09/10 12:28	
p-Isopropyltoluene	ug/L	ND	5.0	02/09/10 12:28	
sec-Butylbenzene	ug/L	ND	5.0	02/09/10 12:28	
Styrene	ug/L	ND	5.0	02/09/10 12:28	
tert-Butylbenzene	ug/L	ND	5.0	02/09/10 12:28	
Tetrachloroethene	ug/L	ND	5.0	02/09/10 12:28	
Toluene	ug/L	ND	5.0	02/09/10 12:28	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/09/10 12:28	
trans-1,3-Dichloropropene	ug/L	ND	5.0	02/09/10 12:28	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	02/09/10 12:28	
Trichloroethene	ug/L	ND	5.0	02/09/10 12:28	
Trichlorofluoromethane	ug/L	ND	5.0	02/09/10 12:28	
Vinyl acetate	ug/L	ND	10.0	02/09/10 12:28	
Vinyl chloride	ug/L	ND	2.0	02/09/10 12:28	
Xylene (Total)	ug/L	ND	10.0	02/09/10 12:28	
4-Bromofluorobenzene (S)	%	98	70-126	02/09/10 12:28	
Dibromofluoromethane (S)	%	102	80-123	02/09/10 12:28	
Toluene-d8 (S)	%	112	80-116	02/09/10 12:28	

LABORATORY CONTROL SAMPLE: 395905

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.5	105	69-130	
1,1,1-Trichloroethane	ug/L	50	46.0	92	69-136	
1,1,2,2-Tetrachloroethane	ug/L	50	54.6	109	69-131	
1,1,2-Trichloroethane	ug/L	50	55.5	111	77-132	
1,1-Dichloroethane	ug/L	50	40.2	80	67-133	
1,1-Dichloroethene	ug/L	50	49.4	99	63-128	
1,1-Dichloropropene	ug/L	50	46.7	93	75-134	

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Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: GP / 2829E-001
Pace Project No.: 5034229

LABORATORY CONTROL SAMPLE: 395905

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	ug/L	50	51.5	103	58-131	
1,2,3-Trichloropropane	ug/L	100	103	103	60-131	
1,2,4-Trichlorobenzene	ug/L	50	49.8	100	60-130	
1,2,4-Trimethylbenzene	ug/L	50	52.1	104	73-130	
1,2-Dibromo-3-chloropropane	ug/L	50	50.8	102	61-125	
1,2-Dibromoethane (EDB)	ug/L	50	52.0	104	75-126	
1,2-Dichlorobenzene	ug/L	50	54.3	109	76-124	
1,2-Dichloroethane	ug/L	50	49.6	99	69-139	
1,2-Dichloropropane	ug/L	50	46.9	94	76-129	
1,3,5-Trimethylbenzene	ug/L	50	52.3	105	74-130	
1,3-Dichlorobenzene	ug/L	50	53.2	106	76-125	
1,3-Dichloropropane	ug/L	50	54.1	108	74-126	
1,4-Dichlorobenzene	ug/L	50	51.3	103	75-122	
2,2-Dichloropropane	ug/L	50	46.2	92	53-144	
2-Butanone (MEK)	ug/L	250	244	98	47-189	
2-Chlorotoluene	ug/L	50	49.6	99	72-128	
2-Hexanone	ug/L	250	290	116	57-167	
4-Chlorotoluene	ug/L	50	52.0	104	73-124	
4-Methyl-2-pentanone (MIBK)	ug/L	250	254	102	61-135	
Acetone	ug/L	250	300	120	30-170	
Acrolein	ug/L	1000	2220	222	30-170	L3
Acrylonitrile	ug/L	1000	984	98	67-136	
Benzene	ug/L	50	45.2	90	78-127	
Bromobenzene	ug/L	50	50.4	101	62-139	
Bromochloromethane	ug/L	50	56.9	114	54-162	
Bromodichloromethane	ug/L	50	48.2	96	69-133	
Bromoform	ug/L	50	49.8	100	60-127	
Bromomethane	ug/L	50	57.5	115	30-170	
Carbon disulfide	ug/L	100	117	117	58-152	
Carbon tetrachloride	ug/L	50	44.9	90	62-143	
Chlorobenzene	ug/L	50	48.9	98	75-123	
Chloroethane	ug/L	50	46.8	94	56-153	
Chloroform	ug/L	50	45.7	91	74-131	
Chloromethane	ug/L	50	38.8	78	35-147	
cis-1,2-Dichloroethene	ug/L	50	45.5	91	74-128	
cis-1,3-Dichloropropene	ug/L	50	54.3	109	58-123	
Dibromochloromethane	ug/L	50	54.7	109	66-131	
Dibromomethane	ug/L	50	46.2	92	73-133	
Dichlorodifluoromethane	ug/L	50	43.8	88	30-170	
Ethyl methacrylate	ug/L	50	54J	108	59-138	
Ethylbenzene	ug/L	50	50.2	100	81-126	
Hexachloro-1,3-butadiene	ug/L	50	50.7	101	70-130	
Iodomethane	ug/L	100	61.8	62	41-170	
Isopropylbenzene (Cumene)	ug/L	50	49.4	99	80-130	
Methyl-tert-butyl ether	ug/L	100	96.0	96	66-147	
Methylene chloride	ug/L	50	41.6	83	32-164	
n-Butylbenzene	ug/L	50	54.8	110	68-135	
n-Hexane	ug/L	50	53.3	107	69-157	

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7726 Moller Road
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(317)875-5894

QUALITY CONTROL DATA

Project: GP / 2829E-001
Pace Project No.: 5034229

LABORATORY CONTROL SAMPLE: 395905

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Propylbenzene	ug/L	50	53.2	106	71-132	
Naphthalene	ug/L	50	52.9	106	61-135	
p-Isopropyltoluene	ug/L	50	52.5	105	66-131	
sec-Butylbenzene	ug/L	50	53.0	106	73-130	
Styrene	ug/L	50	52.6	105	74-128	
tert-Butylbenzene	ug/L	50	46.6	93	63-117	
Tetrachloroethene	ug/L	50	44.1	88	60-119	
Toluene	ug/L	50	49.6	99	75-129	
trans-1,2-Dichloroethene	ug/L	50	46.8	94	71-126	
trans-1,3-Dichloropropene	ug/L	50	50.0	100	54-123	
trans-1,4-Dichloro-2-butene	ug/L	200	204	102	47-141	
Trichloroethene	ug/L	50	47.4	95	74-130	
Trichlorofluoromethane	ug/L	50	48.0	96	62-150	
Vinyl acetate	ug/L	200	181	91	41-145	
Vinyl chloride	ug/L	50	44.6	89	55-141	
Xylene (Total)	ug/L	150	152	101	76-132	
4-Bromofluorobenzene (S)	%			99	70-126	
Dibromofluoromethane (S)	%			100	80-123	
Toluene-d8 (S)	%			107	80-116	

MATRIX SPIKE SAMPLE: 395906

Parameter	Units	5034508003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	51.6	103	55-131	
1,1,1-Trichloroethane	ug/L	ND	50	46.9	94	64-143	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	54.8	110	64-142	
1,1,2-Trichloroethane	ug/L	ND	50	54.6	109	71-143	
1,1-Dichloroethane	ug/L	ND	50	40.8	82	68-139	
1,1-Dichloroethene	ug/L	ND	50	50.8	102	55-140	
1,1-Dichloropropene	ug/L	ND	50	48.0	96	66-140	
1,2,3-Trichlorobenzene	ug/L	ND	50	50.9	102	33-140	
1,2,3-Trichloropropane	ug/L	ND	100	103	103	58-133	
1,2,4-Trichlorobenzene	ug/L	ND	50	47.6	95	28-140	
1,2,4-Trimethylbenzene	ug/L	ND	50	52.8	106	39-146	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	49.8	100	39-140	
1,2-Dibromoethane (EDB)	ug/L	ND	50	51.6	103	67-134	
1,2-Dichlorobenzene	ug/L	ND	50	52.6	105	48-137	
1,2-Dichloroethane	ug/L	ND	50	50.5	101	63-148	
1,2-Dichloropropane	ug/L	ND	50	47.6	95	70-136	
1,3,5-Trimethylbenzene	ug/L	ND	50	52.8	106	39-145	
1,3-Dichlorobenzene	ug/L	ND	50	52.2	104	40-143	
1,3-Dichloropropane	ug/L	ND	50	53.8	108	65-133	
1,4-Dichlorobenzene	ug/L	ND	50	50.4	101	38-142	
2,2-Dichloropropane	ug/L	ND	50	49.0	98	35-157	
2-Butanone (MEK)	ug/L	ND	250	221	88	62-132	
2-Chlorotoluene	ug/L	ND	50	49.2	98	44-143	
2-Hexanone	ug/L	ND	250	285	114	61-141	

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QUALITY CONTROL DATA

Project: GP / 2829E-001
Pace Project No.: 5034229

MATRIX SPIKE SAMPLE: 395906

Parameter	Units	5034508003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
4-Chlorotoluene	ug/L	ND	50	51.3	103	43-140	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	255	102	57-135	
Acetone	ug/L	ND	250	228	91	30-170	
Acrolein	ug/L	ND	1000	1960	196	30-170	M0
Acrylonitrile	ug/L	ND	1000	963	96	66-137	
Benzene	ug/L	ND	50	44.7	89	63-141	
Bromobenzene	ug/L	ND	50	50.8	102	57-128	
Bromochloromethane	ug/L	ND	50	57.2	114	65-157	
Bromodichloromethane	ug/L	ND	50	47.9	96	63-135	
Bromoform	ug/L	ND	50	48.8	98	58-124	
Bromomethane	ug/L	ND	50	42.8	86	30-170	
Carbon disulfide	ug/L	ND	100	123	123	46-162	
Carbon tetrachloride	ug/L	ND	50	45.5	91	54-145	
Chlorobenzene	ug/L	ND	50	49.7	99	56-133	
Chloroethane	ug/L	ND	50	48.2	96	54-157	
Chloroform	ug/L	ND	50	45.5	91	67-134	
Chloromethane	ug/L	ND	50	36.9	74	36-137	
cis-1,2-Dichloroethene	ug/L	ND	50	45.4	91	65-132	
cis-1,3-Dichloropropene	ug/L	ND	50	54.2	108	46-121	
Dibromochloromethane	ug/L	ND	50	53.9	108	64-124	
Dibromomethane	ug/L	ND	50	45.2	90	67-144	
Dichlorodifluoromethane	ug/L	ND	50	40.2	80	30-163	
Ethyl methacrylate	ug/L	ND	50	54J	108	52-140	
Ethylbenzene	ug/L	ND	50	50.9	102	44-151	
Hexachloro-1,3-butadiene	ug/L	ND	50	51.0	102	30-145	
Iodomethane	ug/L	ND	100	45.5	45	28-168	
Isopropylbenzene (Cumene)	ug/L	ND	50	49.8	100	40-148	
Methyl-tert-butyl ether	ug/L	ND	100	93.2	93	52-156	
Methylene chloride	ug/L	ND	50	41.6	83	46-154	
n-Butylbenzene	ug/L	ND	50	57.0	114	27-153	
n-Hexane	ug/L	ND	50	56.0	112	32-176	
n-Propylbenzene	ug/L	ND	50	53.8	108	40-148	
Naphthalene	ug/L	ND	50	50.6	101	44-138	
p-Isopropyltoluene	ug/L	ND	50	53.5	107	34-146	
sec-Butylbenzene	ug/L	ND	50	54.0	108	38-150	
Styrene	ug/L	ND	50	51.7	103	38-141	
tert-Butylbenzene	ug/L	ND	50	46.9	94	32-133	
Tetrachloroethene	ug/L	ND	50	45.3	91	25-146	
Toluene	ug/L	ND	50	50.3	101	59-142	
trans-1,2-Dichloroethene	ug/L	ND	50	47.1	94	60-137	
trans-1,3-Dichloropropene	ug/L	ND	50	50.2	100	43-117	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	207	104	44-139	
Trichloroethene	ug/L	ND	50	47.7	95	61-137	
Trichlorofluoromethane	ug/L	ND	50	48.9	98	53-162	
Vinyl acetate	ug/L	ND	200	166	83	24-132	
Vinyl chloride	ug/L	ND	50	44.7	89	51-144	
Xylene (Total)	ug/L	ND	150	154	102	44-152	
4-Bromofluorobenzene (S)	%				98	70-126	

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7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: GP / 2829E-001
Pace Project No.: 5034229

MATRIX SPIKE SAMPLE: 395906

Parameter	Units	5034508003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dibromofluoromethane (S)	%				99	80-123	
Toluene-d8 (S)	%				109	80-116	

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QUALIFIERS

Project: GP / 2829E-001
Pace Project No.: 5034229

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-I	Pace Analytical Services - Indianapolis
PASI-K	Pace Analytical Services - Kansas City

ANALYTE QUALIFIERS

1d	Revised results. JLF 3/5/10.
2d	TCE reported from reanalysis out of hold. Results confirmed by original analysis, exceeding calibration range, ran within hold time. JLF 3/5/10.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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KERAMIDA
401 North College Avenue
Indianapolis, IN 46202
(317) 685-6600 - FAX (317) 685-6610

CHAIN OF CUSTODY RECORD

COC# 5735
5034229

Project No. 2829E 001/003
Project Name: G.P.
Report to: ROB Fedorchak
Client:
Samplers: (signature)
Sampled By: KERAMIDA Environmental, Inc.

Sample ID/Description	Date	Time	Comp	Grab	HCl	NaOH	HNO_3	H_2SO_4	Unpreserved	Other	VOC	TDC	MATRIX (SW / GW / WW / Soil / Air / Waste / Oil)	QA/QC Level	Detection Level	Comments
mw-10-1R	1-27	1115		X	12						X		GW	IIII	Res	ms/msd 001
Dup-02				X	4						X			IIII		001
mw-153		1030		X	12						X			IIII		ms/msd 001
Dup-01				X	4						X			IIII		001
mw-148R		1000		X	4						X			IIII		
mw-132R		930		X	4						X			IIII		
mw-147AR		900		X	4						X			II		
mw-157		1140		X	4						X			IV		
mw-151		1320		X	4						X	X		IV		
mw-156		1300		X	4			1			X	X		IV		
mw-173		1140		X	4			1			X	X		II		003
mw-163		1120		X	4			1			X	X		II		003
IW-1		1100		X	4			1			X	X		II		003

Analyses: VOC, TDC

Comments: Billings group 001/003

001 002 003 004 5 6 7 8 9

Logged Sep

Relinquished by: Sign/Date/Time	Received by: Sign/Date/Time	Relinquished by: Sign/Date/Time	Received for Lab: Sign/Date/Time
1600 1-27-10	1-27-10 1600	1-27-10 1641	1/27/10 1641
Relinquished by: Sign/Date/Time	Received by: Sign/Date/Time	Relinquished by: Sign/Date/Time	Received for Lab: Sign/Date/Time

Remarks:
1) No method substitution will be performed by the laboratory without KERAMIDA's authorization
2) Please notify KERAMIDA immediately upon receipt, if sample integrity is in question
3) If analysis cannot be conducted within required holding times, please notify KERAMIDA immediately
4) If requested detection limits cannot be achieved, please contact KERAMIDA immediately

W1 Client del.

Sample Condition:
Bottle Intact? Yes/No
Field Filtered? Yes/No
COC Seals Present & Intact? Yes/No
VOC Free of Headspace? Yes/No
VOC Preserved? Yes/No
Temperature upon Receipt: 1-8c

KERAMIDA
401 North College Avenue
Indianapolis, IN 46202
(317) 685-6600 - FAX (317) 685-6610

CHAIN OF CUSTODY RECORD

COC# 6503

Project No.: 2829E
Project Name: GP Former Allison Plant 10
Report to: Rob Fedorchak
Client:
Samplers: (signature) Alan W. Harper
Sampled By: KERAMIDA Environmental, Inc.

Sample ID/Description	Date	Time	Comp	Grab	# and Type of Containers: HCl	NaOH	HNO_3	H_2SO_4	Unpreserved	Other	Analyses: VOC	TOC	MATRIX (SW, GW, WW, Soil, Air, Waste Oil)	QA/QC Level	Detection Level	Comments	
IW-2	1-27-10	1040	✓	✓	4			1			✓	✓	GW	2	Risc Res	003	
MW-164	1-27-10	1420	✓	✓	4						✓			4		001	10
MW-150	1-27-10	1230	✓	✓	4						✓			4		001	11
MW-152	1-27-10	1300	✓	✓	4						✓			4		001	12
MW-133R	1-27-10	1330	✓	✓	4						✓			~~2~~ 4	per Fedorchak	001	
MW-146	1-27-10	1400	✓	✓	4						✓			4		001	13
MW-302	1-27-10	1420	✓	✓	4						✓			4		001	14
MW-160	1-27-10	1440	✓	✓	4						✓			4		001	15
MW-161	1-27-10	1500	✓	✓	4						✓			4		001	16

Relinquished by: Sign/Date/Time	Received by: Sign/Date/Time	Relinquished by: Sign/Date/Time	Received for Lab: Sign/Date/Time
Alan W. Harper 1-27-10 1641			1-27-10 1641
Relinquished by: Sign/Date/Time	Received by: Sign/Date/Time	Relinquished by: Sign/Date/Time	Received for Lab: Sign/Date/Time

Remarks: PACE LABS.

1) No method substitution will be performed by the laboratory without KERAMIDA's authorization
2) Please notify KERAMIDA immediately upon receipt, if sample integrity is in question
3) If analysis cannot be conducted within required holding times, please notify KERAMIDA immediately
4) If requested detection limits cannot be achieved, please contact KERAMIDA immediately

Sample Condition:
Bottle Intact? Yes/No
Field Filtered? Yes/No
COC Seals Present & Intact? Yes/No
VOC Free of Headspace? Yes/No
VOC Preserved? Yes/No
Temperature upon Receipt: 1.8°C

KERAMIDA
401 North College Avenue
Indianapolis, IN 46202
(317) 685-6600 - FAX (317) 685-6610

CHAIN OF CUSTODY RECORD

COC# 6504
5034229

Project No. 2829-E 001/003
Project Name G.P.
Report to: ROB Fedorchak
Client
Samplers: (signature)
Sampled By: KERAMIDA Environmental, Inc.

Sample ID/Description	Date	Time	Comp	Grab	HCl	NaOH	HNO_3	H_2SO_4	Unpreserved	Other	VOC (Analyses)	MATRIX (SW, GW, WW, Soil, Air, Waste Oil)	QA/QC Level	Detection Level	Comments
Equ. Blank	1-27	1500		X	4						X	GW	III	Rise Res	001

017

Relinquished by: Sign/Date/Time 1600 1-27-10
Received by: Sign/Date/Time 1-27-10 1600
Relinquished by: Sign/Date/Time 1-27-10 1601
Received for Lab: Sign/Date/Time 1/27/10 1604
Relinquished by: Sign/Date/Time
Received by: Sign/Date/Time
Relinquished by: Sign/Date/Time
Received for Lab: Sign/Date/Time

Remarks:
1) No method substitution will be performed by the laboratory without KERAMIDA's authorization
2) Please notify KERAMIDA immediately upon receipt, if sample integrity is in question
3) If analysis cannot be conducted within required holding times, please notify KERAMIDA immediately
4) If requested detection limits cannot be achieved, please contact KERAMIDA immediately

Sample Condition:
Bottle Intact? Yes/No
Field Filtered? Yes/No
COC Seals Present & Intact? Yes/No
VOC Free of Headspace? Yes/No
VOC Preserved? Yes/No
Temperature upon Receipt: 1.8°C

KERAMIDA
401 North College Avenue
Indianapolis, IN 46202
(317) 685-6600 - FAX (317) 685-6610

CHAIN OF CUSTODY RECORD

5634231

COC# 5735

~~5634229~~

Project No. 2829E 001/003

Project Name G.P.

Report to: ROB Fedorchak

Client

Samplers: (signature)

Sampled By: KERAMIDA Environmental, Inc.

Sample ID/Description	Date	Time	Comp	Grab	HCl	NaOH	HNO_3	H_2SO_4	Unpreserved	Other	VOC	TDL								MATRIX (SW / GW / WW / Soil / Air / Waste Oil)	QA/QC Level	Detection Level	Comments	
MW-10-1R	1-27	1115		X	~~5~~ 12						X									GW	IIII	RES	MS/MSD 001	001
DP-02				X	4						X										IIII		001	002
MW-153		1030		X	12						X										IIII		MS/MSD 001	003
DP-01				X	4						X										IIII		001	004
MW-148R		1000		X	4						X										IIII			5
MW-132R		930		X	4						X										IIII			6
MW-147AR		900		X	4						X										II			001 7
MW-157		1140		X	4						X										IV			8
MW-151		1320		X	4						X										IV			9
MW-156		1300		X	4			1			X	X									IV			10
MW-173		1140		X	4			1			X	X									II		003	002
MW-163		1120		X	4			1			X	X									II		003	003
IW-1		1100		X	4			1			X	X									II		003	004

Relinquished by: Sign/Date/Time	Received by: Sign/Date/Time	Relinquished by: Sign/Date/Time	Received for Lab: Sign/Date/Time
1600 1-27-10	1-27-10 1600	1/27/10 1641	1/27/10 1641

Remarks:

1) No method substitution will be performed by the laboratory without KERAMIDA's authorization
2) Please notify KERAMIDA immediately upon receipt, if sample integrity is in question
3) If analysis cannot be conducted within required holding times, please notify KERAMIDA immediately
4) If requested detection limits cannot be achieved, please contact KERAMIDA immediately

W/ Client del.

Sample Condition:
Bottle Intact? Yes/No
Field Filtered? Yes/No
COC Seals Present & Intact? Yes/No
VOC Free of Headspace? Yes/No
VOC Preserved? Yes/No
Temperature upon Receipt: 1-8°C

KERAMIDA
401 North College Avenue
Indianapolis, IN 46202
(317) 685-6600 - FAX (317) 685-6610

CHAIN OF CUSTODY RECORD

COC# 6503

Project No.: 2829E
Project Name: GP Former Allison Plant 10
Report to: Rob Fedorchak
Client:
Samplers: (signature) Alan W. Harper
Sampled By: KERAMIDA Environmental, Inc.

Sample ID/Description	Date	Time	Comp	Grab	HCl	NaOH	HNO_3	H_2SO_4	Unpreserved	Other	VOC	TOC	MATRIX (SW, GW, WW, Soil, Air, Waste, Oil)	QA/QC Level	Detection Level	Comments
IW-2	1-27-10	1040	✓	✓	4			1			✓	✓	GW	2	Rive Res	003
MW-164	1-27-10	1420	✓	✓	4						✓			4		001
MW-150	1-27-10	1230	✓	✓	4						✓			4		001
MW-152	1-27-10	1300	✓	✓	4						✓			4		001
MW-133R	1-27-10	1330	✓	✓	4						✓			4		001
MW-146	1-27-10	1400	✓	✓	4						✓			4		001
MW-302	1-27-10	1420	✓	✓	4						✓			4		001
MW-160	1-27-10	1440	✓	✓	4						✓			4		001
MW-161	1-27-10	1500	✓	✓	4						✓			4		001

Relinquished by: Sign/Date/Time 1-27-10 Alan W. Harper 1604
Received by: Sign/Date/Time
Relinquished by: Sign/Date/Time
Received for Lab: Sign/Date/Time 1-27-10 1604 Robert Allen Pace

Relinquished by: Sign/Date/Time
Received by: Sign/Date/Time
Relinquished by: Sign/Date/Time
Received for Lab: Sign/Date/Time

Remarks: VACE LABS.

1) No method substitution will be performed by the laboratory without KERAMIDA's authorization
2) Please notify KERAMIDA immediately upon receipt, if sample integrity is in question
3) If analysis cannot be conducted within required holding times, please notify KERAMIDA immediately
4) If requested detection limits cannot be achieved, please contact KERAMIDA immediately

Sample Condition:
Bottle Intact? Yes/No
Field Filtered? Yes/No
COC Seals Present & Intact? Yes/No
VOC Free of Headspace? Yes/No
VOC Preserved? Yes/No
Temperature upon Receipt: 1.8°C

KERAMIDA
401 North College Avenue
Indianapolis, IN 46202
(317) 685-6600 - FAX (317) 685-6610

CHAIN OF CUSTODY RECORD

COC# 6504

Project No. 2525-E 001/003
Project Name G.P.
Report to: Rob Fedorchak
Client
Samplers: (signature)
Sampled By: KERAMIDA Environmental, Inc.

Sample ID/Description	Date	Time	Comp	Grab	HCl	NaOH	HNO_3	H_2SO_4	Unpreserved	Other	VOC										MATRIX (SW, GW, WW, Soil, Air, Waste Oil)	QA/QC Level	Detection Level	Comments
Equ. Blank	1-27	1500		X	4						X										GW	IV	Rush Req	001

Relinquished by: Sign/Date/Time 1600 1-27-10
Received by: Sign/Date/Time 1-27-10 1600
Relinquished by: Sign/Date/Time 1-27-10 1601
Received for Lab: Sign/Date/Time 1/27/10 1641

Relinquished by: Sign/Date/Time
Received by: Sign/Date/Time
Relinquished by: Sign/Date/Time
Received for Lab: Sign/Date/Time

Remarks:
1) No method substitution will be performed by the laboratory without KERAMIDA's authorization
2) Please notify KERAMIDA immediately upon receipt, if sample integrity is in question
3) If analysis cannot be conducted within required holding times, please notify KERAMIDA immediately
4) If requested detection limits cannot be achieved, please contact KERAMIDA immediately

Sample Condition:
Bottle Intact? Yes/No
Field Filtered? Yes/No
COC Seals Present & Intact? Yes/No
VOC Free of Headspace? Yes/No
VOC Preserved? Yes/No
Temperature upon Receipt: 1.8°C

KERAMIDA
401 North College Avenue
Indianapolis, IN 46202
(317) 685-6600 - FAX (317) 685-6610

CHAIN OF CUSTODY RECORD

COC# 5448

Project No.: 2829E
Project Name: G.P.
Report to: Rob Fedorchak
Client:
Samplers: (signature)
Sampled By: KERAMIDA Environmental, Inc.

Sample ID/Description	Date	Time	Comp	Grab	HCl	NaOH	HNO_3	H_2SO_4	Unpreserved	Other	VOC	MATRIX (SW / GW / WW / Soil / Air / Waste Oil)	QA/QC Level	Detection Level	Comments
					# and Type of Containers						Analyses				5034508
MW-169S	2-3	1030		X	4						X	GW	IV	Rs Res	-001
MW-169D		1000		X	4						X				-002
MW-167S		1300		X	4						X				-003
MW-167D		1330		X	4						X				-004
Dup-03				X	4						X				-005
MW-165S		1430		X	4						X				-006
MW-165D		1400		X	4						X				-007
MW-166S		1530		X	4						X				-008
MW-166D		1500		X	4						X				-009
Eq. Blank		1600		X	4						X				-010
TRIP Blank					2						X				-011
TEMP Blank										1					

Relinquished by: Sign/Date/Time	Received by: Sign/Date/Time	Relinquished by: Sign/Date/Time	Received for Lab: Sign/Date/Time
1020 2/6/10	10:20 2/6/10		
Relinquished by: Sign/Date/Time	Received by: Sign/Date/Time	Relinquished by: Sign/Date/Time	Received for Lab: Sign/Date/Time

Remarks:
1) No method substitution will be performed by the laboratory without KERAMIDA's authorization
2) Please notify KERAMIDA immediately upon receipt, if sample integrity is in question
3) If analysis cannot be conducted within required holding times, please notify KERAMIDA immediately
4) If requested detection limits cannot be achieved, please contact KERAMIDA immediately

WE 42 01127
Clear
T= 1.8°C

Sample Condition:
Bottle Intact? Yes/No
Field Filtered? Yes/No
COC Seals Present & Intact? Yes/No
VOC Free of Headspace? Yes/No
VOC Preserved? Yes/No
Temperature upon Receipt:

Sample Condition Upon Receipt

Pace Analytical

Client Name: Pramida Project # 5034229

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☒ Other ICE

Thermometer Used 123456 **Type of Ice:** Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 1.8°C **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C **Comments:**

Date and Initials of person examining contents: 1/27/10

Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☐Yes	☑No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT				
All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes	☐No		Initial when completed ____ Lot # of added preservative ____
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	15.
Trip Blank Present:	☑Yes	☐No	☐N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if purchased): _____				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 1/27/10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

F-ALLC003rev.3, 11September2006

Sample Condition Upon Receipt

Pace Analytical

Client Name: Pramida Project # 503429 1 N

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☒ Other ICE

Thermometer Used 123456 Type of Ice: Wet Blue None ☐ Samples on Ice, cooling process has begun

Cooler Temperature 1.8°C Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 1/27/10 [illegible]

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☐Yes ☑No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: N **Date:** 1/28/10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

F-ALL-C003rev.3, 11September2006

Sample Condition Upon Receipt

Pace Analytical

Client Name: Keramida Project # 5034508

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer Used 1 2 3 4 5 6 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 1.8°C Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 2/6/10 ZT.

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☐No ☑N/A	6.
Rush Turn Around Time Requested:	☐Yes ☐No ☑N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: Water		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☑No ☐N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [signature] **Date:** 2/6/10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

F-ALLC003rev.3. 11September2006

Sample Container Count

CLIENT: Ramada

Pace Analytical
www.pacelabs.com

COC PAGE ___ of ___
COC ID# 6503

Project # _____

Sample Line Item	DG9H	AG1U	WGFU	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	VG9H			Comments
1							1						4			
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

Container Codes

DG9H	40mL HCL amber voa vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	BP3A	250mL NaOh, Asc Acid plastic	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Sample Container Count

CLIENT: Keramida

COC PAGE ____ of ____
COC ID# 0504

Project # _____

Pace Analytical
www.pacelabs.com

Sample Line Item	DG9H	AG1U	WGFU	R 4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	VG9H			Comments
1													4			
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

Container Codes

DG9H	40mL HCL amber voa vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	BP3A	250mL NaOh, Asc Acid plastic	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Sample Container Count

CLIENT: Keramida

COC PAGE ___ of ___
COC ID# 5735

Project # _____

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Sample Line Item	DG9H	AG1U	WGFU	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	VG9H			Comments
1													12			
2													4			
3													12			
4													4			
5																
6																
7																
8																
9																
10							1									
11							1									
12							1									
* 13							1						1	1		

Container Codes

DG9H	40mL HCL amber voa vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	BP3A	250mL NaOh, Asc Acid plastic	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Sample Container Count

CLIENT: Kennedy

Pace Analytical
www.pacelabs.com

COC PAGE ___ of ___
COC ID# 6503

Project # _____

Sample Line Item	DG9H	AG1U	WGFU	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	VG9H			Comments
1							1						4			
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

Container Codes

DG9H	40mL HCL amber voa vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	BP3A	250mL NaOh, Asc Acid plastic	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Sample Container Count

CLIENT: Keramida

COC PAGE ___ of ___
COC ID# 6504

Project # _____

Sample Line Item	DG9H	AG1U	WGFU	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	VG9H			Comments
1													4			
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

Container Codes

DG9H	40mL HCL amber voa vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	BP3A	250mL NaOh, Asc Acid plastic	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

F-IN-Q270-rev.1, 13May2009

Sample Container Count

CLIENT: Kennecla

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COC PAGE ___ of ___
COC ID# 5735

Project # _____

Sample Line Item	DG9H	AG1U	WGFU	R 4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	VG9H			Comments
1													12			
2													4			
3													12			
4													4			
5																
6																
7																
8																
9																
10							1									
11							1									
12							1									
13							1						1	1		

Container Codes

DG9H	40mL HCL amber voa vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	i	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	BP3A	250mL NaOh, Asc Acid plastic	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Sample Container Count

CLIENT: Keramida

COC PAGE ____ of ____
COC ID# 5448

Project # 5034508

Sample Line Item	DG9H	AG1U	WGFU	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H				Comments
1	4															
2																
3																
4																
5																
6																
7																
8																
9																
10	4															
11	2															
12																

Container Codes

DG9H	40mL HCL amber voa vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	BP3A	250mL NaOh, Asc Acid plastic	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

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VOA 8260B
GC/MS Volatiles

Project Number 5034229

Initials/ Date Compiled MF 2-11-10

Section 1: Prep and Analytical Information

** Sample Preparation Logs*
** Sample Analysis Logs*
** QC Summary Sheets*

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50MSV2.i
Column DB-624 20m X 0.18mm Helium Method:
Misc. Prep Info [L]: If pH = 0 , then analysis w/i 7 days of collection
ISTD lot: Surr. lot:
Tune std: _____ Cal. std: SF 1-27-10

Path/File	Lab ID	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
									↑ MDOE MBS-NECESSARY
1/A00BFB.D	bfb 34A-011	L/	BFB	1	-BFB390	1/26/10	12:24	jlf	
1/A01CAL.D	0.5ppb 34A-052/082	L/	CALIB_1	1	-8260-c1	1/26/10	12:58	jlf	
1/A02CAL.D	1ppb	L/	CALIB_2	1	-8260-c1	1/26/10	13:33	jlf	
1/A03CAL.D	5ppb	L/	CALIB_3	1	-8260-c1	1/26/10	14:07	jlf	
1/A04CAL.D	10ppb	L/	CALIB_4	1	-8260-c1	1/26/10	14:41	jlf	
1/A05CAL-CCV.D	50ppb	L/	CCALIB_5	1	-8260-c1	1/26/10	15:15	jlf	
1/A05CAL.D	50ppb	L/	CALIB_5	1	-8260-c1	1/26/10	15:15	jlf	
1/A06CAL.D	10ppb	L/	CALIB_6	1	-8260-c1	1/26/10	15:48	jlf	
1/A07CAL.D	200ppb	L/	CALIB_7	1	-8260-c1	1/26/10	16:23	jlf	
1/A08CAL.D	300ppb	L/	CALIB_8	1	-8260-c1	1/26/10	16:56	jlf	
1/A09ICV.D	icv 34A-054	L/	ICV	1	-8260-c1	1/26/10	17:30	jlf	CWLOE PBS F/L
1/A10MB.D	mb 34A-001	L/	BLANK	1	-8260-c1	1/26/10	18:04	jlf	
1/C00BFB.D	bfb 34A-011	L/	BFB	1	-BFB390	1/26/10	18:38	jlf	
1/C01CCV-BFB.D	bfb 34A-011	L/	BFB	1	-BFB390	1/26/10	19:12	jlf	
1/C01CCV.D	ccv 34A-052/082	L/	CCALIB_5	1	-8260-c1	1/26/10	19:12	jlf	↑ VC
1/C02LCS-CCV.D	lcs 34A-054	L/	CCALIB_5	1	-8260-c1	1/26/10	19:46	jlf	LCS ABCOUTOPT F/L
1/C02LCS.D	lcs 34A-054	L/	LCS	1	-8260-c1	1/26/10	19:46	jlf	
1/C03MB.D	mb 34A-001	L/	BLANK	1	-8260-c1	1/26/10	20:20	jlf	
1/C04.D W	5033822001	L/ 21335	SAMPLE	1	-8260-c1	1/26/10	20:54	jlf	
1/C05.D	5033822002	L/	SAMPLE	1	-8260-c1	1/26/10	21:27	jlf	
1/C06.D	5033822005	L/	SAMPLE	1	-8260-c1	1/26/10	22:01	jlf	
1/C07.D	5033822006	L/	SAMPLE	1	-8260-c1	1/26/10	22:35	jlf	
1/C08.D	5034061001	L/	SAMPLE	1	-8260-c1	1/26/10	23:08	jlf	
1/C09.D	5034061002	L/	SAMPLE	1	-8260-c1	1/26/10	23:42	jlf	
1/C10.D	5034061003	L/	SAMPLE	1	-8260-c1	1/27/10	00:16	jlf	
1/C11.D	5034061004	L/	SAMPLE	1	-8260-c1	1/27/10	00:50	jlf	
1/C12.D	5034061005	L/	SAMPLE	1	-8260-c1	1/27/10	01:24	jlf	
1/C13.D	5034091001	L/	SAMPLE	1	-8260-c1	1/27/10	01:58	jlf	
1/C14.D	r5034091001 ✓	L/	SAMPLE	25	-8260-c1	1/27/10	02:32	jlf	1/RPT PCE
1/C15.D	5034091002	L/	SAMPLE	1	-8260-c1	1/27/10	03:06	jlf	
1/C16.D	r5034091002 ✓	L/	SAMPLE	10	-8260-c1	1/27/10	03:40	jlf	1/RPT PCE
1/C17.D	5034091003	L/	SAMPLE	1	-8260-c1	1/27/10	04:13	jlf	* PCE RE RPT
1/C18.D	5034091004	L/	SAMPLE	1	-8260-c1	1/27/10	04:47	jlf	
1/C19.D	ms5034091004	L/	MS	1	-8260-c1	1/27/10	05:21	jlf	

File Path 1: \\50wintarget\chem\50MSV2.i\a012610.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 09:17 01/27/2010

Page: 1

All water samples
have a pH below 2
unless otherwise noted

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50MSV2.i
Column DB-624 20m X 0.18mm Helium Method:
Misc. Prep Info [L]: If pH = 0 , then analysis w/i 7 days of collection
ISTD lot: Surr. lot:
Tune std: _____ Cal. std: VF 21-10

Path/File	Lab ID	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/A00BFB.D	bfb 34A-095	L/	BFB	1	-BFB390	1/31/10	12:39	jlf	5 L
1/A01CCV.D	ccv 34A-052/082	L/	CCALIB_5	1	-8260-c1	1/31/10	13:12	jlf	
1/A02LCS.D	lcs 34A-054	L/	LCS	1	-8260-c1	1/31/10	13:46	jlf	
1/A03MB.D	mb 34A-001	L/	BLANK	1	-8260-c1	1/31/10	14:20	jlf	
1/A04.D	5034229001-1v14	L/ 2H4.25	SAMPLE	1 1:10	-8260-c1	1/31/10	14:54	jlf	↑ICE RESY.
1/A05.D	ms5034229001	L/	MS	1	-8260-c1	1/31/10	15:28	jlf	
1/A06.D	msd5034229001	L/	MSD	1	-8260-c1	1/31/10	16:03	jlf	
1/A07.D	5034229004	L/	SAMPLE	1	-8260-c1	1/31/10	16:36	jlf	
1/A08.D	5034229005	L/	SAMPLE	1	-8260-c1	1/31/10	17:10	jlf	↑IDLE RESY.
1/A09.D	5034229006	L/	SAMPLE	1	-8260-c1	1/31/10	17:44	jlf	
1/A10.D	5034229007	L/	SAMPLE	1	-8260-c1	1/31/10	18:18	jlf	
1/A11.D	5034229008	L/	SAMPLE	1	-8260-c1	1/31/10	18:52	jlf	
1/A12.D	5034229009	L/	SAMPLE	1	-8260-c1	1/31/10	19:26	jlf	
1/A13.D	5034229010	L/	SAMPLE	1	-8260-c1	1/31/10	20:00	jlf	
1/A14.D	5034229011	L/	SAMPLE	1	-8260-c1	1/31/10	20:34	jlf	
1/A15.D	5034229012	L/	SAMPLE	1	-8260-c1	1/31/10	21:08	jlf	
1/A16.D	5034229013	L/	SAMPLE	1	-8260-c1	1/31/10	21:42	jlf	
1/A17.D	5034229014	L/	SAMPLE	1	-8260-c1	1/31/10	22:16	jlf	
1/A18.D	5034229015	L/	SAMPLE	1	-8260-c1	1/31/10	22:49	jlf	
1/A19.D	5034229016	L/	SAMPLE	1	-8260-c1	1/31/10	23:23	jlf	
1/A20.D	5034229017	L/	SAMPLE	1	-8260-c1	1/31/10	23:57	jlf	

File Path 1: \\50wintarget\chem\50MSV2.i\a013110.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 10:21 02/01/2010

Page: 1

All water samples
have a pH below 2
unless otherwise noted

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50MSV2.i
Column DB-624 20m X 0.18mm Helium Method:
Misc. Prep Info [L]: If pH = 0 , then analysis w/i 7 days of collection
ISTD lot: Surr. lot:
Tune std: Cal std: SLF 2-2-10

Path/File	Lab ID	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/C22.D	r5034196017 (DW)	L/	SAMPLE	5	-8260-c1	22/02/10	10:51	jlf	(Clock changed to JAN) Dil not needed
1/A00BFB.D	bfb 34A-095	L/	BFB	1	-BFB390	2/01/10	09:54	jlf	
1/A01CCV.D	ccv 34A-052/082	L/	CCALIB_5	1	-8260-c1	2/01/10	10:28	jlf	↓VC
1/A02LCS-CCV.D	lcs 34A-054	L/	CCALIB_5	1	-8260-c1	2/01/10	11:02	jlf	LCS as CCV to rpt FIL
1/A02LCS.D	lcs 34A-054	L/	LCS	1	-8260-c1	2/01/10	11:02	jlf	
1/A03MB.D	mb 34A-001	L/	BLANK	1	-8260-c1	2/01/10	11:36	jlf	
1/A04.D W-	5034314001	L/21455	SAMPLE	1	-8260-c1	2/01/10	12:10	jlf	
1/A05.D	5034229002	L/	SAMPLE	1 (IV-4)	-8260-c1	2/01/10	12:44	jlf	
1/A06.D	5034229003	L/	SAMPLE	1	-8260-c1	2/01/10	13:18	jlf	
1/A07.D	ms5034229003	L/	MS	1	-8260-c1	2/01/10	13:53	jlf	
1/A08.D	msd5034229003	L/	MSD	1	-8260-c1	2/01/10	14:27	jlf	
1/A09.D	5034231001	L/	SAMPLE	1	-8260-c1	2/01/10	15:00	jlf	
1/A10.D	5034231002	L/	SAMPLE	1	-8260-c1	2/01/10	15:35	jlf	
1/A11.D	5034231003	L/	SAMPLE	1	-8260-c1	2/01/10	16:09	jlf	
1/A12.D	5034231004	L/	SAMPLE	1	-8260-c1	2/01/10	16:43	jlf	
1/A13.D	5034231005	L/	SAMPLE	1	-8260-c1	2/01/10	17:16	jlf	
1/A14.D	5034231006	L/	SAMPLE	1	-8260-c1	2/01/10	17:50	jlf	
1/A15.D	r5034229001 ✓	L/21428	SAMPLE	5 (IV-4)	-8260-c1	2/01/10	18:24	jlf	/Rpt TCE
1/A16.D	r5034229005 ✓	L/	SAMPLE	5	-8260-c1	2/01/10	18:57	jlf	/Rpt 1DCE
1/A17.D	5034266001	L/21455	SAMPLE	1	-8260-c1	2/01/10	19:32	jlf	
1/A18.D	5034266002	L/21455	SAMPLE	1	-8260-c1	2/01/10	20:06	jlf	
1/A19.D	5034266003	L/	SAMPLE	1	-8260-c1	2/01/10	20:40	jlf	
1/A20.D	5034305017	L/	SAMPLE	5	-8260-c1	2/01/10	21:14	jlf	Chtoil.
1/A21.D	fill	L/	SAMPLE	1	-8260-c1	2/01/10	21:47	jlf	
1/C00BFB.D	bfb 34A-095	L/	BFB	1	-BFB390	2/01/10	22:22	jlf	
1/C01CCV.D	ccv 34A-052/099	L/	CCALIB_5	1	-8260-c1	2/01/10	22:56	jlf	(Newest std) FIL
1/C02LCS.D	lcs 34A-054	L/	LCS	1	-8260-c1	2/01/10	23:30	jlf	
1/C03MB.D	mb 34A-001	L/	BLANK	1	-8260-c1	2/02/10	00:04	jlf	
1/C04.D W-	5034305001	L/21456	SAMPLE	1	-8260-c1	2/02/10	00:38	jlf	
1/C05.D	ms5034305001	L/	MS	1	-8260-c1	2/02/10	01:12	jlf	
1/C06.D	5034305002	L/	SAMPLE	1	-8260-c1	2/02/10	01:46	jlf	
1/C07.D	5034305003	L/	SAMPLE	1	-8260-c1	2/02/10	02:20	jlf	TB RR5K
1/C08.D	5034305004	L/	SAMPLE	1	-8260-c1	2/02/10	02:54	jlf	
1/C09.D	5034305005	L/	SAMPLE	1	-8260-c1	2/02/10	03:29	jlf	

File Path 1: \\50wintarget\chem\50MSV2.i\a020110.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 11:02 02/02/2010

Page: 1

All water samples have a pH below 2 unless otherwise noted

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50MSV2.i
Column DB-624 20m X 0.18mm Helium Method:
Misc. Prep Info [L]: If pH = 0 , then analysis w/i 7 days of collection
ISTD lot: Surr. lot:
Tune std: _____ Cal. std: SF 2-10-10

Path/File	Lab ID	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/A00BFB.D	bfb 34A-110	L/	BFB	1	-BFB390	2/09/10	10:46	jlf	F/L
1/A01CCV.D	ccv 34A-105/115	L/	CCALIB_5	1	-8260-c1	2/09/10	11:20	jlf	
1/A02LCS.D	lcs 34A-054	L/	LCS	1	-8260-c1	2/09/10	11:54	jlf	
1/A03MB.D	mb 34A-001	L/	BLANK	1	-8260-c1	2/09/10	12:28	jlf	
1/A04.D W -	5034162001	L/21592	SAMPLE	1	-8260-c1	2/09/10	13:02	jlf	
1/A05.D	5034162002	L/	SAMPLE	1	-8260-c1	2/09/10	13:36	jlf	
1/A06.D	5034162005	L/	SAMPLE	1	-8260-c1	2/09/10	14:11	jlf	
1/A07.D	5034162006	L/	SAMPLE	1	-8260-c1	2/09/10	14:45	jlf	
1/A08.D	5034508001-lvl4	L/	SAMPLE	1 (lvl-4)	-8260-c1	2/09/10	15:19	jlf	
1/A09.D	5034508002	L/	SAMPLE	1	-8260-c1	2/09/10	15:53	jlf	
1/A10.D	5034508003	L/	SAMPLE	1	-8260-c1	2/09/10	16:27	jlf	
1/A11.D	ms5034508003	L/	MS	1	-8260-c1	2/09/10	17:02	jlf	
1/A12.D	5034508004	L/	SAMPLE	1	-8260-c1	2/09/10	17:36	jlf	↑12DCE RR10%
1/A13.D	5034508005	L/	SAMPLE	1	-8260-c1	2/09/10	18:10	jlf	↑12DCE RR10%
1/A14.D	5034508006	L/	SAMPLE	1	-8260-c1	2/09/10	18:44	jlf	
1/A15.D	5034508007	L/	SAMPLE	1	-8260-c1	2/09/10	19:18	jlf	
1/A16.D	5034508008	L/	SAMPLE	1	-8260-c1	2/09/10	19:52	jlf	
1/A17.D	5034508009	L/	SAMPLE	1	-8260-c1	2/09/10	20:26	jlf	↑12DCE RR10%
1/A18.D	5034508010eb	L/	SAMPLE	1	-8260-c1	2/09/10	21:00	jlf	
1/A19.D	5034508011tb	L/	SAMPLE	1	-8260-c1	2/09/10	21:34	jlf	
1/A20.D	5034464001	L/	SAMPLE	1	-8260-c1	2/09/10	22:07	jlf	
1/A21.D	5034373001 ✓	L/21578	SAMPLE	25	-8260-c1	2/09/10	22:41	jlf	/Rpt 12DCE+PCE
1/C00BFB.D	bfb 34A-110	L/	BFB	1	-BFB390	2/09/10	23:15	jlf	F/L
1/C01CCV.D	ccv 34A-105/115	L/	CCALIB_5	1	-8260-c1	2/09/10	23:50	jlf	
1/C02LCS.D	lcs 34A-054	L/	LCS	1	-8260-c1	2/10/10	00:23	jlf	
1/C03MB.D	mb 34A-001	L/	BLANK	1	-8260-c1	2/10/10	00:58	jlf	
1/C04.D W -	5034546001	L/21594	SAMPLE	5	-8260-c1	2/10/10	01:32	jlf	Cnt dil
1/C05.D	r5034546001 ✓	L/	SAMPLE	100	-8260-c1	2/10/10	02:06	jlf	/Rpt 12DCE, E, MP, O
1/C06.D	5034546002	L/	SAMPLE	5	-8260-c1	2/10/10	02:40	jlf	Cnt dil
1/C07.D	r5034546002 ✓	L/	SAMPLE	100	-8260-c1	2/10/10	03:14	jlf	/Rpt E, MP, O, TPB.
1/C08.D	5034546003	L/	SAMPLE	5	-8260-c1	2/10/10	03:48	jlf	Cnt dil.
1/C09.D	r5034546003 ✓	L/	SAMPLE	50	-8260-c1	2/10/10	04:22	jlf	/Rpt. 12DCE, E, MP, O
1/C10.D	5034414002	L/	SAMPLE	1	-8260-c1	2/10/10	04:56	jlf	
1/C11.D	5034414003	L/	SAMPLE	1	-8260-c1	2/10/10	05:30	jlf	

File Path 1: \\50wintarget\chem\50MSV2.i\a020910.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 11:26 02/10/2010

All water samples have a pH below 2 unless otherwise noted

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50MSV2.i
Column DB-624 20m X 0.18mm Helium Method:
Misc. Prep Info [L]: If pH = 0 , then analysis w/i 7 days of collection
ISTD lot: Surr. lot:
Tune std: _____ Cal std: SK 2-11-10

Path/File	Lab ID	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/A00BFB.D	bfb 34A-110	L/	BFB	1	-BFB390	2/10/10	12:04	jlf	USE CCV AS BFB to save
1/A01CCV-BFB.D	bfb 34A-110	L/	BFB	1	-BFB390	2/10/10	12:38	jlf	last injection in 12 Hr time
1/A01CCV.D	ccv 34A-105/115	L/	CCALIB_5	1	-8260-c1	2/10/10	12:38	jlf	F/L
1/A02LCS.D	lcs 34A-054	L/	LCS	1	-8260-c1	2/10/10	13:12	jlf	
1/A03MB.D	mb 34A-001	L/	BLANK	1	-8260-c1	2/10/10	13:46	jlf	
1/A04.D	r5034508004-lv14	L/ 21592	SAMPLE	10 (1V1-4)	-8260-c1	2/10/10	14:19	jlf	1/4pt 12DCE
1/A05.D	r5034508005	L/	SAMPLE	10	-8260-c1	2/10/10	14:53	jlf	
1/A06.D	5034508009	L/	SAMPLE	10	-8260-c1	2/10/10	15:27	jlf	
1/A07.D	5034465001	L/ 21623	SAMPLE	1	-8260-c1	2/10/10	16:01	jlf	
1/A08.D	5034465002	L/	SAMPLE	1	-8260-c1	2/10/10	16:35	jlf	
1/A09.D	5034465003	L/	SAMPLE	1	-8260-c1	2/10/10	17:10	jlf	
1/A10.D	5034465004	L/	SAMPLE	1	-8260-c1	2/10/10	17:44	jlf	
1/A11.D	ms5034465004	L/	MS	1	-8260-c1	2/10/10	18:18	jlf	
1/A12.D	5034465005	L/	SAMPLE	1	-8260-c1	2/10/10	18:52	jlf	
1/A13.D	5034465006	L/	SAMPLE	1	-8260-c1	2/10/10	19:26	jlf	
1/A14.D	5034465007	L/	SAMPLE	1	-8260-c1	2/10/10	20:00	jlf	
1/A15.D	5034465008	L/	SAMPLE	1	-8260-c1	2/10/10	20:34	jlf	
1/A16.D	5034465009	L/	SAMPLE	1	-8260-c1	2/10/10	21:08	jlf	
1/A17.D	5034465010	L/	SAMPLE	1	-8260-c1	2/10/10	21:42	jlf	
1/A18.D	5034465011	L/	SAMPLE	1	-8260-c1	2/10/10	22:16	jlf	
1/A19.D	5034465012	L/	SAMPLE	1	-8260-c1	2/10/10	22:50	jlf	
1/A20.D	5034465013	L/	SAMPLE	1	-8260-c1	2/10/10	23:25	jlf	
1/A21.D	5034465014	L/	SAMPLE	1	-8260-c1	2/10/10	23:58	jlf	
1/A22.D	5034465015tb	L/	SAMPLE	1	-8260-c1	2/11/10	00:33	jlf	

File Path 1: \\50wintarget\chem\50MSV2.i\a021010.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 09:45 02/11/2010

All water samples
have a pH below 2
unless otherwise noted

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: A013110.B

Lab File ID (Standard): A01CCV Date Analyzed: 01/31/10

Instrument ID: 50MSV2 Time Analyzed: 1312

GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS1(CBZ) AREA #	RT #	IS2(DCB) AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	322201	7.39	147283	9.13	366735	4.16
	UPPER LIMIT	644402	7.89	294566	9.63	733470	4.66
	LOWER LIMIT	161101	6.89	73642	8.63	183368	3.66
	EPA SAMPLE NO.						
01	LCS	317660	7.39	145024	9.13	362690	4.16
02	MB	326613	7.39	151628	9.13	370747	4.16
03	5034229001	319475	7.39	149213	9.13	368445	4.17
04	MS5034229001	318801	7.39	144692	9.13	358560	4.16
05	MSD503422900	318624	7.39	146284	9.13	358186	4.16
06	5034229004	321884	7.39	148608	9.13	365388	4.17
07	5034229005	324415	7.39	149969	9.13	371503	4.17
08	5034229006	324711	7.40	148822	9.13	368517	4.17
09	5034229007	318096	7.39	148177	9.13	365532	4.17
10	5034229008	316802	7.40	145791	9.13	361080	4.17
11	5034229009	319058	7.40	149047	9.13	368223	4.17
12	5034229010	315713	7.39	145491	9.13	361396	4.17
13	5034229011	312231	7.39	144145	9.13	357811	4.17
14	5034229012	317530	7.39	146292	9.13	361925	4.17
15	5034229013	312968	7.39	144073	9.13	357951	4.17
16	5034229014	313392	7.40	143847	9.13	356850	4.17
17	5034229015	306345	7.40	145592	9.13	350465	4.17
18	5034229016	309019	7.40	142777	9.13	347390	4.17
19	5034229017	316842	7.39	148733	9.13	357125	4.17
20							
21							
22							

IS1 (CBZ) = Chlorobenzene-d5
IS2 (DCB) = 1,4-Dichlorobenzene-d4
IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: A020110.B

Lab File ID (Standard): A02LCS-CCV Date Analyzed: 02/01/10

Instrument ID: 50MSV2 Time Analyzed: 1102

GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS1(CBZ) AREA #	RT #	IS2(DCB) AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	312270	7.39	144716	9.12	345945	4.16
	UPPER LIMIT	624540	7.89	289432	9.62	691890	4.66
	LOWER LIMIT	156135	6.89	72358	8.62	172973	3.66
	EPA SAMPLE NO.						
01		312270	7.39	144716	9.12	345945	4.16
02	MB	308303	7.39	145488	9.13	350256	4.16
03	5034314001	308043	7.39	142446	9.13	348769	4.16
04	5034229002	313732	7.40	144644	9.13	362126	4.17
05	5034229003	304625	7.39	138797	9.13	356589	4.17
06	MS5034229003	304051	7.40	139434	9.13	357292	4.17
07	MSD503422900	284690	7.40	127184	9.13	338194	4.17
08	5034231001	296215	7.40	131677	9.13	366555	4.18
09	5034231002	298204	7.40	132527	9.14	383159	4.18
10	5034231003	305782	7.40	134876	9.13	397554	4.18
11	5034231004	294662	7.40	128609	9.14	383452	4.18
12	5034231005	296696	7.40	126172	9.13	395776	4.17
13	5034231006	293844	7.40	126810	9.13	389168	4.18
14	5034229001	296965	7.40	128941	9.14	399740	4.17
15	5034229005	287943	7.40	123730	9.13	387850	4.17
16	5034266001	291413	7.40	129865	9.13	398352	4.18
17	5034266002	297670	7.40	129179	9.13	404229	4.17
18	5034266003	300952	7.40	129319	9.14	409353	4.17
19	5034305017	287940	7.40	128130	9.13	385190	4.17
20		298063	7.39	130987	9.13	405559	4.17
21							
22							

IS1 (CBZ) = Chlorobenzene-d5
IS2 (DCB) = 1,4-Dichlorobenzene-d4
IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: A020910.B

Lab File ID (Standard): A01CCV Date Analyzed: 02/09/10

Instrument ID: 50MSV2 Time Analyzed: 1120

GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS1(CBZ) AREA #	RT #	IS2(DCB) AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	299023	7.41	129503	9.14	401977	4.18
	UPPER LIMIT	598046	7.91	259006	9.64	803954	4.68
	LOWER LIMIT	149512	6.91	64752	8.64	200989	3.68
	EPA SAMPLE NO.						
01	LCS	259957	7.41	114772	9.15	339657	4.19
02	MB	262937	7.41	116017	9.15	347708	4.19
03	5034162001	263536	7.41	115195	9.14	353297	4.19
04	5034162002	268102	7.41	115524	9.15	363163	4.19
05	5034162005	268504	7.41	118720	9.15	361124	4.19
06	5034162006	267349	7.41	114964	9.15	360700	4.19
07	5034508001	265129	7.41	117209	9.15	358442	4.19
08	5034508002	265544	7.42	117213	9.15	357700	4.20
09	5034508003	266093	7.41	116763	9.15	359041	4.20
10	MS5034508003	260581	7.41	115366	9.15	343389	4.19
11	5034508004	264363	7.41	117389	9.15	357695	4.19
12	5034508005	256968	7.41	112793	9.15	345953	4.19
13	5034508006	260871	7.41	116606	9.15	355990	4.19
14	5034508007	259380	7.41	114421	9.15	346140	4.19
15	5034508008	258875	7.41	114654	9.15	349293	4.20
16	5034508009	257566	7.42	111739	9.15	345162	4.20
17	5034508010	255954	7.41	110901	9.15	347060	4.20
18	5034508011	257113	7.41	111244	9.15	344224	4.20
19	5034464001	262871	7.41	114098	9.15	353261	4.20
20	5034373001	261659	7.41	115296	9.15	352905	4.19
21							
22							

IS1 (CBZ) = Chlorobenzene-d5
IS2 (DCB) = 1,4-Dichlorobenzene-d4
IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: A021010.B

Lab File ID (Standard): A01CCV Date Analyzed: 02/10/10

Instrument ID: 50MSV2 Time Analyzed: 1238

GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS1(CBZ) AREA #	RT #	IS2(DCB) AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	275548	7.40	119629	9.14	372422	4.18
	UPPER LIMIT	551096	7.90	239258	9.64	744844	4.68
	LOWER LIMIT	137774	6.90	59815	8.64	186211	3.68
	EPA SAMPLE NO.						
01	LCS	282768	7.40	120948	9.14	374089	4.18
02	MB	277236	7.40	122521	9.14	379632	4.18
03	5034508004	278390	7.40	120394	9.14	380333	4.18
04	5034508005	276760	7.40	117490	9.14	376296	4.18
05	5034508009	276536	7.40	119635	9.14	371146	4.18
06	5034465001	269854	7.40	114287	9.14	368580	4.18
07	5034465002	271886	7.40	118718	9.14	365052	4.18
08	5034465003	270563	7.40	117564	9.14	364399	4.18
09	5034465004	269150	7.40	117147	9.14	364013	4.18
10	MS5034465004	263120	7.40	113804	9.14	352581	4.18
11	5034465005	264923	7.40	116593	9.14	361365	4.19
12	5034465006	264740	7.40	112764	9.14	362993	4.19
13	5034465007	264904	7.40	113878	9.13	361546	4.18
14	5034465008	268526	7.40	114549	9.13	368340	4.18
15	5034465009	271913	7.40	120948	9.14	374665	4.18
16	5034465010	274922	7.40	121019	9.14	374046	4.17
17	5034465011	271806	7.40	120129	9.13	369431	4.18
18	5034465012	275761	7.40	119980	9.13	377694	4.17
19	5034465013	269191	7.40	116963	9.13	367846	4.18
20	5034465014	276232	7.40	121016	9.14	378302	4.17
21	5034465015	268719	7.40	116739	9.13	371297	4.17
22							

IS1 (CBZ) = Chlorobenzene-d5
IS2 (DCB) = 1,4-Dichlorobenzene-d4
IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOA 8260B
GC/MS Volatiles

Section 2: Initial Calibration Data

** Initial Calibration Summary Table*
** BFB Tune Information*
** Initial Calibration Standards*
** ICV Standard*

Initial Calibrations included:
(Instrument name and calibration date)

ICAL 1: SD MSV-2 G1 1-26-10

ICAL 2: _____

ICAL 3: _____

ICAL 4: _____

Report Date : 27-Jan-2010 09:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-JAN-2010 12:58
End Cal Date : 26-JAN-2010 16:56
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV2.i\a012610.b\-8260-c1.m
Last Edit : 27-Jan-2010 08:51 jfislar

Reviewed JFB 1/27/10

Calibration File Names:
Level 1: \\50wintarget\chem\50MSV2.i\a012610.b\A01CAL.D
Level 2: \\50wintarget\chem\50MSV2.i\a012610.b\A02CAL.D
Level 3: \\50wintarget\chem\50MSV2.i\a012610.b\A03CAL.D
Level 4: \\50wintarget\chem\50MSV2.i\a012610.b\A04CAL.D
Level 5: \\50wintarget\chem\50MSV2.i\a012610.b\A05CAL.D
Level 6: \\50wintarget\chem\50MSV2.i\a012610.b\A06CAL.D
Level 7: \\50wintarget\chem\50MSV2.i\a012610.b\A07CAL.D
Level 8: \\50wintarget\chem\50MSV2.i\a012610.b\A08CAL.D

All CCC < 30% RSD.

Compound	0.5000000 Level 1 / 200.0000 Level 7	1.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	50.0000 Level 5	100.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
1 Dichlorodifluoromethane	867	2777	18498	40724	225267	411333					
	649510	861955					LINR	-0.08513	0.49326		0.99355
2 Chloromethane	0.36146	0.40185	0.42107	0.47311	0.45306	0.44998					
	0.47818	0.49220					AVRG		0.44136		9.95585
3 Vinyl Chloride	1199	2463	17560	38581	192422	344411					
	553181	781192					LINR	-0.06324	0.43687		0.99797

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4 Bromomethane	4672	4486	8360	15737	45429	+++++						(0.5-50)
	+++++	+++++					LINR	-0.11800	0.11003		0.99156	
5 Chloroethane	115	1359	10202	21614	100189	+++++						(0.5-50)
	+++++	+++++					LINR	-0.00035	0.26799		0.99937	
6 Trichlorofluoromethane	1306	2692	19084	41833	207659	340282						(0.5-100)
	+++++	+++++					LINR	-0.01656	0.49571		0.99550	
28 1,2-dichlorotrifluoroethane	1715	4468	21884	42879	194029	344055						
	510560	711024					LINR	-0.12300	0.39868		0.99392	
7 Diethyl ether	425	1713	8352	17170	77455	137427						
	212245	295186					LINR	-0.10254	0.16548		0.99589	
17 tert-Butyl Alcohol	+++++	221	2849	5957	26822	49398						
	110478	152751					LINR	0.17857	0.04341		0.99539	<- ok
8 Acrolein	0.03454	0.02929	0.03598	0.03774	0.03727	0.03541						
	0.03184	0.02954					AVRG		0.03395		9.80716	

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Compound	0.5000000 Level 1 / 200.0000 Level 7	1.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	50.0000 Level 5	100.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
10 1,1,2trichlorotrifluoroethane	797	3113	15792	30761	139802	245452						
	364207	505817					LINR	-0.12579	0.28387		0.99359	
9 1,1-Dichloroethene	437	2787	13444	25689	116821	211479						
	309285	443032					LINR	-0.10910	0.24665		0.99471	
11 Acetone	3231	5646	20300	36713	153131	270046						
	438445	639112					LINR	-0.37585	0.07036		0.99911	
12 Iodomethane	+++++	590	6804	21150	186799	400819						
	477811	625698					QUAD	0.20409	1.85935	1.84404	0.99147	<- ok
13 Carbon Disulfide	0.94960	1.02863	0.94165	0.95980	0.85685	0.80963						
	0.70034	0.69197					AVRG		0.86731		14.38339	
14 allyl chloride	3505	8487	37853	76651	324409	590425						
	893340	1234547					LINR	-0.23357	0.34655		0.99488	
145 Acetonitrile	+++++	+++++	+++++	+++++	0.00013	0.00011						
	0.00011	0.00011					AVRG		0.00012		8.72178	<- MC

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138 Methyl Acetate	1025	3065	11244	22732	92155	177156					
	280378	414661					LINR	-0.05224	0.22841		0.99885
15 Methylene Chloride	2962	4906	15940	30030	126919	229716					
	374882	542323					LINR	-0.06830	0.29948		0.99927
16 Acrylonitrile	9479	24646	109594	210283	911600	1599099					
	2637978	3619018					LINR	-1.78207	0.10154		0.99760
19 Methyl-tert-butyl ether	6515	16338	77243	149240	643686	1136638					
	1849264	2575982					LINR	-0.17276	0.71968		0.99795
18 1,2-Dichloroethene (trans)	856	2905	14275	27563	124009	227796					
	375620	554648					LINR	-0.03560	0.30581		0.99947
20 n-Hexane	0.28769	0.37702	0.39756	0.40260	0.38856	0.37727					
	0.33690	0.32992					AVRG		0.36219		11.07207
21 1,1-Dichloroethane	0.56386	0.69389	0.66251	0.68233	0.60235	0.58698					
	0.54740	0.54786					AVRG		0.61090		9.88344

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23 Vinyl Acetate	0.58608	0.75131	0.75162	0.72305	0.65053	0.61728					
	0.57827	0.53057					AVRG		0.64859		13.09275
140 Ethyl acetate	239	2252	13209	25352	120154	216090					
	356376	523546					LINR	-0.37522	0.02892		0.99938
147 Chloroprene	0.39739	0.52007	0.51836	0.51962	0.47307	0.44558					
	0.40285	0.39671					AVRG		0.45921		12.24544
24 2,2-Dichloropropane	0.40205	0.45358	0.52162	0.51504	0.45667	0.43740					
	0.39808	0.38784					AVRG		0.44654		11.46203
25 1,2-Dichloroethene (cis)	866	3069	16753	32785	155108	286692					
	474044	679422					LINR	-0.04301	0.37801		0.99930
26 2-Butanone	0.12928	0.17382	0.17961	0.17993	0.15632	0.14323					
	0.14053	0.13714					AVRG		0.15498		13.15780
27 Propionitrile	+++++	+++++	887	3190	18693	35704					
	66946	97771					LINR	0.07755	0.05489		0.99976 <-

dc
Ntc

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29 Bromochloromethane	277	1784	10091	21237	95010	162128					
	260024	366326					LINR	-0.08753	0.20423		0.99754
146 Methacrylonitrile	2952	478	6499	13602	70031	127900					
	221141	320410					LINR	-0.09302	0.03556		0.99988
31 Chloroform	0.45553	0.61995	0.67129	0.65081	0.58431	0.57186					
	0.53446	0.51876					AVRG		0.57587		12.48906
33 1,1,1-Trichloroethane	1268	4327	21536	43227	206205	373301					
	617202	881122					LINR	-0.04932	0.49049		0.99914
30 Tetrahydrofuran	4980	5927	8207	12675	39076	66600					
	117676	163173					LINR	-0.16330	0.08908		0.99959
34 cyclohexane	1147	3993	21706	43241	202768	363682					
	590689	849564					LINR	-0.05707	0.47175		0.99887
37 Isobutyl alcohol	0.64641	0.86909	0.89803	0.89965	0.78160	0.71615					
	0.70265	0.68572					AVRG		0.77491		13.15780

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35 Carbon Tetrachloride	0.33157	0.52159	0.51987	0.52583	0.49526	0.47713					
	0.44389	0.43636					AVRG		0.46894		13.94199
36 1,1-Dichloropropene	0.33020	0.42875	0.50214	0.49255	0.45890	0.44221					
	0.41328	0.41213					AVRG		0.43502		12.42778
38 Benzene	1.11017	1.42379	1.37507	1.34199	1.25403	1.21702					
	1.15906	1.15199					AVRG		1.25414		9.17583
141 isopropyl acetate	0.06752	0.03581	+++++	+++++	0.00077	0.00037					
	0.00015	0.00011					AVRG		0.01746		162 <- Nfc
39 1,2-Dichloroethane	156	3163	16018	34092	152264	267822					
	453036	632118					LINR	-0.05919	0.35368		0.99878
41 Trichloroethene	471	2592	13933	28410	135443	249129					
	415099	593294					LINR	-0.03993	0.33045		0.99935
139 Methylcyclohexane	937	3016	15175	31848	148596	262381					
	427247	597937					LINR	-0.07270	0.33447		0.99805

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42 1,2-Dichloropropane	486	2291	12096	25196	113476	204047						
	351689	509328					WLINR	-0.02732	0.28228		0.99984	
43 Dibromomethane	114	1107	8709	17967	84480	154913						
	265286	379012					LINR	-0.02730	0.21118		0.99968	
44 Methyl methacrylate	+++++	693	8266	16980	93307	169988						
	306753	435820					LINR	0.00079	0.24375		0.99982	<- OK
143 2,2,4-Trimethylpentane	0.58032	0.80205	0.80470	0.81428	0.77348	0.75232						
	0.70148	0.68205					AVRG		0.73883		10.87079	
144 1,4-Dioxane	+++++	+++++	+++++	+++++	0.00009	0.00013						Not spiked
	0.00026	0.00026					AVRG		0.00018		49.13490	<- NC
45 Bromodichloromethane	680	2695	16187	32655	163294	298447						
	515128	731168					LINR	-0.02556	0.40828		0.99964	
46 2-Chloroethyl vinyl ether	520	2427	16105	33430	168248	303274						
	553562	789362					LINR	-0.02194	0.50559		0.99970	

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47 cis-1,3-Dichloropropene	790	3249	17888	37417	185095	340398					
	590840	840091					LINR	-0.04316	0.53854		0.99908
48 4-Methyl-2-Pentanone	0.33273	0.40803	0.40667	0.40618	0.34794	0.32295					
	0.30378	0.28989					AVRG		0.35227		13.77318
50 Toluene	1.46238	1.78187	1.69075	1.68282	1.53894	1.45217					
	1.33422	1.29167					AVRG		1.52935		11.55157
51 trans-1,3-Dichloropropene	823	2717	16658	34009	180237	323037					
	573082	818173					LINR	-0.03301	0.52397		0.99941
52 Ethyl Methacrylate	380	2838	15766	33830	167926	298059					
	544516	771017					LINR	-0.02906	0.49450		0.99951
53 1,1,2-Trichloroethane	138	1394	8963	18380	85211	152834					
	264620	374737					LINR	-0.05653	0.24009		0.99883
54 Tetrachloroethene	1768	5095	19438	44545	191367	323098					
	488671	781625					LINR	-0.07581	0.48506		0.99408

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55 1,3-Dichloropropane	1197	3940	20434	39722	180944	320913					
	572217	812047					LINR	-0.04995	0.51915		0.99937
56 2-Hexanone	2196	6530	39105	80662	371106	641074					
	1170153	1620988					LINR	-0.26806	0.20873		0.99873
57 Dibromochloromethane	0.32845	0.38387	0.45732	0.45418	0.44233	0.43507					
	0.42108	0.41491					AVRG		0.41715		10.30496
58 1,2-Dibromoethane	774	2393	13859	27629	134941	244694					
	438752	619802					LINR	-0.03729	0.39768		0.99937
60 Chlorobenzene	0.97811	1.22696	1.14874	1.14720	1.04707	1.00188					
	0.95949	0.94435					AVRG		1.05673		9.92503
61 1,1,1,2-Tetrachloroethane	0.28101	0.37478	0.42683	0.42980	0.40118	0.38479					
	0.36995	0.36257					AVRG		0.37886		12.36600
62 Ethylbenzene	0.46550	0.62133	0.60519	0.61749	0.56444	0.53591					
	0.51808	0.51782					AVRG		0.55572		10.09482

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63 m&p-Xylene	0.56680	0.79608	0.80438	0.78909	0.71130	0.68034						
	0.65503	0.64819					AVRG		0.70640		12.04758	
65 o-Xylene	0.52677	0.72031	0.77602	0.76881	0.70567	0.68024						
	0.66887	0.66251					AVRG		0.68865		11.34144	
66 Styrene	0.79131	1.13922	1.24917	1.25453	1.14766	1.08767						
	1.05368	1.03343					AVRG		1.09458		13.45025	
67 Bromoform	+++++	864	8462	19258	102749	187465						
	342381	493444					LINR	0.01343	0.72546		0.99986	<- ok
68 Isopropylbenzene	1.47523	1.97008	1.94905	1.93731	1.75280	1.63047						
	1.53543	1.48036					AVRG		1.71634		12.50819	
69 trans-1,4-Dichloro-2-butene	+++++	133	3359	6836	37820	63515						
	127243	174473					LINR	-0.00946	0.11304		0.99826	<- ok
142 n-amyl acetate	0.03512	0.01963	+++++	0.00286	0.00044	0.00017						
	0.00008	0.00007					AVRG		0.00834		165	<- ok

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71 Bromobenzene	1715	4789	23977	47824	177503	318770					
	567432	803719					LINR	-0.06678	0.51229		0.99934
72 1,1,2,2-Tetrachloroethane	0.75037	1.01520	1.01927	1.00595	0.93292	0.91472					
	0.89544	0.88158					AVRG		0.92693		9.73236
73 1,2,3-Trichloropropane	0.83615	1.31558	1.18895	1.14660	1.05713	1.04723					
	1.04246	1.02009					AVRG		1.08177		12.97173
74 n-Propylbenzene	3.14061	4.04747	4.14470	4.09249	3.70453	3.63291					
	3.40096	3.36409					AVRG		3.69097		10.19709
75 2-Chlorotoluene	2.33185	2.93910	2.64816	2.62677	2.30694	2.25573					
	2.13739	2.12438					AVRG		2.42129		11.87870
77 1,3,5-Trimethylbenzene	2.30302	2.92076	2.95223	2.97429	2.70432	2.64144					
	2.52140	2.50193					AVRG		2.68992		9.09477
76 4-Chlorotoluene	603	2233	12475	24589	114590	209119					
	384108	560006					LINR	0.00727	0.81849		0.99968

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78 tert-Butylbenzene	2.16822	3.46757	3.45598	3.34391	3.09720	3.11642					
	3.07812	3.05687					AVRG		3.09804		13.32057
79 1,2,4-Trimethylbenzene	2.48611	2.92327	2.91124	2.96774	2.59674	2.55960					
	2.44185	2.42601					AVRG		2.66407		8.67259
80 sec-Butylbenzene	2.75786	3.73593	3.63947	3.72709	3.40358	3.35167					
	3.20389	3.21981					AVRG		3.37991		9.74615
81 1,3-Dichlorobenzene	1.38974	1.56992	1.67538	1.61735	1.54112	1.53302					
	1.48401	1.48738					AVRG		1.53724		5.69637
83 p-Isopropyltoluene	2.11921	2.88658	2.91391	2.95393	2.75861	2.72526					
	2.65479	2.68921					AVRG		2.71269		9.72651
84 1,4-Dichlorobenzene	1.45606	1.73540	1.68989	1.69998	1.57069	1.57046					
	1.51104	1.52754					AVRG		1.59513		6.35079
86 n-Butylbenzene	1211	3774	27242	59276	300731	540873					
	964966	1353352					LINR	-0.01938	1.99964		0.99966

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-JAN-2010 12:58
End Cal Date : 26-JAN-2010 16:56
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV2.i\a012610.b\-8260-c1.m
Last Edit : 27-Jan-2010 08:51 jfislar

Compound	0.5000000 Level 1 / 200.0000 Level 7	1.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	50.0000 Level 5	100.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
85 1,2-Dichlorobenzene	1.06465	1.38105	1.56796	1.59421	1.47068	1.46944						
	1.42285	1.42655					AVRG		1.42467		11.40848	
87 1,2-Dibromo-3-chloropropane	+++++	+++++	1744	4182	25847	47348						
	96007	137081					LINR	0.09208	0.20419		0.99943	<- dk
88 1,2,4-Trichlorobenzene	+++++	437	7844	19753	123630	236003						
	453804	650820					LINR	0.06021	0.96401		0.99979	<- dk
89 Hexachlorobutadiene	131	339	3987	9085	48291	86893						
	161521	233975					LINR	0.01943	0.34340		0.99983	
90 Naphthalene	+++++	116	12525	37607	268577	507975						
	1035404	1497564					LINR	0.10001	2.22291		0.99907	<- dk
91 1,2,3-Trichlorobenzene	+++++	+++++	6732	16027	100227	195231						
	384416	549042					LINR	0.09192	0.81877		0.99966	<- dk
92 2,methyl-naphthalene	+++++	+++++	+++++	+++++	23266	97221						
	311350	499395					LINR	0.96967	0.86924		0.99634	<- MC

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-JAN-2010 12:58
End Cal Date : 26-JAN-2010 16:56
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV2.i\a012610.b\-8260-c1.m
Last Edit : 27-Jan-2010 08:51 jfislar

Compound	0.5000000 Level 1	1.0000 Level 2	5.0000 Level 3	10.0000 Level 4	50.0000 Level 5	100.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	200.0000 Level 7	300.0000 Level 8									
$ 32 Dibromofluoromethane (S)	0.31127	0.31276	0.30832	0.31156	0.30524	0.30451					
	0.30048	0.29540					AVRG		0.30619		1.97121
$ 49 Toluene-d8	1.08099	1.07936	1.09389	1.07405	1.04902	1.03989					
	1.01046	0.99236					AVRG		1.05250		3.45672
$ 70 4-Bromofluorobenzene	0.43750	0.44753	0.45184	0.44920	0.45018	0.43822					
	0.43681	0.42984					AVRG		0.44264		1.81611

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-JAN-2010 12:58
End Cal Date : 26-JAN-2010 16:56
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV2.i\a012610.b\-8260-c1.m
Last Edit : 27-Jan-2010 08:51 jfislar

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Wt Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

Data File: \\50wintarget\chem\50MSV2.i\a012610.b\A00BFB.D

Date : 26-JAN-2010 12:24

Client ID: bfb050

Instrument: 50MSV2.i

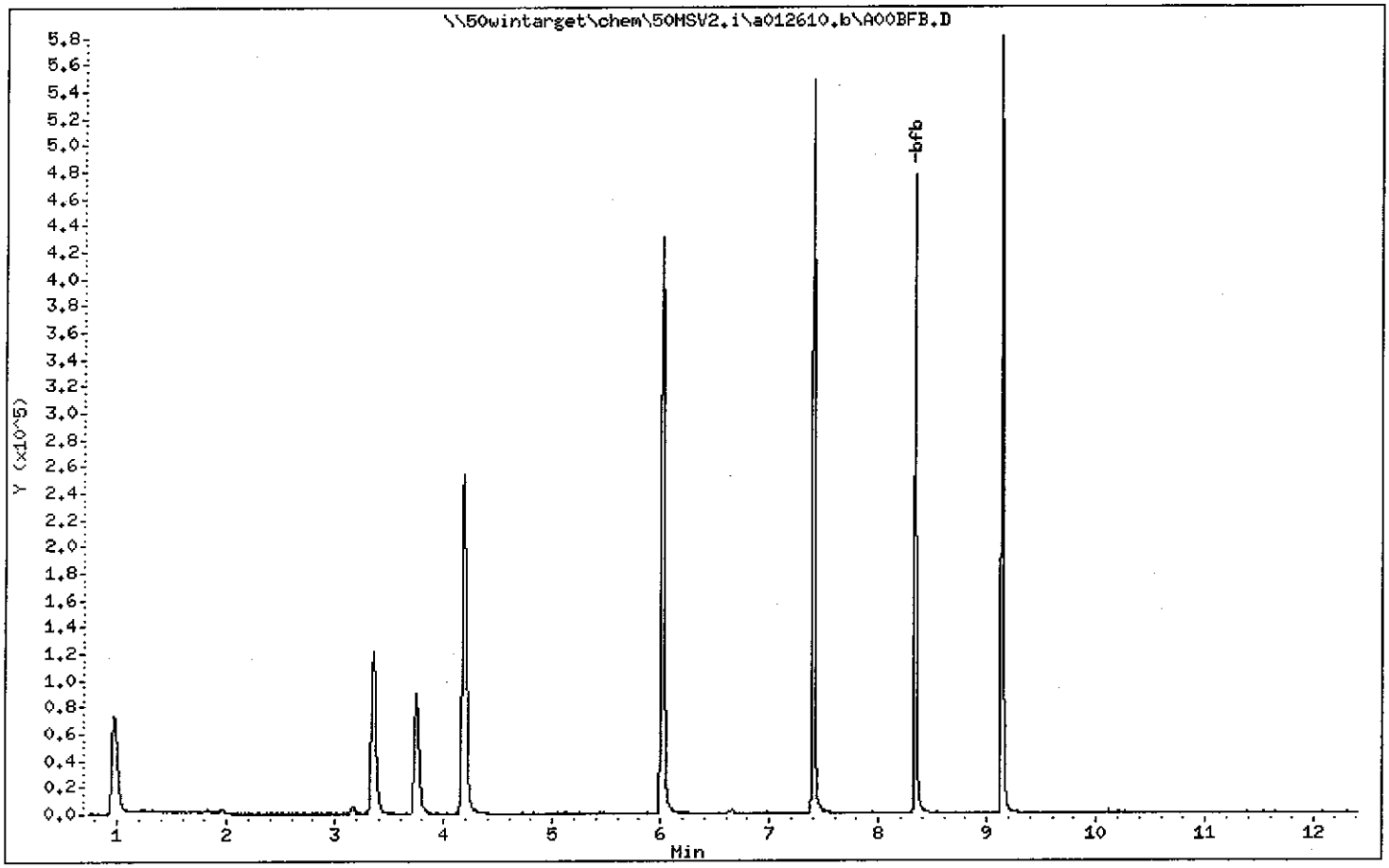
Sample Info: bfb 34A-011

Volume Injected (uL): 5.0

Operator: jlf

Column phase: DB-624

Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV2.i\a012610.b\A00BFB.D

Date : 26-JAN-2010 12:24

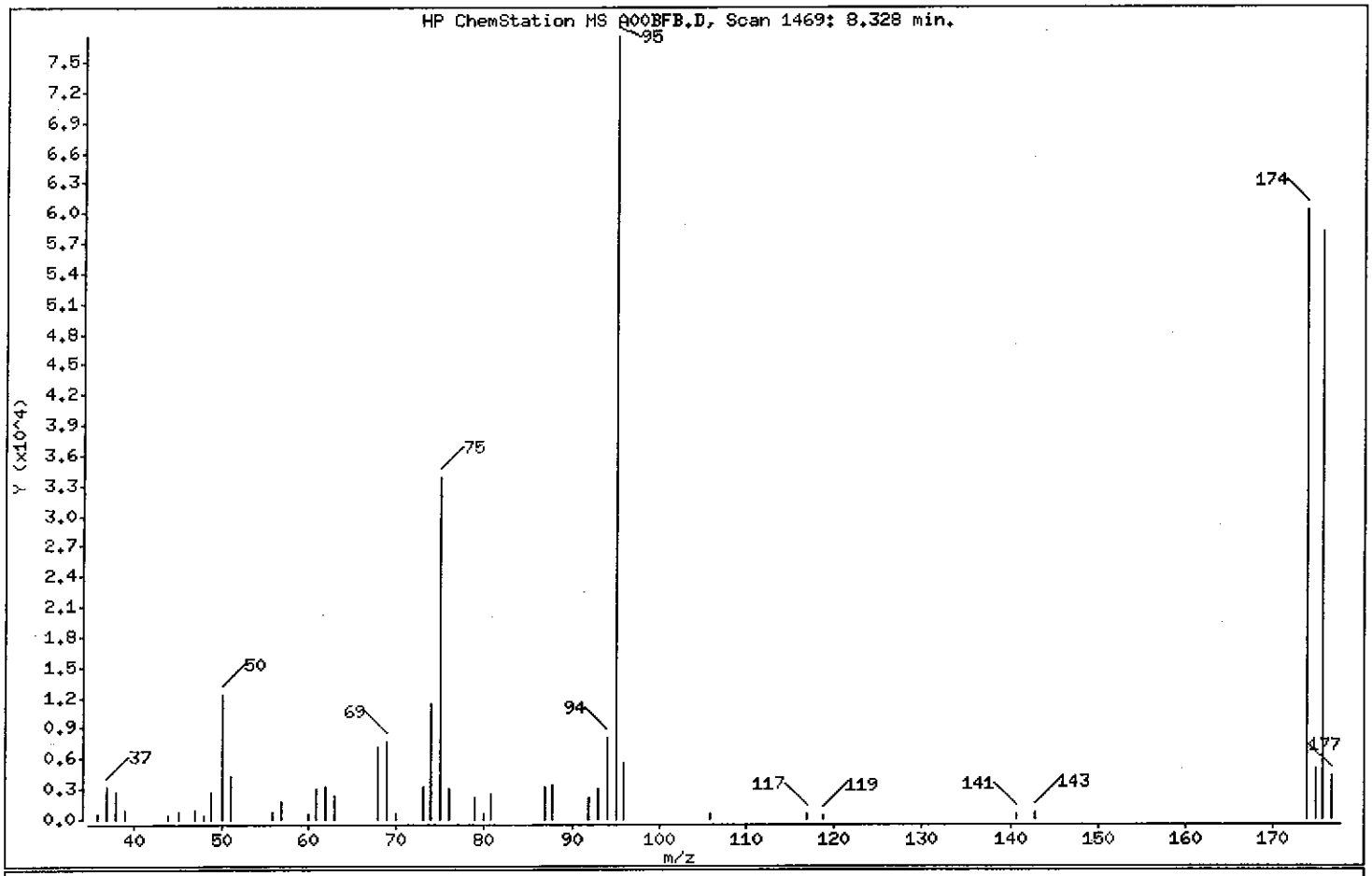
Client ID: bfb050 | Instrument: 50MSV2.i

Sample Info: bfb 34A-011

Volume Injected (uL): 5.0 | Operator: jlf

Column phase: DB-624 | Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.84
75	30.00 - 60.00% of mass 95	43.71
96	5.00 - 9.00% of mass 95	7.14
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	77.61
175	5.00 - 9.00% of mass 174	6.37 (8.21)
176	95.00 - 101.00% of mass 174	74.98 (96.61)
177	5.00 - 9.00% of mass 176	5.46 (7.29)
95	100.00 - 100.00% of mass 95	100.00

Data File: \\50wintarget\chem\50MSV2.i\a012610.b\A00BFB.D

Date : 26-JAN-2010 12:24

Client ID: bfb050 | Instrument: 50MSV2.i

Sample Info: bfb 34A-011

Volume Injected (uL): 5.0 | Operator: jlf

Column phase: DB-624 | Column diameter: 0.18

Data File: A00BFB.D
Spectrum: HP ChemStation MS A00BFB.D, Scan 1469: 8.328 min.
Location of Maximum: 95.00
Number of points: 43

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.90	528	55.90	776	75.00	33872	96.00	5533
37.00	3134	56.90	1750	76.00	3065	105.90	486
38.00	2699	60.00	492	78.90	2130	116.80	476
39.00	813	60.90	3109	79.90	622	118.80	366
43.90	437	61.90	3238	80.80	2449	140.75	515
45.00	715	63.00	2264	86.90	3238	142.75	644
46.90	808	67.90	7106	87.90	3352	173.85	60144
48.00	383	68.90	7740	91.90	2126	174.85	4936
48.90	2656	69.90	612	92.90	3041	175.85	58104
50.00	12273	73.00	3141	94.00	8100	176.85	4235
51.00	4232	74.00	11379	95.00	77496		

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a012610.b\A01CAL.D
Lab Smp Id: 0.5ppb 34A-052/082
Inj Date : 26-JAN-2010 12:58
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 0.5ppb 34A-052/082
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a012610.b\-8260-c1.m
Meth Date : 27-Jan-2010 09:14 50MSV2.i Quant Type: ISTD
Cal Date : 26-JAN-2010 12:58 Cal File: A01CAL.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	1.051	1.041	(0.251)	867	0.50000	(QM)
2 Chloromethane	50	1.155	1.134	(0.276)	1318	0.50000	0.409 (QM)
3 Vinyl Chloride	62	1.170	1.170	(0.280)	1199	0.50000	(QM)
4 Bromomethane	94	1.320	1.304	(0.316)	4672	0.50000	(QM)
5 Chloroethane	64	1.341	1.345	(0.321)	115	0.50000	0.0412 (M)
6 Trichlorofluoromethane	101	1.475	1.464	(0.353)	1306	0.50000	
28 1,2-dichlorotrifluoroethane	67	1.594	1.578	(0.381)	1715	0.50000	(M)
7 Diethyl ether	74	1.599	1.588	(0.382)	425	0.50000	(Q)
8 Acrolein	56	1.661	1.650	(0.397)	2519	10.0000	10.2
10 1,1,2trichlorotrifluoroethane	101	1.708	1.702	(0.408)	797	0.50000	(M)
9 1,1-Dichloroethene	96	1.713	1.707	(0.410)	437	0.50000	(Q)
11 Acetone	43	1.739	1.728	(0.416)	3231	2.50000	
13 Carbon Disulfide	76	1.847	1.836	(0.442)	6925	1.00000	1.09 (M)
14 allyl chloride	41	1.894	1.888	(0.453)	3505	1.00000	
138 Methyl Acetate	43	1.904	1.898	(0.455)	1025	0.50000	(M)
15 Methylene Chloride	84	1.971	1.960	(0.471)	2962	0.50000	
16 Acrylonitrile	53	2.111	2.100	(0.505)	9479	10.0000	
19 Methyl-tert-butyl ether	73	2.142	2.126	(0.512)	6515	1.00000	
18 1,2-Dichloroethene (trans)	96	2.137	2.121	(0.511)	856	0.50000	(Q)
20 n-Hexane	57	2.312	2.302	(0.553)	1049	0.50000	0.397 (M)
21 1,1-Dichloroethane	63	2.421	2.405	(0.579)	2056	0.50000	0.462 (QM)
23 Vinyl Acetate	43	2.462	2.436	(0.589)	8548	2.00000	1.81 (M)
140 Ethyl acetate	88	2.498	2.477	(0.597)	239	5.00000	(QM)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
147 Chloroprene	53	2.488	2.477	(0.595)	1449	0.50000	0.433 (QM)
24 2,2-Dichloropropane	77	2.896	2.875	(0.692)	1466	0.50000	0.450 (M)
25 1,2-Dichloroethene (cis)	96	2.891	2.870	(0.691)	866	0.50000	(Q)
26 2-Butanone	43	2.933	2.886	(0.701)	2357	2.50000	2.08 (M)
29 Bromochloromethane	49	3.119	3.092	(0.746)	277	0.50000	(QM)
146 Methacrylonitrile	41	3.170	3.087	(0.758)	2952	2.50000	6.73 (QM)
31 Chloroform	83	3.201	3.180	(0.765)	1661	0.50000	0.396
$ 32 Dibromofluoromethane (S)	113	3.356	3.351	(0.802)	113496	50.0000	50.8
33 1,1,1-Trichloroethane	97	3.382	3.377	(0.809)	1268	0.50000	(QM)
30 Tetrahydrofuran	42	3.176	3.160	(0.759)	4980	0.50000	
34 cyclohexane	56	3.449	3.444	(0.825)	1147	0.50000	
37 Isobutyl alcohol	43	2.933	2.886	(0.701)	2357	0.50000	0.417 (M)
35 Carbon Tetrachloride	117	3.574	3.563	(0.854)	1209	0.50000	0.354 (QM)
36 1,1-Dichloropropene	75	3.599	3.563	(0.860)	1204	0.50000	0.380 (QM)
38 Benzene	78	3.832	3.816	(0.916)	4048	0.50000	0.443 (M)
141 isopropyl acetate	61	3.749	3.738	(0.896)	1231	2.50000	9.67 (QM)
39 1,2-Dichloroethane	62	3.863	3.837	(0.923)	156	0.50000	(QM)
* 40 Fluorobenzene	96	4.183	4.178	(1.000)	364628	50.0000	
41 Trichloroethene	95	4.643	4.627	(1.110)	471	0.50000	(Q)
139 Methylcyclohexane	55	4.855	4.845	(1.161)	937	0.50000	(QM)
42 1,2-Dichloropropane	63	4.907	4.886	(1.173)	486	0.50000	(M)
43 Dibromomethane	93	5.041	5.015	(1.205)	114	0.50000	(QM)
143 2,2,4-Trimethylpentane	57	3.956	3.940	(0.946)	2116	0.50000	0.393 (QM)
45 Bromodichloromethane	83	5.233	5.217	(1.251)	680	0.50000	(QM)
46 2-Chloroethyl vinyl ether	63	5.625	5.594	(0.760)	520	0.50000	(QM)
47 cis-1,3-Dichloropropene	75	5.749	5.728	(0.777)	790	0.50000	(QM)
48 4-Methyl-2-Pentanone	43	5.936	5.920	(0.802)	5050	2.50000	2.36
$ 49 Toluene-d8	98	6.018	6.013	(0.813)	328130	50.0000	51.4
50 Toluene	91	6.096	6.085	(0.823)	4439	0.50000	0.478
51 trans-1,3-Dichloropropene	75	6.370	6.343	(0.860)	823	0.50000	(QM)
52 Ethyl Methacrylate	69	6.504	6.478	(0.879)	380	0.50000	(QM)
53 1,1,2-Trichloroethane	83	6.535	6.524	(0.883)	138	0.50000	(QM)
54 Tetrachloroethene	166	6.659	6.653	(0.899)	1768	0.50000	
55 1,3-Dichloropropane	76	6.695	6.679	(0.904)	1197	0.50000	(M)
56 2-Hexanone	43	6.825	6.798	(0.922)	2196	2.50000	(M)
57 Dibromochloromethane	129	6.902	6.891	(0.932)	997	0.50000	0.394
58 1,2-Dibromoethane	107	7.000	6.979	(0.946)	774	0.50000	(Q)
* 59 Chlorobenzene-d5	117	7.403	7.403	(1.000)	303546	50.0000	
60 Chlorobenzene	112	7.429	7.424	(1.003)	2969	0.50000	0.463 (Q)
61 1,1,1,2-Tetrachloroethane	131	7.502	7.501	(1.013)	853	0.50000	0.371 (Q)
62 Ethylbenzene	106	7.538	7.527	(1.018)	1413	0.50000	0.419
63 m&p-Xylene	106	7.636	7.630	(1.031)	3441	1.00000	0.802 (Q)
65 o-Xylene	106	7.946	7.940	(1.073)	1599	0.50000	0.382
66 Styrene	104	7.967	7.951	(1.076)	2402	0.50000	0.361
68 Isopropylbenzene	105	8.230	8.225	(1.112)	4478	0.50000	0.430
142 n-amyl acetate	70	8.334	8.328	(1.126)	533	2.50000	10.5 (QM)
$ 70 4-Bromofluorobenzene	95	8.334	8.328	(1.126)	132800	50.0000	49.4
71 Bromobenzene	77	8.442	8.431	(1.140)	1715	0.50000	
72 1,1,2,2-Tetrachloroethane	83	8.447	8.447	(0.924)	1041	0.50000	0.405 (M)
73 1,2,3-Trichloropropane	75	8.478	8.483	(0.928)	1160	0.50000	0.386 (QM)
74 n-Propylbenzene	91	8.530	8.524	(0.933)	4357	0.50000	0.425
75 2-Chlorotoluene	91	8.582	8.576	(0.939)	3235	0.50000	0.482
77 1,3,5-Trimethylbenzene	105	8.654	8.649	(0.947)	3195	0.50000	0.428
76 4-Chlorotoluene	126	8.582	8.576	(0.939)	603	0.50000	0.629 (Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
78 tert-Butylbenzene	119	8.876	8.871	(0.971)	3008	0.50000	0.350
79 1,2,4-Trimethylbenzene	105	8.913	8.902	(0.975)	3449	0.50000	0.466
80 sec-Butylbenzene	105	9.021	9.021	(0.987)	3826	0.50000	0.408
81 1,3-Dichlorobenzene	146	9.104	9.093	(0.996)	1928	0.50000	0.452
83 p-Isopropyltoluene	119	9.124	9.119	(0.998)	2940	0.50000	0.391
* 82 1,4-Dichlorobenzene-d4	152	9.140	9.134	(1.000)	138731	50.0000	
84 1,4-Dichlorobenzene	146	9.155	9.150	(1.002)	2020	0.50000	0.456 (Q)
86 n-Butylbenzene	91	9.398	9.382	(1.028)	1211	0.50000	(M)
85 1,2-Dichlorobenzene	146	9.404	9.393	(1.029)	1477	0.50000	0.374
89 Hexachlorobutadiene	225	10.499	10.499	(1.149)	131	0.50000	1.11 (QM)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A01CAL.D
Lab Smp Id: 0.5ppb 34A-052/082
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a012610.b\-8260-c1.m
Misc Info:

Calibration Date: 26-JAN-2010
Calibration Time: 19:46

Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	299092	149546	598184	364628	21.91
59 Chlorobenzene-d5	259211	129606	518422	303546	17.10
82 1,4-Dichlorobenze	115960	57980	231920	138731	19.64

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.17	3.67	4.67	4.18	0.23
59 Chlorobenzene-d5	7.40	6.90	7.90	7.40	-0.01
82 1,4-Dichlorobenze	9.14	8.64	9.64	9.14	0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 0.5ppb 34A-052/082
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a012610.b
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	0.000	
74-87-3	Chloromethane	0.409	
75-01-4	Vinyl Chloride	0.000	
74-83-9	Bromomethane	0.000	
75-00-3	Chloroethane	0.0412	
75-69-4	Trichlorofluoromethane	0.000	
354-23-4	1,2-dichlorotrifluoroethane	0.000	
60-29-7	Diethyl ether	0.000	
107-02-8	Acrolein	10.2	
76-13-1	1,1,2trichlorotrifluoroethan	0.000	
75-35-4	1,1-Dichloroethene	0.000	
67-64-1	Acetone	0.000	
75-15-0	Carbon Disulfide	1.09	
107-05-1	allyl chloride	0.000	
79-20-9	Methyl Acetate	0.000	
75-09-2	Methylene Chloride	0.000	
107-13-1	Acrylonitrile	0.000	
1634-04-4	Methyl-tert-butyl ether	0.000	
156-60-5	1,2-Dichloroethene (trans)	0.000	
	n-Hexane	0.397	
75-34-3	1,1-Dichloroethane	0.462	
108-05-4	Vinyl Acetate	1.81	
141-78-6	Ethyl acetate	0.000	
126-99-8	Chloroprene	0.433	
594-20-7	2,2-Dichloropropane	0.450	
156-59-2	1,2-Dichloroethene (cis)	0.000	
78-93-3	2-Butanone	2.08	
74-97-5	Bromochloromethane	0.000	
126-98-7	Methacrylonitrile	6.73	
67-66-3	Chloroform	0.396	
71-55-6	1,1,1-Trichloroethane	0.000	
	Tetrahydrofuran	0.000	
110-82-7	cyclohexane	0.000	
78-83-1	Isobutyl alcohol	0.417	
56-23-5	Carbon Tetrachloride	0.354	
563-58-6	1,1-Dichloropropene	0.380	
71-43-2	Benzene	0.443	
108-21-4	isopropyl acetate	9.67	
107-06-2	1,2-Dichloroethane	0.000	
79-01-6	Trichloroethene	0.000	
108-87-2	Methylcyclohexane	0.000	
78-87-5	1,2-Dichloropropane	0.000	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 0.5ppb 34A-052/082
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a012610.b
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
74-95-3	Dibromomethane	0.000	
540-84-1	2,2,4-Trimethylpentane	0.393	
75-27-4	Bromodichloromethane	0.000	
110-75-8	2-Chloroethyl vinyl ether	0.000	
10061-01-5	cis-1,3-Dichloropropene	0.000	
108-10-1	4-Methyl-2-Pentanone	2.36	
108-88-3	Toluene	0.478	
10061-02-6	trans-1,3-Dichloropropene	0.000	
	Ethyl Methacrylate	0.000	
79-00-5	1,1,2-Trichloroethane	0.000	
127-18-4	Tetrachloroethene	0.000	
142-28-9	1,3-Dichloropropane	0.000	
591-78-6	2-Hexanone	0.000	
124-48-1	Dibromochloromethane	0.394	
106-93-4	1,2-Dibromoethane	0.000	
108-90-7	Chlorobenzene	0.463	
630-20-6	1,1,1,2-Tetrachloroethane	0.371	
100-41-4	Ethylbenzene	0.419	
7816-60-0	m&p-Xylene	0.802	
95-47-6	o-Xylene	0.382	
100-42-5	Styrene	0.361	
98-82-8	Isopropylbenzene	0.430	
628-63-7	n-amyl acetate	10.5	
108-86-1	Bromobenzene	0.000	
79-34-5	1,1,2,2-Tetrachloroethane	0.405	
96-18-4	1,2,3-Trichloropropane	0.386	
103-65-1	n-Propylbenzene	0.425	
95-49-8	2-Chlorotoluene	0.482	
108-67-8	1,3,5-Trimethylbenzene	0.428	
106-43-4	4-Chlorotoluene	0.629	
98-06-6	tert-Butylbenzene	0.350	
95-63-6	1,2,4-Trimethylbenzene	0.466	
135-98-8	sec-Butylbenzene	0.408	
541-73-1	1,3-Dichlorobenzene	0.452	
99-87-6	p-Isopropyltoluene	0.391	
106-46-7	1,4-Dichlorobenzene	0.456	
104-51-8	n-Butylbenzene	0.000	
95-50-1	1,2-Dichlorobenzene	0.374	
87-68-3	Hexachlorobutadiene	1.11	
1868-53-7	Dibromofluoromethane (S)	50.8	
2037-26-5	Toluene-d8	51.4	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 0.5ppb 34A-052/082
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a012610.b

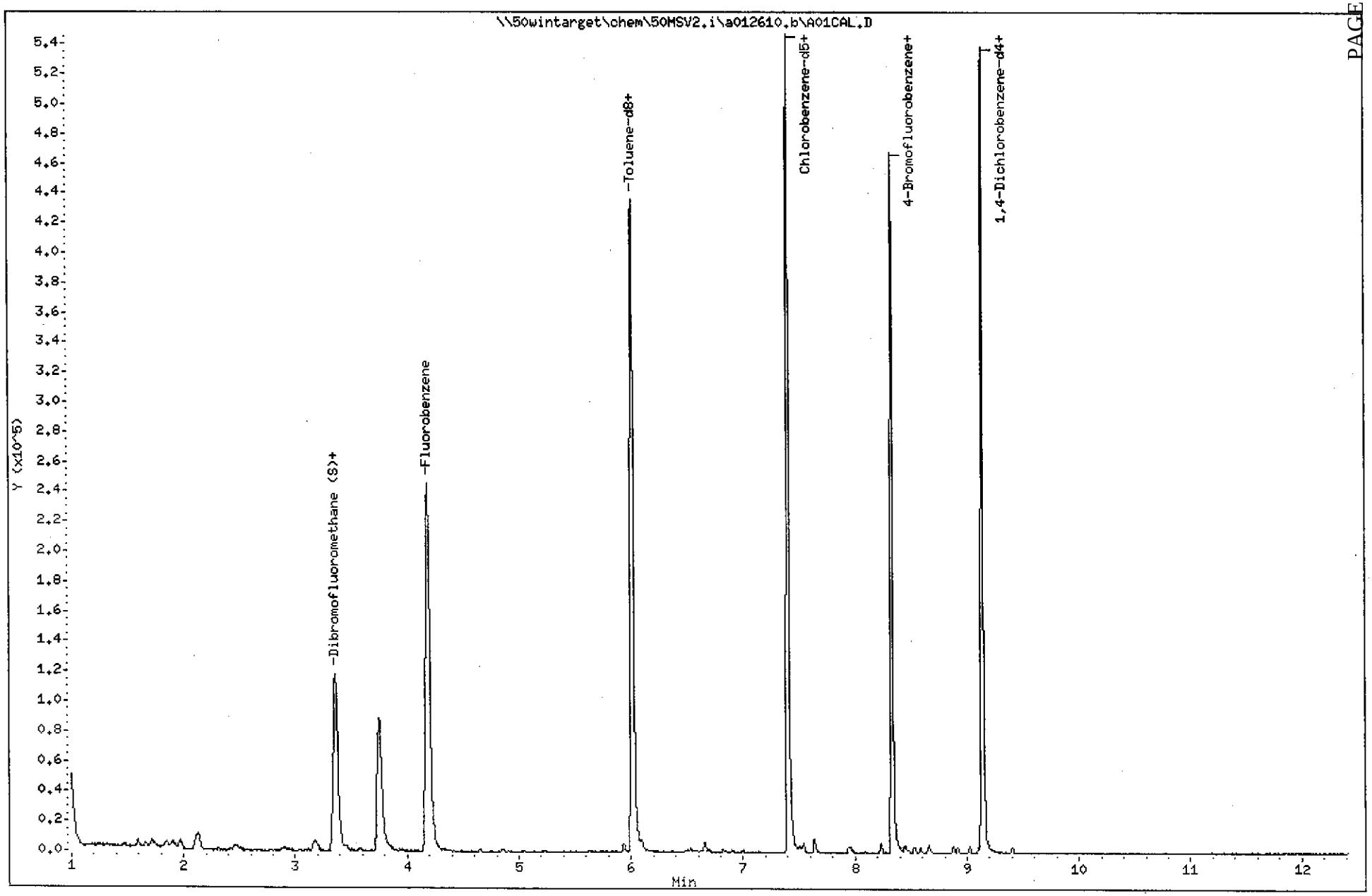
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
460-00-4	4-Bromofluorobenzene	49.4	

Data File: \\50wintarget\chem\50MSV2.i\a012610.b\A01CAL.D
Date : 26-JAN-2010 12:58
Client ID:
Sample Info: 0.5ppb 34A-052/082
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i

Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a012610.b\A02CAL.D
Lab Smp Id: 1ppb
Inj Date : 26-JAN-2010 13:33
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 1ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a012610.b\-8260-c1.m
Meth Date : 27-Jan-2010 09:14 50MSV2.i Quant Type: ISTD
Cal Date : 26-JAN-2010 13:33 Cal File: A02CAL.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	1.058	1.041	(0.253)	2777	1.00000	(M)
2 Chloromethane	50	1.151	1.134	(0.275)	2913	1.00000	0.910
3 Vinyl Chloride	62	1.177	1.170	(0.281)	2463	1.00000	
4 Bromomethane	94	1.321	1.304	(0.316)	4486	1.00000	(M)
5 Chloroethane	64	1.352	1.345	(0.323)	1359	1.00000	0.682
6 Trichlorofluoromethane	101	1.476	1.464	(0.353)	2692	1.00000	
28 1,2-dichlorotrifluoroethane	67	1.585	1.578	(0.379)	4468	1.00000	
7 Diethyl ether	74	1.595	1.588	(0.381)	1713	1.00000	(Q)
17 tert-Butyl Alcohol	59	2.045	2.024	(0.489)	221	2.00000	9.63(QM)
8 Acrolein	56	1.663	1.650	(0.397)	4247	20.0000	17.2
10 1,1,2trichlorotrifluoroethane	101	1.709	1.702	(0.408)	3113	1.00000	
9 1,1-Dichloroethene	96	1.719	1.707	(0.411)	2787	1.00000	(Q)
11 Acetone	43	1.735	1.728	(0.415)	5646	5.00000	
12 Iodomethane	142	1.812	1.795	(0.433)	590	2.00000	10.4(QM)
13 Carbon Disulfide	76	1.843	1.836	(0.441)	14913	2.00000	2.37(M)
14 allyl chloride	41	1.900	1.888	(0.454)	8487	2.00000	
138 Methyl Acetate	43	1.911	1.898	(0.457)	3065	1.00000	(M)
15 Methylene Chloride	84	1.962	1.960	(0.469)	4906	1.00000	
16 Acrylonitrile	53	2.112	2.100	(0.505)	24646	20.0000	
19 Methyl-tert-butyl ether	73	2.138	2.126	(0.511)	16338	2.00000	
18 1,2-Dichloroethene (trans)	96	2.138	2.121	(0.511)	2905	1.00000	(Q)
20 n-Hexane	57	2.314	2.302	(0.553)	2733	1.00000	1.04(M)
21 1,1-Dichloroethane	63	2.417	2.405	(0.578)	5030	1.00000	1.14(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	23 Vinyl Acetate	43	2.453	2.436	(0.586)	21785	4.00000	4.63
	140 Ethyl acetate	88	2.495	2.477	(0.596)	2252	10.0000	(M)
	147 Chloroprene	53	2.484	2.477	(0.594)	3770	1.00000	1.13(Q)
	24 2,2-Dichloropropane	77	2.893	2.875	(0.691)	3288	1.00000	1.02
	25 1,2-Dichloroethene (cis)	96	2.887	2.870	(0.690)	3069	1.00000	(Q)
	26 2-Butanone	43	2.918	2.886	(0.697)	6300	5.00000	5.61(M)
	29 Bromochloromethane	49	3.120	3.092	(0.746)	1784	1.00000	(Q)
	146 Methacrylonitrile	41	3.115	3.087	(0.744)	478	5.00000	(M)
	31 Chloroform	83	3.182	3.180	(0.760)	4494	1.00000	1.08
$	32 Dibromofluoromethane (S)	113	3.358	3.351	(0.802)	113358	50.0000	51.1
	33 1,1,1-Trichloroethane	97	3.384	3.377	(0.809)	4327	1.00000	
	30 Tetrahydrofuran	42	3.177	3.160	(0.759)	5927	1.00000	1.01
	34 cyclohexane	56	3.441	3.444	(0.822)	3993	1.00000	
	37 Isobutyl alcohol	43	2.918	2.886	(0.697)	6300	1.00000	1.12(M)
	35 Carbon Tetrachloride	117	3.570	3.563	(0.853)	3781	1.00000	1.11
	36 1,1-Dichloropropene	75	3.590	3.563	(0.858)	3108	1.00000	0.986(Q)
	38 Benzene	78	3.838	3.816	(0.917)	10321	1.00000	1.14
	141 isopropyl acetate	61	3.740	3.738	(0.894)	1298	5.00000	10.2(M)
	39 1,2-Dichloroethane	62	3.859	3.837	(0.922)	3163	1.00000	(M)
*	40 Fluorobenzene	96	4.185	4.178	(1.000)	362448	50.0000	
	41 Trichloroethene	95	4.645	4.627	(1.110)	2592	1.00000	(Q)
	139 Methylcyclohexane	55	4.852	4.845	(1.159)	3016	1.00000	(Q)
	42 1,2-Dichloropropane	63	4.903	4.886	(1.172)	2291	1.00000	(M)
	43 Dibromomethane	93	5.027	5.015	(1.201)	1107	1.00000	(Q)
	44 Methyl methacrylate	69	5.105	5.077	(1.220)	693	1.00000	0.432(QM)
	143 2,2,4-Trimethylpentane	57	3.947	3.940	(0.943)	5814	1.00000	1.08
	45 Bromodichloromethane	83	5.229	5.217	(1.249)	2695	1.00000	(QM)
	46 2-Chloroethyl vinyl ether	63	5.616	5.594	(0.759)	2427	1.00000	
	47 cis-1,3-Dichloropropene	75	5.746	5.728	(0.776)	3249	1.00000	
	48 4-Methyl-2-Pentanone	43	5.927	5.920	(0.800)	12346	5.00000	5.79
$	49 Toluene-d8	98	6.014	6.013	(0.812)	326588	50.0000	51.3
	50 Toluene	91	6.092	6.085	(0.823)	10783	1.00000	1.16
	51 trans-1,3-Dichloropropene	75	6.356	6.343	(0.858)	2717	1.00000	
	52 Ethyl Methacrylate	69	6.495	6.478	(0.877)	2838	1.00000	(M)
	53 1,1,2-Trichloroethane	83	6.531	6.524	(0.882)	1394	1.00000	(Q)
	54 Tetrachloroethene	166	6.660	6.653	(0.899)	5095	1.00000	(Q)
	55 1,3-Dichloropropane	76	6.691	6.679	(0.904)	3940	1.00000	
	56 2-Hexanone	43	6.810	6.798	(0.920)	6530	5.00000	
	57 Dibromochloromethane	129	6.898	6.891	(0.932)	2323	1.00000	0.920
	58 1,2-Dibromoethane	107	6.991	6.979	(0.944)	2393	1.00000	(Q)
*	59 Chlorobenzene-d5	117	7.405	7.403	(1.000)	302576	50.0000	
	60 Chlorobenzene	112	7.431	7.424	(1.003)	7425	1.00000	1.16(Q)
	61 1,1,1,2-Tetrachloroethane	131	7.508	7.501	(1.014)	2268	1.00000	0.989(Q)
	62 Ethylbenzene	106	7.539	7.527	(1.018)	3760	1.00000	1.12
	63 m&p-Xylene	106	7.632	7.630	(1.031)	9635	2.00000	2.25
	65 o-Xylene	106	7.942	7.940	(1.073)	4359	1.00000	1.04
	66 Styrene	104	7.958	7.951	(1.075)	6894	1.00000	1.04
	67 Bromoform	173	8.092	8.080	(0.886)	864	1.00000	1.10(M)
	68 Isopropylbenzene	105	8.227	8.225	(1.111)	11922	1.00000	1.15
	69 trans-1,4-Dichloro-2-butene	53	8.495	8.483	(1.147)	133	1.00000	(QM)
	142 n-amyl acetate	70	8.330	8.328	(1.125)	594	5.00000	11.8(QM)
$	70 4-Bromofluorobenzene	95	8.335	8.328	(1.126)	135413	50.0000	50.6
	71 Bromobenzene	77	8.438	8.431	(1.140)	4789	1.00000	
	72 1,1,2,2-Tetrachloroethane	83	8.454	8.447	(0.925)	2822	1.00000	1.10(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
73 1,2,3-Trichloropropane	75	8.469	8.483	(0.927)	3657	1.00000	1.22
74 n-Propylbenzene	91	8.526	8.524	(0.933)	11251	1.00000	1.10
75 2-Chlorotoluene	91	8.578	8.576	(0.939)	8170	1.00000	1.21
77 1,3,5-Trimethylbenzene	105	8.656	8.649	(0.947)	8119	1.00000	1.08
76 4-Chlorotoluene	126	8.583	8.576	(0.939)	2233	1.00000	1.34 (Q)
78 tert-Butylbenzene	119	8.878	8.871	(0.972)	9639	1.00000	1.12
79 1,2,4-Trimethylbenzene	105	8.909	8.902	(0.975)	8126	1.00000	1.10
80 sec-Butylbenzene	105	9.028	9.021	(0.988)	10385	1.00000	1.10
81 1,3-Dichlorobenzene	146	9.100	9.093	(0.996)	4364	1.00000	1.02
83 p-Isopropyltoluene	119	9.121	9.119	(0.998)	8024	1.00000	1.06
* 82 1,4-Dichlorobenzene-d4	152	9.136	9.134	(1.000)	138988	50.0000	
84 1,4-Dichlorobenzene	146	9.157	9.150	(1.002)	4824	1.00000	1.09 (Q)
86 n-Butylbenzene	91	9.395	9.382	(1.028)	3774	1.00000	
85 1,2-Dichlorobenzene	146	9.405	9.393	(1.029)	3839	1.00000	0.969
88 1,2,4-Trichlorobenzene	180	10.428	10.401	(1.141)	437	1.00000	3.17 (M)
89 Hexachlorobutadiene	225	10.506	10.499	(1.150)	339	1.00000	1.33 (QM)
90 Naphthalene	128	10.578	10.550	(1.158)	116	1.00000	5.02 (M)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A02CAL.D
Lab Smp Id: 1ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a012610.b\-8260-c1.m
Misc Info:

Calibration Date: 26-JAN-2010
Calibration Time: 19:46

Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	299092	149546	598184	362448	21.18
59 Chlorobenzene-d5	259211	129606	518422	302576	16.73
82 1,4-Dichlorobenze	115960	57980	231920	138988	19.86

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.17	3.67	4.67	4.19	0.26
59 Chlorobenzene-d5	7.40	6.90	7.90	7.41	0.01
82 1,4-Dichlorobenze	9.14	8.64	9.64	9.14	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 1ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a012610.b

Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	0.000	
74-87-3	Chloromethane	0.910	
75-01-4	Vinyl Chloride	0.000	
74-83-9	Bromomethane	0.000	
75-00-3	Chloroethane	0.682	
75-69-4	Trichlorofluoromethane	0.000	
354-23-4	1,2-dichlorotrifluoroethane	0.000	
60-29-7	Diethyl ether	0.000	
75-65-0	tert-Butyl Alcohol	9.63	
107-02-8	Acrolein	17.2	
76-13-1	1,1,2trichlorotrifluoroethan	0.000	
75-35-4	1,1-Dichloroethene	0.000	
67-64-1	Acetone	0.000	
	Iodomethane	10.4	
75-15-0	Carbon Disulfide	2.37	
107-05-1	allyl chloride	0.000	
79-20-9	Methyl Acetate	0.000	
75-09-2	Methylene Chloride	0.000	
107-13-1	Acrylonitrile	0.000	
1634-04-4	Methyl-tert-butyl ether	0.000	
156-60-5	1,2-Dichloroethene (trans)	0.000	
	n-Hexane	1.04	
75-34-3	1,1-Dichloroethane	1.14	
108-05-4	Vinyl Acetate	4.63	
141-78-6	Ethyl acetate	0.000	
126-99-8	Chloroprene	1.13	
594-20-7	2,2-Dichloropropane	1.02	
156-59-2	1,2-Dichloroethene (cis)	0.000	
78-93-3	2-Butanone	5.61	
74-97-5	Bromochloromethane	0.000	
126-98-7	Methacrylonitrile	0.000	
67-66-3	Chloroform	1.08	
71-55-6	1,1,1-Trichloroethane	0.000	
	Tetrahydrofuran	1.01	
110-82-7	cyclohexane	0.000	
78-83-1	Isobutyl alcohol	1.12	
56-23-5	Carbon Tetrachloride	1.11	
563-58-6	1,1-Dichloropropene	0.986	
71-43-2	Benzene	1.14	
108-21-4	isopropyl acetate	10.2	
107-06-2	1,2-Dichloroethane	0.000	
79-01-6	Trichloroethene	0.000	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 1ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a012610.b

Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-87-2	Methylcyclohexane	0.000	
78-87-5	1,2-Dichloropropane	0.000	
74-95-3	Dibromomethane	0.000	
80-62-6	Methyl methacrylate	0.432	
540-84-1	2,2,4-Trimethylpentane	1.08	
75-27-4	Bromodichloromethane	0.000	
110-75-8	2-Chloroethyl vinyl ether	0.000	
10061-01-5	cis-1,3-Dichloropropene	0.000	
108-10-1	4-Methyl-2-Pentanone	5.79	
108-88-3	Toluene	1.16	
10061-02-6	trans-1,3-Dichloropropene	0.000	
	Ethyl Methacrylate	0.000	
79-00-5	1,1,2-Trichloroethane	0.000	
127-18-4	Tetrachloroethene	0.000	
142-28-9	1,3-Dichloropropane	0.000	
591-78-6	2-Hexanone	0.000	
124-48-1	Dibromochloromethane	0.920	
106-93-4	1,2-Dibromoethane	0.000	
108-90-7	Chlorobenzene	1.16	
630-20-6	1,1,1,2-Tetrachloroethane	0.989	
100-41-4	Ethylbenzene	1.12	
7816-60-0	m&p-Xylene	2.25	
95-47-6	o-Xylene	1.04	
100-42-5	Styrene	1.04	
75-25-2	Bromoform	1.10	
98-82-8	Isopropylbenzene	1.15	
	trans-1,4-Dichloro-2-butene	0.000	
628-63-7	n-amyl acetate	11.8	
108-86-1	Bromobenzene	0.000	
79-34-5	1,1,2,2-Tetrachloroethane	1.10	
96-18-4	1,2,3-Trichloropropane	1.22	
103-65-1	n-Propylbenzene	1.10	
95-49-8	2-Chlorotoluene	1.21	
108-67-8	1,3,5-Trimethylbenzene	1.08	
106-43-4	4-Chlorotoluene	1.34	
98-06-6	tert-Butylbenzene	1.12	
95-63-6	1,2,4-Trimethylbenzene	1.10	
135-98-8	sec-Butylbenzene	1.10	
541-73-1	1,3-Dichlorobenzene	1.02	
99-87-6	p-Isopropyltoluene	1.06	
106-46-7	1,4-Dichlorobenzene	1.09	
104-51-8	n-Butylbenzene	0.000	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 1ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a012610.b

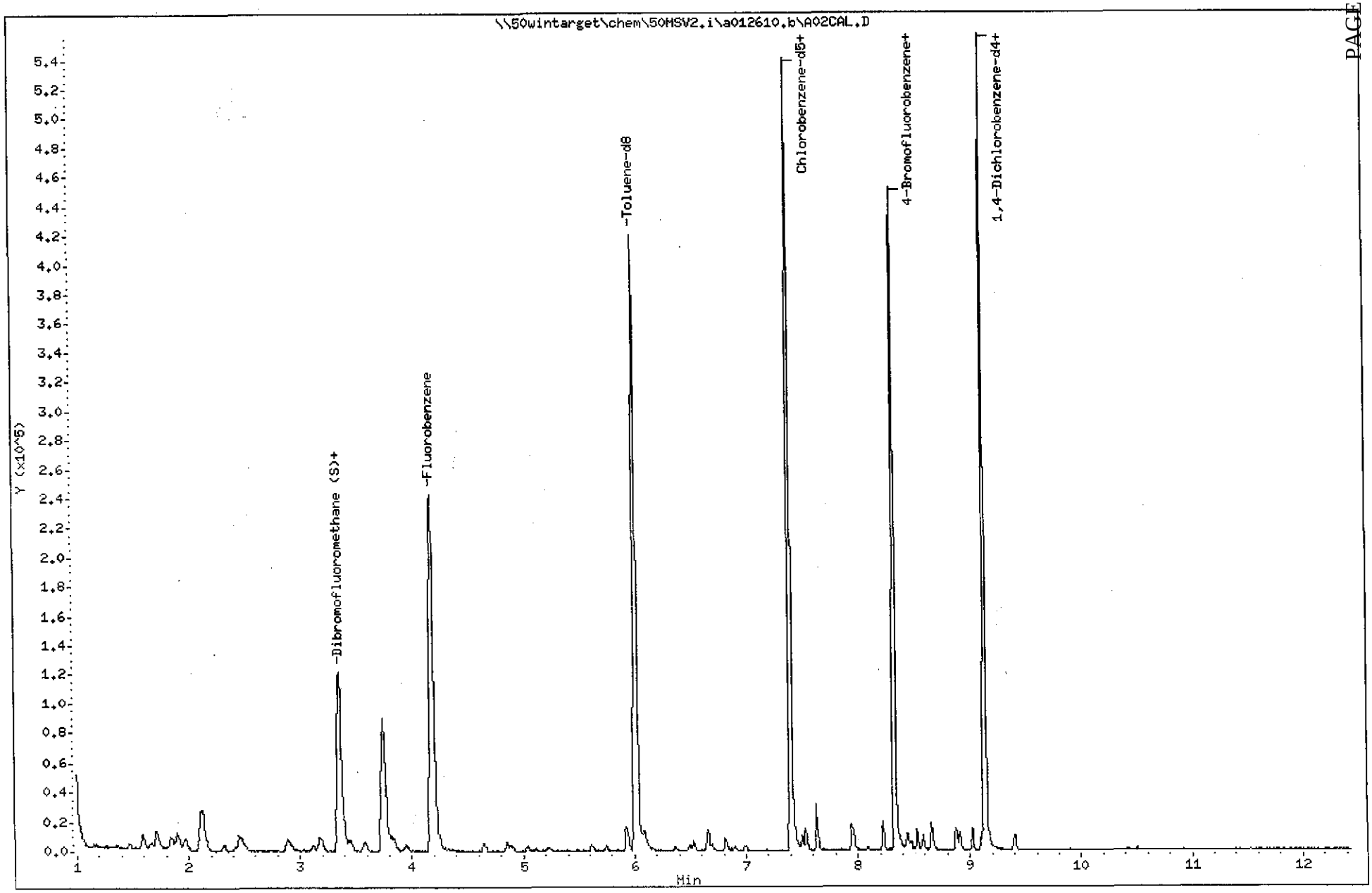
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
95-50-1	1,2-Dichlorobenzene	0.969	
120-82-1	1,2,4-Trichlorobenzene	3.17	
87-68-3	Hexachlorobutadiene	1.33	
91-20-3	Naphthalene	5.02	
1868-53-7	Dibromofluoromethane (S)	51.1	
2037-26-5	Toluene-d8	51.3	
460-00-4	4-Bromofluorobenzene	50.6	

Data File: \\50wintarget\chem\50MSV2.i\a012610.b\A02CAL.D
Date : 26-JAN-2010 13:33
Client ID:
Sample Info: 1ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i

Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a012610.b\A03CAL.D
Lab Smp Id: 5ppb
Inj Date : 26-JAN-2010 14:07
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 5ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a012610.b\-8260-c1.m
Meth Date : 27-Jan-2010 09:14 50MSV2.i Quant Type: ISTD
Cal Date : 26-JAN-2010 14:07 Cal File: A03CAL.D
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	1.052	1.041	(0.252)	18498	5.00000	0.794
2 Chloromethane	50	1.145	1.134	(0.274)	15633	5.00000	4.77
3 Vinyl Chloride	62	1.176	1.170	(0.281)	17560	5.00000	2.25
4 Bromomethane	94	1.315	1.304	(0.315)	8360	5.00000	4.33(Q)
5 Chloroethane	64	1.357	1.345	(0.325)	10202	5.00000	5.11
6 Trichlorofluoromethane	101	1.470	1.464	(0.352)	19084	5.00000	4.36
28 1,2-dichlorotrifluoroethane	67	1.584	1.578	(0.379)	21884	5.00000	1.24
7 Diethyl ether	74	1.594	1.588	(0.382)	8352	5.00000	1.67
17 tert-Butyl Alcohol	59	2.023	2.024	(0.484)	2849	10.0000	17.8(Q)
8 Acrolein	56	1.656	1.650	(0.396)	26716	100.000	106
10 1,1,2trichlorotrifluoroethane	101	1.708	1.702	(0.409)	15792	5.00000	1.20
9 1,1-Dichloroethene	96	1.718	1.707	(0.411)	13444	5.00000	1.88
11 Acetone	43	1.729	1.728	(0.414)	20300	25.0000	20.1
12 Iodomethane	142	1.796	1.795	(0.430)	6804	10.0000	11.9(Q)
13 Carbon Disulfide	76	1.842	1.836	(0.441)	69921	10.0000	10.8(M)
14 allyl chloride	41	1.899	1.888	(0.455)	37853	10.0000	3.03
138 Methyl Acetate	43	1.904	1.898	(0.456)	11244	5.00000	4.02
15 Methylene Chloride	84	1.961	1.960	(0.469)	15940	5.00000	3.75
16 Acrylonitrile	53	2.106	2.100	(0.504)	109594	100.000	56.2
19 Methyl-tert-butyl ether	73	2.132	2.126	(0.510)	77243	10.0000	5.82
18 1,2-Dichloroethene (trans)	96	2.132	2.121	(0.510)	14275	5.00000	4.51
20 n-Hexane	57	2.313	2.302	(0.554)	14760	5.00000	5.49
21 1,1-Dichloroethane	63	2.411	2.405	(0.577)	24597	5.00000	5.42

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	23 Vinyl Acetate	43	2.442	2.436	(0.584)	111621	20.0000	23.2
	140 Ethyl acetate	88	2.489	2.477	(0.596)	13209	50.0000	42.8(Q)
	147 Chloroprene	53	2.489	2.477	(0.596)	19245	5.00000	5.64
	24 2,2-Dichloropropane	77	2.876	2.875	(0.688)	19366	5.00000	5.84
	25 1,2-Dichloroethene (cis)	96	2.881	2.870	(0.690)	16753	5.00000	3.82
	26 2-Butanone	43	2.897	2.886	(0.693)	33341	25.0000	29.0
	27 Propionitrile	54	2.954	2.943	(0.707)	887	5.00000	6.05(Q)
	29 Bromochloromethane	49	3.109	3.092	(0.744)	10091	5.00000	2.28(Q)
	146 Methacrylonitrile	41	3.104	3.087	(0.743)	6499	25.0000	20.0(QM)
	31 Chloroform	83	3.181	3.180	(0.761)	24923	5.00000	5.83
$	32 Dibromofluoromethane (S)	113	3.357	3.351	(0.803)	114470	50.0000	50.3
	33 1,1,1-Trichloroethane	97	3.383	3.377	(0.810)	21536	5.00000	3.45
	30 Tetrahydrofuran	42	3.166	3.160	(0.758)	8207	5.00000	4.24
	34 cyclohexane	56	3.445	3.444	(0.824)	21706	5.00000	3.34
	37 Isobutyl alcohol	43	2.897	2.886	(0.693)	33341	5.00000	5.79
	35 Carbon Tetrachloride	117	3.574	3.563	(0.855)	19301	5.00000	5.54
	36 1,1-Dichloropropene	75	3.579	3.563	(0.857)	18643	5.00000	5.77
	38 Benzene	78	3.827	3.816	(0.916)	51052	5.00000	5.48
	39 1,2-Dichloroethane	62	3.848	3.837	(0.921)	16018	5.00000	3.14
*	40 Fluorobenzene	96	4.179	4.178	(1.000)	371269	50.0000	
	41 Trichloroethene	95	4.639	4.627	(1.110)	13933	5.00000	3.68
	139 Methylcyclohexane	55	4.850	4.845	(1.161)	15175	5.00000	2.47
	42 1,2-Dichloropropane	63	4.887	4.886	(1.169)	12096	5.00000	4.40
	43 Dibromomethane	93	5.026	5.015	(1.203)	8709	5.00000	4.19(Q)
	44 Methyl methacrylate	69	5.088	5.077	(1.218)	8266	5.00000	4.61(Q)
	143 2,2,4-Trimethylpentane	57	3.946	3.940	(0.944)	29876	5.00000	5.44
	45 Bromodichloromethane	83	5.223	5.217	(1.250)	16187	5.00000	4.06
	46 2-Chloroethyl vinyl ether	63	5.600	5.594	(0.756)	16105	5.00000	4.12
	47 cis-1,3-Dichloropropene	75	5.734	5.728	(0.775)	17888	5.00000	3.29
	48 4-Methyl-2-Pentanone	43	5.926	5.920	(0.800)	62016	25.0000	28.9
$	49 Toluene-d8	98	6.013	6.013	(0.812)	333629	50.0000	52.0
	50 Toluene	91	6.086	6.085	(0.822)	51567	5.00000	5.53
	51 trans-1,3-Dichloropropene	75	6.355	6.343	(0.858)	16658	5.00000	3.56
	52 Ethyl Methacrylate	69	6.484	6.478	(0.876)	15766	5.00000	3.77(Q)
	53 1,1,2-Trichloroethane	83	6.525	6.524	(0.881)	8963	5.00000	3.29(Q)
	54 Tetrachloroethene	166	6.654	6.653	(0.899)	19438	5.00000	2.78(Q)
	55 1,3-Dichloropropane	76	6.685	6.679	(0.903)	20434	5.00000	3.96
	56 2-Hexanone	43	6.799	6.798	(0.918)	39105	25.0000	17.3
	57 Dibromochloromethane	129	6.897	6.891	(0.932)	13948	5.00000	5.48
	58 1,2-Dibromoethane	107	6.985	6.979	(0.943)	13859	5.00000	3.85
*	59 Chlorobenzene-d5	117	7.404	7.403	(1.000)	304994	50.0000	
	60 Chlorobenzene	112	7.424	7.424	(1.003)	35036	5.00000	5.44
	61 1,1,1,2-Tetrachloroethane	131	7.502	7.501	(1.013)	13018	5.00000	5.63
	62 Ethylbenzene	106	7.533	7.527	(1.017)	18458	5.00000	5.44
	63 m&p-Xylene	106	7.631	7.630	(1.031)	49066	10.0000	11.4
	65 o-Xylene	106	7.941	7.940	(1.073)	23668	5.00000	5.63
	66 Styrene	104	7.957	7.951	(1.075)	38099	5.00000	5.71
	67 Bromoform	173	8.086	8.080	(0.885)	8462	5.00000	4.78
	68 Isopropylbenzene	105	8.226	8.225	(1.111)	59445	5.00000	5.68
	69 trans-1,4-Dichloro-2-butene	53	8.489	8.483	(1.147)	3359	5.00000	4.40(Q)
$	70 4-Bromofluorobenzene	95	8.334	8.328	(1.126)	137808	50.0000	51.0
	71 Bromobenzene	77	8.437	8.431	(1.140)	23977	5.00000	4.33
	72 1,1,2,2-Tetrachloroethane	83	8.448	8.447	(0.925)	14471	5.00000	5.50
	73 1,2,3-Trichloropropane	75	8.474	8.483	(0.928)	16880	5.00000	5.50

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
74 n-Propylbenzene	91	8.525	8.524	(0.933)	58844	5.00000	5.61
75 2-Chlorotoluene	91	8.577	8.576	(0.939)	37597	5.00000	5.47
77 1,3,5-Trimethylbenzene	105	8.649	8.649	(0.947)	41914	5.00000	5.49
76 4-Chlorotoluene	126	8.577	8.576	(0.939)	12475	5.00000	5.73(Q)
78 tert-Butylbenzene	119	8.877	8.871	(0.972)	49066	5.00000	5.58
79 1,2,4-Trimethylbenzene	105	8.908	8.902	(0.975)	41332	5.00000	5.46
80 sec-Butylbenzene	105	9.021	9.021	(0.988)	51671	5.00000	5.38
81 1,3-Dichlorobenzene	146	9.094	9.093	(0.995)	23786	5.00000	5.45
83 p-Isopropyltoluene	119	9.120	9.119	(0.998)	41370	5.00000	5.37
* 82 1,4-Dichlorobenzene-d4	152	9.135	9.134	(1.000)	141974	50.0000	
84 1,4-Dichlorobenzene	146	9.156	9.150	(1.002)	23992	5.00000	5.30
86 n-Butylbenzene	91	9.388	9.382	(1.028)	27242	5.00000	3.83
85 1,2-Dichlorobenzene	146	9.399	9.393	(1.029)	22261	5.00000	5.50
87 1,2-Dibromo-3-chloropropane	155	9.895	9.889	(1.083)	1744	5.00000	7.61
88 1,2,4-Trichlorobenzene	180	10.407	10.401	(1.139)	7844	5.00000	5.88
89 Hexachlorobutadiene	225	10.500	10.499	(1.149)	3987	5.00000	5.06(Q)
90 Naphthalene	128	10.556	10.550	(1.156)	12525	5.00000	6.98
91 1,2,3-Trichlorobenzene	180	10.701	10.695	(1.171)	6732	5.00000	7.49

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A03CAL.D
Lab Smp Id: 5ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a012610.b\-8260-cl.m
Misc Info:

Calibration Date: 26-JAN-2010
Calibration Time: 19:46

Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	299092	149546	598184	371269	24.13
59 Chlorobenzene-d5	259211	129606	518422	304994	17.66
82 1,4-Dichlorobenze	115960	57980	231920	141974	22.43

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.17	3.67	4.67	4.18	0.11
59 Chlorobenzene-d5	7.40	6.90	7.90	7.40	-0.01
82 1,4-Dichlorobenze	9.14	8.64	9.64	9.14	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 5ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a012610.b

Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	0.794	
74-87-3	Chloromethane	4.77	
75-01-4	Vinyl Chloride	2.25	
74-83-9	Bromomethane	4.33	
75-00-3	Chloroethane	5.11	
75-69-4	Trichlorofluoromethane	4.36	
354-23-4	1,2-dichlorotrifluoroethane	1.24	
60-29-7	Diethyl ether	1.67	
75-65-0	tert-Butyl Alcohol	17.8	
107-02-8	Acrolein	106	
76-13-1	1,1,2trichlorotrifluoroethan	1.20	
75-35-4	1,1-Dichloroethene	1.88	
67-64-1	Acetone	20.1	
	Iodomethane	11.9	
75-15-0	Carbon Disulfide	10.8	
107-05-1	allyl chloride	3.03	
79-20-9	Methyl Acetate	4.02	
75-09-2	Methylene Chloride	3.75	
107-13-1	Acrylonitrile	56.2	
1634-04-4	Methyl-tert-butyl ether	5.82	
156-60-5	1,2-Dichloroethene (trans)	4.51	
	n-Hexane	5.49	
75-34-3	1,1-Dichloroethane	5.42	
108-05-4	Vinyl Acetate	23.2	
141-78-6	Ethyl acetate	42.8	
126-99-8	Chloroprene	5.64	
594-20-7	2,2-Dichloropropane	5.84	
156-59-2	1,2-Dichloroethene (cis)	3.82	
78-93-3	2-Butanone	29.0	
107-12-0	Propionitrile	6.05	
74-97-5	Bromochloromethane	2.28	
126-98-7	Methacrylonitrile	20.0	
67-66-3	Chloroform	5.83	
71-55-6	1,1,1-Trichloroethane	3.45	
	Tetrahydrofuran	4.24	
110-82-7	cyclohexane	3.34	
78-83-1	Isobutyl alcohol	5.79	
56-23-5	Carbon Tetrachloride	5.54	
563-58-6	1,1-Dichloropropene	5.77	
71-43-2	Benzene	5.48	
107-06-2	1,2-Dichloroethane	3.14	
79-01-6	Trichloroethene	3.68	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 5ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a012610.b

Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-87-2	Methylcyclohexane	2.47	
78-87-5	1,2-Dichloropropane	4.40	
74-95-3	Dibromomethane	4.19	
80-62-6	Methyl methacrylate	4.61	
540-84-1	2,2,4-Trimethylpentane	5.44	
75-27-4	Bromodichloromethane	4.06	
110-75-8	2-Chloroethyl vinyl ether	4.12	
10061-01-5	cis-1,3-Dichloropropene	3.29	
108-10-1	4-Methyl-2-Pentanone	28.9	
108-88-3	Toluene	5.53	
10061-02-6	trans-1,3-Dichloropropene	3.56	
	Ethyl Methacrylate	3.77	
79-00-5	1,1,2-Trichloroethane	3.29	
127-18-4	Tetrachloroethene	2.78	
142-28-9	1,3-Dichloropropane	3.96	
591-78-6	2-Hexanone	17.3	
124-48-1	Dibromochloromethane	5.48	
106-93-4	1,2-Dibromoethane	3.85	
108-90-7	Chlorobenzene	5.44	
630-20-6	1,1,1,2-Tetrachloroethane	5.63	
100-41-4	Ethylbenzene	5.44	
7816-60-0	m&p-Xylene	11.4	
95-47-6	o-Xylene	5.63	
100-42-5	Styrene	5.71	
75-25-2	Bromoform	4.78	
98-82-8	Isopropylbenzene	5.68	
	trans-1,4-Dichloro-2-butene	4.40	
108-86-1	Bromobenzene	4.33	
79-34-5	1,1,2,2-Tetrachloroethane	5.50	
96-18-4	1,2,3-Trichloropropane	5.50	
103-65-1	n-Propylbenzene	5.61	
95-49-8	2-Chlorotoluene	5.47	
108-67-8	1,3,5-Trimethylbenzene	5.49	
106-43-4	4-Chlorotoluene	5.73	
98-06-6	tert-Butylbenzene	5.58	
95-63-6	1,2,4-Trimethylbenzene	5.46	
135-98-8	sec-Butylbenzene	5.38	
541-73-1	1,3-Dichlorobenzene	5.45	
99-87-6	p-Isopropyltoluene	5.37	
106-46-7	1,4-Dichlorobenzene	5.30	
104-51-8	n-Butylbenzene	3.83	
95-50-1	1,2-Dichlorobenzene	5.50	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 5ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

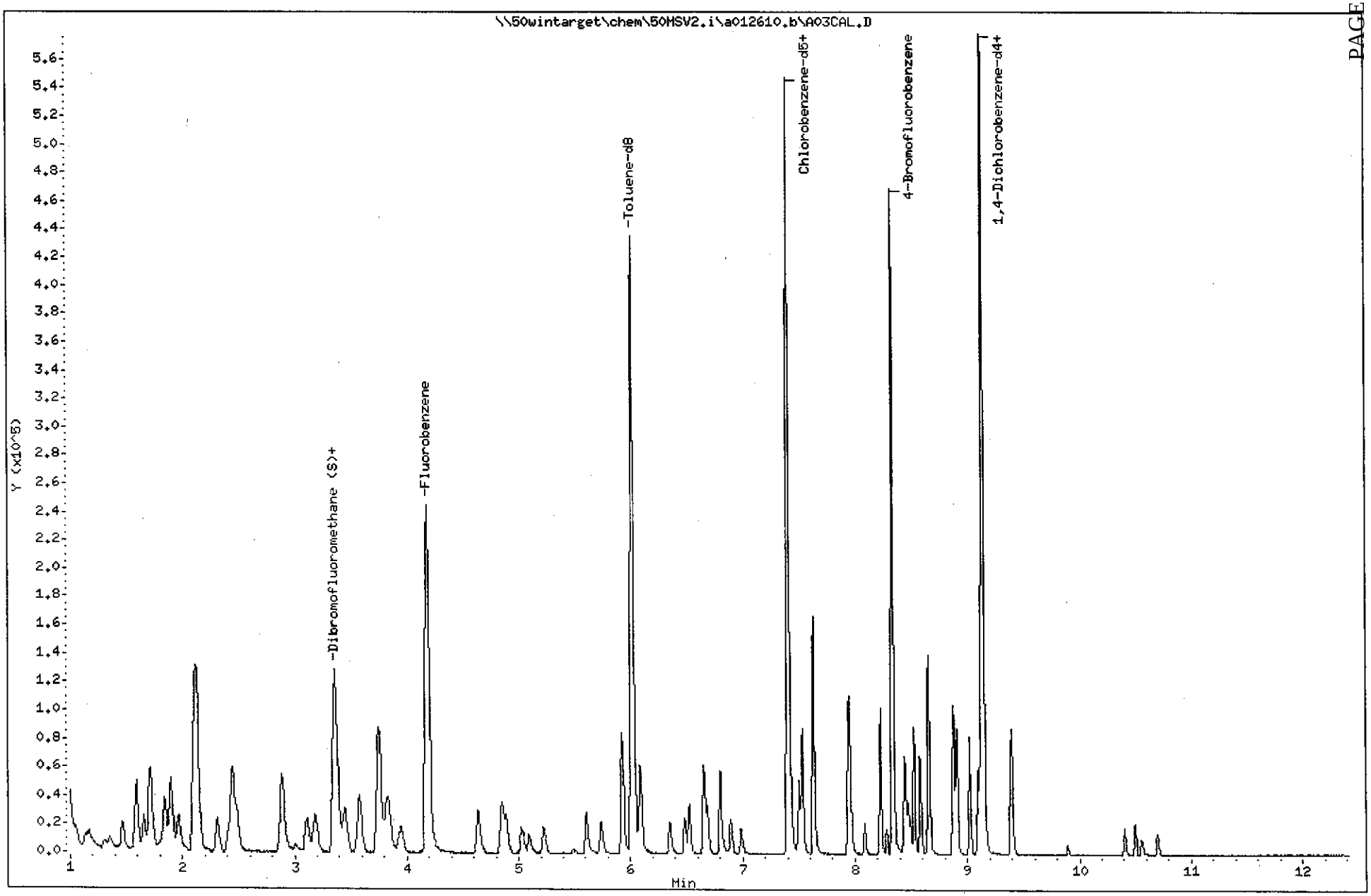
Client SDG: a012610.b

Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
96-12-8	1,2-Dibromo-3-chloropropane	7.61	
120-82-1	1,2,4-Trichlorobenzene	5.88	
87-68-3	Hexachlorobutadiene	5.06	
91-20-3	Naphthalene	6.98	
87-61-6	1,2,3-Trichlorobenzene	7.49	
1868-53-7	Dibromofluoromethane (S)	50.3	
2037-26-5	Toluene-d8	52.0	
460-00-4	4-Bromofluorobenzene	51.0	

Data File: \\50wintarget\chem\50MSV2.i\a012610.b\A03CAL.D
Date : 26-JAN-2010 14:07
Client ID:
Sample Info: 5ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a012610.b\A04CAL.D
Lab Smp Id: 10ppb
Inj Date : 26-JAN-2010 14:41
Operator : jlf
Inst ID: 50MSV2.i
Smp Info : 10ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a012610.b\-8260-c1.m
Meth Date : 27-Jan-2010 09:14 50MSV2.i
Quant Type: ISTD
Cal Date : 26-JAN-2010 14:41
Cal File: A04CAL.D
Als bottle: 9
Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	1.046	1.041	(0.250)	40724	10.0000	6.88
2 Chloromethane	50	1.134	1.134	(0.271)	35070	10.0000	10.7
3 Vinyl Chloride	62	1.170	1.170	(0.280)	38581	10.0000	8.75
4 Bromomethane	94	1.310	1.304	(0.314)	15737	10.0000	13.4
5 Chloroethane	64	1.356	1.345	(0.325)	21614	10.0000	10.9
6 Trichlorofluoromethane	101	1.465	1.464	(0.351)	41833	10.0000	10.6
28 1,2-dichlorotrifluoroethane	67	1.583	1.578	(0.379)	42879	10.0000	8.36
7 Diethyl ether	74	1.589	1.588	(0.380)	17170	10.0000	8.87
17 tert-Butyl Alcohol	59	2.028	2.024	(0.485)	5957	20.0000	27.4(M)
8 Acrolein	56	1.651	1.650	(0.395)	55957	200.000	222
10 1,1,2trichlorotrifluoroethane	101	1.702	1.702	(0.408)	30761	10.0000	8.33
9 1,1-Dichloroethene	96	1.713	1.707	(0.410)	25689	10.0000	8.60
11 Acetone	43	1.733	1.728	(0.415)	36713	50.0000	51.6
12 Iodomethane	142	1.795	1.795	(0.430)	21150	20.0000	15.8
13 Carbon Disulfide	76	1.842	1.836	(0.441)	142293	20.0000	22.1(M)
14 allyl chloride	41	1.894	1.888	(0.453)	76651	20.0000	18.2
138 Methyl Acetate	43	1.899	1.898	(0.455)	22732	10.0000	10.8
15 Methylene Chloride	84	1.961	1.960	(0.469)	30030	10.0000	10.1
16 Acrylonitrile	53	2.100	2.100	(0.503)	210283	200.000	190
19 Methyl-tert-butyl ether	73	2.131	2.126	(0.510)	149240	20.0000	19.3
18 1,2-Dichloroethene (trans)	96	2.131	2.121	(0.510)	27563	10.0000	10.4
20 n-Hexane	57	2.307	2.302	(0.552)	29843	10.0000	11.1
21 1,1-Dichloroethane	63	2.410	2.405	(0.577)	50579	10.0000	11.2

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
23 Vinyl Acetate	43	2.441	2.436	(0.584)	214389	40.0000	44.6
140 Ethyl acetate	88	2.478	2.477	(0.593)	25352	100.000	99.5
147 Chloroprene	53	2.483	2.477	(0.594)	38518	10.0000	11.3
24 2,2-Dichloropropane	77	2.876	2.875	(0.688)	38178	10.0000	11.5
25 1,2-Dichloroethene (cis)	96	2.881	2.870	(0.690)	32785	10.0000	9.55
26 2-Butanone	43	2.896	2.886	(0.693)	66688	50.0000	58.0
27 Propionitrile	54	2.963	2.943	(0.709)	3190	10.0000	11.7(Q)
29 Bromochloromethane	49	3.103	3.092	(0.743)	21237	10.0000	9.65(M)
146 Methacrylonitrile	41	3.088	3.087	(0.739)	13602	50.0000	47.0(M)
31 Chloroform	83	3.186	3.180	(0.763)	48242	10.0000	11.3
$ 32 Dibromofluoromethane (S)	113	3.351	3.351	(0.802)	115475	50.0000	50.9
33 1,1,1-Trichloroethane	97	3.377	3.377	(0.808)	43227	10.0000	9.42
30 Tetrahydrofuran	42	3.170	3.160	(0.759)	12675	10.0000	11.0
34 cyclohexane	56	3.449	3.444	(0.826)	43241	10.0000	9.51
37 Isobutyl alcohol	43	2.896	2.886	(0.693)	66688	10.0000	11.6
35 Carbon Tetrachloride	117	3.568	3.563	(0.854)	38978	10.0000	11.2
36 1,1-Dichloropropene	75	3.568	3.563	(0.854)	36511	10.0000	11.3
38 Benzene	78	3.816	3.816	(0.913)	99477	10.0000	10.7
39 1,2-Dichloroethane	62	3.837	3.837	(0.918)	34092	10.0000	10.0
* 40 Fluorobenzene	96	4.178	4.178	(1.000)	370633	50.0000	
41 Trichloroethene	95	4.638	4.627	(1.110)	28410	10.0000	9.60
139 Methylcyclohexane	55	4.850	4.845	(1.161)	31848	10.0000	9.21
42 1,2-Dichloropropane	63	4.881	4.886	(1.168)	25196	10.0000	10.7
43 Dibromomethane	93	5.026	5.015	(1.203)	17967	10.0000	10.1
44 Methyl methacrylate	69	5.083	5.077	(1.216)	16980	10.0000	9.44
143 2,2,4-Trimethylpentane	57	3.940	3.940	(0.943)	60360	10.0000	11.0
45 Bromodichloromethane	83	5.222	5.217	(1.250)	32655	10.0000	9.51
46 2-Chloroethyl vinyl ether	63	5.594	5.594	(0.756)	33430	10.0000	9.80
47 cis-1,3-Dichloropropene	75	5.734	5.728	(0.775)	37417	10.0000	9.29
48 4-Methyl-2-Pentanone	43	5.920	5.920	(0.800)	123288	50.0000	57.6
$ 49 Toluene-d8	98	6.013	6.013	(0.812)	326002	50.0000	51.0
50 Toluene	91	6.085	6.085	(0.822)	102156	10.0000	11.0
51 trans-1,3-Dichloropropene	75	6.344	6.343	(0.857)	34009	10.0000	9.04
52 Ethyl Methacrylate	69	6.478	6.478	(0.875)	33830	10.0000	9.82
53 1,1,2-Trichloroethane	83	6.525	6.524	(0.881)	18380	10.0000	9.78
54 Tetrachloroethene	166	6.654	6.653	(0.899)	44545	10.0000	11.3
55 1,3-Dichloropropane	76	6.685	6.679	(0.903)	39722	10.0000	10.1
56 2-Hexanone	43	6.798	6.798	(0.918)	80662	50.0000	50.2
57 Dibromochloromethane	129	6.892	6.891	(0.931)	27571	10.0000	10.9
58 1,2-Dibromoethane	107	6.985	6.979	(0.943)	27629	10.0000	9.58
* 59 Chlorobenzene-d5	117	7.403	7.403	(1.000)	303527	50.0000	
60 Chlorobenzene	112	7.429	7.424	(1.003)	69641	10.0000	10.8
61 1,1,1,2-Tetrachloroethane	131	7.501	7.501	(1.013)	26091	10.0000	11.3
62 Ethylbenzene	106	7.532	7.527	(1.017)	37485	10.0000	11.1
63 m&p-Xylene	106	7.631	7.630	(1.031)	95804	20.0000	22.3
65 o-Xylene	106	7.941	7.940	(1.073)	46671	10.0000	11.2
66 Styrene	104	7.951	7.951	(1.074)	76157	10.0000	11.5
67 Bromoform	173	8.085	8.080	(0.885)	19258	10.0000	10.2
68 Isopropylbenzene	105	8.225	8.225	(1.111)	117605	10.0000	11.3
69 trans-1,4-Dichloro-2-butene	53	8.489	8.483	(1.147)	6836	10.0000	9.49(Q)
142 n-amyl acetate	70	8.328	8.328	(1.125)	867	50.0000	17.1(QM)
$ 70 4-Bromofluorobenzene	95	8.334	8.328	(1.126)	136345	50.0000	50.7
71 Bromobenzene	77	8.432	8.431	(1.139)	47824	10.0000	12.0
72 1,1,2,2-Tetrachloroethane	83	8.447	8.447	(0.924)	28122	10.0000	10.8

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
73 1,2,3-Trichloropropane	75	8.473	8.483	(0.927)	32054	10.0000	10.6
74 n-Propylbenzene	91	8.525	8.524	(0.933)	114408	10.0000	11.1
75 2-Chlorotoluene	91	8.576	8.576	(0.938)	73433	10.0000	10.8
77 1,3,5-Trimethylbenzene	105	8.649	8.649	(0.946)	83148	10.0000	11.0
76 4-Chlorotoluene	126	8.576	8.576	(0.938)	24589	10.0000	11.1
78 tert-Butylbenzene	119	8.871	8.871	(0.971)	93481	10.0000	10.8
79 1,2,4-Trimethylbenzene	105	8.907	8.902	(0.975)	82965	10.0000	11.1
80 sec-Butylbenzene	105	9.021	9.021	(0.987)	104193	10.0000	11.0
81 1,3-Dichlorobenzene	146	9.093	9.093	(0.995)	45214	10.0000	10.5
83 p-Isopropyltoluene	119	9.119	9.119	(0.998)	82579	10.0000	10.9
* 82 1,4-Dichlorobenzene-d4	152	9.140	9.134	(1.000)	139778	50.0000	
84 1,4-Dichlorobenzene	146	9.155	9.150	(1.002)	47524	10.0000	10.6
86 n-Butylbenzene	91	9.388	9.382	(1.027)	59276	10.0000	9.63
85 1,2-Dichlorobenzene	146	9.398	9.393	(1.028)	44567	10.0000	11.2
87 1,2-Dibromo-3-chloropropane	155	9.889	9.889	(1.082)	4182	10.0000	11.9
88 1,2,4-Trichlorobenzene	180	10.406	10.401	(1.139)	19753	10.0000	10.3
89 Hexachlorobutadiene	225	10.499	10.499	(1.149)	9085	10.0000	10.4
90 Naphthalene	128	10.556	10.550	(1.155)	37607	10.0000	11.0
91 1,2,3-Trichlorobenzene	180	10.701	10.695	(1.171)	16027	10.0000	11.6

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A04CAL.D
Lab Smp Id: 10ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a012610.b\-8260-c1.m
Misc Info:

Calibration Date: 26-JAN-2010
Calibration Time: 19:46

Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	299092	149546	598184	370633	23.92
59 Chlorobenzene-d5	259211	129606	518422	303527	17.10
82 1,4-Dichlorobenze	115960	57980	231920	139778	20.54

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.17	3.67	4.67	4.18	0.10
59 Chlorobenzene-d5	7.40	6.90	7.90	7.40	-0.02
82 1,4-Dichlorobenze	9.14	8.64	9.64	9.14	0.04

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 10ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a012610.b
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	6.88	
74-87-3	Chloromethane	10.7	
75-01-4	Vinyl Chloride	8.75	
74-83-9	Bromomethane	13.4	
75-00-3	Chloroethane	10.9	
75-69-4	Trichlorofluoromethane	10.6	
354-23-4	1,2-dichlorotrifluoroethane	8.36	
60-29-7	Diethyl ether	8.87	
75-65-0	tert-Butyl Alcohol	27.4	
107-02-8	Acrolein	222	
76-13-1	1,1,2trichlorotrifluoroethan	8.33	
75-35-4	1,1-Dichloroethene	8.60	
67-64-1	Acetone	51.6	
	Iodomethane	15.8	
75-15-0	Carbon Disulfide	22.1	
107-05-1	allyl chloride	18.2	
79-20-9	Methyl Acetate	10.8	
75-09-2	Methylene Chloride	10.1	
107-13-1	Acrylonitrile	190	
1634-04-4	Methyl-tert-butyl ether	19.3	
156-60-5	1,2-Dichloroethene (trans)	10.4	
	n-Hexane	11.1	
75-34-3	1,1-Dichloroethane	11.2	
108-05-4	Vinyl Acetate	44.6	
141-78-6	Ethyl acetate	99.5	
126-99-8	Chloroprene	11.3	
594-20-7	2,2-Dichloropropane	11.5	
156-59-2	1,2-Dichloroethene (cis)	9.55	
78-93-3	2-Butanone	58.0	
107-12-0	Propionitrile	11.7	
74-97-5	Bromochloromethane	9.65	
126-98-7	Methacrylonitrile	47.0	
67-66-3	Chloroform	11.3	
71-55-6	1,1,1-Trichloroethane	9.42	
	Tetrahydrofuran	11.0	
110-82-7	cyclohexane	9.51	
78-83-1	Isobutyl alcohol	11.6	
56-23-5	Carbon Tetrachloride	11.2	
563-58-6	1,1-Dichloropropene	11.3	
71-43-2	Benzene	10.7	
107-06-2	1,2-Dichloroethane	10.0	
79-01-6	Trichloroethene	9.60	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 10ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a012610.b

Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-87-2	Methylcyclohexane	9.21	
78-87-5	1,2-Dichloropropane	10.7	
74-95-3	Dibromomethane	10.1	
80-62-6	Methyl methacrylate	9.44	
540-84-1	2,2,4-Trimethylpentane	11.0	
75-27-4	Bromodichloromethane	9.51	
110-75-8	2-Chloroethyl vinyl ether	9.80	
10061-01-5	cis-1,3-Dichloropropene	9.29	
108-10-1	4-Methyl-2-Pentanone	57.6	
108-88-3	Toluene	11.0	
10061-02-6	trans-1,3-Dichloropropene	9.04	
	Ethyl Methacrylate	9.82	
79-00-5	1,1,2-Trichloroethane	9.78	
127-18-4	Tetrachloroethene	11.3	
142-28-9	1,3-Dichloropropane	10.1	
591-78-6	2-Hexanone	50.2	
124-48-1	Dibromochloromethane	10.9	
106-93-4	1,2-Dibromoethane	9.58	
108-90-7	Chlorobenzene	10.8	
630-20-6	1,1,1,2-Tetrachloroethane	11.3	
100-41-4	Ethylbenzene	11.1	
7816-60-0	m&p-Xylene	22.3	
95-47-6	o-Xylene	11.2	
100-42-5	Styrene	11.5	
75-25-2	Bromoform	10.2	
98-82-8	Isopropylbenzene	11.3	
	trans-1,4-Dichloro-2-butene	9.49	
628-63-7	n-amyl acetate	17.1	
108-86-1	Bromobenzene	12.0	
79-34-5	1,1,2,2-Tetrachloroethane	10.8	
96-18-4	1,2,3-Trichloropropane	10.6	
103-65-1	n-Propylbenzene	11.1	
95-49-8	2-Chlorotoluene	10.8	
108-67-8	1,3,5-Trimethylbenzene	11.0	
106-43-4	4-Chlorotoluene	11.1	
98-06-6	tert-Butylbenzene	10.8	
95-63-6	1,2,4-Trimethylbenzene	11.1	
135-98-8	sec-Butylbenzene	11.0	
541-73-1	1,3-Dichlorobenzene	10.5	
99-87-6	p-Isopropyltoluene	10.9	
106-46-7	1,4-Dichlorobenzene	10.6	
104-51-8	n-Butylbenzene	9.63	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 10ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

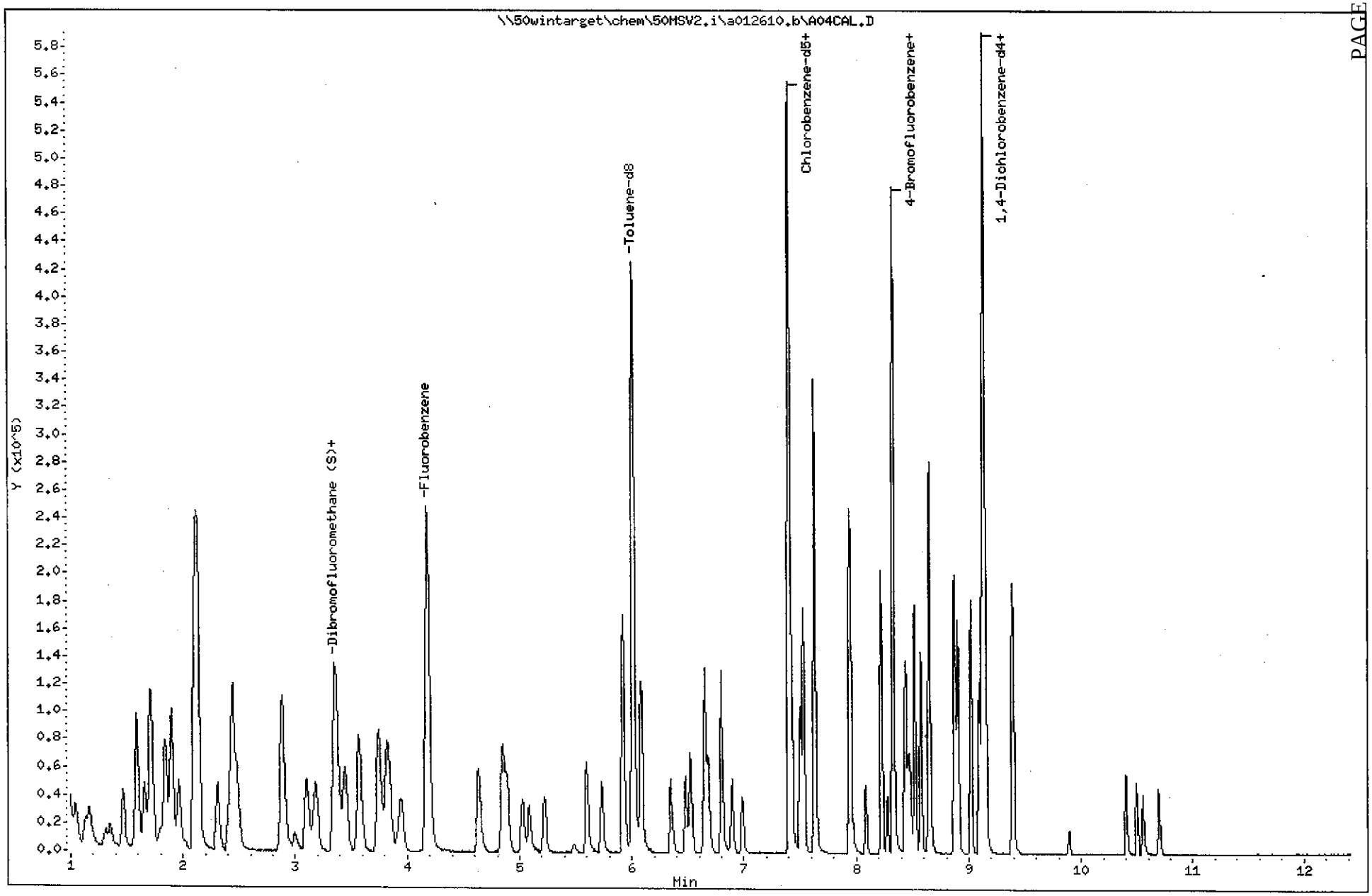
Client SDG: a012610.b

Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
95-50-1	1,2-Dichlorobenzene	11.2	
96-12-8	1,2-Dibromo-3-chloropropane	11.9	
120-82-1	1,2,4-Trichlorobenzene	10.3	
87-68-3	Hexachlorobutadiene	10.4	
91-20-3	Naphthalene	11.0	
87-61-6	1,2,3-Trichlorobenzene	11.6	
1868-53-7	Dibromofluoromethane (S)	50.9	
2037-26-5	Toluene-d8	51.0	
460-00-4	4-Bromofluorobenzene	50.7	

Data File: \\50wintarget\chem\50MSV2.i\a012610.b\A04CAL.D
Date : 26-JAN-2010 14:41
Client ID:
Sample Info: 10ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a012610.b\A05CAL-CCV.D
Lab Smp Id: 50ppb Client Smp ID: ccv
Inj Date : 26-JAN-2010 15:15
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 50ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a012610.b\-8260-c1.m
Meth Date : 27-Jan-2010 09:14 50MSV2.i Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 11 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

MID 2-48 CCD
1-27-10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	1.041	1.041	(0.249)	225267	50.0000	56.6
2 Chloromethane	50	1.129	1.134	(0.270)	169978	50.0000	51.3
3 Vinyl Chloride	62	1.170	1.170	(0.280)	192422	50.0000	55.5
4 Bromomethane	94	1.299	1.304	(0.311)	45429	50.0000	49.1
5 Chloroethane	64	1.346	1.345	(0.322)	100189	50.0000	49.8
6 Trichlorofluoromethane	101	1.459	1.464	(0.349)	207659	50.0000	55.0
28 1,2-dichlorotrifluoroethane	67	1.578	1.578	(0.378)	194029	50.0000	58.7
7 Diethyl ether	74	1.584	1.588	(0.379)	77455	50.0000	57.2
17 tert-Butyl Alcohol	59	2.023	2.024	(0.484)	26822	100.000	91.3(MH)
8 Acrolein	56	1.651	1.650	(0.395)	279671	1000.00	1100
10 1,1,2trichlorotrifluoroethane	101	1.697	1.702	(0.406)	139802	50.0000	59.3
9 1,1-Dichloroethene	96	1.708	1.707	(0.409)	116821	50.0000	57.7
11 Acetone	43	1.728	1.728	(0.414)	153131	250.000	271
12 Iodomethane	142	1.790	1.795	(0.429)	186799	100.000	79.3
13 Carbon Disulfide	76	1.837	1.836	(0.440)	642936	100.000	98.8(M)
14 allyl chloride	41	1.888	1.888	(0.452)	324409	100.000	113(QM)
145 Acetonitrile	41	1.217	1.202	(0.291)	980	1000.00	1130(Q)
138 Methyl Acetate	43	1.899	1.898	(0.455)	92155	50.0000	51.2
15 Methylene Chloride	84	1.956	1.960	(0.468)	126919	50.0000	53.1
16 Acrylonitrile	53	2.100	2.100	(0.503)	911600	1000.00	1110
19 Methyl-tert-butyl ether	73	2.126	2.126	(0.509)	643686	100.000	110
18 1,2-Dichloroethene (trans)	96	2.126	2.121	(0.509)	124009	50.0000	52.3
20 n-Hexane	57	2.302	2.302	(0.551)	145777	50.0000	53.6

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	21 1,1-Dichloroethane	63	2.405	2.405	(0.576)	225987	50.0000	49.3
	23 Vinyl Acetate	43	2.436	2.436	(0.583)	976244	200.000	200
	140 Ethyl acetate	88	2.478	2.477	(0.593)	120154	500.000	535(Q)
	147 Chloroprene	53	2.478	2.477	(0.593)	177484	50.0000	51.5
	24 2,2-Dichloropropane	77	2.876	2.875	(0.688)	171332	50.0000	51.1
	25 1,2-Dichloroethene (cis)	96	2.876	2.870	(0.688)	155108	50.0000	52.5
	26 2-Butanone	43	2.891	2.886	(0.692)	293235	250.000	252
	27 Propionitrile	54	2.948	2.943	(0.706)	18693	50.0000	49.3(Q)
	29 Bromochloromethane	49	3.098	3.092	(0.741)	95010	50.0000	57.6(M)
	146 Methacrylonitrile	41	3.082	3.087	(0.738)	70031	250.000	258(M)
	31 Chloroform	83	3.175	3.180	(0.760)	219218	50.0000	50.7
$	32 Dibromofluoromethane (S)	113	3.351	3.351	(0.802)	114519	50.0000	49.8
	33 1,1,1-Trichloroethane	97	3.372	3.377	(0.807)	206205	50.0000	53.6
	30 Tetrahydrofuran	42	3.160	3.160	(0.756)	39076	50.0000	50.3
	34 cyclohexane	56	3.439	3.444	(0.823)	202768	50.0000	54.4
	37 Isobutyl alcohol	43	2.891	2.886	(0.692)	293235	50.0000	50.4
	35 Carbon Tetrachloride	117	3.568	3.563	(0.854)	185810	50.0000	52.8
	36 1,1-Dichloropropene	75	3.563	3.563	(0.853)	172166	50.0000	52.7
	38 Benzene	78	3.811	3.816	(0.912)	470482	50.0000	50.0
	141 isopropyl acetate	61	3.734	3.738	(0.894)	1450	250.000	11.1(Q)
	39 1,2-Dichloroethane	62	3.837	3.837	(0.918)	152264	50.0000	54.4
*	40 Fluorobenzene	96	4.178	4.178	(1.000)	375175	50.0000	
	41 Trichloroethene	95	4.628	4.627	(1.108)	135443	50.0000	52.6
	139 Methylcyclohexane	55	4.850	4.845	(1.161)	148596	50.0000	55.6
	42 1,2-Dichloropropane	63	4.881	4.886	(1.168)	113476	50.0000	52.2
	43 Dibromomethane	93	5.015	5.015	(1.200)	84480	50.0000	51.9
	44 Methyl methacrylate	69	5.077	5.077	(1.215)	93307	50.0000	51.0
	143 2,2,4-Trimethylpentane	57	3.935	3.940	(0.942)	290192	50.0000	52.3
	144 1,4-Dioxane	88	5.083	5.072	(1.216)	653	1000.00	477(Q)
	45 Bromodichloromethane	83	5.217	5.217	(1.249)	163294	50.0000	52.0
	46 2-Chloroethyl vinyl ether	63	5.594	5.594	(0.756)	168248	50.0000	52.3
	47 cis-1,3-Dichloropropene	75	5.729	5.728	(0.774)	185095	50.0000	53.0
	48 4-Methyl-2-Pentanone	43	5.920	5.920	(0.800)	542043	250.000	247
$	49 Toluene-d8	98	6.013	6.013	(0.812)	326844	50.0000	49.8
	50 Toluene	91	6.085	6.085	(0.822)	479487	50.0000	50.3
	51 trans-1,3-Dichloropropene	75	6.344	6.343	(0.857)	180237	50.0000	53.6
	52 Ethyl Methacrylate	69	6.478	6.478	(0.875)	167926	50.0000	53.0
	53 1,1,2-Trichloroethane	83	6.525	6.524	(0.881)	85211	50.0000	54.1
	54 Tetrachloroethene	166	6.654	6.653	(0.899)	191367	50.0000	59.5
	55 1,3-Dichloropropane	76	6.680	6.679	(0.902)	180944	50.0000	53.4
	56 2-Hexanone	43	6.793	6.798	(0.918)	371106	250.000	272
	57 Dibromochloromethane	129	6.892	6.891	(0.931)	137816	50.0000	53.0
	58 1,2-Dibromoethane	107	6.979	6.979	(0.943)	134941	50.0000	52.6
*	59 Chlorobenzene-d5	117	7.403	7.403	(1.000)	311570	50.0000	
	60 Chlorobenzene	112	7.424	7.424	(1.003)	326237	50.0000	49.5
	61 1,1,1,2-Tetrachloroethane	131	7.501	7.501	(1.013)	124997	50.0000	52.9
	62 Ethylbenzene	106	7.527	7.527	(1.017)	175863	50.0000	50.8
	63 m&p-Xylene	106	7.631	7.630	(1.031)	443239	100.000	101
	65 o-Xylene	106	7.941	7.940	(1.073)	219866	50.0000	51.2
	66 Styrene	104	7.951	7.951	(1.074)	357575	50.0000	52.4
	67 Bromoform	173	8.085	8.080	(0.885)	102749	50.0000	50.0
	68 Isopropylbenzene	105	8.225	8.225	(1.111)	546119	50.0000	51.1
	69 trans-1,4-Dichloro-2-butene	53	8.489	8.483	(1.147)	37820	50.0000	53.2(QH)
	142 n-amyl acetate	70	8.334	8.328	(1.126)	685	250.000	13.2(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
$ 70 4-Bromofluorobenzene	95	8.334	8.328	(1.126)	140263	50.0000	50.8
71 Bromobenzene	77	8.432	8.431	(1.139)	177503	50.0000	52.3
72 1,1,2,2-Tetrachloroethane	83	8.447	8.447	(0.924)	134018	50.0000	50.3
73 1,2,3-Trichloropropane	75	8.468	8.483	(0.926)	151862	50.0000	48.9(Q)
74 n-Propylbenzene	91	8.525	8.524	(0.933)	532174	50.0000	50.2
75 2-Chlorotoluene	91	8.576	8.576	(0.938)	331404	50.0000	47.6
77 1,3,5-Trimethylbenzene	105	8.649	8.649	(0.946)	388489	50.0000	50.3
76 4-Chlorotoluene	126	8.576	8.576	(0.938)	114590	50.0000	49.1
78 tert-Butylbenzene	119	8.876	8.871	(0.971)	444928	50.0000	50.0
79 1,2,4-Trimethylbenzene	105	8.907	8.902	(0.975)	373034	50.0000	48.7
80 sec-Butylbenzene	105	9.021	9.021	(0.987)	488941	50.0000	50.4
81 1,3-Dichlorobenzene	146	9.093	9.093	(0.995)	221390	50.0000	50.1
83 p-Isopropyltoluene	119	9.119	9.119	(0.998)	396288	50.0000	50.8
* 82 1,4-Dichlorobenzene-d4	152	9.140	9.134	(1.000)	143655	50.0000	
84 1,4-Dichlorobenzene	146	9.155	9.150	(1.002)	225638	50.0000	49.2
86 n-Butylbenzene	91	9.388	9.382	(1.027)	300731	50.0000	51.4
85 1,2-Dichlorobenzene	146	9.398	9.393	(1.028)	211270	50.0000	51.6
87 1,2-Dibromo-3-chloropropane	155	9.889	9.889	(1.082)	25847	50.0000	48.7
88 1,2,4-Trichlorobenzene	180	10.401	10.401	(1.138)	123630	50.0000	47.6
89 Hexachlorobutadiene	225	10.499	10.499	(1.149)	48291	50.0000	49.9
90 Naphthalene	128	10.551	10.550	(1.154)	268577	50.0000	47.0
91 1,2,3-Trichlorobenzene	180	10.696	10.695	(1.170)	100227	50.0000	47.2
92 2,methyl-naphthalene	142	11.238	11.233	(1.230)	23266	50.0000	57.8(H)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A05CAL-CCV.D
Lab Smp Id: 50ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a012610.b\-8260-c1.m
Misc Info:

Calibration Date: 26-JAN-2010
Calibration Time: 15:15
Client Smp ID: ccv
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	375175	187588	750350	375175	0.00
59 Chlorobenzene-d5	311570	155785	623140	311570	0.00
82 1,4-Dichlorobenze	143655	71828	287310	143655	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.18	3.68	4.68	4.18	0.00
59 Chlorobenzene-d5	7.40	6.90	7.90	7.40	0.00
82 1,4-Dichlorobenze	9.14	8.64	9.64	9.14	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV2.i Injection Date: 26-JAN-2010 15:15
Lab File ID: A05CAL-CCV.D Init. Cal. Date(s): 26-JAN-2010 26-JAN-2010
Analysis Type: WATER Init. Cal. Times: 12:58 16:56
Lab Sample ID: 50ppb Quant Type: ISTD
Method: \\50wintarget\chem\50MSV2.i\a012610.b\-8260-c1.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Dichlorodifluoromethane	50.00000	56.60689	0.60043	0.000	13.21379	0.000e+000	Linear
2 Chloromethane	0.44136	0.45306	0.45306	0.000	2.65055	20.00000	Averaged
3 Vinyl Chloride	50.00000	55.53746	0.51289	0.000	11.07492	0.000e+000	Linear
4 Bromomethane	50.00000	49.12511	0.12109	0.000	-1.74977	0.000e+000	Linear
5 Chloroethane	50.00000	49.80544	0.26705	0.000	-0.38912	0.000e+000	Linear
6 Trichlorofluoromethane	50.00000	55.00084	0.55350	0.000	10.00167	0.000e+000	Linear
28 1,2-dichlorotrifluoroethane	50.00000	58.70995	0.51717	0.000	17.41989	0.000e+000	Linear
7 Diethyl ether	50.00000	57.25367	0.20645	0.000	14.50733	0.000e+000	Linear
17 tert-Butyl Alcohol	100	91.27639	0.03575	0.000	-8.72361	0.000e+000	Linear
8 Acrolein	0.03395	0.03727	0.03727	0.000	9.77664	20.00000	Averaged
10 1,1,2trichlorotrifluoroetha	50.00000	59.34555	0.37263	0.000	18.69111	0.000e+000	Linear
9 1,1-Dichloroethene	50.00000	57.66557	0.31138	0.000	15.33113	0.000e+000	Linear
11 Acetone	250	271	0.08163	0.000	8.50870	0.000e+000	Linear
12 Iodomethane	100	79.34992	0.24895	0.000	-20.65008	0.000e+000	Quadratic
13 Carbon Disulfide	0.86731	0.85685	0.85685	0.000	-1.20599	20.00000	Averaged
14 allyl chloride	100	113	0.43234	0.000	13.07826	0.000e+000	Linear
145 Acetonitrile	0.00012	0.00013	0.00013	0.000	12.89110	20.00000	Averaged
138 Methyl Acetate	50.00000	51.15791	0.24563	0.000	2.31582	0.000e+000	Linear
15 Methylene Chloride	50.00000	53.06436	0.33829	0.000	6.12872	0.000e+000	Linear
16 Acrylonitrile	1000	1107	0.12149	0.000	10.73967	0.000e+000	Linear
19 Methyl-tert-butyl ether	100	111	0.85785	0.000	10.56035	0.000e+000	Linear
18 1,2-Dichloroethene (trans)	50.00000	52.26269	0.33054	0.000	4.52537	0.000e+000	Linear
20 n-Hexane	0.36219	0.38856	0.38856	0.000	7.28031	20.00000	Averaged
21 1,1-Dichloroethane	0.61090	0.60235	0.60235	0.000	-1.39922	20.00000	Averaged
23 Vinyl Acetate	0.64859	0.65053	0.65053	0.000	0.29871	20.00000	Averaged
140 Ethyl acetate	500	535	0.03203	0.000	6.98884	0.000e+000	Linear
147 Chloroprene	0.45921	0.47307	0.47307	0.000	3.01860	20.00000	Averaged
24 2,2-Dichloropropane	0.44654	0.45667	0.45667	0.000	2.27019	20.00000	Averaged
25 1,2-Dichloroethene (cis)	50.00000	52.53398	0.41343	0.000	5.06796	0.000e+000	Linear
26 2-Butanone	0.15498	0.15632	0.15632	0.000	0.86240	20.00000	Averaged
27 Propionitrile	50.00000	49.26758	0.04982	0.000	-1.46483	0.000e+000	Linear
29 Bromochloromethane	50.00000	57.62183	0.25324	0.000	15.24365	0.000e+000	Linear
146 Methacrylonitrile	250	258	0.03733	0.000	3.13754	0.000e+000	Linear
31 Chloroform	0.57587	0.58431	0.58431	0.000	1.46506	20.00000	Averaged
$ 32 Dibromofluoromethane (S)	0.30619	0.30524	0.30524	0.000	-0.31026	20.00000	Averaged
33 1,1,1-Trichloroethane	50.00000	53.56165	0.54962	0.000	7.12330	0.000e+000	Linear
30 Tetrahydrofuran	50.00000	50.29621	0.10415	0.000	0.59241	0.000e+000	Linear
34 cyclohexane	50.00000	54.42953	0.54046	0.000	8.85907	0.000e+000	Linear
37 Isobutyl alcohol	0.77491	0.78160	0.78160	0.000	0.86240	20.00000	Averaged
35 Carbon Tetrachloride	0.46894	0.49526	0.49526	0.000	5.61362	20.00000	Averaged
36 1,1-Dichloropropene	0.43502	0.45890	0.45890	0.000	5.48837	20.00000	Averaged
38 Benzene	1.25414	1.25403	1.25403	0.000	-0.00858	20.00000	Averaged

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV2.i Injection Date: 26-JAN-2010 15:15
Lab File ID: A05CAL-CCV.D Init. Cal. Date(s): 26-JAN-2010 26-JAN-2010
Analysis Type: WATER Init. Cal. Times: 12:58 16:56
Lab Sample ID: 50ppb Quant Type: ISTD
Method: \\50wintarget\chem\50MSV2.i\a012610.b\-8260-c1.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
141 isopropyl acetate	0.01746	0.00077	0.00077	0.000	-95.57167	20.00000	Averaged	<-
39 1,2-Dichloroethane	50.00000	54.41588	0.40585	0.000	8.83177	0.000e+000	Linear	
41 Trichloroethene	50.00000	52.62815	0.36101	0.000	5.25631	0.000e+000	Linear	
139 Methylcyclohexane	50.00000	55.57350	0.39607	0.000	11.14699	0.000e+000	Linear	
42 1,2-Dichloropropane	50.00000	52.20828	0.30246	0.000	4.41657	0.000e+000	Wt Linear	
43 Dibromomethane	50.00000	51.94818	0.22517	0.000	3.89636	0.000e+000	Linear	
44 Methyl methacrylate	50.00000	51.05477	0.24870	0.000	2.10953	0.000e+000	Linear	
143 2,2,4-Trimethylpentane	0.73883	0.77348	0.77348	0.000	4.68979	20.00000	Averaged	
144 1,4-Dioxane	0.00018	0.00009	0.00009	0.000	-52.30905	20.00000	Averaged	<-
45 Bromodichloromethane	50.00000	52.02463	0.43525	0.000	4.04926	0.000e+000	Linear	
46 2-Chloroethyl vinyl ether	50.00000	52.30586	0.54000	0.000	4.61172	0.000e+000	Linear	
47 cis-1,3-Dichloropropene	50.00000	52.99760	0.59407	0.000	5.99521	0.000e+000	Linear	
48 4-Methyl-2-Pentanone	0.35227	0.34794	0.34794	0.000	-1.22878	20.00000	Averaged	
$ 49 Toluene-d8	1.05250	1.04902	1.04902	0.000	-0.33054	20.00000	Averaged	
50 Toluene	1.52935	1.53894	1.53894	0.000	0.62686	20.00000	Averaged	
51 trans-1,3-Dichloropropene	50.00000	53.55119	0.57848	0.000	7.10238	0.000e+000	Linear	
52 Ethyl Methacrylate	50.00000	53.04272	0.53897	0.000	6.08545	0.000e+000	Linear	
53 1,1,2-Trichloroethane	50.00000	54.13005	0.27349	0.000	8.26011	0.000e+000	Linear	
54 Tetrachloroethene	50.00000	59.52193	0.61420	0.000	19.04385	0.000e+000	Linear	
55 1,3-Dichloropropane	50.00000	53.43513	0.58075	0.000	6.87026	0.000e+000	Linear	
56 2-Hexanone	250	272	0.23822	0.000	8.76655	0.000e+000	Linear	
57 Dibromochloromethane	0.41715	0.44233	0.44233	0.000	6.03539	20.00000	Averaged	
58 1,2-Dibromoethane	50.00000	52.58901	0.43310	0.000	5.17801	0.000e+000	Linear	
60 Chlorobenzene	1.05673	1.04707	1.04707	0.000	-0.91326	20.00000	Averaged	
61 1,1,1,2-Tetrachloroethane	0.37886	0.40118	0.40118	0.000	5.89133	20.00000	Averaged	
62 Ethylbenzene	0.55572	0.56444	0.56444	0.000	1.56929	20.00000	Averaged	
63 m&p-Xylene	0.70640	0.71130	0.71130	0.000	0.69356	20.00000	Averaged	
65 o-Xylene	0.68865	0.70567	0.70567	0.000	2.47167	20.00000	Averaged	
66 Styrene	1.09458	1.14766	1.14766	0.000	4.84858	20.00000	Averaged	
67 Bromoform	50.00000	49.96778	0.71525	0.000	-0.06444	0.000e+000	Linear	
68 Isopropylbenzene	1.71634	1.75280	1.75280	0.000	2.12405	20.00000	Averaged	
69 trans-1,4-Dichloro-2-butene	50.00000	53.21680	0.12139	0.000	6.43360	0.000e+000	Linear	
142 n-amyl acetate	0.00834	0.00044	0.00044	0.000	-94.72717	20.00000	Averaged	<-
$ 70 4-Bromofluorobenzene	0.44264	0.45018	0.45018	0.000	1.70381	20.00000	Averaged	
71 Bromobenzene	50.00000	52.26473	0.56971	0.000	4.52947	0.000e+000	Linear	
72 1,1,2,2-Tetrachloroethane	0.92693	0.93292	0.93292	0.000	0.64568	20.00000	Averaged	
73 1,2,3-Trichloropropane	1.08177	1.05713	1.05713	0.000	-2.27816	20.00000	Averaged	
74 n-Propylbenzene	3.69097	3.70453	3.70453	0.000	0.36732	20.00000	Averaged	
75 2-Chlorotoluene	2.42129	2.30694	2.30694	0.000	-4.72254	20.00000	Averaged	
77 1,3,5-Trimethylbenzene	2.68992	2.70432	2.70432	0.000	0.53523	20.00000	Averaged	
76 4-Chlorotoluene	50.00000	49.09206	0.79767	0.000	-1.81589	0.000e+000	Linear	
78 tert-Butylbenzene	3.09804	3.09720	3.09720	0.000	-0.02709	20.00000	Averaged	
79 1,2,4-Trimethylbenzene	2.66407	2.59674	2.59674	0.000	-2.52749	20.00000	Averaged	

Pace Analytical Services, Inc.

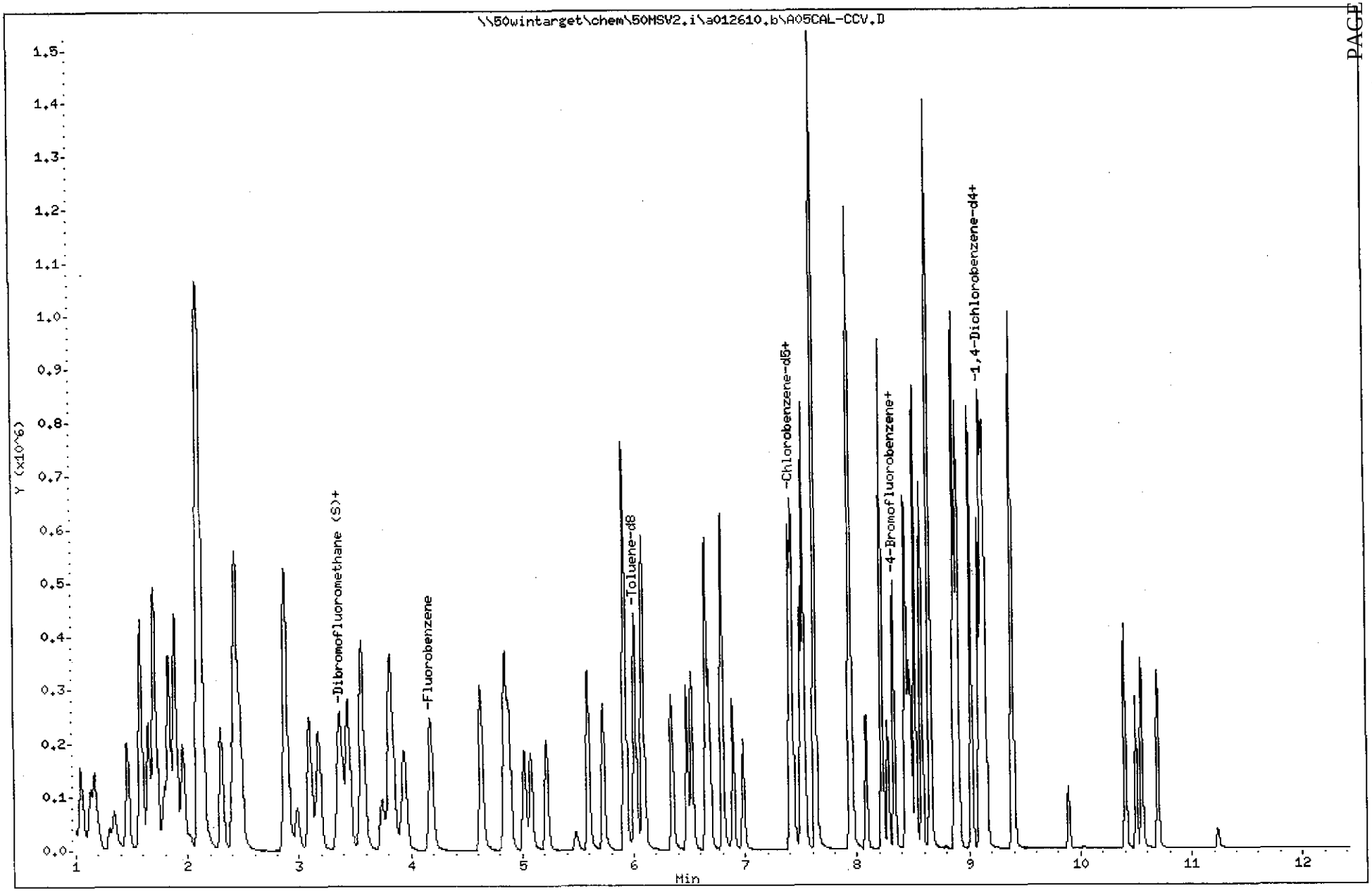
CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV2.i Injection Date: 26-JAN-2010 15:15
Lab File ID: A05CAL-CCV.D Init. Cal. Date(s): 26-JAN-2010 26-JAN-2010
Analysis Type: WATER Init. Cal. Times: 12:58 16:56
Lab Sample ID: 50ppb Quant Type: ISTD
Method: \\50wintarget\chem\50MSV2.i\a012610.b\-8260-c1.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
80 sec-Butylbenzene	3.37991	3.40358	3.40358	0.000	0.70021	20.00000	Averaged
81 1,3-Dichlorobenzene	1.53724	1.54112	1.54112	0.000	0.25253	20.00000	Averaged
83 p-Isopropyltoluene	2.71269	2.75861	2.75861	0.000	1.69280	20.00000	Averaged
84 1,4-Dichlorobenzene	1.59513	1.57069	1.57069	0.000	-1.53205	20.00000	Averaged
86 n-Butylbenzene	50.00000	51.37610	2.09343	0.000	2.75220	0.000e+000	Linear
85 1,2-Dichlorobenzene	1.42467	1.47068	1.47068	0.000	3.22898	20.00000	Averaged
87 1,2-Dibromo-3-chloropropane	50.00000	48.66163	0.17992	0.000	-2.67674	0.000e+000	Linear
88 1,2,4-Trichlorobenzene	50.00000	47.64715	0.86060	0.000	-4.70571	0.000e+000	Linear
89 Hexachlorobutadiene	50.00000	49.91785	0.33616	0.000	-0.16430	0.000e+000	Linear
90 Naphthalene	50.00000	47.05361	1.86960	0.000	-5.89279	0.000e+000	Linear
91 1,2,3-Trichlorobenzene	50.00000	47.20190	0.69769	0.000	-5.59620	0.000e+000	Linear
92 2,methyl-naphthalene	50.00000	57.79951	0.16196	0.000	15.59902	0.000e+000	Linear

Data File: \\50wintarget\chem\50MSV2.i\a012610.b\A05CAL-CCV.D
Date : 26-JAN-2010 15:15
Client ID: ccv
Sample Info: 50ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a012610.b\A05CAL.D
Lab Smp Id: 50ppb
Inj Date : 26-JAN-2010 15:15
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 50ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a012610.b\-8260-c1.m
Meth Date : 27-Jan-2010 09:14 50MSV2.i Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 11 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	1.041	1.041	(0.249)	225267	50.0000	56.6
2 Chloromethane	50	1.129	1.134	(0.270)	169978	50.0000	51.3
3 Vinyl Chloride	62	1.170	1.170	(0.280)	192422	50.0000	55.5
4 Bromomethane	94	1.299	1.304	(0.311)	45429	50.0000	49.1
5 Chloroethane	64	1.346	1.345	(0.322)	100189	50.0000	49.8
6 Trichlorofluoromethane	101	1.459	1.464	(0.349)	207659	50.0000	55.0
28 1,2-dichlorotrifluoroethane	67	1.578	1.578	(0.378)	194029	50.0000	58.7
7 Diethyl ether	74	1.584	1.588	(0.379)	77455	50.0000	57.2
17 tert-Butyl Alcohol	59	2.023	2.024	(0.484)	26822	100.000	91.3 (MH)
8 Acrolein	56	1.651	1.650	(0.395)	279671	1000.00	1100
10 1,1,2trichlorotrifluoroethane	101	1.697	1.702	(0.406)	139802	50.0000	59.3
9 1,1-Dichloroethene	96	1.708	1.707	(0.409)	116821	50.0000	57.7
11 Acetone	43	1.728	1.728	(0.414)	153131	250.000	271
12 Iodomethane	142	1.790	1.795	(0.429)	186799	100.000	79.3
13 Carbon Disulfide	76	1.837	1.836	(0.440)	642936	100.000	98.8 (M)
14 allyl chloride	41	1.888	1.888	(0.452)	324409	100.000	113 (M)
145 Acetonitrile	41	1.217	1.202	(0.291)	980	1000.00	1130
138 Methyl Acetate	43	1.899	1.898	(0.455)	92155	50.0000	51.2
15 Methylene Chloride	84	1.956	1.960	(0.468)	126919	50.0000	53.1
16 Acrylonitrile	53	2.100	2.100	(0.503)	911600	1000.00	1110
19 Methyl-tert-butyl ether	73	2.126	2.126	(0.509)	643686	100.000	110
18 1,2-Dichloroethene (trans)	96	2.126	2.121	(0.509)	124009	50.0000	52.3
20 n-Hexane	57	2.302	2.302	(0.551)	145777	50.0000	53.6

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
21 1,1-Dichloroethane	63	2.405	2.405	(0.576)	225987	50.0000	49.3
23 Vinyl Acetate	43	2.436	2.436	(0.583)	976244	200.000	200
140 Ethyl acetate	88	2.478	2.477	(0.593)	120154	500.000	535
147 Chloroprene	53	2.478	2.477	(0.593)	177484	50.0000	51.5
24 2,2-Dichloropropane	77	2.876	2.875	(0.688)	171332	50.0000	51.1
25 1,2-Dichloroethene (cis)	96	2.876	2.870	(0.688)	155108	50.0000	52.5
26 2-Butanone	43	2.891	2.886	(0.692)	293235	250.000	252
27 Propionitrile	54	2.948	2.943	(0.706)	18693	50.0000	49.3
29 Bromochloromethane	49	3.098	3.092	(0.741)	95010	50.0000	57.6(M)
146 Methacrylonitrile	41	3.082	3.087	(0.738)	70031	250.000	258(M)
31 Chloroform	83	3.175	3.180	(0.760)	219218	50.0000	50.7
$ 32 Dibromofluoromethane (S)	113	3.351	3.351	(0.802)	114519	50.0000	49.8
33 1,1,1-Trichloroethane	97	3.372	3.377	(0.807)	206205	50.0000	53.6
30 Tetrahydrofuran	42	3.160	3.160	(0.756)	39076	50.0000	50.3
34 cyclohexane	56	3.439	3.444	(0.823)	202768	50.0000	54.4
37 Isobutyl alcohol	43	2.891	2.886	(0.692)	293235	50.0000	50.4
35 Carbon Tetrachloride	117	3.568	3.563	(0.854)	185810	50.0000	52.8
36 1,1-Dichloropropene	75	3.563	3.563	(0.853)	172166	50.0000	52.7
38 Benzene	78	3.811	3.816	(0.912)	470482	50.0000	50.0
141 isopropyl acetate	61	3.734	3.738	(0.894)	1450	250.000	11.1
39 1,2-Dichloroethane	62	3.837	3.837	(0.918)	152264	50.0000	54.4
* 40 Fluorobenzene	96	4.178	4.178	(1.000)	375175	50.0000	
41 Trichloroethene	95	4.628	4.627	(1.108)	135443	50.0000	52.6
139 Methylcyclohexane	55	4.850	4.845	(1.161)	148596	50.0000	55.6
42 1,2-Dichloropropane	63	4.881	4.886	(1.168)	113476	50.0000	52.2
43 Dibromomethane	93	5.015	5.015	(1.200)	84480	50.0000	51.9
44 Methyl methacrylate	69	5.077	5.077	(1.215)	93307	50.0000	51.0
143 2,2,4-Trimethylpentane	57	3.935	3.940	(0.942)	290192	50.0000	52.3
144 1,4-Dioxane	88	5.083	5.072	(1.216)	653	1000.00	477
45 Bromodichloromethane	83	5.217	5.217	(1.249)	163294	50.0000	52.0
46 2-Chloroethyl vinyl ether	63	5.594	5.594	(0.756)	168248	50.0000	52.3
47 cis-1,3-Dichloropropene	75	5.729	5.728	(0.774)	185095	50.0000	53.0
48 4-Methyl-2-Pentanone	43	5.920	5.920	(0.800)	542043	250.000	247
$ 49 Toluene-d8	98	6.013	6.013	(0.812)	326844	50.0000	49.8
50 Toluene	91	6.085	6.085	(0.822)	479487	50.0000	50.3
51 trans-1,3-Dichloropropene	75	6.344	6.343	(0.857)	180237	50.0000	53.6
52 Ethyl Methacrylate	69	6.478	6.478	(0.875)	167926	50.0000	53.0
53 1,1,2-Trichloroethane	83	6.525	6.524	(0.881)	85211	50.0000	54.1
54 Tetrachloroethene	166	6.654	6.653	(0.899)	191367	50.0000	59.5
55 1,3-Dichloropropane	76	6.680	6.679	(0.902)	180944	50.0000	53.4
56 2-Hexanone	43	6.793	6.798	(0.918)	371106	250.000	272
57 Dibromochloromethane	129	6.892	6.891	(0.931)	137816	50.0000	53.0
58 1,2-Dibromoethane	107	6.979	6.979	(0.943)	134941	50.0000	52.6
* 59 Chlorobenzene-d5	117	7.403	7.403	(1.000)	311570	50.0000	
60 Chlorobenzene	112	7.424	7.424	(1.003)	326237	50.0000	49.5
61 1,1,1,2-Tetrachloroethane	131	7.501	7.501	(1.013)	124997	50.0000	52.9
62 Ethylbenzene	106	7.527	7.527	(1.017)	175863	50.0000	50.8
63 m&p-Xylene	106	7.631	7.630	(1.031)	443239	100.000	101
65 o-Xylene	106	7.941	7.940	(1.073)	219866	50.0000	51.2
66 Styrene	104	7.951	7.951	(1.074)	357575	50.0000	52.4
67 Bromoform	173	8.085	8.080	(0.885)	102749	50.0000	50.0
68 Isopropylbenzene	105	8.225	8.225	(1.111)	546119	50.0000	51.1
69 trans-1,4-Dichloro-2-butene	53	8.489	8.483	(1.147)	37820	50.0000	53.2(H)
142 n-amyl acetate	70	8.334	8.328	(1.126)	685	250.000	13.2

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
$ 70 4-Bromofluorobenzene	95	8.334	8.328	(1.126)	140263	50.0000	50.8
71 Bromobenzene	77	8.432	8.431	(1.139)	177503	50.0000	52.3
72 1,1,2,2-Tetrachloroethane	83	8.447	8.447	(0.924)	134018	50.0000	50.3
73 1,2,3-Trichloropropane	75	8.468	8.483	(0.926)	151862	50.0000	48.9
74 n-Propylbenzene	91	8.525	8.524	(0.933)	532174	50.0000	50.2
75 2-Chlorotoluene	91	8.576	8.576	(0.938)	331404	50.0000	47.6
77 1,3,5-Trimethylbenzene	105	8.649	8.649	(0.946)	388489	50.0000	50.3
76 4-Chlorotoluene	126	8.576	8.576	(0.938)	114590	50.0000	49.1
78 tert-Butylbenzene	119	8.876	8.871	(0.971)	444928	50.0000	50.0
79 1,2,4-Trimethylbenzene	105	8.907	8.902	(0.975)	373034	50.0000	48.7
80 sec-Butylbenzene	105	9.021	9.021	(0.987)	488941	50.0000	50.4
81 1,3-Dichlorobenzene	146	9.093	9.093	(0.995)	221390	50.0000	50.1
83 p-Isopropyltoluene	119	9.119	9.119	(0.998)	396288	50.0000	50.8
* 82 1,4-Dichlorobenzene-d4	152	9.140	9.134	(1.000)	143655	50.0000	
84 1,4-Dichlorobenzene	146	9.155	9.150	(1.002)	225638	50.0000	49.2
86 n-Butylbenzene	91	9.388	9.382	(1.027)	300731	50.0000	51.4
85 1,2-Dichlorobenzene	146	9.398	9.393	(1.028)	211270	50.0000	51.6
87 1,2-Dibromo-3-chloropropane	155	9.889	9.889	(1.082)	25847	50.0000	48.7
88 1,2,4-Trichlorobenzene	180	10.401	10.401	(1.138)	123630	50.0000	47.6
89 Hexachlorobutadiene	225	10.499	10.499	(1.149)	48291	50.0000	49.9
90 Naphthalene	128	10.551	10.550	(1.154)	268577	50.0000	47.0
91 1,2,3-Trichlorobenzene	180	10.696	10.695	(1.170)	100227	50.0000	47.2
92 2,methyl-naphthalene	142	11.238	11.233	(1.230)	23266	50.0000	57.8(H)

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A05CAL.D
Lab Smp Id: 50ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a012610.b\-8260-c1.m
Misc Info:

Calibration Date: 26-JAN-2010
Calibration Time: 19:46

Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	299092	149546	598184	375175	25.44
59 Chlorobenzene-d5	259211	129606	518422	311570	20.20
82 1,4-Dichlorobenze	115960	57980	231920	143655	23.88

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.17	3.67	4.67	4.18	0.10
59 Chlorobenzene-d5	7.40	6.90	7.90	7.40	-0.01
82 1,4-Dichlorobenze	9.14	8.64	9.64	9.14	0.04

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 50ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a012610.b

Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	56.6	
74-87-3	Chloromethane	51.3	
75-01-4	Vinyl Chloride	55.5	
74-83-9	Bromomethane	49.1	
75-00-3	Chloroethane	49.8	
75-69-4	Trichlorofluoromethane	55.0	
354-23-4	1,2-dichlorotrifluoroethane	58.7	
60-29-7	Diethyl ether	57.2	
75-65-0	tert-Butyl Alcohol	91.3	
107-02-8	Acrolein	1100	
76-13-1	1,1,2trichlorotrifluoroethan	59.3	
75-35-4	1,1-Dichloroethene	57.7	
67-64-1	Acetone	271	
	Iodomethane	79.3	
75-15-0	Carbon Disulfide	98.8	
107-05-1	allyl chloride	113	
75-05-8	Acetonitrile	1130	
79-20-9	Methyl Acetate	51.2	
75-09-2	Methylene Chloride	53.1	
107-13-1	Acrylonitrile	1110	
1634-04-4	Methyl-tert-butyl ether	110	
156-60-5	1,2-Dichloroethene (trans)	52.3	
	n-Hexane	53.6	
75-34-3	1,1-Dichloroethane	49.3	
108-05-4	Vinyl Acetate	200	
141-78-6	Ethyl acetate	535	
126-99-8	Chloroprene	51.5	
594-20-7	2,2-Dichloropropane	51.1	
156-59-2	1,2-Dichloroethene (cis)	52.5	
78-93-3	2-Butanone	252	
107-12-0	Propionitrile	49.3	
74-97-5	Bromochloromethane	57.6	
126-98-7	Methacrylonitrile	258	
67-66-3	Chloroform	50.7	
71-55-6	1,1,1-Trichloroethane	53.6	
	Tetrahydrofuran	50.3	
110-82-7	cyclohexane	54.4	
78-83-1	Isobutyl alcohol	50.4	
56-23-5	Carbon Tetrachloride	52.8	
563-58-6	1,1-Dichloropropene	52.7	
71-43-2	Benzene	50.0	
108-21-4	isopropyl acetate	11.1	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 50ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a012610.b

Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
107-06-2	1,2-Dichloroethane	54.4	
79-01-6	Trichloroethene	52.6	
108-87-2	Methylcyclohexane	55.6	
78-87-5	1,2-Dichloropropane	52.2	
74-95-3	Dibromomethane	51.9	
80-62-6	Methyl methacrylate	51.0	
540-84-1	2,2,4-Trimethylpentane	52.3	
	1,4-Dioxane	477	
75-27-4	Bromodichloromethane	52.0	
110-75-8	2-Chloroethyl vinyl ether	52.3	
10061-01-5	cis-1,3-Dichloropropene	53.0	
108-10-1	4-Methyl-2-Pentanone	247	
108-88-3	Toluene	50.3	
10061-02-6	trans-1,3-Dichloropropene	53.6	
	Ethyl Methacrylate	53.0	
79-00-5	1,1,2-Trichloroethane	54.1	
127-18-4	Tetrachloroethene	59.5	
142-28-9	1,3-Dichloropropane	53.4	
591-78-6	2-Hexanone	272	
124-48-1	Dibromochloromethane	53.0	
106-93-4	1,2-Dibromoethane	52.6	
108-90-7	Chlorobenzene	49.5	
630-20-6	1,1,1,2-Tetrachloroethane	52.9	
100-41-4	Ethylbenzene	50.8	
7816-60-0	m&p-Xylene	101	
95-47-6	o-Xylene	51.2	
100-42-5	Styrene	52.4	
75-25-2	Bromoform	50.0	
98-82-8	Isopropylbenzene	51.1	
	trans-1,4-Dichloro-2-butene	53.2	
628-63-7	n-amyl acetate	13.2	
108-86-1	Bromobenzene	52.3	
79-34-5	1,1,2,2-Tetrachloroethane	50.3	
96-18-4	1,2,3-Trichloropropane	48.9	
103-65-1	n-Propylbenzene	50.2	
95-49-8	2-Chlorotoluene	47.6	
108-67-8	1,3,5-Trimethylbenzene	50.3	
106-43-4	4-Chlorotoluene	49.1	
98-06-6	tert-Butylbenzene	50.0	
95-63-6	1,2,4-Trimethylbenzene	48.7	
135-98-8	sec-Butylbenzene	50.4	
541-73-1	1,3-Dichlorobenzene	50.1	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 50ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

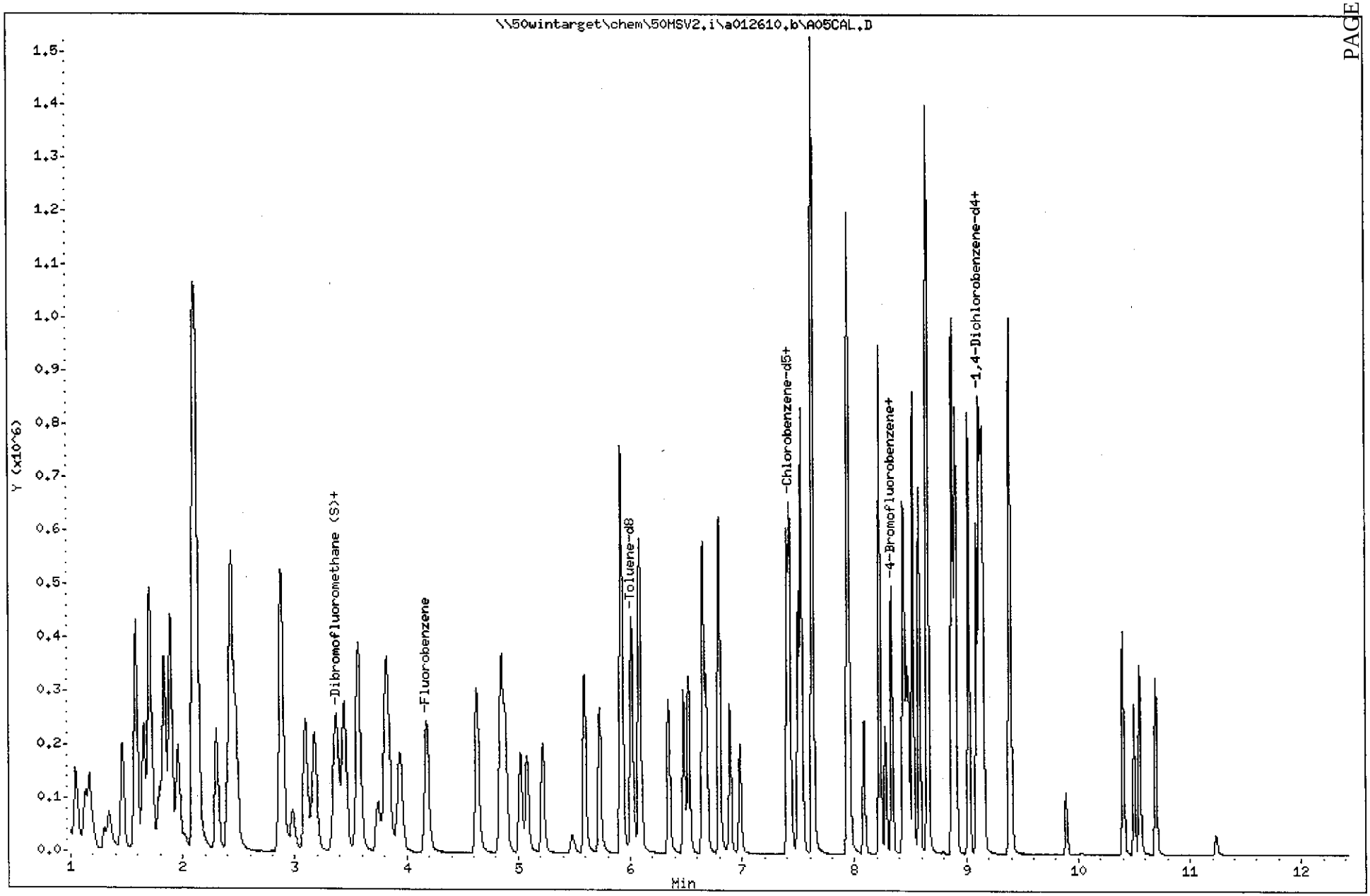
Client SDG: a012610.b

Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
99-87-6	p-Isopropyltoluene	50.8	
106-46-7	1,4-Dichlorobenzene	49.2	
104-51-8	n-Butylbenzene	51.4	
95-50-1	1,2-Dichlorobenzene	51.6	
96-12-8	1,2-Dibromo-3-chloropropane	48.7	
120-82-1	1,2,4-Trichlorobenzene	47.6	
87-68-3	Hexachlorobutadiene	49.9	
91-20-3	Naphthalene	47.0	
87-61-6	1,2,3-Trichlorobenzene	47.2	
	2,methyl-naphthalene	57.8	
1868-53-7	Dibromofluoromethane (S)	49.8	
2037-26-5	Toluene-d8	49.8	
460-00-4	4-Bromofluorobenzene	50.8	

Data File: \\50wintarget\chem\50MSV2.i\a012610.b\A05CAL.D
Date : 26-JAN-2010 15:15
Client ID:
Sample Info: 50ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a012610.b\A06CAL.D
Lab Smp Id: 10ppb
Inj Date : 26-JAN-2010 15:48
Operator : jlf
Inst ID: 50MSV2.i
Smp Info : 10ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a012610.b\-8260-c1.m
Meth Date : 27-Jan-2010 09:14 50MSV2.i
Quant Type: ISTD
Cal Date : 26-JAN-2010 15:48
Cal File: A06CAL.D
Als bottle: 13
Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	1.039	1.041	(0.249)	411333	100.000	115
2 Chloromethane	50	1.127	1.134	(0.270)	315322	100.000	102
3 Vinyl Chloride	62	1.168	1.170	(0.280)	344411	100.000	109
4 Bromomethane	94	1.292	1.304	(0.310)	64778	100.000	78.1
5 Chloroethane	64	1.339	1.345	(0.321)	130938	100.000	69.7
6 Trichlorofluoromethane	101	1.452	1.464	(0.348)	340282	100.000	97.1
28 1,2-dichlorotrifluoroethane	67	1.576	1.578	(0.378)	344055	100.000	117
7 Diethyl ether	74	1.582	1.588	(0.379)	137427	100.000	113
17 tert-Butyl Alcohol	59	2.026	2.024	(0.486)	49398	200.000	171(M)
8 Acrolein	56	1.649	1.650	(0.395)	496260	2000.00	2080
10 1,1,2trichlorotrifluoroethane	101	1.695	1.702	(0.407)	245452	100.000	117
9 1,1-Dichloroethene	96	1.701	1.707	(0.408)	211479	100.000	117
11 Acetone	43	1.726	1.728	(0.414)	270046	500.000	529
12 Iodomethane	142	1.788	1.795	(0.429)	400819	200.000	237
13 Carbon Disulfide	76	1.830	1.836	(0.439)	1134701	200.000	187(M)
14 allyl chloride	41	1.887	1.888	(0.452)	590425	200.000	231(Q)
145 Acetonitrile	41	1.204	1.202	(0.289)	1550	2000.00	1910(Q)
138 Methyl Acetate	43	1.897	1.898	(0.455)	177156	100.000	108
15 Methylene Chloride	84	1.954	1.960	(0.468)	229716	100.000	106
16 Acrylonitrile	53	2.099	2.100	(0.503)	1599099	2000.00	2160
19 Methyl-tert-butyl ether	73	2.124	2.126	(0.509)	1136638	200.000	217
18 1,2-Dichloroethene (trans)	96	2.119	2.121	(0.508)	227796	100.000	104
20 n-Hexane	57	2.295	2.302	(0.550)	264376	100.000	104

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	21 1,1-Dichloroethane	63	2.403	2.405	(0.576)	411329	100.000	96.1
	23 Vinyl Acetate	43	2.434	2.436	(0.584)	1730255	400.000	381
	140 Ethyl acetate	88	2.471	2.477	(0.592)	216090	1000.00	1050
	147 Chloroprene	53	2.471	2.477	(0.592)	312245	100.000	97.0
	24 2,2-Dichloropropane	77	2.869	2.875	(0.688)	306507	100.000	98.0
	25 1,2-Dichloroethene (cis)	96	2.869	2.870	(0.688)	286692	100.000	106
	26 2-Butanone	43	2.884	2.886	(0.691)	501843	500.000	462
	27 Propionitrile	54	2.941	2.943	(0.705)	35704	100.000	96.7
	29 Bromochloromethane	49	3.091	3.092	(0.741)	162128	100.000	109(M)
	146 Methacrylonitrile	41	3.081	3.087	(0.739)	127900	500.000	509(M)
	31 Chloroform	83	3.174	3.180	(0.761)	400735	100.000	99.3
$	32 Dibromofluoromethane (S)	113	3.344	3.351	(0.802)	106692	50.0000	49.7
	33 1,1,1-Trichloroethane	97	3.370	3.377	(0.808)	373301	100.000	106
	30 Tetrahydrofuran	42	3.158	3.160	(0.757)	66600	100.000	98.5
	34 cyclohexane	56	3.437	3.444	(0.824)	363682	100.000	107
	37 Isobutyl alcohol	43	2.884	2.886	(0.691)	501843	100.000	92.4
	35 Carbon Tetrachloride	117	3.561	3.563	(0.854)	334350	100.000	102
	36 1,1-Dichloropropene	75	3.561	3.563	(0.854)	309879	100.000	102
	38 Benzene	78	3.809	3.816	(0.913)	852833	100.000	97.0
	141 isopropyl acetate	61	3.732	3.738	(0.895)	1286	500.000	10.5(Q)
	39 1,2-Dichloroethane	62	3.830	3.837	(0.918)	267822	100.000	105
*	40 Fluorobenzene	96	4.171	4.178	(1.000)	350377	50.0000	
	41 Trichloroethene	95	4.626	4.627	(1.109)	249129	100.000	106
	139 Methylcyclohexane	55	4.843	4.845	(1.161)	262381	100.000	108
	42 1,2-Dichloropropane	63	4.879	4.886	(1.170)	204047	100.000	102
	43 Dibromomethane	93	5.014	5.015	(1.202)	154913	100.000	103
	44 Methyl methacrylate	69	5.076	5.077	(1.217)	169988	100.000	99.6
	143 2,2,4-Trimethylpentane	57	3.933	3.940	(0.943)	527188	100.000	102
	144 1,4-Dioxane	88	5.086	5.072	(1.219)	1753	2000.00	1370
	45 Bromodichloromethane	83	5.215	5.217	(1.250)	298447	100.000	103
	46 2-Chloroethyl vinyl ether	63	5.592	5.594	(0.756)	303274	100.000	102
	47 cis-1,3-Dichloropropene	75	5.727	5.728	(0.774)	340398	100.000	106
	48 4-Methyl-2-Pentanone	43	5.923	5.920	(0.800)	942449	500.000	458
$	49 Toluene-d8	98	6.011	6.013	(0.812)	303469	50.0000	49.4
	50 Toluene	91	6.083	6.085	(0.822)	847569	100.000	95.0
	51 trans-1,3-Dichloropropene	75	6.342	6.343	(0.857)	323037	100.000	104
	52 Ethyl Methacrylate	69	6.476	6.478	(0.875)	298059	100.000	102
	53 1,1,2-Trichloroethane	83	6.523	6.524	(0.881)	152834	100.000	106
	54 Tetrachloroethene	166	6.652	6.653	(0.899)	323098	100.000	110
	55 1,3-Dichloropropane	76	6.683	6.679	(0.903)	320913	100.000	103
	56 2-Hexanone	43	6.797	6.798	(0.918)	641074	500.000	513
	57 Dibromochloromethane	129	6.895	6.891	(0.932)	253933	100.000	104
	58 1,2-Dibromoethane	107	6.983	6.979	(0.943)	244694	100.000	104
*	59 Chlorobenzene-d5	117	7.401	7.403	(1.000)	291828	50.0000	
	60 Chlorobenzene	112	7.427	7.424	(1.003)	584751	100.000	94.8
	61 1,1,1,2-Tetrachloroethane	131	7.505	7.501	(1.014)	224584	100.000	102
	62 Ethylbenzene	106	7.531	7.527	(1.017)	312788	100.000	96.4
	63 m&p-Xylene	106	7.629	7.630	(1.031)	794169	200.000	193
	65 o-Xylene	106	7.939	7.940	(1.073)	397025	100.000	98.8
	66 Styrene	104	7.954	7.951	(1.075)	634828	100.000	99.4
	67 Bromoform	173	8.084	8.080	(0.885)	187465	100.000	101
	68 Isopropylbenzene	105	8.228	8.225	(1.112)	951634	100.000	95.0
	69 trans-1,4-Dichloro-2-butene	53	8.487	8.483	(1.147)	63515	100.000	95.8
	142 n-amyl acetate	70	8.337	8.328	(1.126)	500	500.000	10.3(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
$ 70 4-Bromofluorobenzene	95	8.332	8.328	(1.126)	127884	50.0000	49.5
71 Bromobenzene	77	8.435	8.431	(1.140)	318770	100.000	103
72 1,1,2,2-Tetrachloroethane	83	8.451	8.447	(0.925)	234673	100.000	98.7
73 1,2,3-Trichloropropane	75	8.471	8.483	(0.927)	268668	100.000	96.8
74 n-Propylbenzene	91	8.523	8.524	(0.933)	932030	100.000	98.4
75 2-Chlorotoluene	91	8.580	8.576	(0.939)	578711	100.000	93.2
77 1,3,5-Trimethylbenzene	105	8.652	8.649	(0.947)	677667	100.000	98.2
76 4-Chlorotoluene	126	8.580	8.576	(0.939)	209119	100.000	100
78 tert-Butylbenzene	119	8.874	8.871	(0.971)	799525	100.000	100
79 1,2,4-Trimethylbenzene	105	8.905	8.902	(0.975)	656671	100.000	96.1
80 sec-Butylbenzene	105	9.024	9.021	(0.988)	859877	100.000	99.2
81 1,3-Dichlorobenzene	146	9.097	9.093	(0.995)	393300	100.000	99.7
83 p-Isopropyltoluene	119	9.122	9.119	(0.998)	699172	100.000	100
* 82 1,4-Dichlorobenzene-d4	152	9.138	9.134	(1.000)	128276	50.0000	
84 1,4-Dichlorobenzene	146	9.153	9.150	(1.002)	402905	100.000	98.4
86 n-Butylbenzene	91	9.386	9.382	(1.027)	540873	100.000	104
85 1,2-Dichlorobenzene	146	9.396	9.393	(1.028)	376989	100.000	103
87 1,2-Dibromo-3-chloropropane	155	9.893	9.889	(1.083)	47348	100.000	95.0
88 1,2,4-Trichlorobenzene	180	10.404	10.401	(1.139)	236003	100.000	98.4
89 Hexachlorobutadiene	225	10.502	10.499	(1.149)	86893	100.000	99.6
90 Naphthalene	128	10.554	10.550	(1.155)	507975	100.000	94.1
91 1,2,3-Trichlorobenzene	180	10.699	10.695	(1.171)	195231	100.000	97.5
92 2,methyl-naphthalene	142	11.231	11.233	(1.229)	97221	100.000	92.1

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A06CAL.D
Lab Smp Id: 10ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a012610.b\-8260-c1.m
Misc Info:

Calibration Date: 26-JAN-2010
Calibration Time: 19:46

Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	299092	149546	598184	350377	17.15
59 Chlorobenzene-d5	259211	129606	518422	291828	12.58
82 1,4-Dichlorobenze	115960	57980	231920	128276	10.62

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.17	3.67	4.67	4.17	-0.07
59 Chlorobenzene-d5	7.40	6.90	7.90	7.40	-0.04
82 1,4-Dichlorobenze	9.14	8.64	9.64	9.14	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 10ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a012610.b

Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	115	
74-87-3	Chloromethane	102	
75-01-4	Vinyl Chloride	109	
74-83-9	Bromomethane	78.1	
75-00-3	Chloroethane	69.7	
75-69-4	Trichlorofluoromethane	97.1	
354-23-4	1,2-dichlorotrifluoroethane	117	
60-29-7	Diethyl ether	113	
75-65-0	tert-Butyl Alcohol	171	
107-02-8	Acrolein	2080	
76-13-1	1,1,2trichlorotrifluoroethan	117	
75-35-4	1,1-Dichloroethene	117	
67-64-1	Acetone	529	
	Iodomethane	237	
75-15-0	Carbon Disulfide	187	
107-05-1	allyl chloride	231	
75-05-8	Acetonitrile	1910	
79-20-9	Methyl Acetate	108	
75-09-2	Methylene Chloride	106	
107-13-1	Acrylonitrile	2160	
1634-04-4	Methyl-tert-butyl ether	217	
156-60-5	1,2-Dichloroethene (trans)	104	
	n-Hexane	104	
75-34-3	1,1-Dichloroethane	96.1	
108-05-4	Vinyl Acetate	381	
141-78-6	Ethyl acetate	1050	
126-99-8	Chloroprene	97.0	
594-20-7	2,2-Dichloropropane	98.0	
156-59-2	1,2-Dichloroethene (cis)	106	
78-93-3	2-Butanone	462	
107-12-0	Propionitrile	96.7	
74-97-5	Bromochloromethane	109	
126-98-7	Methacrylonitrile	509	
67-66-3	Chloroform	99.3	
71-55-6	1,1,1-Trichloroethane	106	
	Tetrahydrofuran	98.5	
110-82-7	cyclohexane	107	
78-83-1	Isobutyl alcohol	92.4	
56-23-5	Carbon Tetrachloride	102	
563-58-6	1,1-Dichloropropene	102	
71-43-2	Benzene	97.0	
108-21-4	isopropyl acetate	10.5	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 10ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a012610.b

Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
107-06-2	1,2-Dichloroethane	105	
79-01-6	Trichloroethene	106	
108-87-2	Methylcyclohexane	108	
78-87-5	1,2-Dichloropropane	102	
74-95-3	Dibromomethane	103	
80-62-6	Methyl methacrylate	99.6	
540-84-1	2,2,4-Trimethylpentane	102	
	1,4-Dioxane	1370	
75-27-4	Bromodichloromethane	103	
110-75-8	2-Chloroethyl vinyl ether	102	
10061-01-5	cis-1,3-Dichloropropene	106	
108-10-1	4-Methyl-2-Pentanone	458	
108-88-3	Toluene	95.0	
10061-02-6	trans-1,3-Dichloropropene	104	
	Ethyl Methacrylate	102	
79-00-5	1,1,2-Trichloroethane	106	
127-18-4	Tetrachloroethene	110	
142-28-9	1,3-Dichloropropane	103	
591-78-6	2-Hexanone	513	
124-48-1	Dibromochloromethane	104	
106-93-4	1,2-Dibromoethane	104	
108-90-7	Chlorobenzene	94.8	
630-20-6	1,1,1,2-Tetrachloroethane	102	
100-41-4	Ethylbenzene	96.4	
7816-60-0	m&p-Xylene	193	
95-47-6	o-Xylene	98.8	
100-42-5	Styrene	99.4	
75-25-2	Bromoform	101	
98-82-8	Isopropylbenzene	95.0	
	trans-1,4-Dichloro-2-butene	95.8	
628-63-7	n-amyl acetate	10.3	
108-86-1	Bromobenzene	103	
79-34-5	1,1,2,2-Tetrachloroethane	98.7	
96-18-4	1,2,3-Trichloropropane	96.8	
103-65-1	n-Propylbenzene	98.4	
95-49-8	2-Chlorotoluene	93.2	
108-67-8	1,3,5-Trimethylbenzene	98.2	
106-43-4	4-Chlorotoluene	100	
98-06-6	tert-Butylbenzene	100	
95-63-6	1,2,4-Trimethylbenzene	96.1	
135-98-8	sec-Butylbenzene	99.2	
541-73-1	1,3-Dichlorobenzene	99.7	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 10ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

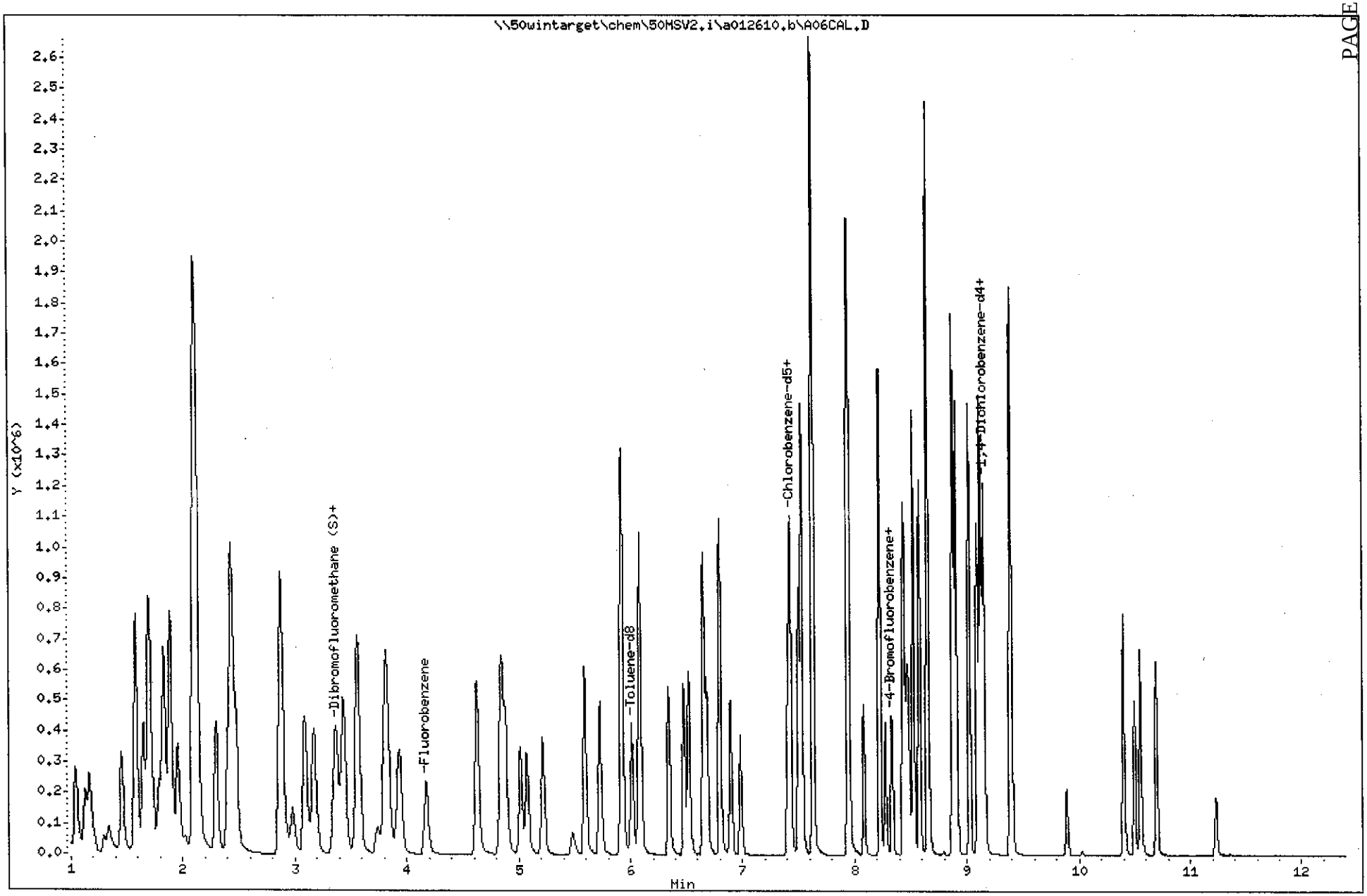
Client SDG: a012610.b

Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
99-87-6	p-Isopropyltoluene	100	
106-46-7	1,4-Dichlorobenzene	98.4	
104-51-8	n-Butylbenzene	104	
95-50-1	1,2-Dichlorobenzene	103	
96-12-8	1,2-Dibromo-3-chloropropane	95.0	
120-82-1	1,2,4-Trichlorobenzene	98.4	
87-68-3	Hexachlorobutadiene	99.6	
91-20-3	Naphthalene	94.1	
87-61-6	1,2,3-Trichlorobenzene	97.5	
	2,methyl-naphthalene	92.1	
1868-53-7	Dibromofluoromethane (S)	49.7	
2037-26-5	Toluene-d8	49.4	
460-00-4	4-Bromofluorobenzene	49.5	

Data File: \\50wintarget\chem\50MSV2.i\a012610.b\A06CAL.D
Date : 26-JAN-2010 15:48
Client ID:
Sample Info: 10ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a012610.b\A07CAL.D
Lab Smp Id: 200ppb
Inj Date : 26-JAN-2010 16:23
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 200ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a012610.b\-8260-c1.m
Meth Date : 27-Jan-2010 09:14 50MSV2.i Quant Type: ISTD
Cal Date : 26-JAN-2010 16:23 Cal File: A07CAL.D
Als bottle: 15 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	1.036	1.041	(0.249)	649510	200.000	208
2 Chloromethane	50	1.129	1.134	(0.271)	593336	200.000	217
3 Vinyl Chloride	62	1.166	1.170	(0.280)	553181	200.000	201
4 Bromomethane	94	1.285	1.304	(0.308)	61697	200.000	84.5
5 Chloroethane	64	1.326	1.345	(0.318)	112443	200.000	67.6
6 Trichlorofluoromethane	101	1.440	1.464	(0.345)	382986	200.000	124
28 1,2-dichlorotrifluoroethane	67	1.569	1.578	(0.376)	510560	200.000	200
7 Diethyl ether	74	1.579	1.588	(0.379)	212245	200.000	202
17 tert-Butyl Alcohol	59	2.039	2.024	(0.489)	110478	400.000	419(M)
8 Acrolein	56	1.641	1.650	(0.394)	790198	4000.00	3750
10 1,1,2trichlorotrifluoroethane	101	1.682	1.702	(0.404)	364207	200.000	200
9 1,1-Dichloroethene	96	1.693	1.707	(0.406)	309285	200.000	197
11 Acetone	43	1.729	1.728	(0.415)	438445	1000.00	986
12 Iodomethane	142	1.781	1.795	(0.427)	477811	400.000	372
13 Carbon Disulfide	76	1.822	1.836	(0.437)	1737983	400.000	323(M)
14 allyl chloride	41	1.879	1.888	(0.451)	893340	400.000	404
145 Acetonitrile	41	1.202	1.202	(0.288)	2697	4000.00	3760(Q)
138 Methyl Acetate	43	1.894	1.898	(0.455)	280378	200.000	195
15 Methylene Chloride	84	1.951	1.960	(0.468)	374882	200.000	198
16 Acrylonitrile	53	2.101	2.100	(0.504)	2637978	4000.00	4100
19 Methyl-tert-butyl ether	73	2.122	2.126	(0.509)	1849264	400.000	406
18 1,2-Dichloroethene (trans)	96	2.111	2.121	(0.507)	375620	200.000	196
20 n-Hexane	57	2.287	2.302	(0.549)	418029	200.000	186

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	21 1,1-Dichloroethane	63	2.396	2.405	(0.575)	679218	200.000	179
	23 Vinyl Acetate	43	2.432	2.436	(0.583)	2870110	800.000	713
	140 Ethyl acetate	88	2.468	2.477	(0.592)	356376	2000.00	1970
	147 Chloroprene	53	2.468	2.477	(0.592)	499861	200.000	175
	24 2,2-Dichloropropane	77	2.861	2.875	(0.686)	493943	200.000	178
	25 1,2-Dichloroethene (cis)	96	2.861	2.870	(0.686)	474044	200.000	200
	26 2-Butanone	43	2.887	2.886	(0.693)	871861	1000.00	907
	27 Propionitrile	54	2.944	2.943	(0.706)	66946	200.000	200(Q)
	29 Bromochloromethane	49	3.088	3.092	(0.741)	260024	200.000	201(M)
	146 Methacrylonitrile	41	3.078	3.087	(0.738)	221141	1000.00	998(M)
	31 Chloroform	83	3.171	3.180	(0.761)	663166	200.000	186
$	32 Dibromofluoromethane (S)	113	3.342	3.351	(0.802)	93209	50.0000	49.1
	33 1,1,1-Trichloroethane	97	3.367	3.377	(0.808)	617202	200.000	200
	30 Tetrahydrofuran	42	3.156	3.160	(0.757)	117676	200.000	205
	34 cyclohexane	56	3.429	3.444	(0.823)	590689	200.000	199
	37 Isobutyl alcohol	43	2.887	2.886	(0.693)	871861	200.000	181
	35 Carbon Tetrachloride	117	3.559	3.563	(0.854)	550783	200.000	189
	36 1,1-Dichloropropene	75	3.559	3.563	(0.854)	512803	200.000	190
	38 Benzene	78	3.807	3.816	(0.913)	1438176	200.000	185
	141 isopropyl acetate	61	3.734	3.738	(0.896)	903	1000.00	8.34(Q)
	39 1,2-Dichloroethane	62	3.833	3.837	(0.919)	453036	200.000	204
*	40 Fluorobenzene	96	4.169	4.178	(1.000)	310203	50.0000	
	41 Trichloroethene	95	4.623	4.627	(1.109)	415099	200.000	200
	139 Methylcyclohexane	55	4.840	4.845	(1.161)	427247	200.000	202
	42 1,2-Dichloropropane	63	4.882	4.886	(1.171)	351689	200.000	199
	43 Dibromomethane	93	5.011	5.015	(1.202)	265286	200.000	201
	44 Methyl methacrylate	69	5.073	5.077	(1.217)	306753	200.000	203
	143 2,2,4-Trimethylpentane	57	3.931	3.940	(0.943)	870401	200.000	190
	144 1,4-Dioxane	88	5.104	5.072	(1.224)	6520	4000.00	5760(Q)
	45 Bromodichloromethane	83	5.213	5.217	(1.250)	515128	200.000	202
	46 2-Chloroethyl vinyl ether	63	5.595	5.594	(0.756)	553562	200.000	202
	47 cis-1,3-Dichloropropene	75	5.724	5.728	(0.773)	590840	200.000	202
	48 4-Methyl-2-Pentanone	43	5.926	5.920	(0.800)	1633676	1000.00	862
$	49 Toluene-d8	98	6.014	6.013	(0.812)	271707	50.0000	48.0
	50 Toluene	91	6.081	6.085	(0.821)	1435052	200.000	174
	51 trans-1,3-Dichloropropene	75	6.339	6.343	(0.856)	573082	200.000	202
	52 Ethyl Methacrylate	69	6.479	6.478	(0.875)	544516	200.000	203
	53 1,1,2-Trichloroethane	83	6.525	6.524	(0.881)	264620	200.000	202
	54 Tetrachloroethene	166	6.655	6.653	(0.899)	488671	200.000	184
	55 1,3-Dichloropropane	76	6.686	6.679	(0.903)	572217	200.000	202
	56 2-Hexanone	43	6.799	6.798	(0.918)	1170153	1000.00	1030
	57 Dibromochloromethane	129	6.892	6.891	(0.931)	452902	200.000	202
	58 1,2-Dibromoethane	107	6.980	6.979	(0.943)	438752	200.000	203
*	59 Chlorobenzene-d5	117	7.404	7.403	(1.000)	268894	50.0000	
	60 Chlorobenzene	112	7.425	7.424	(1.003)	1032002	200.000	182
	61 1,1,1,2-Tetrachloroethane	131	7.502	7.501	(1.013)	397914	200.000	195
	62 Ethylbenzene	106	7.533	7.527	(1.017)	557237	200.000	186
	63 m&p-Xylene	106	7.631	7.630	(1.031)	1409062	400.000	371
	65 o-Xylene	106	7.942	7.940	(1.073)	719419	200.000	194
	66 Styrene	104	7.957	7.951	(1.075)	1133308	200.000	192
	67 Bromoform	173	8.081	8.080	(0.884)	342381	200.000	197
	68 Isopropylbenzene	105	8.226	8.225	(1.111)	1651471	200.000	179
	69 trans-1,4-Dichloro-2-butene	53	8.489	8.483	(1.147)	127243	200.000	209
	142 n-amyl acetate	70	8.329	8.328	(1.125)	456	1000.00	10.2(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
$ 70 4-Bromofluorobenzene	95	8.334	8.328	(1.126)	117455	50.0000	49.3
71 Bromobenzene	77	8.433	8.431	(1.139)	567432	200.000	203
72 1,1,2,2-Tetrachloroethane	83	8.448	8.447	(0.924)	429917	200.000	193
73 1,2,3-Trichloropropane	75	8.474	8.483	(0.927)	500508	200.000	193
74 n-Propylbenzene	91	8.526	8.524	(0.933)	1632871	200.000	184
75 2-Chlorotoluene	91	8.582	8.576	(0.939)	1026202	200.000	176
77 1,3,5-Trimethylbenzene	105	8.650	8.649	(0.946)	1210573	200.000	187
76 4-Chlorotoluene	126	8.582	8.576	(0.939)	384108	200.000	196
78 tert-Butylbenzene	119	8.877	8.871	(0.971)	1477867	200.000	199
79 1,2,4-Trimethylbenzene	105	8.908	8.902	(0.975)	1172381	200.000	183
80 sec-Butylbenzene	105	9.022	9.021	(0.987)	1538252	200.000	190
81 1,3-Dichlorobenzene	146	9.094	9.093	(0.995)	712504	200.000	193
83 p-Isopropyltoluene	119	9.120	9.119	(0.998)	1274617	200.000	196
* 82 1,4-Dichlorobenzene-d4	152	9.141	9.134	(1.000)	120030	50.0000	(Q)
84 1,4-Dichlorobenzene	146	9.156	9.150	(1.002)	725479	200.000	189
86 n-Butylbenzene	91	9.389	9.382	(1.027)	964966	200.000	200
85 1,2-Dichlorobenzene	146	9.399	9.393	(1.028)	683138	200.000	200
87 1,2-Dibromo-3-chloropropane	155	9.890	9.889	(1.082)	96007	200.000	200
88 1,2,4-Trichlorobenzene	180	10.402	10.401	(1.138)	453804	200.000	199
89 Hexachlorobutadiene	225	10.500	10.499	(1.149)	161521	200.000	197
90 Naphthalene	128	10.552	10.550	(1.154)	1035404	200.000	199
91 1,2,3-Trichlorobenzene	180	10.696	10.695	(1.170)	384416	200.000	200
92 2,methyl-naphthalene	142	11.229	11.233	(1.228)	311350	200.000	198

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A07CAL.D
Lab Smp Id: 200ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a012610.b\-8260-cl.m
Misc Info:

Calibration Date: 26-JAN-2010
Calibration Time: 19:46

Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	299092	149546	598184	310203	3.71
59 Chlorobenzene-d5	259211	129606	518422	268894	3.74
82 1,4-Dichlorobenze	115960	57980	231920	120030	3.51

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.17	3.67	4.67	4.17	-0.13
59 Chlorobenzene-d5	7.40	6.90	7.90	7.40	-0.00
82 1,4-Dichlorobenze	9.14	8.64	9.64	9.14	0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 200ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a012610.b

Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	208	
74-87-3	Chloromethane	217	
75-01-4	Vinyl Chloride	201	
74-83-9	Bromomethane	84.5	
75-00-3	Chloroethane	67.6	
75-69-4	Trichlorofluoromethane	124	
354-23-4	1,2-dichlorotrifluoroethane	200	
60-29-7	Diethyl ether	202	
75-65-0	tert-Butyl Alcohol	419	
107-02-8	Acrolein	3750	
76-13-1	1,1,2trichlorotrifluoroethan	200	
75-35-4	1,1-Dichloroethene	197	
67-64-1	Acetone	986	
	Iodomethane	372	
75-15-0	Carbon Disulfide	323	
107-05-1	allyl chloride	404	
75-05-8	Acetonitrile	3760	
79-20-9	Methyl Acetate	195	
75-09-2	Methylene Chloride	198	
107-13-1	Acrylonitrile	4100	
1634-04-4	Methyl-tert-butyl ether	406	
156-60-5	1,2-Dichloroethene (trans)	196	
	n-Hexane	186	
75-34-3	1,1-Dichloroethane	179	
108-05-4	Vinyl Acetate	713	
141-78-6	Ethyl acetate	1970	
126-99-8	Chloroprene	175	
594-20-7	2,2-Dichloropropane	178	
156-59-2	1,2-Dichloroethene (cis)	200	
78-93-3	2-Butanone	907	
107-12-0	Propionitrile	200	
74-97-5	Bromochloromethane	201	
126-98-7	Methacrylonitrile	998	
67-66-3	Chloroform	186	
71-55-6	1,1,1-Trichloroethane	200	
	Tetrahydrofuran	205	
110-82-7	cyclohexane	199	
78-83-1	Isobutyl alcohol	181	
56-23-5	Carbon Tetrachloride	189	
563-58-6	1,1-Dichloropropene	190	
71-43-2	Benzene	185	
108-21-4	isopropyl acetate	8.34	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 200ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a012610.b
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
107-06-2	1,2-Dichloroethane	204	
79-01-6	Trichloroethene	200	
108-87-2	Methylcyclohexane	202	
78-87-5	1,2-Dichloropropane	199	
74-95-3	Dibromomethane	201	
80-62-6	Methyl methacrylate	203	
540-84-1	2,2,4-Trimethylpentane	190	
	1,4-Dioxane	5760	
75-27-4	Bromodichloromethane	202	
110-75-8	2-Chloroethyl vinyl ether	202	
10061-01-5	cis-1,3-Dichloropropene	202	
108-10-1	4-Methyl-2-Pentanone	862	
108-88-3	Toluene	174	
10061-02-6	trans-1,3-Dichloropropene	202	
	Ethyl Methacrylate	203	
79-00-5	1,1,2-Trichloroethane	202	
127-18-4	Tetrachloroethene	184	
142-28-9	1,3-Dichloropropane	202	
591-78-6	2-Hexanone	1030	
124-48-1	Dibromochloromethane	202	
106-93-4	1,2-Dibromoethane	203	
108-90-7	Chlorobenzene	182	
630-20-6	1,1,1,2-Tetrachloroethane	195	
100-41-4	Ethylbenzene	186	
7816-60-0	m&p-Xylene	371	
95-47-6	o-Xylene	194	
100-42-5	Styrene	192	
75-25-2	Bromoform	197	
98-82-8	Isopropylbenzene	179	
	trans-1,4-Dichloro-2-butene	209	
628-63-7	n-amyl acetate	10.2	
108-86-1	Bromobenzene	203	
79-34-5	1,1,2,2-Tetrachloroethane	193	
96-18-4	1,2,3-Trichloropropane	193	
103-65-1	n-Propylbenzene	184	
95-49-8	2-Chlorotoluene	176	
108-67-8	1,3,5-Trimethylbenzene	187	
106-43-4	4-Chlorotoluene	196	
98-06-6	tert-Butylbenzene	199	
95-63-6	1,2,4-Trimethylbenzene	183	
135-98-8	sec-Butylbenzene	190	
541-73-1	1,3-Dichlorobenzene	193	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 200ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

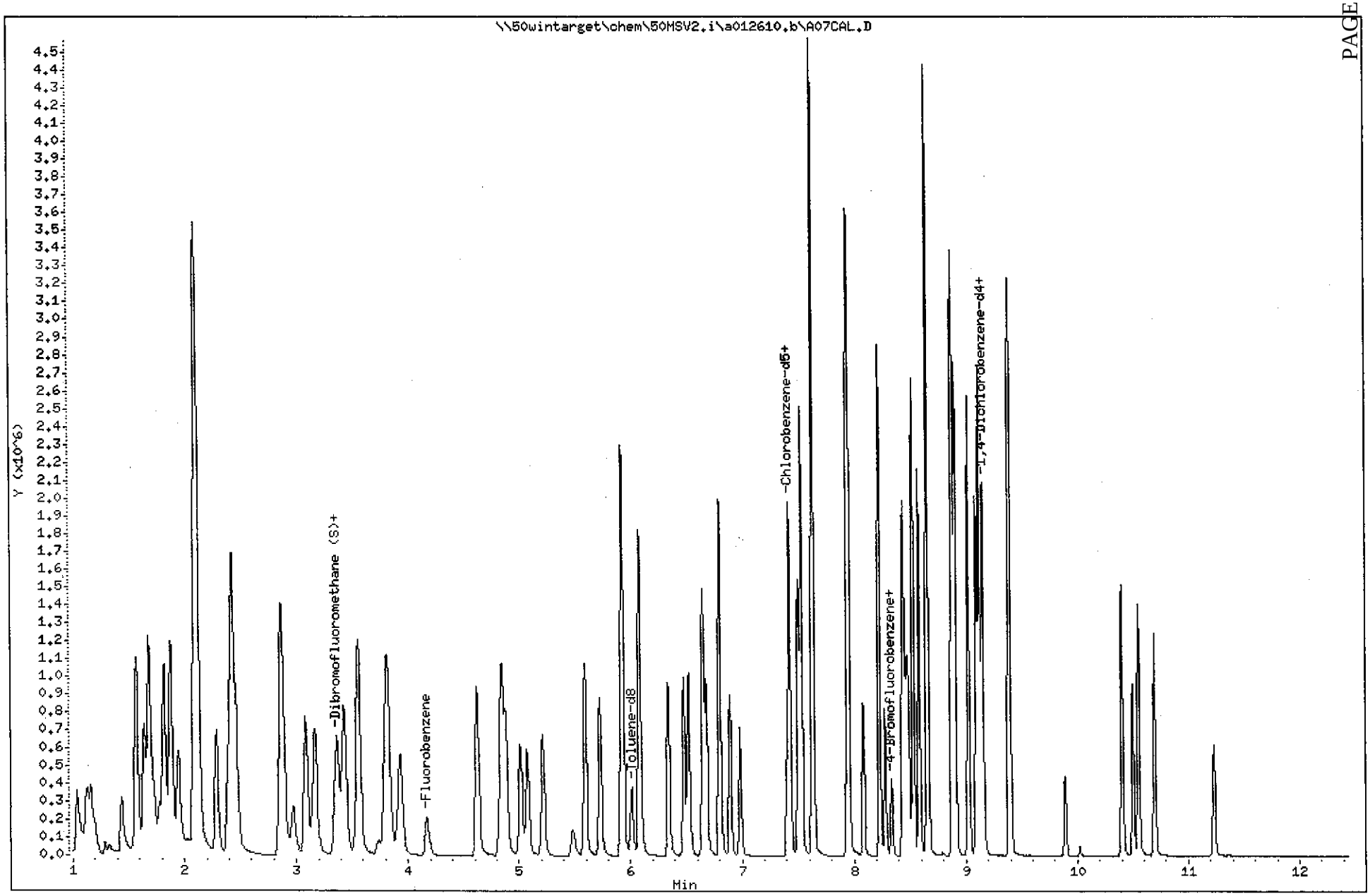
Client SDG: a012610.b

Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
99-87-6	p-Isopropyltoluene	196	
106-46-7	1,4-Dichlorobenzene	189	
104-51-8	n-Butylbenzene	200	
95-50-1	1,2-Dichlorobenzene	200	
96-12-8	1,2-Dibromo-3-chloropropane	200	
120-82-1	1,2,4-Trichlorobenzene	199	
87-68-3	Hexachlorobutadiene	197	
91-20-3	Naphthalene	199	
87-61-6	1,2,3-Trichlorobenzene	200	
	2,methyl-naphthalene	198	
1868-53-7	Dibromofluoromethane (S)	49.1	
2037-26-5	Toluene-d8	48.0	
460-00-4	4-Bromofluorobenzene	49.3	

Data File: \\50wintarget\chem\50MSV2.i\a012610.b\A07CAL.D
Date : 26-JAN-2010 16:23
Client ID:
Sample Info: 200ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a012610.b\A08CAL.D
Lab Smp Id: 300ppb
Inj Date : 26-JAN-2010 16:56
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 300ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a012610.b\-8260-cl.m
Meth Date : 27-Jan-2010 09:14 50MSV2.i Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 17 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	1.036	1.041	(0.249)	861955	300.000	287
2 Chloromethane	50	1.124	1.134	(0.270)	885974	300.000	334
3 Vinyl Chloride	62	1.160	1.170	(0.279)	781192	300.000	295
4 Bromomethane	94	1.284	1.304	(0.308)	37802	300.000	51.4
5 Chloroethane	64	1.441	1.345	(0.346)	77317	300.000	48.1(Q)
6 Trichlorofluoromethane	101	1.441	1.464	(0.346)	411448	300.000	138
28 1,2-dichlorotrifluoroethane	67	1.560	1.578	(0.375)	711024	300.000	291
7 Diethyl ether	74	1.570	1.588	(0.377)	295186	300.000	292
17 tert-Butyl Alcohol	59	2.046	2.024	(0.491)	152751	600.000	595(M)
8 Acrolein	56	1.638	1.650	(0.393)	1063407	6000.00	5220
10 1,1,2trichlorotrifluoroethane	101	1.669	1.702	(0.401)	505817	300.000	291
9 1,1-Dichloroethene	96	1.684	1.707	(0.404)	443032	300.000	294
11 Acetone	43	1.725	1.728	(0.414)	639112	1500.00	1500
12 Iodomethane	142	1.772	1.795	(0.426)	625698	600.000	605
13 Carbon Disulfide	76	1.808	1.836	(0.434)	2491127	600.000	479(M)
14 allyl chloride	41	1.870	1.888	(0.449)	1234547	600.000	582
145 Acetonitrile	41	1.202	1.202	(0.289)	4064	6000.00	5850
138 Methyl Acetate	43	1.891	1.898	(0.454)	414661	300.000	300
15 Methylene Chloride	84	1.943	1.960	(0.466)	542323	300.000	298
16 Acrylonitrile	53	2.103	2.100	(0.505)	3619018	6000.00	5850
19 Methyl-tert-butyl ether	73	2.118	2.126	(0.509)	2575982	600.000	588
18 1,2-Dichloroethene (trans)	96	2.103	2.121	(0.505)	554648	300.000	300
20 n-Hexane	57	2.278	2.302	(0.547)	593864	300.000	273

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
21 1,1-Dichloroethane	63	2.392	2.405	(0.574)	986163	300.000	269
23 Vinyl Acetate	43	2.428	2.436	(0.583)	3820123	1200.00	982
140 Ethyl acetate	88	2.459	2.477	(0.591)	523546	3000.00	3000(Q)
147 Chloroprene	53	2.459	2.477	(0.591)	714095	300.000	259
24 2,2-Dichloropropane	77	2.857	2.875	(0.686)	698124	300.000	260
25 1,2-Dichloroethene (cis)	96	2.863	2.870	(0.687)	679422	300.000	297
26 2-Butanone	43	2.888	2.886	(0.694)	1234317	1500.00	1330
27 Propionitrile	54	2.950	2.943	(0.708)	97771	300.000	301
29 Bromochloromethane	49	3.085	3.092	(0.741)	366326	300.000	294(M)
146 Methacrylonitrile	41	3.085	3.087	(0.741)	320410	1500.00	1500(M)
31 Chloroform	83	3.167	3.180	(0.761)	933781	300.000	270
$ 32 Dibromofluoromethane (S)	113	3.338	3.351	(0.801)	88622	50.0000	48.2
33 1,1,1-Trichloroethane	97	3.359	3.377	(0.806)	881122	300.000	297
30 Tetrahydrofuran	42	3.157	3.160	(0.758)	163173	300.000	297
34 cyclohexane	56	3.426	3.444	(0.823)	849564	300.000	297
37 Isobutyl alcohol	43	2.888	2.886	(0.694)	1234317	300.000	265
35 Carbon Tetrachloride	117	3.550	3.563	(0.852)	785465	300.000	279
36 1,1-Dichloropropene	75	3.550	3.563	(0.852)	741847	300.000	284
38 Benzene	78	3.803	3.816	(0.913)	2073617	300.000	276
141 isopropyl acetate	61	3.720	3.738	(0.893)	1014	1500.00	9.68(Q)
39 1,2-Dichloroethane	62	3.829	3.837	(0.919)	632118	300.000	295
* 40 Fluorobenzene	96	4.165	4.178	(1.000)	300004	50.0000	
41 Trichloroethene	95	4.620	4.627	(1.109)	593294	300.000	297
139 Methylcyclohexane	55	4.837	4.845	(1.161)	597937	300.000	294
42 1,2-Dichloropropane	63	4.878	4.886	(1.171)	509328	300.000	299
43 Dibromomethane	93	5.013	5.015	(1.203)	379012	300.000	298
44 Methyl methacrylate	69	5.075	5.077	(1.218)	435820	300.000	298
143 2,2,4-Trimethylpentane	57	3.922	3.940	(0.942)	1227714	300.000	277
144 1,4-Dioxane	88	5.121	5.072	(1.230)	9183	6000.00	8390
45 Bromodichloromethane	83	5.214	5.217	(1.252)	731168	300.000	297
46 2-Chloroethyl vinyl ether	63	5.591	5.594	(0.755)	789362	300.000	297
47 cis-1,3-Dichloropropene	75	5.726	5.728	(0.773)	840091	300.000	296
48 4-Methyl-2-Pentanone	43	5.933	5.920	(0.801)	2274832	1500.00	1230
$ 49 Toluene-d8	98	6.010	6.013	(0.812)	259577	50.0000	47.1
50 Toluene	91	6.082	6.085	(0.821)	2027213	300.000	253
51 trans-1,3-Dichloropropene	75	6.341	6.343	(0.856)	818173	300.000	297
52 Ethyl Methacrylate	69	6.480	6.478	(0.875)	771017	300.000	296
53 1,1,2-Trichloroethane	83	6.522	6.524	(0.881)	374737	300.000	296
54 Tetrachloroethene	166	6.651	6.653	(0.898)	781625	300.000	304
55 1,3-Dichloropropane	76	6.682	6.679	(0.902)	812047	300.000	296
56 2-Hexanone	43	6.806	6.798	(0.919)	1620988	1500.00	1470
57 Dibromochloromethane	129	6.894	6.891	(0.931)	651181	300.000	298
58 1,2-Dibromoethane	107	6.982	6.979	(0.943)	619802	300.000	296
* 59 Chlorobenzene-d5	117	7.406	7.403	(1.000)	261576	50.0000	
60 Chlorobenzene	112	7.426	7.424	(1.003)	1482120	300.000	268
61 1,1,1,2-Tetrachloroethane	131	7.504	7.501	(1.013)	569034	300.000	287
62 Ethylbenzene	106	7.535	7.527	(1.017)	812691	300.000	280
63 m&p-Xylene	106	7.633	7.630	(1.031)	2034598	600.000	550
65 o-Xylene	106	7.943	7.940	(1.073)	1039777	300.000	289
66 Styrene	104	7.959	7.951	(1.075)	1621917	300.000	283
67 Bromoform	173	8.083	8.080	(0.884)	493444	300.000	301
68 Isopropylbenzene	105	8.227	8.225	(1.111)	2323355	300.000	259
69 trans-1,4-Dichloro-2-butene	53	8.491	8.483	(1.147)	174473	300.000	294
142 n-amyl acetate	70	8.331	8.328	(1.125)	565	1500.00	13.0(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
$ 70 4-Bromofluorobenzene	95	8.336	8.328	(1.126)	112436	50.0000	48.6
71 Bromobenzene	77	8.434	8.431	(1.139)	803719	300.000	296
72 1,1,2,2-Tetrachloroethane	83	8.450	8.447	(0.924)	598337	300.000	285
73 1,2,3-Trichloropropane	75	8.475	8.483	(0.927)	692343	300.000	283
74 n-Propylbenzene	91	8.527	8.524	(0.933)	2283235	300.000	273
75 2-Chlorotoluene	91	8.584	8.576	(0.939)	1441832	300.000	263
77 1,3,5-Trimethylbenzene	105	8.651	8.649	(0.946)	1698078	300.000	279
76 4-Chlorotoluene	126	8.584	8.576	(0.939)	560006	300.000	303
78 tert-Butylbenzene	119	8.879	8.871	(0.971)	2074723	300.000	296
79 1,2,4-Trimethylbenzene	105	8.910	8.902	(0.975)	1646551	300.000	273
80 sec-Butylbenzene	105	9.023	9.021	(0.987)	2185311	300.000	286
81 1,3-Dichlorobenzene	146	9.096	9.093	(0.995)	1009498	300.000	290
83 p-Isopropyltoluene	119	9.122	9.119	(0.998)	1825189	300.000	297
* 82 1,4-Dichlorobenzene-d4	152	9.142	9.134	(1.000)	113118	50.0000	(Q)
84 1,4-Dichlorobenzene	146	9.158	9.150	(1.002)	1036752	300.000	287
86 n-Butylbenzene	91	9.385	9.382	(1.027)	1353352	300.000	298
85 1,2-Dichlorobenzene	146	9.401	9.393	(1.028)	968209	300.000	300
87 1,2-Dibromo-3-chloropropane	155	9.892	9.889	(1.082)	137081	300.000	301
88 1,2,4-Trichlorobenzene	180	10.403	10.401	(1.138)	650820	300.000	301
89 Hexachlorobutadiene	225	10.502	10.499	(1.149)	233975	300.000	302
90 Naphthalene	128	10.553	10.550	(1.154)	1497564	300.000	303
91 1,2,3-Trichlorobenzene	180	10.698	10.695	(1.170)	549042	300.000	301
92 2,methyl-naphthalene	142	11.230	11.233	(1.228)	499395	300.000	302

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A08CAL.D
Lab Smp Id: 300ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a012610.b\-8260-c1.m
Misc Info:

Calibration Date: 26-JAN-2010
Calibration Time: 19:46

Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	299092	149546	598184	300004	0.30
59 Chlorobenzene-d5	259211	129606	518422	261576	0.91
82 1,4-Dichlorobenze	115960	57980	231920	113118	-2.45

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.17	3.67	4.67	4.17	-0.22
59 Chlorobenzene-d5	7.40	6.90	7.90	7.41	0.02
82 1,4-Dichlorobenze	9.14	8.64	9.64	9.14	0.07

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 300ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a012610.b

Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	287	
74-87-3	Chloromethane	334	
75-01-4	Vinyl Chloride	295	
74-83-9	Bromomethane	51.4	
75-00-3	Chloroethane	48.1	
75-69-4	Trichlorofluoromethane	138	
354-23-4	1,2-dichlorotrifluoroethane	291	
60-29-7	Diethyl ether	292	
75-65-0	tert-Butyl Alcohol	595	
107-02-8	Acrolein	5220	
76-13-1	1,1,2trichlorotrifluoroethan	291	
75-35-4	1,1-Dichloroethene	294	
67-64-1	Acetone	1500	
	Iodomethane	605	
75-15-0	Carbon Disulfide	479	
107-05-1	allyl chloride	582	
75-05-8	Acetonitrile	5850	
79-20-9	Methyl Acetate	300	
75-09-2	Methylene Chloride	298	
107-13-1	Acrylonitrile	5850	
1634-04-4	Methyl-tert-butyl ether	588	
156-60-5	1,2-Dichloroethene (trans)	300	
	n-Hexane	273	
75-34-3	1,1-Dichloroethane	269	
108-05-4	Vinyl Acetate	982	
141-78-6	Ethyl acetate	3000	
126-99-8	Chloroprene	259	
594-20-7	2,2-Dichloropropane	260	
156-59-2	1,2-Dichloroethene (cis)	297	
78-93-3	2-Butanone	1330	
107-12-0	Propionitrile	301	
74-97-5	Bromochloromethane	294	
126-98-7	Methacrylonitrile	1500	
67-66-3	Chloroform	270	
71-55-6	1,1,1-Trichloroethane	297	
	Tetrahydrofuran	297	
110-82-7	cyclohexane	297	
78-83-1	Isobutyl alcohol	265	
56-23-5	Carbon Tetrachloride	279	
563-58-6	1,1-Dichloropropene	284	
71-43-2	Benzene	276	
108-21-4	isopropyl acetate	9.68	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 300ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a012610.b

Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
107-06-2	1,2-Dichloroethane	295	
79-01-6	Trichloroethene	297	
108-87-2	Methylcyclohexane	294	
78-87-5	1,2-Dichloropropane	299	
74-95-3	Dibromomethane	298	
80-62-6	Methyl methacrylate	298	
540-84-1	2,2,4-Trimethylpentane	277	
	1,4-Dioxane	8390	
75-27-4	Bromodichloromethane	297	
110-75-8	2-Chloroethyl vinyl ether	297	
10061-01-5	cis-1,3-Dichloropropene	296	
108-10-1	4-Methyl-2-Pentanone	1230	
108-88-3	Toluene	253	
10061-02-6	trans-1,3-Dichloropropene	297	
	Ethyl Methacrylate	296	
79-00-5	1,1,2-Trichloroethane	296	
127-18-4	Tetrachloroethene	304	
142-28-9	1,3-Dichloropropane	296	
591-78-6	2-Hexanone	1470	
124-48-1	Dibromochloromethane	298	
106-93-4	1,2-Dibromoethane	296	
108-90-7	Chlorobenzene	268	
630-20-6	1,1,1,2-Tetrachloroethane	287	
100-41-4	Ethylbenzene	280	
7816-60-0	m&p-Xylene	550	
95-47-6	o-Xylene	289	
100-42-5	Styrene	283	
75-25-2	Bromoform	301	
98-82-8	Isopropylbenzene	259	
	trans-1,4-Dichloro-2-butene	294	
628-63-7	n-amyl acetate	13.0	
108-86-1	Bromobenzene	296	
79-34-5	1,1,2,2-Tetrachloroethane	285	
96-18-4	1,2,3-Trichloropropane	283	
103-65-1	n-Propylbenzene	273	
95-49-8	2-Chlorotoluene	263	
108-67-8	1,3,5-Trimethylbenzene	279	
106-43-4	4-Chlorotoluene	303	
98-06-6	tert-Butylbenzene	296	
95-63-6	1,2,4-Trimethylbenzene	273	
135-98-8	sec-Butylbenzene	286	
541-73-1	1,3-Dichlorobenzene	290	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 300ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

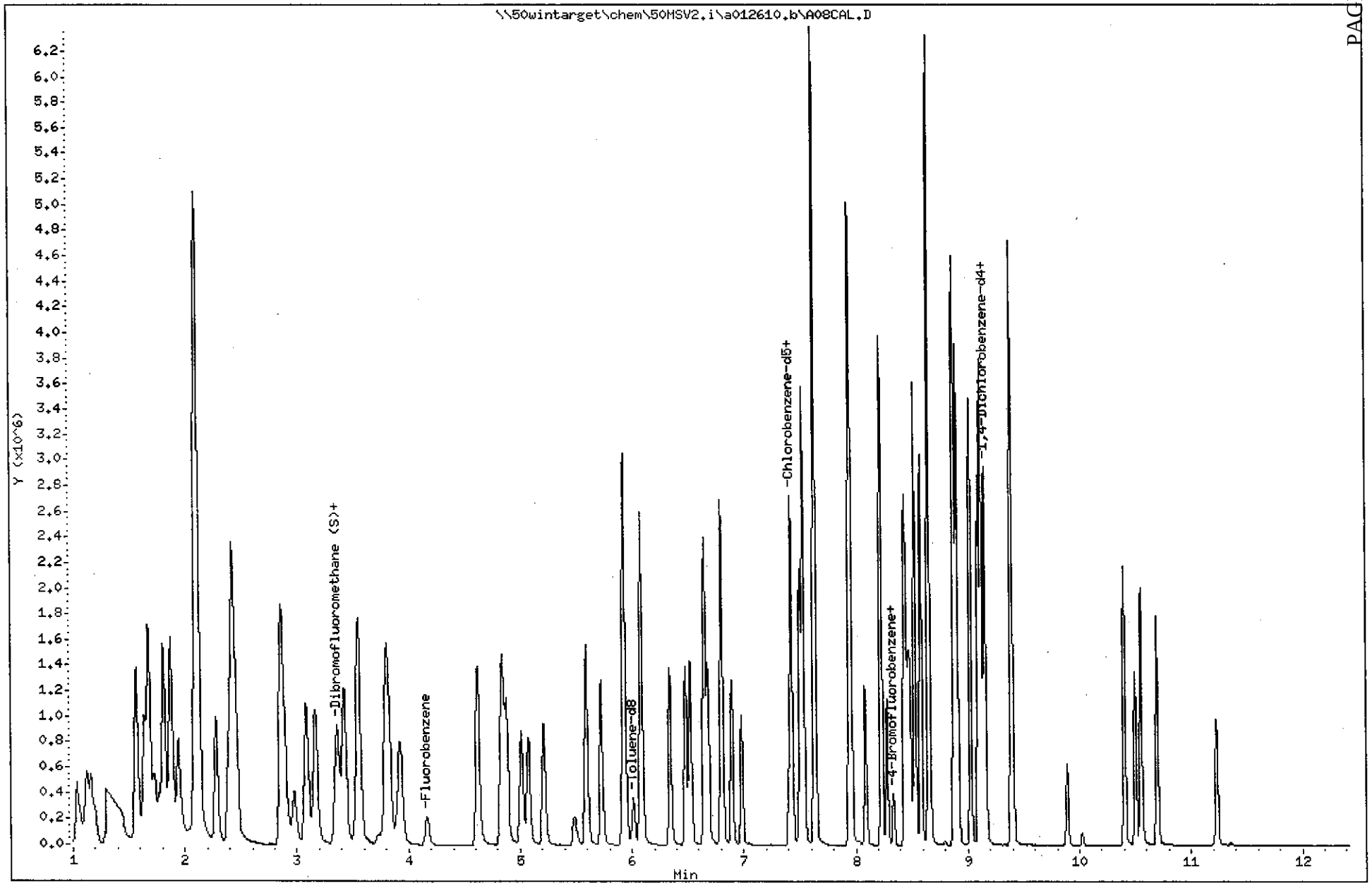
Client SDG: a012610.b

Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
99-87-6	p-Isopropyltoluene	297	
106-46-7	1,4-Dichlorobenzene	287	
104-51-8	n-Butylbenzene	298	
95-50-1	1,2-Dichlorobenzene	300	
96-12-8	1,2-Dibromo-3-chloropropane	301	
120-82-1	1,2,4-Trichlorobenzene	301	
87-68-3	Hexachlorobutadiene	302	
91-20-3	Naphthalene	303	
87-61-6	1,2,3-Trichlorobenzene	301	
	2,methyl-naphthalene	302	
1868-53-7	Dibromofluoromethane (S)	48.2	
2037-26-5	Toluene-d8	47.1	
460-00-4	4-Bromofluorobenzene	48.6	

Data File: \\50wintarget\chem\50MSV2.i\a012610.b\A08CAL.D
Date : 26-JAN-2010 16:56
Client ID:
Sample Info: 300ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a012610.b\A09ICV.D
Lab Smp Id: icv 34A-054 Client Smp ID: icv
Inj Date : 26-JAN-2010 17:30
Operator : jlf Inst ID: 50MSV2.i
Smp Info : icv 34A-054
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a012610.b\-8260-c1.m
Meth Date : 27-Jan-2010 09:14 50MSV2.i Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 19 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
1 Dichlorodifluoromethane	85	1.046	1.041	(0.251)	196186	61.9668	62.0
2 Chloromethane	50	1.139	1.134	(0.273)	161449	60.9057	60.9
3 Vinyl Chloride	62	1.170	1.170	(0.280)	169401	61.4004	61.4
4 Bromomethane	94	1.305	1.304	(0.312)	65037	92.5174	92.5 (R)
5 Chloroethane	64	1.346	1.345	(0.322)	89517	55.5984	55.6
6 Trichlorofluoromethane	101	1.460	1.464	(0.349)	158264	52.3307	52.3
28 1,2-dichlorotrifluoroethane	67	1.579	1.578	(0.378)	155113	58.6302	58.6
7 Diethyl ether	74	1.589	1.588	(0.380)	61678	56.9335	56.9
8 Acrolein	56	1.651	1.650	(0.395)	537444	2635.60	2640 (R)
10 1,1,2trichlorotrifluoroethane	101	1.703	1.702	(0.408)	108553	57.3825	57.4
9 1,1-Dichloroethene	96	1.708	1.707	(0.409)	97251	60.1941	60.2
11 Acetone	43	1.729	1.728	(0.414)	176445	398.773	399 (R)
12 Iodomethane	142	1.796	1.795	(0.430)	128299	66.7542	66.8 (R)
13 Carbon Disulfide	76	1.837	1.836	(0.440)	616217	118.299	118 (M)
14 allyl chloride	41	1.889	1.888	(0.452)	275551	120.712	121 (QM)
138 Methyl Acetate	43	1.899	1.898	(0.455)	104171	73.3246	73.3 (R)
15 Methylene Chloride	84	1.961	1.960	(0.469)	96464	50.2156	50.2
16 Acrylonitrile	53	2.101	2.100	(0.503)	806520	1233.43	1230
19 Methyl-tert-butyl ether	73	2.127	2.126	(0.509)	533795	114.859	115
18 1,2-Dichloroethene (trans)	96	2.127	2.121	(0.509)	107635	56.8232	56.8
20 n-Hexane	57	2.302	2.302	(0.551)	127810	58.7557	58.8
21 1,1-Dichloroethane	63	2.406	2.405	(0.576)	181726	49.5300	49.5
23 Vinyl Acetate	43	2.437	2.436	(0.583)	813768	208.906	209

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
140 Ethyl acetate	88	2.478	2.477	(0.593)	101948	568.192	568
147 Chloroprene	53	2.478	2.477	(0.593)	145440	52.7345	52.7
24 2,2-Dichloropropane	77	2.876	2.875	(0.688)	130150	48.5299	48.5
25 1,2-Dichloroethene (cis)	96	2.876	2.870	(0.688)	130013	55.1161	55.1
26 2-Butanone	43	2.886	2.886	(0.691)	290210	311.781	312
27 Propionitrile	54	2.943	2.943	(0.704)	15917	52.1642	52.2(Q)
29 Bromochloromethane	49	3.103	3.092	(0.743)	91436	70.1674	70.2(R)
146 Methacrylonitrile	41	3.088	3.087	(0.739)	86980	402.668	403
31 Chloroform	83	3.181	3.180	(0.761)	185414	53.6089	53.6
$ 32 Dibromofluoromethane (S)	113	3.352	3.351	(0.802)	92074	50.0685	50.1
33 1,1,1-Trichloroethane	97	3.377	3.377	(0.808)	166698	54.1212	54.1
30 Tetrahydrofuran	42	3.160	3.160	(0.756)	35851	58.8456	58.8
34 cyclohexane	56	3.439	3.444	(0.823)	167615	56.3059	56.3
37 Isobutyl alcohol	43	2.886	2.886	(0.691)	290210	62.3563	62.4
35 Carbon Tetrachloride	117	3.569	3.563	(0.854)	148566	52.7503	52.8
36 1,1-Dichloropropene	75	3.569	3.563	(0.854)	151188	57.8667	57.9
38 Benzene	78	3.817	3.816	(0.913)	414945	55.0890	55.1
141 isopropyl acetate	61	3.739	3.738	(0.895)	613	5.84731	5.85(Q)
39 1,2-Dichloroethane	62	3.843	3.837	(0.920)	132783	59.5513	59.6
* 40 Fluorobenzene	96	4.179	4.178	(1.000)	300296	50.0000	
41 Trichloroethene	95	4.628	4.627	(1.108)	119313	58.1215	58.1
139 Methylcyclohexane	55	4.845	4.845	(1.160)	117392	54.8036	54.8
42 1,2-Dichloropropane	63	4.887	4.886	(1.169)	101050	58.2377	58.2
43 Dibromomethane	93	5.016	5.015	(1.200)	70475	54.1999	54.2
44 Methyl methacrylate	69	5.078	5.077	(1.215)	81995	56.0485	56.0
143 2,2,4-Trimethylpentane	57	3.941	3.940	(0.943)	227502	51.2694	51.3
144 1,4-Dioxane	88	5.073	5.072	(1.214)	31812	29026.7	29000(Q)
45 Bromodichloromethane	83	5.217	5.217	(1.249)	141635	56.4828	56.5
46 2-Chloroethyl vinyl ether	63	5.595	5.594	(0.756)	33421	11.5162	11.5
47 cis-1,3-Dichloropropene	75	5.729	5.728	(0.774)	169261	57.8132	57.8
48 4-Methyl-2-Pentanone	43	5.920	5.920	(0.800)	497065	269.241	269
$ 49 Toluene-d8	98	6.013	6.013	(0.812)	269167	48.7983	48.8
50 Toluene	91	6.086	6.085	(0.822)	422746	52.7446	52.7
51 trans-1,3-Dichloropropene	75	6.344	6.343	(0.857)	149672	52.8550	52.8
52 Ethyl Methacrylate	69	6.479	6.478	(0.875)	150604	56.6599	56.6
53 1,1,2-Trichloroethane	83	6.525	6.524	(0.881)	74718	56.5568	56.6
54 Tetrachloroethene	166	6.654	6.653	(0.899)	128026	46.5725	46.6
55 1,3-Dichloropropane	76	6.685	6.679	(0.903)	159873	56.2633	56.3
56 2-Hexanone	43	6.799	6.798	(0.918)	364513	319.822	320
57 Dibromochloromethane	129	6.892	6.891	(0.931)	121426	55.5424	55.5
58 1,2-Dibromoethane	107	6.985	6.979	(0.943)	118686	55.0828	55.1
* 59 Chlorobenzene-d5	117	7.404	7.403	(1.000)	262038	50.0000	
60 Chlorobenzene	112	7.424	7.424	(1.003)	288994	52.1834	52.2
61 1,1,1,2-Tetrachloroethane	131	7.502	7.501	(1.013)	106294	53.5342	53.5
62 Ethylbenzene	106	7.533	7.527	(1.017)	156484	53.7303	53.7
63 m&p-Xylene	106	7.631	7.630	(1.031)	396022	106.973	107
65 o-Xylene	106	7.941	7.940	(1.073)	195897	54.2794	54.3
66 Styrene	104	7.952	7.951	(1.074)	315277	54.9603	55.0
67 Bromoform	173	8.086	8.080	(0.885)	87133	52.4254	52.4
68 Isopropylbenzene	105	8.225	8.225	(1.111)	468133	52.0441	52.0
69 trans-1,4-Dichloro-2-butene	53	8.484	8.483	(1.146)	121683	204.923	205(Q)
142 n-amyl acetate	70	8.334	8.328	(1.126)	642	14.6899	14.7(Q)
$ 70 4-Bromofluorobenzene	95	8.334	8.328	(1.126)	113516	48.9342	48.9
71 Bromobenzene	77	8.432	8.431	(1.139)	152846	53.5913	53.6

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
72 1,1,2,2-Tetrachloroethane	83	8.448	8.447	(0.925)	122670	57.0249	57.0
73 1,2,3-Trichloropropane	75	8.484	8.483	(0.929)	272299	108.463	108
74 n-Propylbenzene	91	8.525	8.524	(0.933)	474157	55.3548	55.4
75 2-Chlorotoluene	91	8.577	8.576	(0.939)	290236	51.6509	51.6
77 1,3,5-Trimethylbenzene	105	8.649	8.649	(0.947)	342409	54.8503	54.8
76 4-Chlorotoluene	126	8.577	8.576	(0.939)	103827	55.0237	55.0
78 tert-Butylbenzene	119	8.872	8.871	(0.971)	362631	50.4373	50.4
79 1,2,4-Trimethylbenzene	105	8.908	8.902	(0.975)	339900	54.9768	55.0
80 sec-Butylbenzene	105	9.021	9.021	(0.988)	447986	57.1127	57.1
81 1,3-Dichlorobenzene	146	9.094	9.093	(0.995)	194445	54.5040	54.5
83 p-Isopropyltoluene	119	9.120	9.119	(0.998)	363106	57.6776	57.7
* 82 1,4-Dichlorobenzene-d4	152	9.135	9.134	(1.000)	116037	50.0000	
84 1,4-Dichlorobenzene	146	9.156	9.150	(1.002)	197040	53.2269	53.2
86 n-Butylbenzene	91	9.388	9.382	(1.028)	279116	59.1770	59.2
85 1,2-Dichlorobenzene	146	9.399	9.393	(1.029)	187435	56.6903	56.7
87 1,2-Dibromo-3-chloropropane	155	9.890	9.889	(1.083)	23479	54.1507	54.2
88 1,2,4-Trichlorobenzene	180	10.401	10.401	(1.139)	115940	54.8338	54.8
89 Hexachlorobutadiene	225	10.500	10.499	(1.149)	46633	59.4871	59.5
90 Naphthalene	128	10.551	10.550	(1.155)	294120	62.0140	62.0
91 1,2,3-Trichlorobenzene	180	10.696	10.695	(1.171)	106270	60.5228	60.5
92 2,methyl-naphthalene	142	11.228	11.233	(1.229)	104480	100.276	100

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A09ICV.D
Lab Smp Id: icv 34A-054
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a012610.b\-8260-c1.m
Misc Info:

Calibration Date: 26-JAN-2010
Calibration Time: 19:46
Client Smp ID: icv
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	302577	151289	605154	300296	-0.75
59 Chlorobenzene-d5	263221	131611	526442	262038	-0.45
82 1,4-Dichlorobenze	116307	58154	232614	116037	-0.23

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.18	3.68	4.68	4.18	0.02
59 Chlorobenzene-d5	7.40	6.90	7.90	7.40	0.01
82 1,4-Dichlorobenze	9.13	8.63	9.63	9.14	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: icv 34A-054
Level: LOW
Data Type: MS DATA
SpikeList File: 8260ICV.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a012610.b\-8260-c1.m
Misc Info:

Client SDG: a012610.b
Fraction: VOA
Client Smp ID: icv
Operator: jlf
SampleType: ICV
Quant Type: ISTD

PASS F/L
JP 1-27-10

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
1 Dichlorodifluorome	50.0	62.0	123.93	70-130
2 Chloromethane	50.0	60.9	121.81	70-130
3 Vinyl Chloride	50.0	61.4	122.80	70-130
4 Bromomethane	50.0	92.5	185.03*	70-130
5 Chloroethane	50.0	55.6	111.20	70-130
6 Trichlorofluoromet	50.0	52.3	104.66	70-130
28 1,2-dichlorotriflu	50.0	58.6	117.26	70-130
7 Diethyl ether	50.0	56.9	113.87	70-130
8 Acrolein	1000	2640	OKperSp. 263.56*	70-130
9 1,1-Dichloroethene	50.0	60.2	120.39	70-130
10 1,1,2trichlorotrif	50.0	57.4	114.77	70-130
11 Acetone	250	399	159.51*	70-130
12 Iodomethane	100	66.8	66.75*	70-130
13 Carbon Disulfide	100	118	118.30	70-130
138 Methyl Acetate	50.0	73.3	TCL List only 146.65*	70-130
14 allyl chloride	100	121	120.71	70-130
15 Methylene Chloride	50.0	50.2	100.43	70-130
16 Acrylonitrile	1000	1230	123.34	70-130
27 Propionitrile	50.0	52.2	104.33	70-130
18 1,2-Dichloroethene	50.0	56.8	113.65	70-130
19 Methyl-tert-butyl	100	115	114.86	70-130
20 n-Hexane	50.0	58.8	117.51	70-130
21 1,1-Dichloroethane	50.0	49.5	99.06	70-130
23 Vinyl Acetate	200	209	104.45	70-130
25 1,2-Dichloroethene	50.0	55.1	110.23	70-130
24 2,2-Dichloropropan	50.0	48.5	97.06	70-130
26 2-Butanone	250	312	124.71	70-130
29 Bromochloromethane	50.0	70.2	140.33*	70-130
30 Tetrahydrofuran	50.0	58.8	117.69	70-130
31 Chloroform	50.0	53.6	107.22	70-130
33 1,1,1-Trichloroeth	50.0	54.1	108.24	70-130
34 cyclohexane	50.0	56.3	112.61	70-130
37 Isobutyl alcohol	50.0	62.4	124.71	70-130
36 1,1-Dichloropropen	50.0	57.9	115.73	70-130
35 Carbon Tetrachlori	50.0	52.8	105.50	70-130
38 Benzene	50.0	55.1	110.18	70-130
39 1,2-Dichloroethane	50.0	59.6	119.10	70-130
41 Trichloroethene	50.0	58.1	116.24	70-130
139 Methylcyclohexane	50.0	54.8	109.61	70-130
42 1,2-Dichloropropan	50.0	58.2	116.48	70-130

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
43 Dibromomethane	50.0	54.2	108.40	70-130
44 Methyl methacrylat	50.0	56.0	112.10	70-130
45 Bromodichlorometha	50.0	56.5	112.97	70-130
47 cis-1,3-Dichloropr	50.0	57.8	115.63	70-130
48 4-Methyl-2-Pentano	250	269	107.70	70-130
50 Toluene	50.0	52.7	105.49	70-130
51 trans-1,3-Dichloro	50.0	52.8	105.71	70-130
52 Ethyl Methacrylate	50.0	56.6	113.32	70-130
53 1,1,2-Trichloroeth	50.0	56.6	113.11	70-130
54 Tetrachloroethene	50.0	46.6	93.14	70-130
55 1,3-Dichloropropan	50.0	56.3	112.53	70-130
56 2-Hexanone	250	320	127.93	70-130
57 Dibromochlorometha	50.0	55.5	111.08	70-130
58 1,2-Dibromoethane	50.0	55.1	110.17	70-130
60 Chlorobenzene	50.0	52.2	104.37	70-130
61 1,1,1,2-Tetrachlor	50.0	53.5	107.07	70-130
62 Ethylbenzene	50.0	53.7	107.46	70-130
63 m&p-Xylene	100	107	106.97	70-130
65 o-Xylene	50.0	54.3	108.56	70-130
66 Styrene	50.0	55.0	109.92	70-130
67 Bromoform	50.0	52.4	104.85	70-130
68 Isopropylbenzene	50.0	52.0	104.09	70-130
69 trans-1,4-Dichloro	200	205	102.46	70-130
72 1,1,2,2-Tetrachlor	50.0	57.0	114.05	70-130
71 Bromobenzene	50.0	53.6	107.18	70-130
73 1,2,3-Trichloropro	100	108	108.46	70-130
74 n-Propylbenzene	50.0	55.4	110.71	70-130
75 2-Chlorotoluene	50.0	51.6	103.30	70-130
76 4-Chlorotoluene	50.0	55.0	110.05	70-130
77 1,3,5-Trimethylben	50.0	54.8	109.70	70-130
78 tert-Butylbenzene	50.0	50.4	100.87	70-130
79 1,2,4-Trimethylben	50.0	55.0	109.95	70-130
80 sec-Butylbenzene	50.0	57.1	114.23	70-130
81 1,3-Dichlorobenzen	50.0	54.5	109.01	70-130
83 p-Isopropyltoluene	50.0	57.7	115.36	70-130
84 1,4-Dichlorobenzen	50.0	53.2	106.45	70-130
86 n-Butylbenzene	50.0	59.2	118.35	70-130
85 1,2-Dichlorobenzen	50.0	56.7	113.38	70-130
88 1,2,4-Trichloroben	50.0	54.8	109.67	70-130
91 1,2,3-Trichloroben	50.0	60.5	121.05	70-130
87 1,2-Dibromo-3-chlo	50.0	54.2	108.30	70-130
89 Hexachlorobutadien	50.0	59.5	118.97	70-130
90 Naphthalene	50.0	62.0	124.03	70-130

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	50.1	100.14	82-122
$ 49 Toluene-d8	50.0	48.8	97.60	80-120
$ 70 4-Bromofluorobenze	50.0	48.9	97.87	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: icv 34A-054
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a012610.b
Client Smp ID: icv
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	62.0	
74-87-3	Chloromethane	60.9	
75-01-4	Vinyl Chloride	61.4	
74-83-9	Bromomethane	92.5	
75-00-3	Chloroethane	55.6	
75-69-4	Trichlorofluoromethane	52.3	
354-23-4	1,2-dichlorotrifluoroethane	58.6	
60-29-7	Diethyl ether	56.9	
107-02-8	Acrolein	2640	
76-13-1	1,1,2trichlorotrifluoroethan	57.4	
75-35-4	1,1-Dichloroethene	60.2	
67-64-1	Acetone	399	
	Iodomethane	66.8	
75-15-0	Carbon Disulfide	118	
107-05-1	allyl chloride	121	
79-20-9	Methyl Acetate	73.3	
75-09-2	Methylene Chloride	50.2	
107-13-1	Acrylonitrile	1230	
1634-04-4	Methyl-tert-butyl ether	115	
156-60-5	1,2-Dichloroethene (trans)	56.8	
	n-Hexane	58.8	
75-34-3	1,1-Dichloroethane	49.5	
108-05-4	Vinyl Acetate	209	
141-78-6	Ethyl acetate	568	
126-99-8	Chloroprene	52.7	
594-20-7	2,2-Dichloropropane	48.5	
156-59-2	1,2-Dichloroethene (cis)	55.1	
78-93-3	2-Butanone	312	
107-12-0	Propionitrile	52.2	
74-97-5	Bromochloromethane	70.2	
126-98-7	Methacrylonitrile	403	
67-66-3	Chloroform	53.6	
71-55-6	1,1,1-Trichloroethane	54.1	
	Tetrahydrofuran	58.8	
110-82-7	cyclohexane	56.3	
78-83-1	Isobutyl alcohol	62.4	
56-23-5	Carbon Tetrachloride	52.8	
563-58-6	1,1-Dichloropropene	57.9	
71-43-2	Benzene	55.1	
108-21-4	isopropyl acetate	5.85	
107-06-2	1,2-Dichloroethane	59.6	
79-01-6	Trichloroethene	58.1	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: icv 34A-054
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a012610.b
Client Smp ID: icv
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-87-2	Methylcyclohexane	54.8	
78-87-5	1,2-Dichloropropane	58.2	
74-95-3	Dibromomethane	54.2	
80-62-6	Methyl methacrylate	56.0	
540-84-1	2,2,4-Trimethylpentane	51.3	
	1,4-Dioxane	29000	
75-27-4	Bromodichloromethane	56.5	
110-75-8	2-Chloroethyl vinyl ether	11.5	
10061-01-5	cis-1,3-Dichloropropene	57.8	
108-10-1	4-Methyl-2-Pentanone	269	
108-88-3	Toluene	52.7	
10061-02-6	trans-1,3-Dichloropropene	52.8	
	Ethyl Methacrylate	56.6	
79-00-5	1,1,2-Trichloroethane	56.6	
127-18-4	Tetrachloroethene	46.6	
142-28-9	1,3-Dichloropropane	56.3	
591-78-6	2-Hexanone	320	
124-48-1	Dibromochloromethane	55.5	
106-93-4	1,2-Dibromoethane	55.1	
108-90-7	Chlorobenzene	52.2	
630-20-6	1,1,1,2-Tetrachloroethane	53.5	
100-41-4	Ethylbenzene	53.7	
7816-60-0	m&p-Xylene	107	
95-47-6	o-Xylene	54.3	
100-42-5	Styrene	55.0	
75-25-2	Bromoform	52.4	
98-82-8	Isopropylbenzene	52.0	
	trans-1,4-Dichloro-2-butene	205	
628-63-7	n-amyl acetate	14.7	
108-86-1	Bromobenzene	53.6	
79-34-5	1,1,2,2-Tetrachloroethane	57.0	
96-18-4	1,2,3-Trichloropropane	108	
103-65-1	n-Propylbenzene	55.4	
95-49-8	2-Chlorotoluene	51.6	
108-67-8	1,3,5-Trimethylbenzene	54.8	
106-43-4	4-Chlorotoluene	55.0	
98-06-6	tert-Butylbenzene	50.4	
95-63-6	1,2,4-Trimethylbenzene	55.0	
135-98-8	sec-Butylbenzene	57.1	
541-73-1	1,3-Dichlorobenzene	54.5	
99-87-6	p-Isopropyltoluene	57.7	
106-46-7	1,4-Dichlorobenzene	53.2	

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TARGET COMPOUNDS

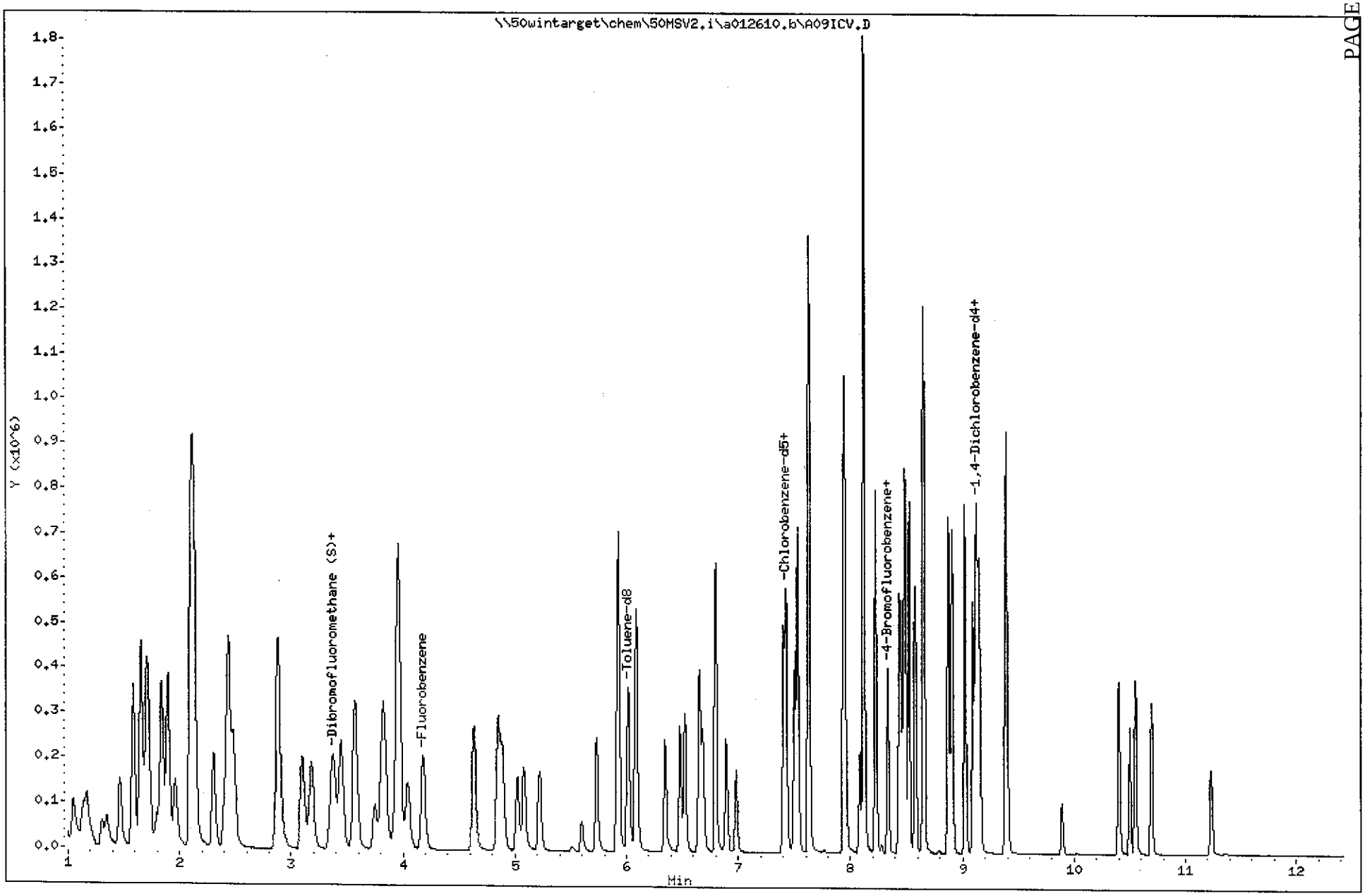
Client Name:
Lab Smp Id: icv 34A-054
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a012610.b
Client Smp ID: icv
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
104-51-8	n-Butylbenzene	59.2	
95-50-1	1,2-Dichlorobenzene	56.7	
96-12-8	1,2-Dibromo-3-chloropropane	54.2	
120-82-1	1,2,4-Trichlorobenzene	54.8	
87-68-3	Hexachlorobutadiene	59.5	
91-20-3	Naphthalene	62.0	
87-61-6	1,2,3-Trichlorobenzene	60.5	
	2,methyl-naphthalene	100	
1868-53-7	Dibromofluoromethane (S)	50.1	
2037-26-5	Toluene-d8	48.8	
460-00-4	4-Bromofluorobenzene	48.9	

Data File: \\50wintarget\chem\50MSV2.i\a012610.b\A09ICV.D
Date : 26-JAN-2010 17:30
Client ID: icv
Sample Info: icv 34A-054
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



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VOA 8260B
GC/MS Volatiles

Section 3: Calibration Verification Data

** Calibration Verification Summary Table*
** BFB Tune Information*
** Calibration Verification Standards*

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: A013110.B

Lab File ID: A00BFB BFB Injection Date: 01/31/10

Instrument ID: 50MSV2 BFB Injection Time: 1239

GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.0
75	30.0 - 60.0% of mass 95	42.7
95	Base Peak, 100% relative abundance	100.0
95	100.0 - 100.0% of mass 95	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	77.1
175	5.0 - 9.0% of mass 174	6.0 (7.7)1
176	95.0 - 101.0% of mass 174	77.3 (100.3)1
177	5.0 - 9.0% of mass 176	5.4 (7.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV	CCV 34A-052/08	A01CCV	01/31/10	1312
02	LCS	393492	A02LCS	01/31/10	1346
03	MB	393491	A03MB	01/31/10	1420
04	5034229001	5034229001	A04	01/31/10	1454
05	MS5034229001	393493	A05	01/31/10	1528
06	MSD503422900	393494	A06	01/31/10	1603
07	5034229004	5034229004	A07	01/31/10	1636
08	5034229005	5034229005	A08	01/31/10	1710
09	5034229006	5034229006	A09	01/31/10	1744
10	5034229007	5034229007	A10	01/31/10	1818
11	5034229008	5034229008	A11	01/31/10	1852
12	5034229009	5034229009	A12	01/31/10	1926
13	5034229010	5034229010	A13	01/31/10	2000
14	5034229011	5034229011	A14	01/31/10	2034
15	5034229012	5034229012	A15	01/31/10	2108
16	5034229013	5034229013	A16	01/31/10	2142
17	5034229014	5034229014	A17	01/31/10	2216
18	5034229015	5034229015	A18	01/31/10	2249
19	5034229016	5034229016	A19	01/31/10	2323
20	5034229017	5034229017	A20	01/31/10	2357
21					
22					

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: A013110.B

Instrument ID: 50MSV2 Calibration Date: 01/31/10 Time: 1312

Lab File ID: A01CCV Init. Calib. Date(s): 01/26/10 01/26/10

Heated Purge: (Y/N) N Init. Calib. Times: 1258 1656

GC Column: DB-624 ID: 0.18 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d	
Bromochloromethane	66.4	50.0	LINR	-32.8	20.0	<-
Chloromethane	39.3	50.0	AVRG	21.4	20.0	<-
Bromomethane	49.3	50.0	LINR	1.4	20.0	
Vinyl Chloride	45.1	50.0	LINR	9.8	20.0	
Chloroethane	46.6	50.0	LINR	6.8	20.0	
Methylene Chloride	51.0	50.0	LINR	-2.0	20.0	
1,1-Dichloroethene	53.5	50.0	LINR	-7.0	20.0	
1,1-Dichloroethane	47.7	50.0	AVRG	4.6	20.0	
1,2-Dichloroethene (trans)	49.2	50.0	LINR	1.6	20.0	
Chloroform	48.4	50.0	AVRG	3.2	20.0	
1,2-Dichloroethane	49.5	50.0	LINR	1.0	20.0	
1,1,1-Trichloroethane	50.3	50.0	LINR	-0.6	20.0	
Carbon Tetrachloride	49.6	50.0	AVRG	0.8	20.0	
Bromodichloromethane	49.8	50.0	LINR	0.4	20.0	
1,2-Dichloropropane	50.9	50.0	WLINR	-1.8	20.0	
trans-1,3-Dichloropropene	48.4	50.0	LINR	3.2	20.0	
Trichloroethene	50.8	50.0	LINR	-1.6	20.0	
Dibromochloromethane	47.3	50.0	AVRG	5.4	20.0	
1,1,2-Trichloroethane	47.1	50.0	LINR	5.8	20.0	
Benzene	48.0	50.0	AVRG	4.0	20.0	
cis-1,3-Dichloropropene	50.4	50.0	LINR	-0.8	20.0	
Bromoform	40.6	50.0	LINR	18.8	20.0	
Tetrachloroethene	42.3	50.0	LINR	15.4	20.0	
1,1,2,2-Tetrachloroethane	40.9	50.0	AVRG	18.2	20.0	
Toluene	45.5	50.0	AVRG	9.0	20.0	
Chlorobenzene	45.3	50.0	AVRG	9.4	20.0	
Ethylbenzene	46.3	50.0	AVRG	7.4	20.0	
Styrene	47.5	50.0	AVRG	5.0	20.0	
Trichlorofluoromethane	48.6	50.0	LINR	2.8	20.0	
m&p-Xylene	91.6	100	AVRG	8.4	20.0	
1,2-Dichloroethene (cis)	49.7	50.0	LINR	0.6	20.0	
o-Xylene	46.6	50.0	AVRG	6.8	20.0	
1,2,3-Trichloropropane	41.2	50.0	AVRG	17.6	20.0	
1,3-Dichlorobenzene	44.9	50.0	AVRG	10.2	20.0	
1,4-Dichlorobenzene	44.2	50.0	AVRG	11.6	20.0	
Dibromomethane	47.3	50.0	LINR	5.4	20.0	
1,2-Dichlorobenzene	45.6	50.0	AVRG	8.8	20.0	

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: A013110.B

Instrument ID: 50MSV2 Calibration Date: 01/31/10 Time: 1312

Lab File ID: A01CCV Init. Calib. Date(s): 01/26/10 01/26/10

Heated Purge: (Y/N) N Init. Calib. Times: 1258 1656

GC Column: DB-624 ID: 0.18 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d	
Dichlorodifluoromethane	34.0	50.0	LINR	32.0	20.0	<-
2,2-Dichloropropane	55.2	50.0	AVRG	-10.4	20.0	
1,1-Dichloropropene	50.1	50.0	AVRG	-0.2	20.0	
1,3-Dichloropropane	47.6	50.0	LINR	4.8	20.0	
1,2-Dibromoethane	44.8	50.0	LINR	10.4	20.0	
1,1,1,2-Tetrachloroethane	47.6	50.0	AVRG	4.8	20.0	
Isopropylbenzene	46.2	50.0	AVRG	7.6	20.0	
Bromobenzene	59.2	50.0	LINR	-18.4	20.0	
n-Propylbenzene	46.1	50.0	AVRG	7.8	20.0	
2-Chlorotoluene	43.3	50.0	AVRG	13.4	20.0	
4-Chlorotoluene	45.8	50.0	LINR	8.4	20.0	
1,3,5-Trimethylbenzene	45.4	50.0	AVRG	9.2	20.0	
tert-Butylbenzene	47.4	50.0	AVRG	5.2	20.0	
1,2,4-Trimethylbenzene	44.4	50.0	AVRG	11.2	20.0	
sec-Butylbenzene	46.0	50.0	AVRG	8.0	20.0	
p-Isopropyltoluene	46.7	50.0	AVRG	6.6	20.0	
n-Butylbenzene	47.5	50.0	LINR	5.0	20.0	
1,2-Dibromo-3-chloropropane	37.5	50.0	LINR	25.0	20.0	<-
1,2,4-Trichlorobenzene	43.1	50.0	LINR	13.8	20.0	
Hexachlorobutadiene	42.3	50.0	LINR	15.4	20.0	
Naphthalene	41.6	50.0	LINR	16.8	20.0	
1,2,3-Trichlorobenzene	41.1	50.0	LINR	17.8	20.0	
Acrolein	939	1000	AVRG	6.1	20.0	
Carbon Disulfide	120	100	AVRG	-20.0	20.0	
Acetone	206	250	LINR	17.6	20.0	
Acrylonitrile	878	1000	LINR	12.2	20.0	
Vinyl Acetate	183	200	AVRG	8.5	20.0	
2-Butanone	198	250	AVRG	20.8	20.0	<-
2-Chloroethyl vinyl ether	43.8	50.0	LINR	12.4	20.0	
4-Methyl-2-Pentanone	195	250	AVRG	22.0	20.0	<-
2-Hexanone	207	250	LINR	17.2	20.0	
Methyl-tert-butyl ether	98.7	100	LINR	1.3	20.0	
Iodomethane	59.2	100	2ORDR	40.8	20.0	<-
trans-1,4-Dichloro-2-butene	44.2	50.0	LINR	11.6	20.0	
Ethyl Methacrylate	43.9	50.0	LINR	12.2	20.0	
2,methyl-naphthalene	67.8	50.0	LINR	-35.6	20.0	<-
n-Hexane	52.5	50.0	AVRG	-5.0	20.0	

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: A013110.B

Instrument ID: 50MSV2 Calibration Date: 01/31/10 Time: 1312

Lab File ID: A01CCV Init. Calib. Date(s): 01/26/10 01/26/10

Heated Purge: (Y/N) N Init. Calib. Times: 1258 1656

GC Column: DB-624 ID: 0.18 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d	
cyclohexane	52.1	50.0	LINR	-4.2	20.0	
1,1,2trichlorotrifluoroethan	54.1	50.0	LINR	-8.2	20.0	
1,2-dichlorotrifluoroethane	55.4	50.0	LINR	-10.8	20.0	
Tetrahydrofuran	40.7	50.0	LINR	18.6	20.0	
allyl chloride	114	100	LINR	-14.0	20.0	
Diethyl ether	51.6	50.0	LINR	-3.2	20.0	
Isobutyl alcohol	39.7	50.0	AVRG	20.6	20.0	<-
Methyl methacrylate	43.6	50.0	LINR	12.8	20.0	
Propionitrile	38.7	50.0	LINR	22.6	20.0	<-
tert-Butyl Alcohol	74.8	100	LINR	25.2	20.0	<-
Methyl Acetate	45.4	50.0	LINR	9.2	20.0	
Methylcyclohexane	53.9	50.0	LINR	-7.8	20.0	
Ethyl acetate	495	500	LINR	1.0	20.0	
isopropyl acetate	8.69	250	AVRG	96.5	20.0	<-
n-amyl acetate	13.9	250	AVRG	94.4	20.0	<-
2,2,4-Trimethylpentane	52.5	50.0	AVRG	-5.0	20.0	
1,4-Dioxane	501	1000	AVRG	49.9	20.0	<-
Acetonitrile	718	1000	AVRG	28.2	20.0	<-
Methacrylonitrile	291	250	LINR	-16.4	20.0	
Chloroprene	48.3	50.0	AVRG	3.4	20.0	
Toluene-d8	48.9	50.0	AVRG	2.2	20.0	
4-Bromofluorobenzene	50.4	50.0	AVRG	-0.8	20.0	
Dibromofluoromethane (S)	50.5	50.0	AVRG	-1.0	20.0	

Data File: \\50wintarget\chem\50MSV2.i\a013110.b\A00BFB.D

Page 1

Date : 31-JAN-2010 12:39

Client ID: bfb050

Instrument: 50MSV2.i

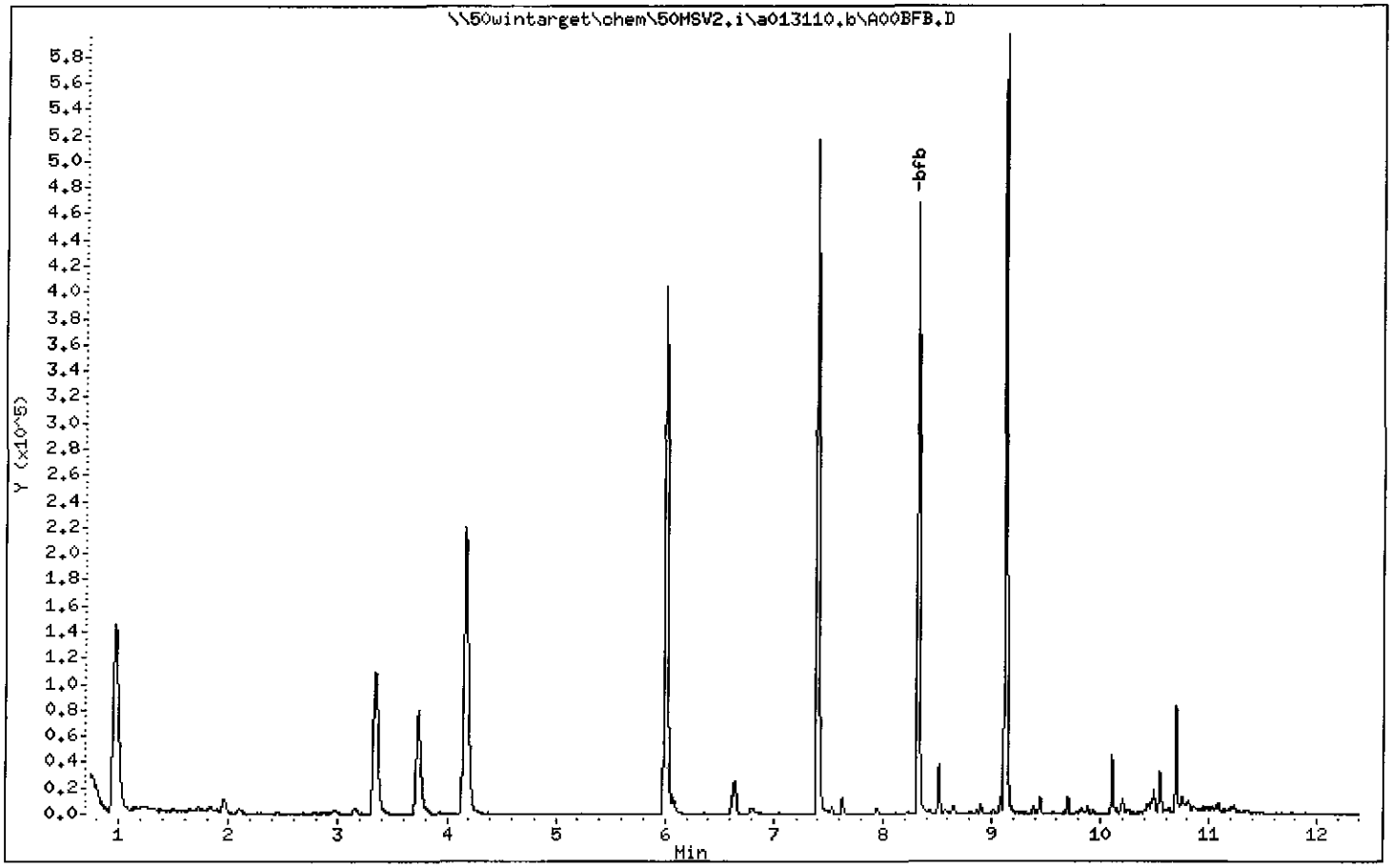
Sample Info: bfb 34A-095

Volume Injected (uL): 5.0

Operator: jlf

Column phase: DB-624

Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV2.i\a013110.b\A00BFB.D

Date : 31-JAN-2010 12:39

Client ID: bfb050

Instrument: 50MSV2.i

Sample Info: bfb 34A-095

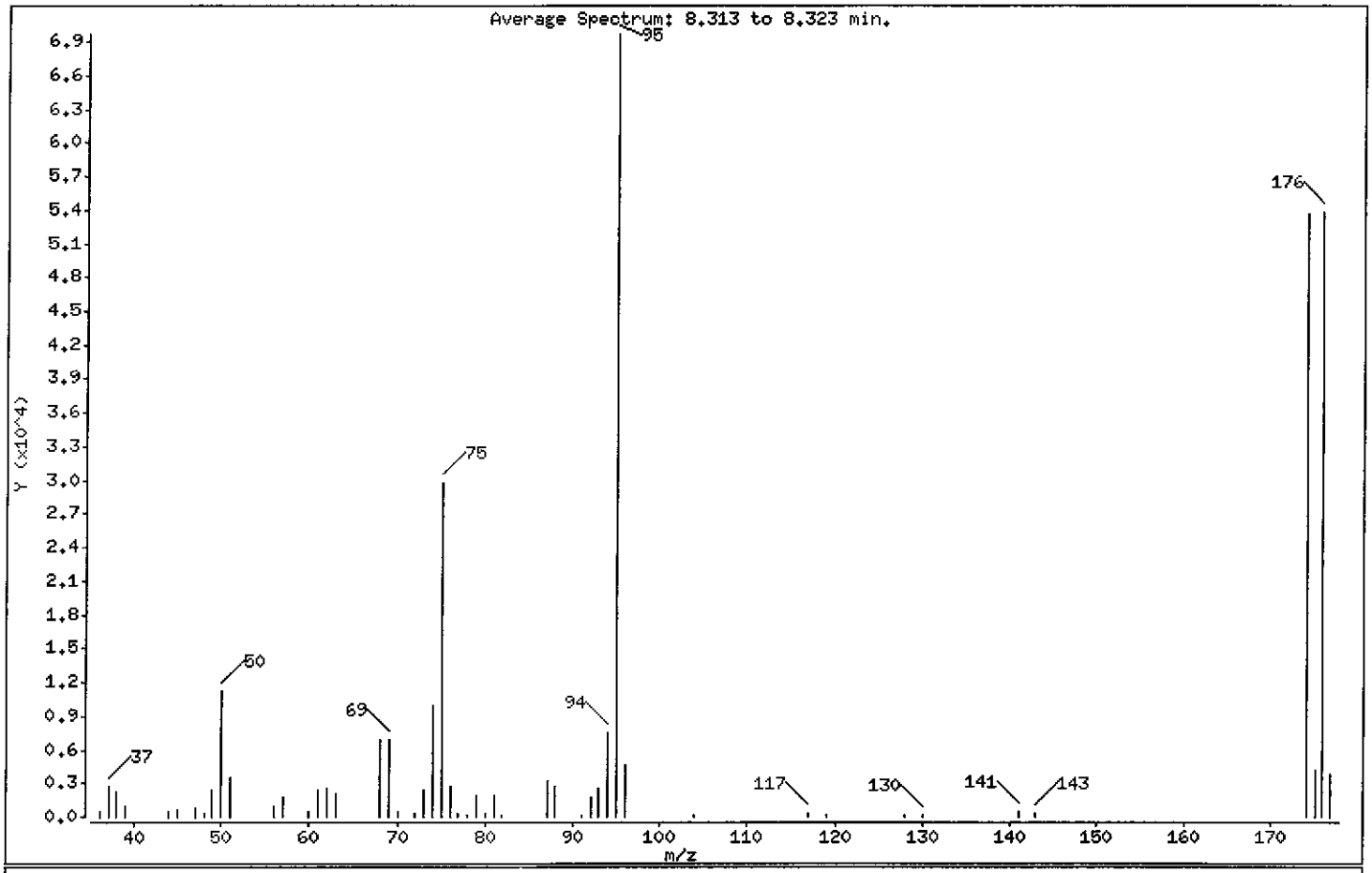
Volume Injected (uL): 5.0

Operator: jlf

Column phase: DB-624

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.03
75	30.00 - 60.00% of mass 95	42.73
96	5.00 - 9.00% of mass 95	6.78
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	77.05
175	5.00 - 9.00% of mass 174	5.96 (7.74)
176	95.00 - 101.00% of mass 174	77.27 (100.28)
177	5.00 - 9.00% of mass 176	5.41 (7.00)
95	100.00 - 100.00% of mass 95	100.00

Data File: \\50wintarget\chem\50MSV2.i\a013110.b\A00BFB.D

Date : 31-JAN-2010 12:39

Client ID: bfb050 Instrument: 50MSV2.i

Sample Info: bfb 34A-095

Volume Injected (uL): 5.0 Operator: jlf

Column phase: DB-624 Column diameter: 0.18

Data File: A00BFB.D

Spectrum: Average Spectrum: 8.313 to 8.323 min.

Location of Maximum: 95.00

Number of points: 50

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	460	60.00	514	78.00	157	104.00	186
37.00	2653	61.00	2477	79.00	1897	117.00	304
38.00	2232	62.00	2502	80.00	397	119.00	132
39.00	991	63.00	2159	81.00	1845	128.00	129
44.00	533	68.00	6854	82.00	182	130.00	172
45.00	605	69.00	6874	87.00	3128	141.00	444
47.00	777	70.00	439	88.00	2663	143.00	382
48.00	307	72.00	283	91.00	136	174.00	53672
49.00	2430	73.00	2409	92.00	1790	175.00	4152
50.00	11169	74.00	9952	93.00	2550	176.00	53824
51.00	3527	75.00	29768	94.00	7599	177.00	3768
56.00	919	76.00	2673	95.00	69664		
57.00	1766	77.00	330	96.00	4723		

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a013110.b\A01CCV.D
Lab Smp Id: ccv 34A-052/082 Client Smp ID: ccv
Inj Date : 31-JAN-2010 13:12
Operator : jlf Inst ID: 50MSV2.i
Smp Info : ccv 34A-052/082
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Meth Date : 01-Feb-2010 13:23 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 50-VOA-JLF

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	1.039	1.039	(0.250)	138441	50.0000	34.0
2 Chloromethane	50	1.122	1.122	(0.270)	127155	50.0000	39.3
3 Vinyl Chloride	62	1.163	1.163	(0.280)	154705	50.0000	45.1
4 Bromomethane	94	1.292	1.292	(0.311)	44534	50.0000	49.3
5 Chloroethane	64	1.339	1.339	(0.322)	91700	50.0000	46.6
6 Trichlorofluoromethane	101	1.453	1.453	(0.349)	179865	50.0000	48.6
28 1,2-dichlorotrifluoroethane	67	1.571	1.571	(0.378)	179938	50.0000	55.4
7 Diethyl ether	74	1.582	1.582	(0.380)	68813	50.0000	51.6
17 tert-Butyl Alcohol	59	2.011	2.011	(0.483)	20984	100.000	74.8
8 Acrolein	56	1.644	1.644	(0.395)	233805	1000.00	939
10 1,1,2trichlorotrifluoroethane	101	1.690	1.690	(0.406)	125805	50.0000	54.1
9 1,1-Dichloroethene	96	1.701	1.701	(0.409)	106672	50.0000	53.5
11 Acetone	43	1.721	1.721	(0.414)	115745	250.000	206
12 Iodomethane	142	1.789	1.789	(0.430)	140266	100.000	59.2
13 Carbon Disulfide	76	1.825	1.825	(0.439)	760681	100.000	120
14 allyl chloride	41	1.882	1.882	(0.452)	320928	100.000	114
145 Acetonitrile	41	1.205	1.205	(0.290)	609	1000.00	718
138 Methyl Acetate	43	1.887	1.887	(0.454)	80440	50.0000	45.4
15 Methylene Chloride	84	1.949	1.949	(0.468)	119421	50.0000	51.0
16 Acrylonitrile	53	2.088	2.088	(0.502)	720666	1000.00	878
19 Methyl-tert-butyl ether	73	2.114	2.114	(0.508)	566759	100.000	98.7
18 1,2-Dichloroethene (trans)	96	2.114	2.114	(0.508)	114458	50.0000	49.2

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
20 n-Hexane	57	2.290	2.290	(0.550)	139586	50.0000	52.5
21 1,1-Dichloroethane	63	2.393	2.393	(0.575)	213793	50.0000	47.7
23 Vinyl Acetate	43	2.424	2.424	(0.583)	871815	200.000	183
140 Ethyl acetate	88	2.460	2.460	(0.591)	108958	500.000	495
147 Chloroprene	53	2.460	2.460	(0.591)	162614	50.0000	48.3
24 2,2-Dichloropropane	77	2.858	2.858	(0.687)	180971	50.0000	55.2
25 1,2-Dichloroethene (cis)	96	2.858	2.858	(0.687)	143889	50.0000	49.7
26 2-Butanone	43	2.874	2.874	(0.691)	225622	250.000	198
27 Propionitrile	54	2.926	2.926	(0.703)	14005	50.0000	38.7
29 Bromochloromethane	49	3.081	3.081	(0.740)	105986	50.0000	66.4
146 Methacrylonitrile	41	3.070	3.070	(0.738)	77174	250.000	291
31 Chloroform	83	3.163	3.163	(0.760)	204441	50.0000	48.4
$ 32 Dibromofluoromethane (S)	113	3.334	3.334	(0.801)	113457	50.0000	50.5
33 1,1,1-Trichloroethane	97	3.360	3.360	(0.807)	189778	50.0000	50.3
30 Tetrahydrofuran	42	3.143	3.143	(0.755)	31920	50.0000	40.7
34 cyclohexane	56	3.427	3.427	(0.824)	190312	50.0000	52.1
37 Isobutyl alcohol	43	2.874	2.874	(0.691)	225622	50.0000	39.7
35 Carbon Tetrachloride	117	3.551	3.551	(0.853)	170496	50.0000	49.6
36 1,1-Dichloropropene	75	3.551	3.551	(0.853)	159967	50.0000	50.1
38 Benzene	78	3.794	3.794	(0.912)	441173	50.0000	48.0
141 isopropyl acetate	61	3.722	3.722	(0.894)	1113	250.000	8.69
39 1,2-Dichloroethane	62	3.820	3.820	(0.918)	136118	50.0000	49.5
* 40 Fluorobenzene	96	4.161	4.161	(1.000)	366735	50.0000	
41 Trichloroethene	95	4.611	4.611	(1.108)	128033	50.0000	50.8
139 Methylcyclohexane	55	4.828	4.828	(1.160)	141225	50.0000	53.9
42 1,2-Dichloropropane	63	4.869	4.869	(1.170)	108211	50.0000	50.9
43 Dibromomethane	93	5.003	5.003	(1.202)	75333	50.0000	47.3
44 Methyl methacrylate	69	5.060	5.060	(1.216)	77977	50.0000	43.6
143 2,2,4-Trimethylpentane	57	3.923	3.923	(0.943)	284517	50.0000	52.5
144 1,4-Dioxane	88	5.065	5.065	(1.217)	671	1000.00	501
45 Bromodichloromethane	83	5.200	5.200	(1.250)	153023	50.0000	49.8
46 2-Chloroethyl vinyl ether	63	5.577	5.577	(0.755)	146355	50.0000	43.8
47 cis-1,3-Dichloropropene	75	5.717	5.717	(0.773)	182326	50.0000	50.4
48 4-Methyl-2-Pentanone	43	5.908	5.908	(0.799)	443718	250.000	195
$ 49 Toluene-d8	98	5.996	5.996	(0.811)	331681	50.0000	48.9
50 Toluene	91	6.068	6.068	(0.821)	448052	50.0000	45.5
51 trans-1,3-Dichloropropene	75	6.326	6.326	(0.856)	168833	50.0000	48.4
52 Ethyl Methacrylate	69	6.466	6.466	(0.875)	144634	50.0000	43.9
53 1,1,2-Trichloroethane	83	6.507	6.507	(0.880)	77239	50.0000	47.1
54 Tetrachloroethene	166	6.642	6.642	(0.899)	143950	50.0000	42.3
55 1,3-Dichloropropane	76	6.668	6.668	(0.902)	167567	50.0000	47.6
56 2-Hexanone	43	6.781	6.781	(0.917)	296873	250.000	207
57 Dibromochloromethane	129	6.880	6.880	(0.931)	127264	50.0000	47.3
58 1,2-Dibromoethane	107	6.967	6.967	(0.943)	119624	50.0000	44.8
* 59 Chlorobenzene-d5	117	7.391	7.391	(1.000)	322201	50.0000	
60 Chlorobenzene	112	7.412	7.412	(1.003)	308729	50.0000	45.3
61 1,1,1,2-Tetrachloroethane	131	7.489	7.489	(1.013)	116211	50.0000	47.6
62 Ethylbenzene	106	7.520	7.520	(1.017)	165976	50.0000	46.3
63 m&p-Xylene	106	7.619	7.619	(1.031)	416888	100.000	91.6
65 o-Xylene	106	7.929	7.929	(1.073)	206819	50.0000	46.6
66 Styrene	104	7.939	7.939	(1.074)	334785	50.0000	47.5
67 Bromoform	173	8.073	8.073	(0.884)	85310	50.0000	40.6
68 Isopropylbenzene	105	8.213	8.213	(1.111)	511582	50.0000	46.2
69 trans-1,4-Dichloro-2-butene	53	8.477	8.477	(1.147)	32574	50.0000	44.2

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
142 n-amyl acetate	70	8.316	8.316	(1.125)	745	250.000	13.9
$ 70 4-Bromofluorobenzene	95	8.322	8.322	(1.126)	143910	50.0000	50.4
71 Bromobenzene	77	8.420	8.420	(1.139)	206349	50.0000	59.2
72 1,1,2,2-Tetrachloroethane	83	8.435	8.435	(0.924)	111604	50.0000	40.9
73 1,2,3-Trichloropropane	75	8.461	8.461	(0.927)	131326	50.0000	41.2
74 n-Propylbenzene	91	8.513	8.513	(0.933)	501644	50.0000	46.1
75 2-Chlorotoluene	91	8.564	8.564	(0.938)	308835	50.0000	43.3
77 1,3,5-Trimethylbenzene	105	8.637	8.637	(0.946)	359920	50.0000	45.4
76 4-Chlorotoluene	126	8.570	8.570	(0.939)	109493	50.0000	45.8
78 tert-Butylbenzene	119	8.864	8.864	(0.971)	433026	50.0000	47.4
79 1,2,4-Trimethylbenzene	105	8.895	8.895	(0.975)	348591	50.0000	44.4
80 sec-Butylbenzene	105	9.009	9.009	(0.987)	458042	50.0000	46.0
81 1,3-Dichlorobenzene	146	9.081	9.081	(0.995)	203451	50.0000	44.9
83 p-Isopropyltoluene	119	9.107	9.107	(0.998)	373502	50.0000	46.7
* 82 1,4-Dichlorobenzene-d4	152	9.128	9.128	(1.000)	147283	50.0000	
84 1,4-Dichlorobenzene	146	9.143	9.143	(1.002)	207657	50.0000	44.2
86 n-Butylbenzene	91	9.376	9.376	(1.027)	285425	50.0000	47.5
85 1,2-Dichlorobenzene	146	9.386	9.386	(1.028)	191516	50.0000	45.6
87 1,2-Dibromo-3-chloropropane	155	9.877	9.877	(1.082)	19765	50.0000	37.5
88 1,2,4-Trichlorobenzene	180	10.389	10.389	(1.138)	113880	50.0000	43.1
89 Hexachlorobutadiene	225	10.487	10.487	(1.149)	41778	50.0000	42.3
90 Naphthalene	128	10.539	10.539	(1.155)	239852	50.0000	41.6
91 1,2,3-Trichlorobenzene	180	10.683	10.683	(1.170)	87982	50.0000	41.1
92 2,methyl-naphthalene	142	11.221	11.221	(1.229)	49604	50.0000	67.8

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A01CCV.D
Lab Smp Id: ccv 34A-052/082
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

Calibration Date: 29-JAN-2010
Calibration Time: 10:16
Client Smp ID: ccv
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	375175	187588	750350	366735	-2.25
59 Chlorobenzene-d5	311570	155785	623140	322201	3.41
82 1,4-Dichlorobenze	143655	71828	287310	147283	2.53

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.18	3.68	4.68	4.16	-0.41
59 Chlorobenzene-d5	7.40	6.90	7.90	7.39	-0.16
82 1,4-Dichlorobenze	9.14	8.64	9.64	9.13	-0.13

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV2.i Injection Date: 31-JAN-2010 13:12
Lab File ID: A01CCV.D Init. Cal. Date(s): 26-JAN-2010 26-JAN-2010
Analysis Type: WATER Init. Cal. Times: 12:58 16:56
Lab Sample ID: ccv 34A-052/082 Quant Type: ISTD
Method: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 Dichlorodifluoromethane	50.00000	34.00878	0.37750	0.000	-31.98243	0.000e+000	Linear	
2 Chloromethane	0.44136	0.34672	0.34672	0.000	-21.44325	20.00000	Averaged	<-
3 Vinyl Chloride	50.00000	45.11777	0.42184	0.000	-9.76445	0.000e+000	Linear	
4 Bromomethane	50.00000	49.28245	0.12143	0.000	-1.43509	0.000e+000	Linear	
5 Chloroethane	50.00000	46.63340	0.25004	0.000	-6.73319	0.000e+000	Linear	
6 Trichlorofluoromethane	50.00000	48.64134	0.49045	0.000	-2.71732	0.000e+000	Linear	
28 1,2-dichlorotrifluoroethane	50.00000	55.38389	0.49065	0.000	10.76778	0.000e+000	Linear	
7 Diethyl ether	50.00000	51.56904	0.18764	0.000	3.13808	0.000e+000	Linear	
17 tert-Butyl Alcohol	100	74.83548	0.02861	0.000	-25.16452	0.000e+000	Linear	
8 Acrolein	0.03395	0.03188	0.03188	0.000	-6.11465	20.00000	Averaged	
10 1,1,2trichlorotrifluoroetha	50.00000	54.13347	0.34304	0.000	8.26693	0.000e+000	Linear	
9 1,1-Dichloroethene	50.00000	53.50830	0.29087	0.000	7.01661	0.000e+000	Linear	
11 Acetone	250	206	0.06312	0.000	-17.79998	0.000e+000	Linear	
12 Iodomethane	100	59.24967	0.19124	0.000	-40.75033	0.000e+000	Quadratic	
13 Carbon Disulfide	0.86731	1.03710	1.03710	0.000	19.57681	20.00000	Averaged	
14 allyl chloride	100	115	0.43755	0.000	14.57991	0.000e+000	Linear	
145 Acetonitrile	0.00012	0.00008	0.00008	0.000	-28.23173	20.00000	Averaged	<-
138 Methyl Acetate	50.00000	45.40270	0.21934	0.000	-9.19461	0.000e+000	Linear	
15 Methylene Chloride	50.00000	50.95075	0.32563	0.000	1.90151	0.000e+000	Linear	
16 Acrylonitrile	1000	879	0.09825	0.000	-12.14407	0.000e+000	Linear	
19 Methyl-tert-butyl ether	100	98.73032	0.77271	0.000	-1.26968	0.000e+000	Linear	
18 1,2-Dichloroethene (trans)	50.00000	49.24833	0.31210	0.000	-1.50333	0.000e+000	Linear	
20 n-Hexane	0.36219	0.38062	0.38062	0.000	5.08831	20.00000	Averaged	
21 1,1-Dichloroethane	0.61090	0.58296	0.58296	0.000	-4.57286	20.00000	Averaged	
23 Vinyl Acetate	0.64859	0.59431	0.59431	0.000	-8.36891	20.00000	Averaged	
140 Ethyl acetate	500	495	0.02971	0.000	-1.01895	0.000e+000	Linear	
147 Chloroprene	0.45921	0.44341	0.44341	0.000	-3.44031	20.00000	Averaged	
24 2,2-Dichloropropane	0.44654	0.49347	0.49347	0.000	10.50988	20.00000	Averaged	
25 1,2-Dichloroethene (cis)	50.00000	49.74611	0.39235	0.000	-0.50777	0.000e+000	Linear	
26 2-Butanone	0.15498	0.12304	0.12304	0.000	-20.60805	20.00000	Averaged	<-
27 Propionitrile	50.00000	38.66692	0.03819	0.000	-22.66616	0.000e+000	Linear	
29 Bromochloromethane	50.00000	66.37581	0.28900	0.000	32.75163	0.000e+000	Linear	
146 Methacrylonitrile	250	291	0.04209	0.000	16.50996	0.000e+000	Linear	
31 Chloroform	0.57587	0.55746	0.55746	0.000	-3.19677	20.00000	Averaged	
$ 32 Dibromofluoromethane (S)	0.30619	0.30937	0.30937	0.000	1.03824	20.00000	Averaged	
33 1,1,1-Trichloroethane	50.00000	50.28500	0.51748	0.000	0.57000	0.000e+000	Linear	
30 Tetrahydrofuran	50.00000	40.68918	0.08704	0.000	-18.62164	0.000e+000	Linear	
34 cyclohexane	50.00000	52.14797	0.51894	0.000	4.29594	0.000e+000	Linear	
37 Isobutyl alcohol	0.77491	0.61522	0.61522	0.000	-20.60805	20.00000	Averaged	<-
35 Carbon Tetrachloride	0.46894	0.46490	0.46490	0.000	-0.86053	20.00000	Averaged	
36 1,1-Dichloropropene	0.43502	0.43619	0.43619	0.000	0.26956	20.00000	Averaged	
38 Benzene	1.25414	1.20297	1.20297	0.000	-4.07978	20.00000	Averaged	

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV2.i Injection Date: 31-JAN-2010 13:12
Lab File ID: A01CCV.D Init. Cal. Date(s): 26-JAN-2010 26-JAN-2010
Analysis Type: WATER Init. Cal. Times: 12:58 16:56
Lab Sample ID: ccv 34A-052/082 Quant Type: ISTD
Method: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
141 isopropyl acetate	0.01746	0.00061	0.00061	0.000	-96.52265	20.00000	Averaged	<-
39 1,2-Dichloroethane	50.00000	49.51223	0.37116	0.000	-0.97554	0.000e+000	Linear	
41 Trichloroethene	50.00000	50.82803	0.34912	0.000	1.65605	0.000e+000	Linear	
139 Methylcyclohexane	50.00000	53.93152	0.38509	0.000	7.86304	0.000e+000	Linear	
42 1,2-Dichloropropane	50.00000	50.89832	0.29507	0.000	1.79663	0.000e+000	Wt Linear	
43 Dibromomethane	50.00000	47.26983	0.20542	0.000	-5.46034	0.000e+000	Linear	
44 Methyl methacrylate	50.00000	43.65430	0.21262	0.000	-12.69139	0.000e+000	Linear	
143 2,2,4-Trimethylpentane	0.73883	0.77581	0.77581	0.000	5.00468	20.00000	Averaged	
144 1,4-Dioxane	0.00018	0.00009	0.00009	0.000	-49.86664	20.00000	Averaged	<-
45 Bromodichloromethane	50.00000	49.82150	0.41726	0.000	-0.35700	0.000e+000	Linear	
46 2-Chloroethyl vinyl ether	50.00000	43.82416	0.45424	0.000	-12.35167	0.000e+000	Linear	
47 cis-1,3-Dichloropropene	50.00000	50.37986	0.56588	0.000	0.75972	0.000e+000	Linear	
48 4-Methyl-2-Pentanone	0.35227	0.27543	0.27543	0.000	-21.81337	20.00000	Averaged	<-
$ 49 Toluene-d8	1.05250	1.02942	1.02942	0.000	-2.19278	20.00000	Averaged	
50 Toluene	1.52935	1.39060	1.39060	0.000	-9.07271	20.00000	Averaged	
51 trans-1,3-Dichloropropene	50.00000	48.35234	0.52400	0.000	-3.29531	0.000e+000	Linear	
52 Ethyl Methacrylate	50.00000	43.93528	0.44889	0.000	-12.12945	0.000e+000	Linear	
53 1,1,2-Trichloroethane	50.00000	47.09799	0.23972	0.000	-5.80401	0.000e+000	Linear	
54 Tetrachloroethene	50.00000	42.26297	0.44677	0.000	-15.47407	0.000e+000	Linear	
55 1,3-Dichloropropane	50.00000	47.59102	0.52007	0.000	-4.81797	0.000e+000	Linear	
56 2-Hexanone	250	207	0.18428	0.000	-17.07501	0.000e+000	Linear	
57 Dibromochloromethane	0.41715	0.39498	0.39498	0.000	-5.31405	20.00000	Averaged	
58 1,2-Dibromoethane	50.00000	44.81530	0.37127	0.000	-10.36939	0.000e+000	Linear	
60 Chlorobenzene	1.05673	0.95819	0.95819	0.000	-9.32480	20.00000	Averaged	
61 1,1,1,2-Tetrachloroethane	0.37886	0.36068	0.36068	0.000	-4.80003	20.00000	Averaged	
62 Ethylbenzene	0.55572	0.51513	0.51513	0.000	-7.30379	20.00000	Averaged	
63 m&p-Xylene	0.70640	0.64694	0.64694	0.000	-8.41763	20.00000	Averaged	
65 o-Xylene	0.68865	0.64189	0.64189	0.000	-6.78948	20.00000	Averaged	
66 Styrene	1.09458	1.03906	1.03906	0.000	-5.07292	20.00000	Averaged	
67 Bromoform	50.00000	40.59284	0.57923	0.000	-18.81433	0.000e+000	Linear	
68 Isopropylbenzene	1.71634	1.58777	1.58777	0.000	-7.49083	20.00000	Averaged	
69 trans-1,4-Dichloro-2-butene	50.00000	44.24375	0.10110	0.000	-11.51250	0.000e+000	Linear	
142 n-amyl acetate	0.00834	0.00046	0.00046	0.000	-94.45453	20.00000	Averaged	<-
$ 70 4-Bromofluorobenzene	0.44264	0.44665	0.44665	0.000	0.90527	20.00000	Averaged	
71 Bromobenzene	50.00000	59.16808	0.64044	0.000	18.33615	0.000e+000	Linear	
72 1,1,2,2-Tetrachloroethane	0.92693	0.75775	0.75775	0.000	-18.25149	20.00000	Averaged	
73 1,2,3-Trichloropropane	1.08177	0.89166	0.89166	0.000	-17.57454	20.00000	Averaged	
74 n-Propylbenzene	3.69097	3.40599	3.40599	0.000	-7.72110	20.00000	Averaged	
75 2-Chlorotoluene	2.42129	2.09688	2.09688	0.000	-13.39817	20.00000	Averaged	
77 1,3,5-Trimethylbenzene	2.68992	2.44373	2.44373	0.000	-9.15236	20.00000	Averaged	
76 4-Chlorotoluene	50.00000	45.77765	0.74342	0.000	-8.44469	0.000e+000	Linear	
78 tert-Butylbenzene	3.09804	2.94009	2.94009	0.000	-5.09815	20.00000	Averaged	
79 1,2,4-Trimethylbenzene	2.66407	2.36681	2.36681	0.000	-11.15806	20.00000	Averaged	

Pace Analytical Services, Inc.

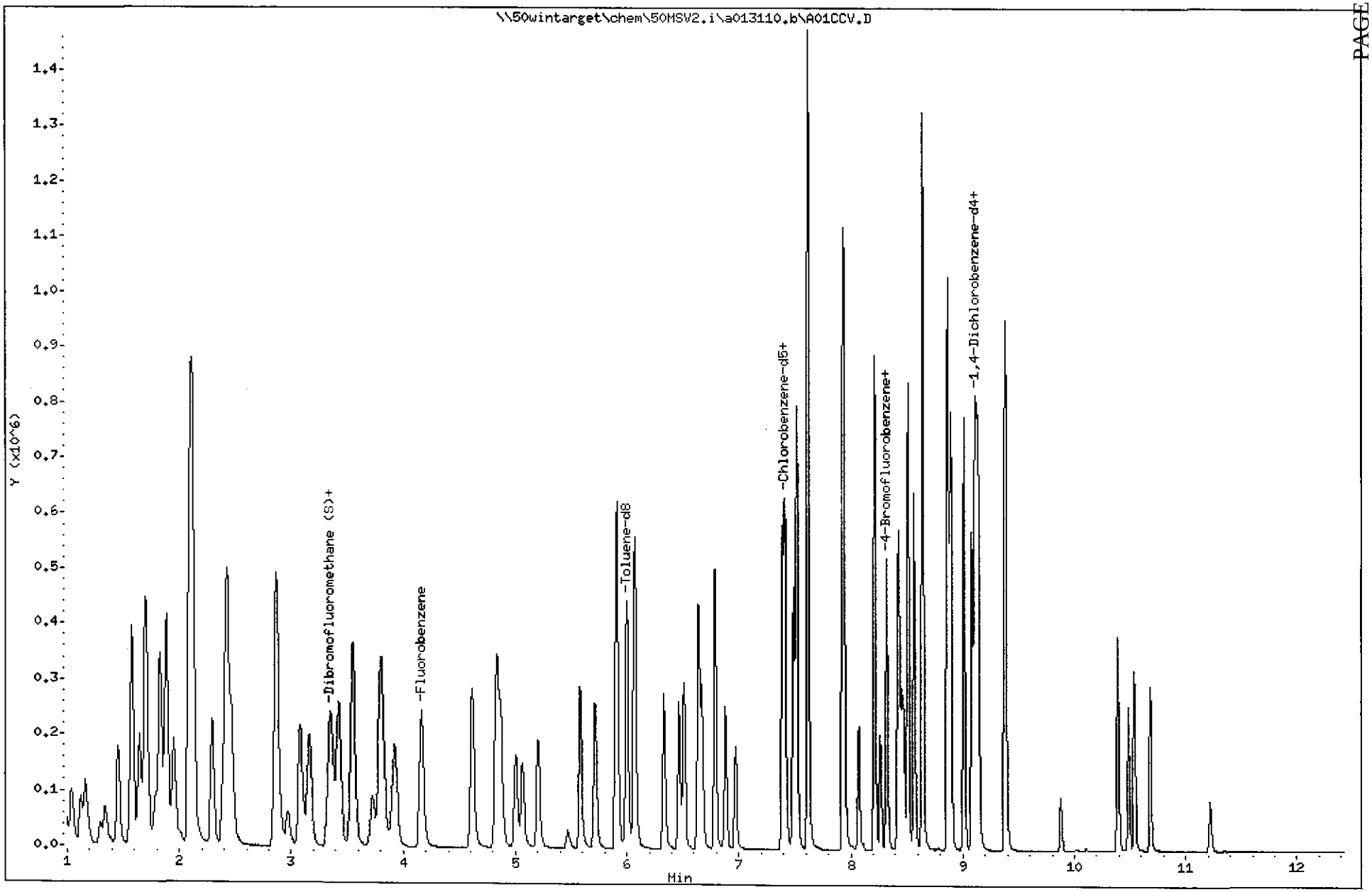
CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV2.i Injection Date: 31-JAN-2010 13:12
Lab File ID: A01CCV.D Init. Cal. Date(s): 26-JAN-2010 26-JAN-2010
Analysis Type: WATER Init. Cal. Times: 12:58 16:56
Lab Sample ID: ccv 34A-052/082 Quant Type: ISTD
Method: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
80 sec-Butylbenzene	3.37991	3.10994	3.10994	0.000	-7.98739	20.00000	Averaged
81 1,3-Dichlorobenzene	1.53724	1.38136	1.38136	0.000	-10.14023	20.00000	Averaged
83 p-Isopropyltoluene	2.71269	2.53595	2.53595	0.000	-6.51534	20.00000	Averaged
84 1,4-Dichlorobenzene	1.59513	1.40992	1.40992	0.000	-11.61117	20.00000	Averaged
86 n-Butylbenzene	50.00000	47.48816	1.93794	0.000	-5.02369	0.000e+000	Linear
85 1,2-Dichlorobenzene	1.42467	1.30033	1.30033	0.000	-8.72812	20.00000	Averaged
87 1,2-Dibromo-3-chloropropane	50.00000	37.46461	0.13420	0.000	-25.07077	0.000e+000	Linear
88 1,2,4-Trichlorobenzene	50.00000	43.11411	0.77321	0.000	-13.77178	0.000e+000	Linear
89 Hexachlorobutadiene	50.00000	42.27342	0.28366	0.000	-15.45315	0.000e+000	Linear
90 Naphthalene	50.00000	41.63083	1.62851	0.000	-16.73833	0.000e+000	Linear
91 1,2,3-Trichlorobenzene	50.00000	41.07532	0.59737	0.000	-17.84937	0.000e+000	Linear
92 2,methyl-naphthalene	50.00000	67.85637	0.33679	0.000	35.71274	0.000e+000	Linear

Data File: \\50wintarget\chem\50MSV2.i\a013110.b\A01CCV.D
Date : 31-JAN-2010 13:12
Client ID: ccv
Sample Info: ccv 34A-052/082
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: A020110.B

Lab File ID: A00BFB BFB Injection Date: 02/01/10

Instrument ID: 50MSV2 BFB Injection Time: 0954

GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.4
75	30.0 - 60.0% of mass 95	42.3
95	Base Peak, 100% relative abundance	100.0
95	100.0 - 100.0% of mass 95	100.0
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	78.4
175	5.0 - 9.0% of mass 174	5.9 (7.5)1
176	95.0 - 101.0% of mass 174	78.1 (99.7)1
177	5.0 - 9.0% of mass 176	5.6 (7.1)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		393783	A02LCS	02/01/10	1102
02	CCV	LCS 34A-054	A02LCS-CCV	02/01/10	1102
03	MB	393782	A03MB	02/01/10	1136
04	5034314001	5034314001	A04	02/01/10	1210
05	5034229002	5034229002	A05	02/01/10	1244
06	5034229003	5034229003	A06	02/01/10	1318
07	MS5034229003	393784	A07	02/01/10	1353
08	MSD503422900	393785	A08	02/01/10	1427
09	5034231001	5034231001	A09	02/01/10	1500
10	5034231002	5034231002	A10	02/01/10	1535
11	5034231003	5034231003	A11	02/01/10	1609
12	5034231004	5034231004	A12	02/01/10	1643
13	5034231005	5034231005	A13	02/01/10	1716
14	5034231006	5034231006	A14	02/01/10	1750
15	5034229001	5034229001	A15	02/01/10	1824
16	5034229005	5034229005	A16	02/01/10	1857
17	5034266001	5034266001	A17	02/01/10	1932
18	5034266002	5034266002	A18	02/01/10	2006
19	5034266003	5034266003	A19	02/01/10	2040
20	5034305017	5034305017	A20	02/01/10	2114
21		FILL	A21	02/01/10	2147
22					

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: A020110.B

Instrument ID: 50MSV2 Calibration Date: 02/01/10 Time: 1102

Lab File ID: A02LCS-CCV Init. Calib. Date(s): 01/26/10 01/26/10

Heated Purge: (Y/N) N Init. Calib. Times: 1258 1656

GC Column: DB-624 ID: 0.18 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d	
Bromochloromethane	65.4	50.0	LINR	-30.8	20.0	<-
Chloromethane	47.0	50.0	AVRG	6.0	20.0	
Bromomethane	63.2	50.0	LINR	-26.4	20.0	<-
Vinyl Chloride	55.1	50.0	LINR	-10.2	20.0	
Chloroethane	54.3	50.0	LINR	-8.6	20.0	
Methylene Chloride	47.4	50.0	LINR	5.2	20.0	
1,1-Dichloroethene	57.3	50.0	LINR	-14.6	20.0	
1,1-Dichloroethane	46.0	50.0	AVRG	8.0	20.0	
1,2-Dichloroethene (trans)	54.0	50.0	LINR	-8.0	20.0	
Chloroform	51.5	50.0	AVRG	-3.0	20.0	
1,2-Dichloroethane	56.8	50.0	LINR	-13.6	20.0	
1,1,1-Trichloroethane	52.0	50.0	LINR	-4.0	20.0	
Carbon Tetrachloride	50.4	50.0	AVRG	-0.8	20.0	
Bromodichloromethane	54.4	50.0	LINR	-8.8	20.0	
1,2-Dichloropropane	54.5	50.0	WLINR	-9.0	20.0	
trans-1,3-Dichloropropene	48.8	50.0	LINR	2.4	20.0	
Trichloroethene	54.8	50.0	LINR	-9.6	20.0	
Dibromochloromethane	51.6	50.0	AVRG	-3.2	20.0	
1,1,2-Trichloroethane	52.5	50.0	LINR	-5.0	20.0	
Benzene	51.3	50.0	AVRG	-2.6	20.0	
cis-1,3-Dichloropropene	52.9	50.0	LINR	-5.8	20.0	
Bromoform	44.7	50.0	LINR	10.6	20.0	
Tetrachloroethene	42.7	50.0	LINR	14.6	20.0	
1,1,2,2-Tetrachloroethane	48.7	50.0	AVRG	2.6	20.0	
Toluene	47.3	50.0	AVRG	5.4	20.0	
Chlorobenzene	46.4	50.0	AVRG	7.2	20.0	
Ethylbenzene	48.1	50.0	AVRG	3.8	20.0	
Styrene	49.1	50.0	AVRG	1.8	20.0	
Trichlorofluoromethane	54.2	50.0	LINR	-8.4	20.0	
m&p-Xylene	95.0	100	AVRG	5.0	20.0	
1,2-Dichloroethene (cis)	51.6	50.0	LINR	-3.2	20.0	
o-Xylene	48.7	50.0	AVRG	2.6	20.0	
1,2,3-Trichloropropane	93.5	50.0	AVRG	-87.0	20.0	<-
1,3-Dichlorobenzene	47.1	50.0	AVRG	5.8	20.0	
1,4-Dichlorobenzene	46.1	50.0	AVRG	7.8	20.0	
Dibromomethane	50.8	50.0	LINR	-1.6	20.0	
1,2-Dichlorobenzene	48.7	50.0	AVRG	2.6	20.0	

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: A020110.B

Instrument ID: 50MSV2 Calibration Date: 02/01/10 Time: 1102

Lab File ID: A02LCS-CCV Init. Calib. Date(s): 01/26/10 01/26/10

Heated Purge: (Y/N) N Init. Calib. Times: 1258 1656

GC Column: DB-624 ID: 0.18 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d	
Dichlorodifluoromethane	59.6	50.0	LINR	-19.2	20.0	
2,2-Dichloropropane	55.1	50.0	AVRG	-10.2	20.0	
1,1-Dichloropropene	54.5	50.0	AVRG	-9.0	20.0	
1,3-Dichloropropane	51.2	50.0	LINR	-2.4	20.0	
1,2-Dibromoethane	49.8	50.0	LINR	0.4	20.0	
1,1,1,2-Tetrachloroethane	49.8	50.0	AVRG	0.4	20.0	
Isopropylbenzene	46.4	50.0	AVRG	7.2	20.0	
Bromobenzene	48.8	50.0	LINR	2.4	20.0	
n-Propylbenzene	47.2	50.0	AVRG	5.6	20.0	
2-Chlorotoluene	44.4	50.0	AVRG	11.2	20.0	
4-Chlorotoluene	46.9	50.0	LINR	6.2	20.0	
1,3,5-Trimethylbenzene	47.0	50.0	AVRG	6.0	20.0	
tert-Butylbenzene	42.1	50.0	AVRG	15.8	20.0	
1,2,4-Trimethylbenzene	46.5	50.0	AVRG	7.0	20.0	
sec-Butylbenzene	47.8	50.0	AVRG	4.4	20.0	
p-Isopropyltoluene	48.0	50.0	AVRG	4.0	20.0	
n-Butylbenzene	49.8	50.0	LINR	0.4	20.0	
1,2-Dibromo-3-chloropropane	44.9	50.0	LINR	10.2	20.0	
1,2,4-Trichlorobenzene	45.5	50.0	LINR	9.0	20.0	
Hexachlorobutadiene	47.0	50.0	LINR	6.0	20.0	
Naphthalene	47.4	50.0	LINR	5.2	20.0	
1,2,3-Trichlorobenzene	46.8	50.0	LINR	6.4	20.0	
Acrolein	2350	1000	AVRG	-99.9	20.0	<-
Carbon Disulfide	138	100	AVRG	-38.0	20.0	<-
Acetone	337	250	LINR	-34.8	20.0	<-
Acrylonitrile	1100	1000	LINR	-10.0	20.0	
Vinyl Acetate	204	200	AVRG	-2.0	20.0	
2-Butanone	274	250	AVRG	-9.6	20.0	
2-Chloroethyl vinyl ether	9.55	50.0	LINR	80.9	20.0	<-
4-Methyl-2-Pentanone	237	250	AVRG	5.2	20.0	
2-Hexanone	275	250	LINR	-10.0	20.0	
Methyl-tert-butyl ether	107	100	LINR	-7.0	20.0	
Iodomethane	51.1	100	2ORDR	48.9	20.0	<-
trans-1,4-Dichloro-2-butene	193	50.0	LINR	-99.9	20.0	<-
Ethyl Methacrylate	51.8	50.0	LINR	-3.6	20.0	
2,methyl-naphthalene	65.7	50.0	LINR	-31.4	20.0	<-
n-Hexane	63.9	50.0	AVRG	-27.8	20.0	<-

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: A020110.B

Instrument ID: 50MSV2 Calibration Date: 02/01/10 Time: 1102

Lab File ID: A02LCS-CCV Init. Calib. Date(s): 01/26/10 01/26/10

Heated Purge: (Y/N) N Init. Calib. Times: 1258 1656

GC Column: DB-624 ID: 0.18 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d	
cyclohexane	55.5	50.0	LINR	-11.0	20.0	
1,1,2trichlorotrifluoroethan	60.8	50.0	LINR	-21.6	20.0	<-
1,2-dichlorotrifluoroethane	55.8	50.0	LINR	-11.6	20.0	
Tetrahydrofuran	51.7	50.0	LINR	-3.4	20.0	
allyl chloride	112	100	LINR	-12.0	20.0	
Diethyl ether	52.2	50.0	LINR	-4.4	20.0	
Isobutyl alcohol	54.8	50.0	AVRG	-9.6	20.0	
Methyl methacrylate	52.3	50.0	LINR	-4.6	20.0	
Propionitrile	45.5	50.0	LINR	9.0	20.0	
tert-Butyl Alcohol	0.000	100	LINR	100.0	20.0	<-
Methyl Acetate	66.2	50.0	LINR	-32.4	20.0	<-
Methylcyclohexane	55.4	50.0	LINR	-10.8	20.0	
Ethyl acetate	531	500	LINR	-6.2	20.0	
isopropyl acetate	5.75	250	AVRG	97.7	20.0	<-
n-amyl acetate	21.1	250	AVRG	91.6	20.0	<-
2,2,4-Trimethylpentane	53.0	50.0	AVRG	-6.0	20.0	
1,4-Dioxane	23900	1000	AVRG	-99.9	20.0	<-
Acetonitrile	0.000	1000	AVRG	100.0	20.0	<-
Methacrylonitrile	363	250	LINR	-45.2	20.0	<-
Chloroprene	50.7	50.0	AVRG	-1.4	20.0	
Toluene-d8	47.1	50.0	AVRG	5.8	20.0	
4-Bromofluorobenzene	51.0	50.0	AVRG	-2.0	20.0	
Dibromofluoromethane (S)	50.4	50.0	AVRG	-0.8	20.0	

Data File: \\50wintarget\chem\50MSV2.i\a020110.b\A00BFB.D

Date : 01-FEB-2010 09:54

Client ID: bfb050

Instrument: 50MSV2.i

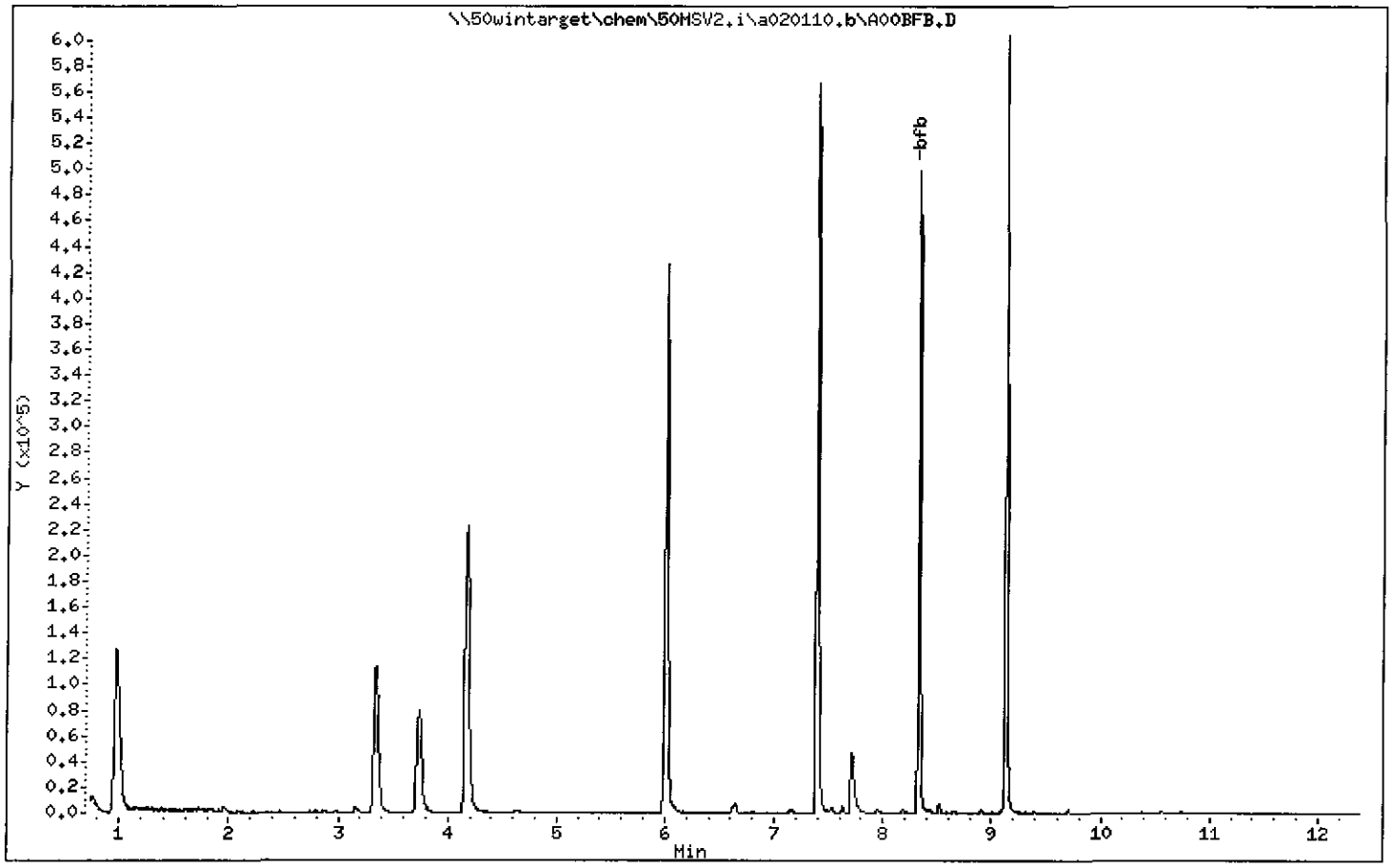
Sample Info: bfb 34A-095

Volume Injected (uL): 5.0

Operator: jlf

Column phase: DB-624

Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV2.i\a020110.b\A00BFB.D

Date : 01-FEB-2010 09:54

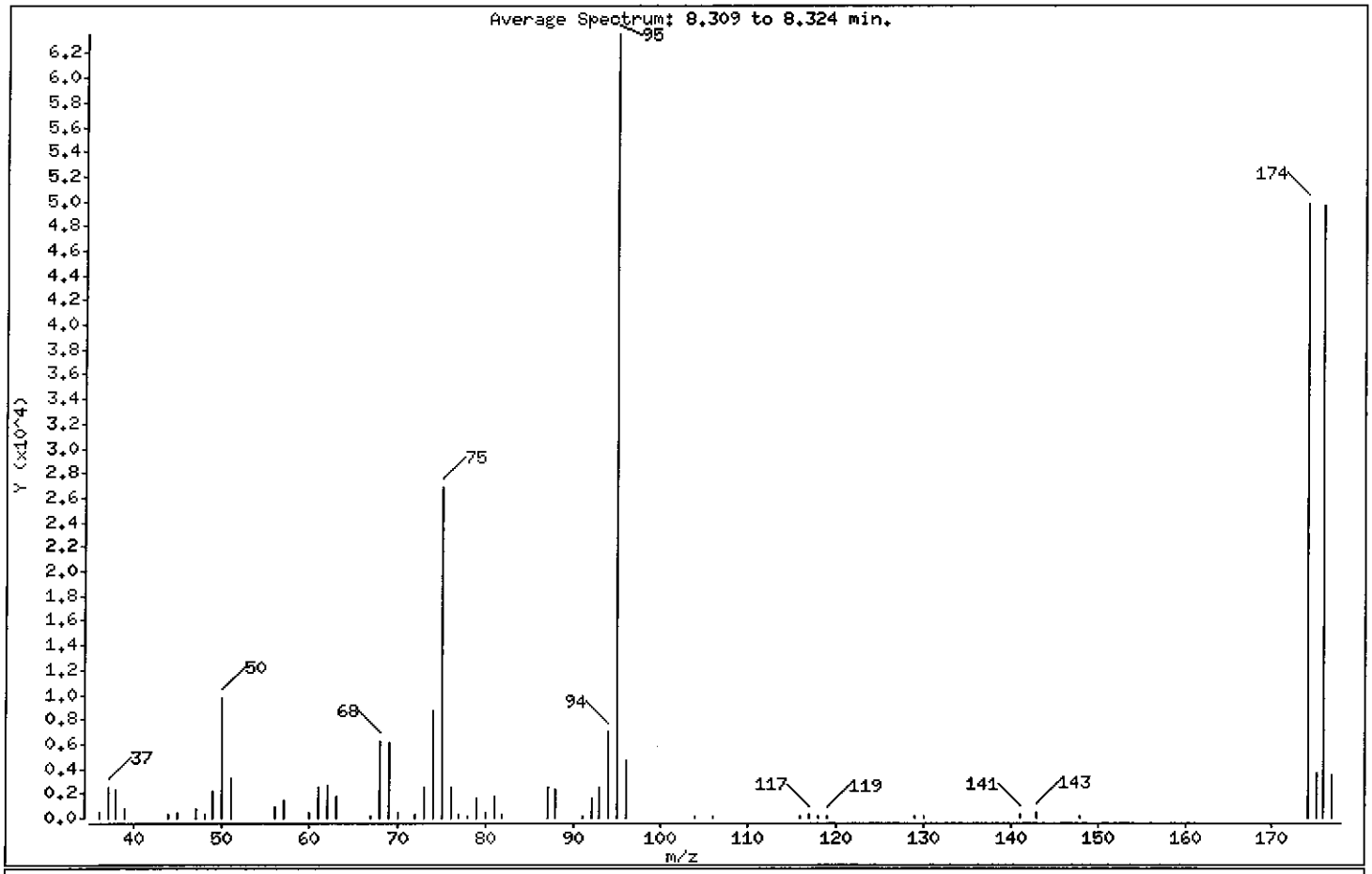
Client ID: bfb050 Instrument: 50MSV2.i

Sample Info: bfb 34A-095

Volume Injected (uL): 5.0 Operator: jlf

Column phase: DB-624 Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.41
75	30.00 - 60.00% of mass 95	42.34
96	5.00 - 9.00% of mass 95	7.25
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	78.41
175	5.00 - 9.00% of mass 174	5.86 (7.47)
176	95.00 - 101.00% of mass 174	78.15 (99.67)
177	5.00 - 9.00% of mass 176	5.58 (7.14)
95	100.00 - 100.00% of mass 95	100.00

Data File: \\50wintarget\chem\50MSV2.i\a020110.b\A00BFB.D

Date : 01-FEB-2010 09:54

Client ID: bfb050 Instrument: 50MSV2.i

Sample Info: bfb 34A-095

Volume Injected (uL): 5.0 Operator: jlf

Column phase: DB-624 Column diameter: 0.18

Data File: A00BFB.D
Spectrum: Average Spectrum: 8.309 to 8.324 min.
Location of Maximum: 95.00
Number of points: 55

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	492	61.00	2492	79.00	1582	116.00	91
37.00	2527	62.00	2636	80.00	407	117.00	302
38.00	2265	63.00	1818	81.00	1736	118.00	122
39.00	732	67.00	100	82.00	249	119.00	207
44.00	336	68.00	6317	87.00	2492	129.00	89
45.00	485	69.00	6129	88.00	2393	130.00	107
47.00	690	70.00	508	91.00	92	141.00	351
48.00	297	72.00	312	92.00	1550	143.00	376
49.00	2121	73.00	2415	93.00	2415	148.00	91
50.00	9789	74.00	8741	94.00	6955	174.00	49808
51.00	3176	75.00	26896	95.00	63528	175.00	3720
56.00	834	76.00	2421	96.00	4606	176.00	49648
57.00	1528	77.00	230	104.00	218	177.00	3547
60.00	419	78.00	104	106.00	110		

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a020110.b\A02LCS-CCV.D
Lab Smp Id: lcs 34A-054 Client Smp ID: ccv
Inj Date : 01-FEB-2010 11:02
Operator : jlf Inst ID: 50MSV2.i
Smp Info : lcs 34A-054
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a020110.b\-8260-c1.m
Meth Date : 02-Feb-2010 13:22 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 50-VOA-JLF

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	1.041	1.042	(0.250)	217974	50.0000	59.6
2 Chloromethane	50	1.129	1.135	(0.272)	143523	50.0000	47.0
3 Vinyl Chloride	62	1.165	1.166	(0.280)	176108	50.0000	55.1
4 Bromomethane	94	1.304	1.296	(0.314)	52578	50.0000	63.2
5 Chloroethane	64	1.341	1.342	(0.323)	100669	50.0000	54.3
6 Trichlorofluoromethane	101	1.454	1.456	(0.350)	188694	50.0000	54.2
28 1,2-dichlorotrifluoroethane	67	1.573	1.575	(0.378)	171020	50.0000	55.8
7 Diethyl ether	74	1.584	1.585	(0.381)	65651	50.0000	52.2
8 Acrolein	56	1.646	1.647	(0.396)	552537	1000.00	2350
10 1,1,2trichlorotrifluoroethane	101	1.692	1.699	(0.407)	131764	50.0000	60.8
9 1,1-Dichloroethene	96	1.702	1.704	(0.410)	107087	50.0000	57.3
11 Acetone	43	1.718	1.725	(0.413)	173167	250.000	337
12 Iodomethane	142	1.790	1.792	(0.431)	114642	100.000	51.1
13 Carbon Disulfide	76	1.832	1.833	(0.441)	826055	100.000	138
14 allyl chloride	41	1.883	1.885	(0.453)	297096	100.000	112
138 Methyl Acetate	43	1.889	1.895	(0.454)	108711	50.0000	66.2
15 Methylene Chloride	84	1.951	1.957	(0.469)	105383	50.0000	47.4
16 Acrylonitrile	53	2.090	2.097	(0.503)	833915	1000.00	1100
19 Methyl-tert-butyl ether	73	2.121	2.122	(0.510)	575289	100.000	107
18 1,2-Dichloroethene (trans)	96	2.116	2.122	(0.509)	118023	50.0000	54.0
20 n-Hexane	57	2.297	2.298	(0.552)	160121	50.0000	63.9
21 1,1-Dichloroethane	63	2.400	2.402	(0.577)	194435	50.0000	46.0

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	23 Vinyl Acetate	43	2.426	2.433	(0.584)	913768	200.000	204
	140 Ethyl acetate	88	2.462	2.474	(0.592)	109952	500.000	531
	147 Chloroprene	53	2.467	2.469	(0.594)	161219	50.0000	50.7
	24 2,2-Dichloropropane	77	2.860	2.872	(0.688)	170117	50.0000	55.1
	25 1,2-Dichloroethene (cis)	96	2.860	2.867	(0.688)	140612	50.0000	51.6
	26 2-Butanone	43	2.876	2.882	(0.692)	294089	250.000	274
	27 Propionitrile	54	2.927	2.944	(0.704)	15795	50.0000	45.5
	29 Bromochloromethane	49	3.088	3.084	(0.743)	98533	50.0000	65.4
	146 Methacrylonitrile	41	3.067	3.079	(0.738)	90537	250.000	363
	31 Chloroform	83	3.165	3.172	(0.761)	205078	50.0000	51.5
$	32 Dibromofluoromethane (S)	113	3.336	3.342	(0.802)	106776	50.0000	50.4
	33 1,1,1-Trichloroethane	97	3.362	3.368	(0.809)	184698	50.0000	52.0
	30 Tetrahydrofuran	42	3.139	3.151	(0.755)	36924	50.0000	51.7
	34 cyclohexane	56	3.429	3.430	(0.825)	190471	50.0000	55.5
	37 Isobutyl alcohol	43	2.876	2.882	(0.692)	294089	50.0000	54.8
	35 Carbon Tetrachloride	117	3.548	3.554	(0.853)	163373	50.0000	50.4
	36 1,1-Dichloropropene	75	3.548	3.559	(0.853)	164065	50.0000	54.5
	38 Benzene	78	3.796	3.807	(0.913)	445333	50.0000	51.3
	141 isopropyl acetate	61	3.729	3.730	(0.897)	695	250.000	5.75
	39 1,2-Dichloroethane	62	3.822	3.828	(0.919)	146197	50.0000	56.8
*	40 Fluorobenzene	96	4.157	4.169	(1.000)	345945	50.0000	
	41 Trichloroethene	95	4.612	4.619	(1.109)	129868	50.0000	54.8
	139 Methylcyclohexane	55	4.829	4.841	(1.162)	136686	50.0000	55.4
	42 1,2-Dichloropropane	63	4.866	4.877	(1.170)	109137	50.0000	54.5
	43 Dibromomethane	93	5.000	5.007	(1.203)	76173	50.0000	50.8
	44 Methyl methacrylate	69	5.057	5.069	(1.216)	88112	50.0000	52.3
	143 2,2,4-Trimethylpentane	57	3.920	3.931	(0.943)	270922	50.0000	53.0
	144 1,4-Dioxane	88	5.057	5.069	(1.216)	30161	1000.00	23900
	45 Bromodichloromethane	83	5.202	5.208	(1.251)	157236	50.0000	54.4
	46 2-Chloroethyl vinyl ether	63	5.579	5.585	(0.755)	33616	50.0000	9.55
	47 cis-1,3-Dichloropropene	75	5.713	5.720	(0.773)	185245	50.0000	52.9
	48 4-Methyl-2-Pentanone	43	5.904	5.916	(0.799)	520766	250.000	237
$	49 Toluene-d8	98	5.997	6.004	(0.812)	309856	50.0000	47.1
	50 Toluene	91	6.070	6.076	(0.822)	452018	50.0000	47.3
	51 trans-1,3-Dichloropropene	75	6.328	6.335	(0.857)	165217	50.0000	48.8
	52 Ethyl Methacrylate	69	6.463	6.469	(0.875)	164557	50.0000	51.8
	53 1,1,2-Trichloroethane	83	6.509	6.516	(0.881)	83021	50.0000	52.5
	54 Tetrachloroethene	166	6.638	6.645	(0.899)	140913	50.0000	42.7
	55 1,3-Dichloropropane	76	6.669	6.676	(0.903)	174236	50.0000	51.2
	56 2-Hexanone	43	6.783	6.790	(0.918)	375475	250.000	275
	57 Dibromochloromethane	129	6.881	6.888	(0.931)	134373	50.0000	51.6
	58 1,2-Dibromoethane	107	6.969	6.976	(0.943)	128385	50.0000	49.8
*	59 Chlorobenzene-d5	117	7.388	7.394	(1.000)	312270	50.0000	
	60 Chlorobenzene	112	7.414	7.420	(1.003)	306458	50.0000	46.4
	61 1,1,1,2-Tetrachloroethane	131	7.491	7.498	(1.014)	117726	50.0000	49.8
	62 Ethylbenzene	106	7.517	7.524	(1.017)	167087	50.0000	48.1
	63 m&p-Xylene	106	7.615	7.622	(1.031)	419188	100.000	95.0
	65 o-Xylene	106	7.925	7.932	(1.073)	209394	50.0000	48.7
	66 Styrene	104	7.941	7.947	(1.075)	335762	50.0000	49.1
	67 Bromoform	173	8.070	8.077	(0.884)	92507	50.0000	44.7
	68 Isopropylbenzene	105	8.215	8.216	(1.112)	497610	50.0000	46.4
	69 trans-1,4-Dichloro-2-butene	53	8.473	8.480	(1.147)	136595	50.0000	193
	142 n-amyl acetate	70	8.318	8.325	(1.126)	1098	250.000	21.1
$	70 4-Bromofluorobenzene	95	8.318	8.325	(1.126)	140860	50.0000	51.0

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
71 Bromobenzene	77	8.421	8.428	(1.140)	166797	50.0000	48.8
72 1,1,2,2-Tetrachloroethane	83	8.437	8.438	(0.925)	130643	50.0000	48.7
73 1,2,3-Trichloropropane	75	8.473	8.464	(0.929)	292856	50.0000	93.5
74 n-Propylbenzene	91	8.515	8.516	(0.933)	504664	50.0000	47.2
75 2-Chlorotoluene	91	8.566	8.573	(0.939)	310918	50.0000	44.4
77 1,3,5-Trimethylbenzene	105	8.639	8.645	(0.947)	365752	50.0000	47.0
76 4-Chlorotoluene	126	8.566	8.573	(0.939)	110230	50.0000	46.9
78 tert-Butylbenzene	119	8.861	8.867	(0.971)	377847	50.0000	42.1
79 1,2,4-Trimethylbenzene	105	8.892	8.898	(0.975)	358438	50.0000	46.5
80 sec-Butylbenzene	105	9.011	9.017	(0.988)	467360	50.0000	47.8
81 1,3-Dichlorobenzene	146	9.083	9.090	(0.995)	209606	50.0000	47.1
83 p-Isopropyltoluene	119	9.109	9.115	(0.998)	376788	50.0000	48.0
* 82 1,4-Dichlorobenzene-d4	152	9.124	9.131	(1.000)	144716	50.0000	
84 1,4-Dichlorobenzene	146	9.140	9.146	(1.002)	212994	50.0000	46.1
86 n-Butylbenzene	91	9.372	9.379	(1.027)	294036	50.0000	49.8
85 1,2-Dichlorobenzene	146	9.383	9.389	(1.028)	200927	50.0000	48.7
87 1,2-Dibromo-3-chloropropane	155	9.879	9.886	(1.083)	23803	50.0000	44.9
88 1,2,4-Trichlorobenzene	180	10.391	10.397	(1.139)	118472	50.0000	45.5
89 Hexachlorobutadiene	225	10.489	10.495	(1.150)	45709	50.0000	47.0
90 Naphthalene	128	10.541	10.547	(1.155)	273135	50.0000	47.4
91 1,2,3-Trichlorobenzene	180	10.680	10.692	(1.170)	100075	50.0000	46.8
92 2,methyl-naphthalene	142	11.218	11.229	(1.229)	43313	50.0000	65.7

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A02LCS-CCV.D
Lab Smp Id: lcs 34A-054
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a020110.b\-8260-c1.m
Misc Info:

Calibration Date: 01-FEB-2010
Calibration Time: 10:28
Client Smp ID: ccv
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	375175	187588	750350	345945	-7.79
59 Chlorobenzene-d5	311570	155785	623140	312270	0.22
82 1,4-Dichlorobenze	143655	71828	287310	144716	0.74

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.18	3.68	4.68	4.16	-0.49
59 Chlorobenzene-d5	7.40	6.90	7.90	7.39	-0.21
82 1,4-Dichlorobenze	9.14	8.64	9.64	9.12	-0.17

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV2.i Injection Date: 01-FEB-2010 11:02
Lab File ID: A02LCS-CCV.D Init. Cal. Date(s): 26-JAN-2010 26-JAN-2010
Analysis Type: WATER Init. Cal. Times: 12:58 16:56
Lab Sample ID: lcs 34A-054 Quant Type: ISTD
Method: \\50wintarget\chem\50MSV2.i\a020110.b\-8260-c1.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 Dichlorodifluoromethane	50.00000	59.61250	0.63008	0.000	19.22500	0.000e+000	Linear	
2 Chloromethane	0.44136	0.41487	0.41487	0.000	-6.00237	20.00000	Averaged	
3 Vinyl Chloride	50.00000	55.09999	0.50906	0.000	10.19998	0.000e+000	Linear	
4 Bromomethane	50.00000	63.16505	0.15198	0.000	26.33009	0.000e+000	Linear	
5 Chloroethane	50.00000	54.27402	0.29100	0.000	8.54805	0.000e+000	Linear	
6 Trichlorofluoromethane	50.00000	54.18847	0.54545	0.000	8.37695	0.000e+000	Linear	
28 1,2-dichlorotrifluoroethane	50.00000	55.84886	0.49436	0.000	11.69772	0.000e+000	Linear	
7 Diethyl ether	50.00000	52.21448	0.18977	0.000	4.42895	0.000e+000	Linear	
17 tert-Butyl Alcohol	++++	++++	++++	0.000	++++	0.000e+000	Linear	<-
8 Acrolein	0.03395	0.07986	0.07986	0.000	135	20.00000	Averaged	<-
10 1,1,2trichlorotrifluoroetha	50.00000	60.79868	0.38088	0.000	21.59737	0.000e+000	Linear	
9 1,1-Dichloroethene	50.00000	57.29497	0.30955	0.000	14.58994	0.000e+000	Linear	
11 Acetone	250	337	0.10011	0.000	34.77584	0.000e+000	Linear	
12 Iodomethane	100	51.13812	0.16569	0.000	-48.86188	0.000e+000	Quadratic	
13 Carbon Disulfide	0.86731	1.19391	1.19391	0.000	37.65711	20.00000	Averaged	<-
14 allyl chloride	100	112	0.42940	0.000	12.22821	0.000e+000	Linear	
145 Acetonitrile	0.00012	++++	++++	0.000	++++	20.00000	Averaged	<-
138 Methyl Acetate	50.00000	66.17721	0.31424	0.000	32.35443	0.000e+000	Linear	
15 Methylene Chloride	50.00000	47.44317	0.30462	0.000	-5.11367	0.000e+000	Linear	
16 Acrylonitrile	1000	1098	0.12053	0.000	9.79139	0.000e+000	Linear	
19 Methyl-tert-butyl ether	100	107	0.83147	0.000	6.89581	0.000e+000	Linear	
18 1,2-Dichloroethene (trans)	50.00000	53.99983	0.34116	0.000	7.99967	0.000e+000	Linear	
20 n-Hexane	0.36219	0.46285	0.46285	0.000	27.79272	20.00000	Averaged	<-
21 1,1-Dichloroethane	0.61090	0.56204	0.56204	0.000	-7.99781	20.00000	Averaged	
23 Vinyl Acetate	0.64859	0.66034	0.66034	0.000	1.81218	20.00000	Averaged	
140 Ethyl acetate	500	531	0.03178	0.000	6.14847	0.000e+000	Linear	
147 Chloroprene	0.45921	0.46602	0.46602	0.000	1.48444	20.00000	Averaged	
24 2,2-Dichloropropane	0.44654	0.49175	0.49175	0.000	10.12480	20.00000	Averaged	
25 1,2-Dichloroethene (cis)	50.00000	51.61196	0.40646	0.000	3.22391	0.000e+000	Linear	
26 2-Butanone	0.15498	0.17002	0.17002	0.000	9.70315	20.00000	Averaged	
27 Propionitrile	50.00000	45.47130	0.04566	0.000	-9.05740	0.000e+000	Linear	
29 Bromochloromethane	50.00000	65.35342	0.28482	0.000	30.70684	0.000e+000	Linear	
146 Methacrylonitrile	250	363	0.05234	0.000	45.35165	0.000e+000	Linear	
31 Chloroform	0.57587	0.59281	0.59281	0.000	2.94048	20.00000	Averaged	
$ 32 Dibromofluoromethane (S)	0.30619	0.30865	0.30865	0.000	0.80299	20.00000	Averaged	
33 1,1,1-Trichloroethane	50.00000	51.95823	0.53389	0.000	3.91646	0.000e+000	Linear	
30 Tetrahydrofuran	50.00000	51.74417	0.10673	0.000	3.48834	0.000e+000	Linear	
34 cyclohexane	50.00000	55.50207	0.55058	0.000	11.00413	0.000e+000	Linear	
37 Isobutyl alcohol	0.77491	0.85010	0.85010	0.000	9.70315	20.00000	Averaged	
35 Carbon Tetrachloride	0.46894	0.47225	0.47225	0.000	0.70661	20.00000	Averaged	
36 1,1-Dichloropropene	0.43502	0.47425	0.47425	0.000	9.01844	20.00000	Averaged	
38 Benzene	1.25414	1.28729	1.28729	0.000	2.64350	20.00000	Averaged	

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV2.i Injection Date: 01-FEB-2010 11:02
Lab File ID: A02LCS-CCV.D Init. Cal. Date(s): 26-JAN-2010 26-JAN-2010
Analysis Type: WATER Init. Cal. Times: 12:58 16:56
Lab Sample ID: lcs 34A-054 Quant Type: ISTD
Method: \\50wintarget\chem\50MSV2.i\a020110.b\-8260-c1.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
141 isopropyl acetate	0.01746	0.00040	0.00040	0.000	-97.69812	20.00000	Averaged	<-
39 1,2-Dichloroethane	50.00000	56.78442	0.42260	0.000	13.56884	0.000e+000	Linear	
41 Trichloroethene	50.00000	54.80517	0.37540	0.000	9.61034	0.000e+000	Linear	
139 Methylcyclohexane	50.00000	55.42967	0.39511	0.000	10.85934	0.000e+000	Linear	
42 1,2-Dichloropropane	50.00000	54.51334	0.31548	0.000	9.02667	0.000e+000	Wt Linear	
43 Dibromomethane	50.00000	50.76750	0.22019	0.000	1.53500	0.000e+000	Linear	
44 Methyl methacrylate	50.00000	52.28487	0.25470	0.000	4.56975	0.000e+000	Linear	
143 2,2,4-Trimethylpentane	0.73883	0.78314	0.78314	0.000	5.99613	20.00000	Averaged	
144 1,4-Dioxane	0.00018	0.00436	0.00436	0.000	2289	20.00000	Averaged	<-
45 Bromodichloromethane	50.00000	54.38380	0.45451	0.000	8.76760	0.000e+000	Linear	
46 2-Chloroethyl vinyl ether	50.00000	9.54902	0.10765	0.000	-80.90196	0.000e+000	Linear	
47 cis-1,3-Dichloropropene	50.00000	52.91856	0.59322	0.000	5.83713	0.000e+000	Linear	
48 4-Methyl-2-Pentanone	0.35227	0.33354	0.33354	0.000	-5.31860	20.00000	Averaged	
$ 49 Toluene-d8	1.05250	0.99227	0.99227	0.000	-5.72276	20.00000	Averaged	
50 Toluene	1.52935	1.44752	1.44752	0.000	-5.35053	20.00000	Averaged	
51 trans-1,3-Dichloropropene	50.00000	48.83756	0.52908	0.000	-2.32488	0.000e+000	Linear	
52 Ethyl Methacrylate	50.00000	51.82970	0.52697	0.000	3.65940	0.000e+000	Linear	
53 1,1,2-Trichloroethane	50.00000	52.54183	0.26586	0.000	5.08366	0.000e+000	Linear	
54 Tetrachloroethene	50.00000	42.72507	0.45125	0.000	-14.54986	0.000e+000	Linear	
55 1,3-Dichloropropane	50.00000	51.24084	0.55797	0.000	2.48168	0.000e+000	Linear	
56 2-Hexanone	250	275	0.24048	0.000	9.85132	0.000e+000	Linear	
57 Dibromochloromethane	0.41715	0.43031	0.43031	0.000	3.15460	20.00000	Averaged	
58 1,2-Dibromoethane	50.00000	49.82729	0.41113	0.000	-0.34541	0.000e+000	Linear	
60 Chlorobenzene	1.05673	0.98139	0.98139	0.000	-7.12931	20.00000	Averaged	
61 1,1,1,2-Tetrachloroethane	0.37886	0.37700	0.37700	0.000	-0.49186	20.00000	Averaged	
62 Ethylbenzene	0.55572	0.53507	0.53507	0.000	-3.71559	20.00000	Averaged	
63 m&p-Xylene	0.70640	0.67119	0.67119	0.000	-4.98373	20.00000	Averaged	
65 o-Xylene	0.68865	0.67055	0.67055	0.000	-2.62772	20.00000	Averaged	
66 Styrene	1.09458	1.07523	1.07523	0.000	-1.76815	20.00000	Averaged	
67 Bromoform	50.00000	44.72857	0.63923	0.000	-10.54287	0.000e+000	Linear	
68 Isopropylbenzene	1.71634	1.59352	1.59352	0.000	-7.15570	20.00000	Averaged	
69 trans-1,4-Dichloro-2-butene	50.00000	193	0.43743	0.000	286	0.000e+000	Linear	
142 n-amyl acetate	0.00834	0.00070	0.00070	0.000	-91.56702	20.00000	Averaged	<-
$ 70 4-Bromofluorobenzene	0.44264	0.45108	0.45108	0.000	1.90774	20.00000	Averaged	
71 Bromobenzene	50.00000	48.79391	0.53414	0.000	-2.41218	0.000e+000	Linear	
72 1,1,2,2-Tetrachloroethane	0.92693	0.90275	0.90275	0.000	-2.60821	20.00000	Averaged	
73 1,2,3-Trichloropropane	1.08177	2.02366	2.02366	0.000	87.06857	20.00000	Averaged	<-
74 n-Propylbenzene	3.69097	3.48727	3.48727	0.000	-5.51885	20.00000	Averaged	
75 2-Chlorotoluene	2.42129	2.14847	2.14847	0.000	-11.26755	20.00000	Averaged	
77 1,3,5-Trimethylbenzene	2.68992	2.52738	2.52738	0.000	-6.04272	20.00000	Averaged	
76 4-Chlorotoluene	50.00000	46.89433	0.76170	0.000	-6.21134	0.000e+000	Linear	
78 tert-Butylbenzene	3.09804	2.61096	2.61096	0.000	-15.72228	20.00000	Averaged	
79 1,2,4-Trimethylbenzene	2.66407	2.47684	2.47684	0.000	-7.02804	20.00000	Averaged	

Pace Analytical Services, Inc.

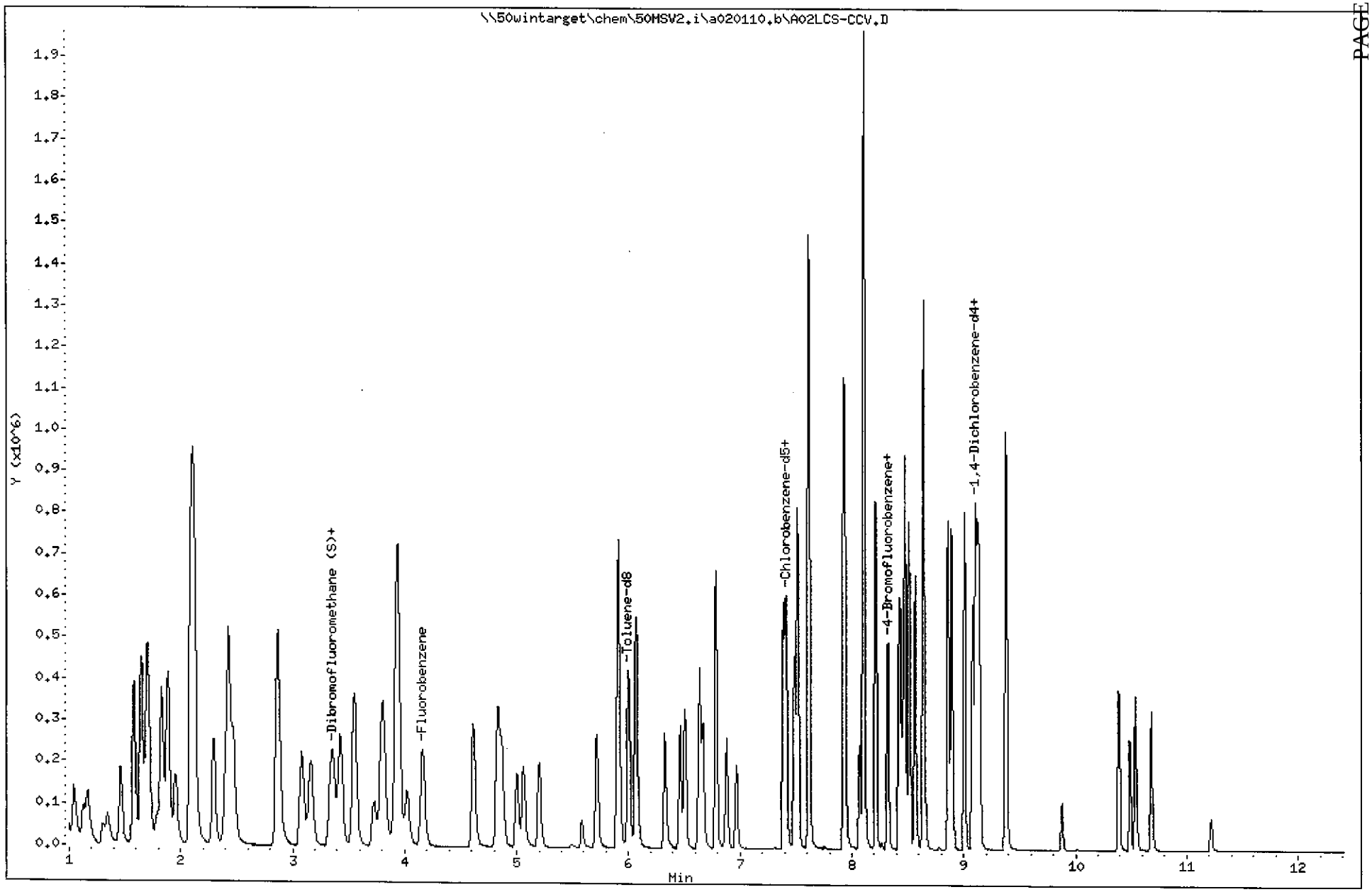
CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV2.i Injection Date: 01-FEB-2010 11:02
Lab File ID: A02LCS-CCV.D Init. Cal. Date(s): 26-JAN-2010 26-JAN-2010
Analysis Type: WATER Init. Cal. Times: 12:58 16:56
Lab Sample ID: lcs 34A-054 Quant Type: ISTD
Method: \\50wintarget\chem\50MSV2.i\a020110.b\-8260-c1.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
80 sec-Butylbenzene	3.37991	3.22950	3.22950	0.000	-4.45023	20.00000	Averaged
81 1,3-Dichlorobenzene	1.53724	1.44840	1.44840	0.000	-5.77953	20.00000	Averaged
83 p-Isopropyltoluene	2.71269	2.60364	2.60364	0.000	-4.02004	20.00000	Averaged
84 1,4-Dichlorobenzene	1.59513	1.47181	1.47181	0.000	-7.73133	20.00000	Averaged
86 n-Butylbenzene	50.00000	49.83554	2.03181	0.000	-0.32892	0.000e+000	Linear
85 1,2-Dichlorobenzene	1.42467	1.38842	1.38842	0.000	-2.54452	20.00000	Averaged
87 1,2-Dibromo-3-chloropropane	50.00000	44.88004	0.16448	0.000	-10.23991	0.000e+000	Linear
88 1,2,4-Trichlorobenzene	50.00000	45.47125	0.81865	0.000	-9.05750	0.000e+000	Linear
89 Hexachlorobutadiene	50.00000	46.96116	0.31585	0.000	-6.07769	0.000e+000	Linear
90 Naphthalene	50.00000	47.45374	1.88739	0.000	-5.09253	0.000e+000	Linear
91 1,2,3-Trichlorobenzene	50.00000	46.82539	0.69153	0.000	-6.34922	0.000e+000	Linear
92 2,methyl-naphthalene	50.00000	65.69947	0.29930	0.000	31.39894	0.000e+000	Linear

Data File: \\50wintarget\chem\50MSV2.i\a020110.b\A02LCS-CCV.D
Date : 01-FEB-2010 11:02
Client ID: ccv
Sample Info: lcs 34A-054
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: A020910.B

Lab File ID: A00BFB BFB Injection Date: 02/09/10

Instrument ID: 50MSV2 BFB Injection Time: 1046

GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.2
75	30.0 - 60.0% of mass 95	41.3
95	Base Peak, 100% relative abundance	100.0
95	100.0 - 100.0% of mass 95	100.0
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	89.3
175	5.0 - 9.0% of mass 174	6.7 (7.5)1
176	95.0 - 101.0% of mass 174	88.7 (99.4)1
177	5.0 - 9.0% of mass 176	5.6 (6.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV	CCV 34A-105/11	A01CCV	02/09/10	1120
02	LCS	395905	A02LCS	02/09/10	1154
03	MB	395904	A03MB	02/09/10	1228
04	5034162001	5034162001	A04	02/09/10	1302
05	5034162002	5034162002	A05	02/09/10	1336
06	5034162005	5034162005	A06	02/09/10	1411
07	5034162006	5034162006	A07	02/09/10	1445
08	5034508001	5034508001	A08	02/09/10	1519
09	5034508002	5034508002	A09	02/09/10	1553
10	5034508003	5034508003	A10	02/09/10	1627
11	MS5034508003	395906	A11	02/09/10	1702
12	5034508004	5034508004	A12	02/09/10	1736
13	5034508005	5034508005	A13	02/09/10	1810
14	5034508006	5034508006	A14	02/09/10	1844
15	5034508007	5034508007	A15	02/09/10	1918
16	5034508008	5034508008	A16	02/09/10	1952
17	5034508009	5034508009	A17	02/09/10	2026
18	5034508010	5034508010	A18	02/09/10	2100
19	5034508011	5034508011	A19	02/09/10	2134
20	5034464001	5034464001	A20	02/09/10	2207
21	5034373001	5034373001	A21	02/09/10	2241
22					

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: A020910.B

Instrument ID: 50MSV2 Calibration Date: 02/09/10 Time: 1120

Lab File ID: A01CCV Init. Calib. Date(s): 01/26/10 01/26/10

Heated Purge: (Y/N) N Init. Calib. Times: 1258 1656

GC Column: DB-624 ID: 0.18 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d	
Bromochloromethane	59.7	50.0	LINR	-19.4	20.0	
Chloromethane	38.0	50.0	AVRG	24.0	20.0	<-
Bromomethane	37.2	50.0	LINR	25.6	20.0	<-
Vinyl Chloride	44.2	50.0	LINR	11.6	20.0	
Chloroethane	41.1	50.0	LINR	17.8	20.0	
Methylene Chloride	46.9	50.0	LINR	6.2	20.0	
1,1-Dichloroethene	50.4	50.0	LINR	-0.8	20.0	
1,1-Dichloroethane	43.5	50.0	AVRG	13.0	20.0	
1,2-Dichloroethene (trans)	45.0	50.0	LINR	10.0	20.0	
Chloroform	45.1	50.0	AVRG	9.8	20.0	
1,2-Dichloroethane	48.0	50.0	LINR	4.0	20.0	
1,1,1-Trichloroethane	47.1	50.0	LINR	5.8	20.0	
Carbon Tetrachloride	46.9	50.0	AVRG	6.2	20.0	
Bromodichloromethane	45.7	50.0	LINR	8.6	20.0	
1,2-Dichloropropane	46.1	50.0	WLINR	7.8	20.0	
trans-1,3-Dichloropropene	52.4	50.0	LINR	-4.8	20.0	
Trichloroethene	46.4	50.0	LINR	7.2	20.0	
Dibromochloromethane	52.7	50.0	AVRG	-5.4	20.0	
1,1,2-Trichloroethane	53.5	50.0	LINR	-7.0	20.0	
Benzene	43.8	50.0	AVRG	12.4	20.0	
cis-1,3-Dichloropropene	52.8	50.0	LINR	-5.6	20.0	
Bromoform	52.2	50.0	LINR	-4.4	20.0	
Tetrachloroethene	52.0	50.0	LINR	-4.0	20.0	
1,1,2,2-Tetrachloroethane	54.1	50.0	AVRG	-8.2	20.0	
Toluene	49.2	50.0	AVRG	1.6	20.0	
Chlorobenzene	48.9	50.0	AVRG	2.2	20.0	
Ethylbenzene	49.4	50.0	AVRG	1.2	20.0	
Styrene	51.1	50.0	AVRG	-2.2	20.0	
Trichlorofluoromethane	45.3	50.0	LINR	9.4	20.0	
m&p-Xylene	98.2	100	AVRG	1.8	20.0	
1,2-Dichloroethene (cis)	45.8	50.0	LINR	8.4	20.0	
o-Xylene	50.4	50.0	AVRG	-0.8	20.0	
1,2,3-Trichloropropane	52.7	50.0	AVRG	-5.4	20.0	
1,3-Dichlorobenzene	52.3	50.0	AVRG	-4.6	20.0	
1,4-Dichlorobenzene	50.5	50.0	AVRG	-1.0	20.0	
Dibromomethane	45.9	50.0	LINR	8.2	20.0	
1,2-Dichlorobenzene	54.0	50.0	AVRG	-8.0	20.0	

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: A020910.B

Instrument ID: 50MSV2 Calibration Date: 02/09/10 Time: 1120

Lab File ID: A01CCV Init. Calib. Date(s): 01/26/10 01/26/10

Heated Purge: (Y/N) N Init. Calib. Times: 1258 1656

GC Column: DB-624 ID: 0.18 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d	
Dichlorodifluoromethane	39.1	50.0	LINR	21.8	20.0	<-
2,2-Dichloropropane	49.4	50.0	AVRG	1.2	20.0	
1,1-Dichloropropene	46.8	50.0	AVRG	6.4	20.0	
1,3-Dichloropropane	53.3	50.0	LINR	-6.6	20.0	
1,2-Dibromoethane	52.3	50.0	LINR	-4.6	20.0	
1,1,1,2-Tetrachloroethane	52.1	50.0	AVRG	-4.2	20.0	
Isopropylbenzene	50.0	50.0	AVRG	0.0	20.0	
Bromobenzene	66.8	50.0	LINR	-33.6	20.0	<-
n-Propylbenzene	52.7	50.0	AVRG	-5.4	20.0	
2-Chlorotoluene	49.6	50.0	AVRG	0.8	20.0	
4-Chlorotoluene	51.7	50.0	LINR	-3.4	20.0	
1,3,5-Trimethylbenzene	51.9	50.0	AVRG	-3.8	20.0	
tert-Butylbenzene	53.2	50.0	AVRG	-6.4	20.0	
1,2,4-Trimethylbenzene	51.2	50.0	AVRG	-2.4	20.0	
sec-Butylbenzene	52.0	50.0	AVRG	-4.0	20.0	
p-Isopropyltoluene	53.0	50.0	AVRG	-6.0	20.0	
n-Butylbenzene	54.4	50.0	LINR	-8.8	20.0	
1,2-Dibromo-3-chloropropane	52.0	50.0	LINR	-4.0	20.0	
1,2,4-Trichlorobenzene	51.0	50.0	LINR	-2.0	20.0	
Hexachlorobutadiene	51.6	50.0	LINR	-3.2	20.0	
Naphthalene	51.2	50.0	LINR	-2.4	20.0	
1,2,3-Trichlorobenzene	50.6	50.0	LINR	-1.2	20.0	
Acrolein	1430	1000	AVRG	-43.0	20.0	<-
Carbon Disulfide	111	100	AVRG	-11.0	20.0	
Acetone	241	250	LINR	3.6	20.0	
Acrylonitrile	993	1000	LINR	0.7	20.0	
Vinyl Acetate	192	200	AVRG	4.0	20.0	
2-Butanone	228	250	AVRG	8.8	20.0	
2-Chloroethyl vinyl ether	53.2	50.0	LINR	-6.4	20.0	
4-Methyl-2-Pentanone	255	250	AVRG	-2.0	20.0	
2-Hexanone	282	250	LINR	-12.8	20.0	
Methyl-tert-butyl ether	97.6	100	LINR	2.4	20.0	
Iodomethane	42.3	100	2ORDR	57.7	20.0	<-
trans-1,4-Dichloro-2-butene	55.5	50.0	LINR	-11.0	20.0	
Ethyl Methacrylate	52.8	50.0	LINR	-5.6	20.0	
2,methyl-naphthalene	57.6	50.0	LINR	-15.2	20.0	
n-Hexane	48.4	50.0	AVRG	3.2	20.0	

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: A020910.B

Instrument ID: 50MSV2 Calibration Date: 02/09/10 Time: 1120

Lab File ID: A01CCV Init. Calib. Date(s): 01/26/10 01/26/10

Heated Purge: (Y/N) N Init. Calib. Times: 1258 1656

GC Column: DB-624 ID: 0.18 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d	
cyclohexane	47.9	50.0	LINR	4.2	20.0	
1,1,2trichlorotrifluoroethan	51.3	50.0	LINR	-2.6	20.0	
1,2-dichlorotrifluoroethane	51.2	50.0	LINR	-2.4	20.0	
Tetrahydrofuran	46.4	50.0	LINR	7.2	20.0	
allyl chloride	105	100	LINR	-5.0	20.0	
Diethyl ether	51.0	50.0	LINR	-2.0	20.0	
Isobutyl alcohol	45.6	50.0	AVRG	8.8	20.0	
Methyl methacrylate	46.4	50.0	LINR	7.2	20.0	
Propionitrile	46.1	50.0	LINR	7.8	20.0	
tert-Butyl Alcohol	88.5	100	LINR	11.5	20.0	
Methyl Acetate	51.4	50.0	LINR	-2.8	20.0	
Methylcyclohexane	47.5	50.0	LINR	5.0	20.0	
Ethyl acetate	462	500	LINR	7.6	20.0	
isopropyl acetate	11.5	250	AVRG	95.4	20.0	<-
n-amyl acetate	16.4	250	AVRG	93.4	20.0	<-
2,2,4-Trimethylpentane	47.2	50.0	AVRG	5.6	20.0	
1,4-Dioxane	192	1000	AVRG	80.8	20.0	<-
Acetonitrile	750	1000	AVRG	25.0	20.0	<-
Methacrylonitrile	325	250	LINR	-30.0	20.0	<-
Chloroprene	45.3	50.0	AVRG	9.4	20.0	
Toluene-d8	53.8	50.0	AVRG	-7.6	20.0	
4-Bromofluorobenzene	49.2	50.0	AVRG	1.6	20.0	
Dibromofluoromethane (S)	48.9	50.0	AVRG	2.2	20.0	

Data File: \\50wintarget\chem\50MSV2.i\a020910.b\A00BFB.D

Date : 09-FEB-2010 10:46

Client ID: bfb050

Instrument: 50MSV2.i

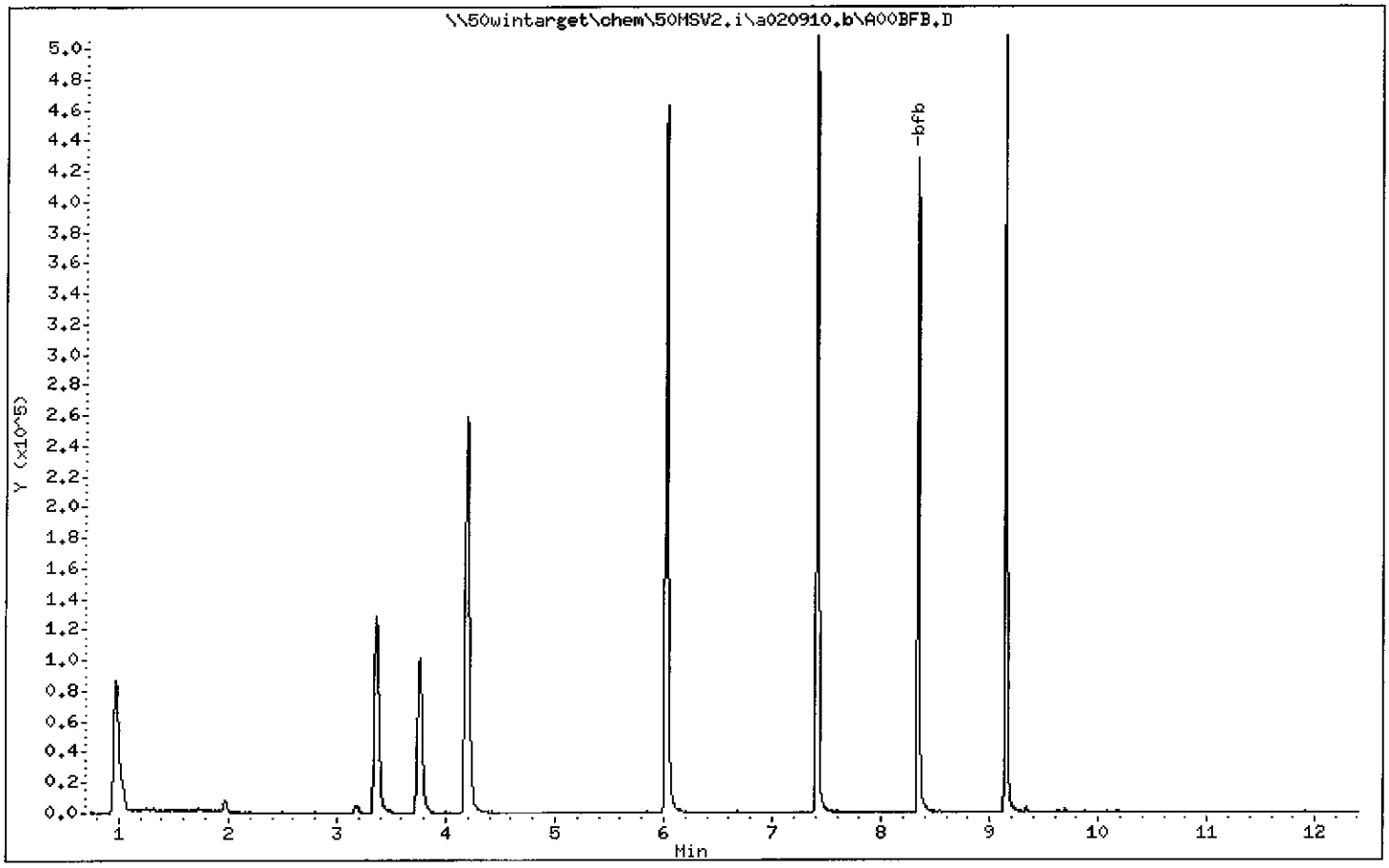
Sample Info: bfb 34A-110

Volume Injected (uL): 5.0

Operator: jlf

Column phase: DB-624

Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV2.i\a020910.b\A00BFB.D

Date : 09-FEB-2010 10:46

Client ID: bfb050

Instrument: 50MSV2.i

Sample Info: bfb 34A-110

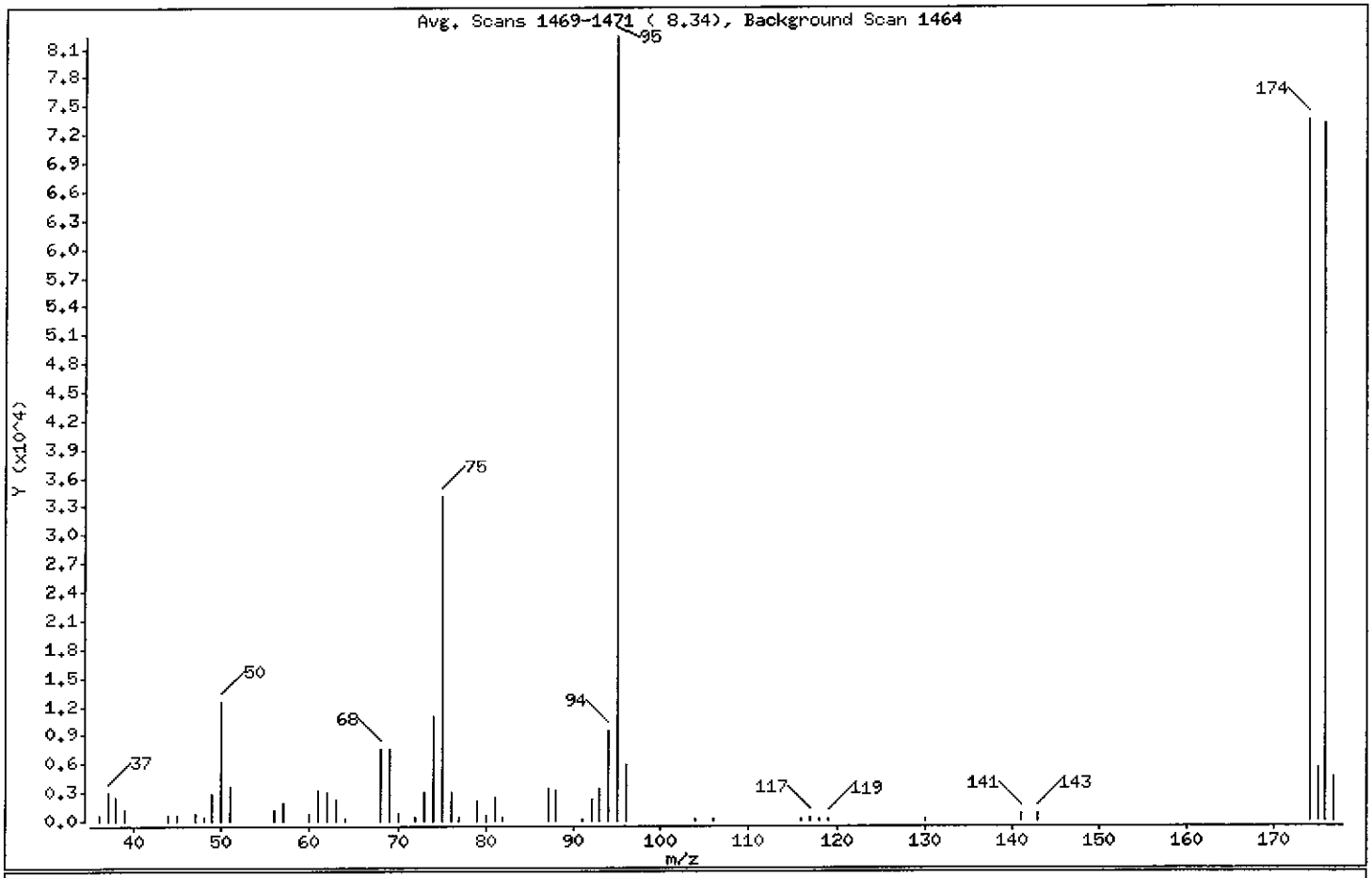
Volume Injected (uL): 5.0

Operator: jlf

Column phase: DB-624

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.24
75	30.00 - 60.00% of mass 95	41.28
96	5.00 - 9.00% of mass 95	7.15
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	89.28
175	5.00 - 9.00% of mass 174	6.73 (7.53)
176	95.00 - 101.00% of mass 174	88.74 (99.39)
177	5.00 - 9.00% of mass 176	5.58 (6.29)
95	100.00 - 100.00% of mass 95	100.00

Data File: \\50wintarget\chem\50MSV2.i\a020910.b\A00BFB.D

Date : 09-FEB-2010 10:46

Client ID: bfb050 Instrument: 50MSV2.i

Sample Info: bfb 34A-110

Volume Injected (uL): 5.0 Operator: jlf

Column phase: DB-624 Column diameter: 0.18

Data File: A00BFB.D
Spectrum: Avg. Scans 1469-1471 (8.34), Background Scan 1464
Location of Maximum: 95.00
Number of points: 52

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	650	61.00	3264	80.00	578	117.00	453
37.00	3071	62.00	2976	81.00	2495	118.00	270
38.00	2484	63.00	2355	82.00	324	119.00	247
39.00	1070	64.00	138	87.00	3349	130.00	167
44.00	510	68.00	7589	88.00	3127	141.00	761
45.00	544	69.00	7551	91.00	123	143.00	727
47.00	797	70.00	672	92.00	2180	174.00	73432
48.00	339	72.00	431	93.00	3431	175.00	5532
49.00	2772	73.00	3023	94.00	9449	176.00	72984
50.00	12535	74.00	10945	95.00	82248	177.00	4592
51.00	3653	75.00	33952	96.00	5882		
56.00	1118	76.00	3092	104.00	254		
57.00	1905	77.00	430	106.00	130		
60.00	739	79.00	2149	116.00	130		

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a020910.b\A01CCV.D
Lab Smp Id: ccv 34A-105/115 Client Smp ID: ccv
Inj Date : 09-FEB-2010 11:20
Operator : jlf Inst ID: 50MSV2.i
Smp Info : ccv 34A-105/115
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Meth Date : 10-Feb-2010 11:41 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 50-VOA-JLF

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	1.045	1.052	(0.250)	171820	50.0000	39.1
2 Chloromethane	50	1.133	1.145	(0.271)	134743	50.0000	38.0
3 Vinyl Chloride	62	1.169	1.176	(0.280)	166253	50.0000	44.2
4 Bromomethane	94	1.299	1.305	(0.311)	38121	50.0000	37.2
5 Chloroethane	64	1.345	1.352	(0.322)	88533	50.0000	41.1
6 Trichlorofluoromethane	101	1.459	1.466	(0.349)	183823	50.0000	45.3
28 1,2-dichlorotrifluoroethane	67	1.583	1.590	(0.379)	183915	50.0000	51.2
7 Diethyl ether	74	1.588	1.595	(0.380)	74693	50.0000	51.0
17 tert-Butyl Alcohol	59	2.022	2.034	(0.484)	27777	100.000	88.5(M)
8 Acrolein	56	1.650	1.657	(0.395)	391255	1000.00	1430
10 1,1,2trichlorotrifluoroethane	101	1.702	1.709	(0.407)	131509	50.0000	51.3
9 1,1-Dichloroethene	96	1.707	1.714	(0.408)	110812	50.0000	50.4
11 Acetone	43	1.728	1.734	(0.413)	147103	250.000	241
12 Iodomethane	142	1.795	1.802	(0.429)	109437	100.000	42.3
13 Carbon Disulfide	76	1.836	1.843	(0.439)	777433	100.000	111
14 allyl chloride	41	1.893	1.900	(0.453)	324990	100.000	105
145 Acetonitrile	41	1.211	1.211	(0.290)	698	1000.00	750
138 Methyl Acetate	43	1.903	1.905	(0.455)	99165	50.0000	51.4
15 Methylene Chloride	84	1.965	1.972	(0.470)	121157	50.0000	46.9
16 Acrylonitrile	53	2.105	2.112	(0.503)	883263	1000.00	993
19 Methyl-tert-butyl ether	73	2.131	2.138	(0.509)	614867	100.000	97.6
18 1,2-Dichloroethene (trans)	96	2.126	2.138	(0.508)	115062	50.0000	45.0

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	20 n-Hexane	57	2.307	2.313	(0.551)	140993	50.0000	48.4
	21 1,1-Dichloroethane	63	2.410	2.417	(0.576)	213571	50.0000	43.5
	23 Vinyl Acetate	43	2.441	2.448	(0.584)	999591	200.000	192
	140 Ethyl acetate	88	2.482	2.489	(0.594)	111877	500.000	462
	147 Chloroprene	53	2.482	2.489	(0.594)	167357	50.0000	45.3
	24 2,2-Dichloropropane	77	2.880	2.887	(0.689)	177500	50.0000	49.4
	25 1,2-Dichloroethene (cis)	96	2.880	2.887	(0.689)	145869	50.0000	45.8
	26 2-Butanone	43	2.896	2.903	(0.692)	284259	250.000	228
	27 Propionitrile	54	2.947	2.959	(0.705)	18628	50.0000	46.1
	29 Bromochloromethane	49	3.102	3.114	(0.742)	105150	50.0000	59.7
	146 Methacrylonitrile	41	3.092	3.094	(0.739)	94122	250.000	325
	31 Chloroform	83	3.185	3.197	(0.762)	208754	50.0000	45.1
$	32 Dibromofluoromethane (S)	113	3.356	3.363	(0.802)	120478	50.0000	48.9
	33 1,1,1-Trichloroethane	97	3.382	3.394	(0.808)	195538	50.0000	47.1
	30 Tetrahydrofuran	42	3.164	3.171	(0.757)	39068	50.0000	46.4
	34 cyclohexane	56	3.449	3.456	(0.825)	192445	50.0000	47.9
	37 Isobutyl alcohol	43	2.896	2.903	(0.692)	284259	50.0000	45.6
	35 Carbon Tetrachloride	117	3.573	3.580	(0.854)	176873	50.0000	46.9
	36 1,1-Dichloropropene	75	3.573	3.585	(0.854)	163555	50.0000	46.8
	38 Benzene	78	3.821	3.833	(0.914)	441574	50.0000	43.8
	141 isopropyl acetate	61	3.749	3.755	(0.896)	1618	250.000	11.5
	39 1,2-Dichloroethane	62	3.847	3.859	(0.920)	144926	50.0000	48.0
*	40 Fluorobenzene	96	4.183	4.195	(1.000)	401977	50.0000	
	41 Trichloroethene	95	4.638	4.644	(1.109)	128601	50.0000	46.4
	139 Methylcyclohexane	55	4.855	4.861	(1.161)	137494	50.0000	47.5
	42 1,2-Dichloropropane	63	4.891	4.898	(1.169)	107640	50.0000	46.1
	43 Dibromomethane	93	5.025	5.032	(1.201)	80199	50.0000	45.9
	44 Methyl methacrylate	69	5.082	5.094	(1.215)	90795	50.0000	46.4
	143 2,2,4-Trimethylpentane	57	3.945	3.962	(0.943)	280092	50.0000	47.2
	144 1,4-Dioxane	88	5.087	5.104	(1.216)	281	1000.00	192
	45 Bromodichloromethane	83	5.222	5.234	(1.248)	154276	50.0000	45.7
	46 2-Chloroethyl vinyl ether	63	5.599	5.606	(0.756)	164137	50.0000	53.2
	47 cis-1,3-Dichloropropene	75	5.733	5.745	(0.774)	176913	50.0000	52.8
	48 4-Methyl-2-Pentanone	43	5.930	5.936	(0.800)	537143	250.000	255
$	49 Toluene-d8	98	6.017	6.024	(0.812)	338995	50.0000	53.8
	50 Toluene	91	6.090	6.097	(0.822)	450188	50.0000	49.2
	51 trans-1,3-Dichloropropene	75	6.348	6.355	(0.857)	169538	50.0000	52.4
	52 Ethyl Methacrylate	69	6.483	6.489	(0.875)	160503	50.0000	52.8
	53 1,1,2-Trichloroethane	83	6.529	6.536	(0.881)	80915	50.0000	53.5
	54 Tetrachloroethene	166	6.658	6.665	(0.899)	161976	50.0000	52.0
	55 1,3-Dichloropropane	76	6.689	6.696	(0.903)	173254	50.0000	53.3
	56 2-Hexanone	43	6.803	6.805	(0.918)	368712	250.000	282
	57 Dibromochloromethane	129	6.901	6.903	(0.932)	131449	50.0000	52.7
	58 1,2-Dibromoethane	107	6.989	6.991	(0.943)	128928	50.0000	52.3
*	59 Chlorobenzene-d5	117	7.408	7.415	(1.000)	299023	50.0000	
	60 Chlorobenzene	112	7.434	7.435	(1.003)	308880	50.0000	48.9
	61 1,1,1,2-Tetrachloroethane	131	7.506	7.513	(1.013)	118107	50.0000	52.1
	62 Ethylbenzene	106	7.537	7.539	(1.017)	164194	50.0000	49.4
	63 m&p-Xylene	106	7.635	7.637	(1.031)	414786	100.000	98.2
	65 o-Xylene	106	7.945	7.947	(1.073)	207549	50.0000	50.4
	66 Styrene	104	7.956	7.962	(1.074)	334404	50.0000	51.1
	67 Bromoform	173	8.090	8.092	(0.885)	96896	50.0000	52.2
	68 Isopropylbenzene	105	8.230	8.231	(1.111)	513529	50.0000	50.0
	69 trans-1,4-Dichloro-2-butene	53	8.493	8.495	(1.147)	37830	50.0000	55.5

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
142 n-amyl acetate	70	8.338	8.340	(1.126)	818	250.000	16.4
$ 70 4-Bromofluorobenzene	95	8.338	8.340	(1.126)	130294	50.0000	49.2
71 Bromobenzene	77	8.436	8.443	(1.139)	214777	50.0000	66.8
72 1,1,2,2-Tetrachloroethane	83	8.452	8.453	(0.924)	129806	50.0000	54.1
73 1,2,3-Trichloropropane	75	8.478	8.479	(0.927)	147675	50.0000	52.7
74 n-Propylbenzene	91	8.529	8.531	(0.933)	503900	50.0000	52.7
75 2-Chlorotoluene	91	8.581	8.588	(0.938)	311167	50.0000	49.6
77 1,3,5-Trimethylbenzene	105	8.653	8.655	(0.946)	361843	50.0000	51.9
76 4-Chlorotoluene	126	8.586	8.588	(0.939)	108844	50.0000	51.7
78 tert-Butylbenzene	119	8.881	8.882	(0.971)	426593	50.0000	53.2
79 1,2,4-Trimethylbenzene	105	8.912	8.913	(0.975)	352950	50.0000	51.2
80 sec-Butylbenzene	105	9.026	9.032	(0.987)	455490	50.0000	52.0
81 1,3-Dichlorobenzene	146	9.098	9.100	(0.995)	208153	50.0000	52.3
83 p-Isopropyltoluene	119	9.124	9.125	(0.998)	372476	50.0000	53.0
* 82 1,4-Dichlorobenzene-d4	152	9.144	9.146	(1.000)	129503	50.0000	
84 1,4-Dichlorobenzene	146	9.160	9.162	(1.002)	208659	50.0000	50.5
86 n-Butylbenzene	91	9.392	9.394	(1.027)	287034	50.0000	54.4
85 1,2-Dichlorobenzene	146	9.403	9.404	(1.028)	199469	50.0000	54.0
87 1,2-Dibromo-3-chloropropane	155	9.899	9.901	(1.083)	25049	50.0000	52.0
88 1,2,4-Trichlorobenzene	180	10.406	10.412	(1.138)	119781	50.0000	51.0
89 Hexachlorobutadiene	225	10.504	10.505	(1.149)	45003	50.0000	51.6
90 Naphthalene	128	10.555	10.557	(1.154)	266334	50.0000	51.2
91 1,2,3-Trichlorobenzene	180	10.700	10.702	(1.170)	97465	50.0000	50.6
92 2,methyl-naphthalene	142	11.243	11.244	(1.229)	20503	50.0000	57.6

QC Flag Legend

M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A01CCV.D
Lab Smp Id: ccv 34A-105/115
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Misc Info:

Calibration Date: 08-FEB-2010
Calibration Time: 22:40
Client Smp ID: ccv
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	375175	187588	750350	401977	7.14
59 Chlorobenzene-d5	311570	155785	623140	299023	-4.03
82 1,4-Dichlorobenze	143655	71828	287310	129503	-9.85

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.18	3.68	4.68	4.18	0.11
59 Chlorobenzene-d5	7.40	6.90	7.90	7.41	0.06
82 1,4-Dichlorobenze	9.14	8.64	9.64	9.14	0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV2.i Injection Date: 09-FEB-2010 11:20
Lab File ID: A01CCV.D Init. Cal. Date(s): 26-JAN-2010 26-JAN-2010
Analysis Type: WATER Init. Cal. Times: 12:58 16:56
Lab Sample ID: ccv 34A-105/115 Quant Type: ISTD
Method: \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 Dichlorodifluoromethane	50.00000	39.07114	0.42744	0.000	-21.85772	0.000e+000	Linear	
2 Chloromethane	0.44136	0.33520	0.33520	0.000	-24.05356	20.00000	Averaged	<-
3 Vinyl Chloride	50.00000	44.17290	0.41359	0.000	-11.65419	0.000e+000	Linear	
4 Bromomethane	50.00000	37.19484	0.09483	0.000	-25.61033	0.000e+000	Linear	
5 Chloroethane	50.00000	41.07351	0.22024	0.000	-17.85298	0.000e+000	Linear	
6 Trichlorofluoromethane	50.00000	45.29744	0.45730	0.000	-9.40512	0.000e+000	Linear	
28 1,2-dichlorotrifluoroethane	50.00000	51.22991	0.45753	0.000	2.45981	0.000e+000	Linear	
7 Diethyl ether	50.00000	51.01829	0.18581	0.000	2.03657	0.000e+000	Linear	
17 tert-Butyl Alcohol	100	88.52233	0.03455	0.000	-11.47767	0.000e+000	Linear	
8 Acrolein	0.03395	0.04867	0.04867	0.000	43.33594	20.00000	Averaged	<-
10 1,1,2trichlorotrifluoroetha	50.00000	51.33549	0.32716	0.000	2.67098	0.000e+000	Linear	
9 1,1-Dichloroethene	50.00000	50.42665	0.27567	0.000	0.85330	0.000e+000	Linear	
11 Acetone	250	241	0.07319	0.000	-3.49019	0.000e+000	Linear	
12 Iodomethane	100	42.34833	0.13612	0.000	-57.65167	0.000e+000	Quadratic	
13 Carbon Disulfide	0.86731	0.96701	0.96701	0.000	11.49580	20.00000	Averaged	
14 allyl chloride	100	105	0.40424	0.000	4.96859	0.000e+000	Linear	
145 Acetonitrile	0.00012	0.00009	0.00009	0.000	-24.95500	20.00000	Averaged	<-
138 Methyl Acetate	50.00000	51.39020	0.24669	0.000	2.78041	0.000e+000	Linear	
15 Methylene Chloride	50.00000	46.90545	0.30140	0.000	-6.18910	0.000e+000	Linear	
16 Acrylonitrile	1000	993	0.10986	0.000	-0.70937	0.000e+000	Linear	
19 Methyl-tert-butyl ether	100	97.63186	0.76480	0.000	-2.36814	0.000e+000	Linear	
18 1,2-Dichloroethene (trans)	50.00000	45.02026	0.28624	0.000	-9.95948	0.000e+000	Linear	
20 n-Hexane	0.36219	0.35075	0.35075	0.000	-3.15856	20.00000	Averaged	
21 1,1-Dichloroethane	0.61090	0.53130	0.53130	0.000	-13.02952	20.00000	Averaged	
23 Vinyl Acetate	0.64859	0.62167	0.62167	0.000	-4.15003	20.00000	Averaged	
140 Ethyl acetate	500	462	0.02783	0.000	-7.51481	0.000e+000	Linear	
147 Chloroprene	0.45921	0.41633	0.41633	0.000	-9.33639	20.00000	Averaged	
24 2,2-Dichloropropane	0.44654	0.44157	0.44157	0.000	-1.11245	20.00000	Averaged	
25 1,2-Dichloroethene (cis)	50.00000	45.84777	0.36288	0.000	-8.30446	0.000e+000	Linear	
26 2-Butanone	0.15498	0.14143	0.14143	0.000	-8.74421	20.00000	Averaged	
27 Propionitrile	50.00000	46.09388	0.04634	0.000	-7.81223	0.000e+000	Linear	
29 Bromochloromethane	50.00000	59.66369	0.26158	0.000	19.32738	0.000e+000	Linear	
146 Methacrylonitrile	250	325	0.04683	0.000	29.84824	0.000e+000	Linear	
31 Chloroform	0.57587	0.51932	0.51932	0.000	-9.82051	20.00000	Averaged	
$ 32 Dibromofluoromethane (S)	0.30619	0.29971	0.29971	0.000	-2.11563	20.00000	Averaged	
33 1,1,1-Trichloroethane	50.00000	47.12093	0.48644	0.000	-5.75814	0.000e+000	Linear	
30 Tetrahydrofuran	50.00000	46.38709	0.09719	0.000	-7.22582	0.000e+000	Linear	
34 cyclohexane	50.00000	47.88831	0.47875	0.000	-4.22339	0.000e+000	Linear	
37 Isobutyl alcohol	0.77491	0.70715	0.70715	0.000	-8.74421	20.00000	Averaged	
35 Carbon Tetrachloride	0.46894	0.44001	0.44001	0.000	-6.16927	20.00000	Averaged	
36 1,1-Dichloropropene	0.43502	0.40688	0.40688	0.000	-6.46941	20.00000	Averaged	
38 Benzene	1.25414	1.09851	1.09851	0.000	-12.40972	20.00000	Averaged	

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV2.i Injection Date: 09-FEB-2010 11:20
Lab File ID: A01CCV.D Init. Cal. Date(s): 26-JAN-2010 26-JAN-2010
Analysis Type: WATER Init. Cal. Times: 12:58 16:56
Lab Sample ID: ccv 34A-105/115 Quant Type: ISTD
Method: \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
141 isopropyl acetate	0.01746	0.00081	0.00081	0.000	-95.38807	20.00000	Averaged	<-
39 1,2-Dichloroethane	50.00000	48.00963	0.36053	0.000	-3.98074	0.000e+000	Linear	
41 Trichloroethene	50.00000	46.41062	0.31992	0.000	-7.17876	0.000e+000	Linear	
139 Methylcyclohexane	50.00000	47.49703	0.34204	0.000	-5.00593	0.000e+000	Linear	
42 1,2-Dichloropropane	50.00000	46.06460	0.26778	0.000	-7.87081	0.000e+000	Wt Linear	
43 Dibromomethane	50.00000	45.87199	0.19951	0.000	-8.25602	0.000e+000	Linear	
44 Methyl methacrylate	50.00000	46.37144	0.22587	0.000	-7.25711	0.000e+000	Linear	
143 2,2,4-Trimethylpentane	0.73883	0.69679	0.69679	0.000	-5.69119	20.00000	Averaged	
144 1,4-Dioxane	0.00018	0.00003	0.00003	0.000	-80.84590	20.00000	Averaged	<-
45 Bromodichloromethane	50.00000	45.72326	0.38379	0.000	-8.55349	0.000e+000	Linear	
46 2-Chloroethyl vinyl ether	50.00000	53.18704	0.54891	0.000	6.37408	0.000e+000	Linear	
47 cis-1,3-Dichloropropene	50.00000	52.77151	0.59164	0.000	5.54303	0.000e+000	Linear	
48 4-Methyl-2-Pentanone	0.35227	0.35927	0.35927	0.000	1.98532	20.00000	Averaged	
$ 49 Toluene-d8	1.05250	1.13368	1.13368	0.000	7.71245	20.00000	Averaged	
50 Toluene	1.52935	1.50553	1.50553	0.000	-1.55764	20.00000	Averaged	
51 trans-1,3-Dichloropropene	50.00000	52.45315	0.56697	0.000	4.90630	0.000e+000	Linear	
52 Ethyl Methacrylate	50.00000	52.81936	0.53676	0.000	5.63871	0.000e+000	Linear	
53 1,1,2-Trichloroethane	50.00000	53.52794	0.27060	0.000	7.05588	0.000e+000	Linear	
54 Tetrachloroethene	50.00000	52.04670	0.54168	0.000	4.09340	0.000e+000	Linear	
55 1,3-Dichloropropane	50.00000	53.30522	0.57940	0.000	6.61043	0.000e+000	Linear	
56 2-Hexanone	250	282	0.24661	0.000	12.78821	0.000e+000	Linear	
57 Dibromochloromethane	0.41715	0.43959	0.43959	0.000	5.38033	20.00000	Averaged	
58 1,2-Dibromoethane	50.00000	52.34560	0.43116	0.000	4.69120	0.000e+000	Linear	
60 Chlorobenzene	1.05673	1.03296	1.03296	0.000	-2.24856	20.00000	Averaged	
61 1,1,1,2-Tetrachloroethane	0.37886	0.39498	0.39498	0.000	4.25275	20.00000	Averaged	
62 Ethylbenzene	0.55572	0.54910	0.54910	0.000	-1.19106	20.00000	Averaged	
63 m&p-Xylene	0.70640	0.69357	0.69357	0.000	-1.81642	20.00000	Averaged	
65 o-Xylene	0.68865	0.69409	0.69409	0.000	0.79000	20.00000	Averaged	
66 Styrene	1.09458	1.11832	1.11832	0.000	2.16871	20.00000	Averaged	
67 Bromoform	50.00000	52.23985	0.74821	0.000	4.47970	0.000e+000	Linear	
68 Isopropylbenzene	1.71634	1.71736	1.71736	0.000	0.05914	20.00000	Averaged	
69 trans-1,4-Dichloro-2-butene	50.00000	55.48441	0.12651	0.000	10.96882	0.000e+000	Linear	
142 n-amyl acetate	0.00834	0.00055	0.00055	0.000	-93.43918	20.00000	Averaged	<-
$ 70 4-Bromofluorobenzene	0.44264	0.43573	0.43573	0.000	-1.56046	20.00000	Averaged	
71 Bromobenzene	50.00000	66.76402	0.71826	0.000	33.52803	0.000e+000	Linear	
72 1,1,2,2-Tetrachloroethane	0.92693	1.00234	1.00234	0.000	8.13534	20.00000	Averaged	
73 1,2,3-Trichloropropane	1.08177	1.14032	1.14032	0.000	5.41209	20.00000	Averaged	
74 n-Propylbenzene	3.69097	3.89103	3.89103	0.000	5.42022	20.00000	Averaged	
75 2-Chlorotoluene	2.42129	2.40278	2.40278	0.000	-0.76454	20.00000	Averaged	
77 1,3,5-Trimethylbenzene	2.68992	2.79409	2.79409	0.000	3.87251	20.00000	Averaged	
76 4-Chlorotoluene	50.00000	51.70662	0.84047	0.000	3.41325	0.000e+000	Linear	
78 tert-Butylbenzene	3.09804	3.29408	3.29408	0.000	6.32790	20.00000	Averaged	
79 1,2,4-Trimethylbenzene	2.66407	2.72542	2.72542	0.000	2.30288	20.00000	Averaged	

Pace Analytical Services, Inc.

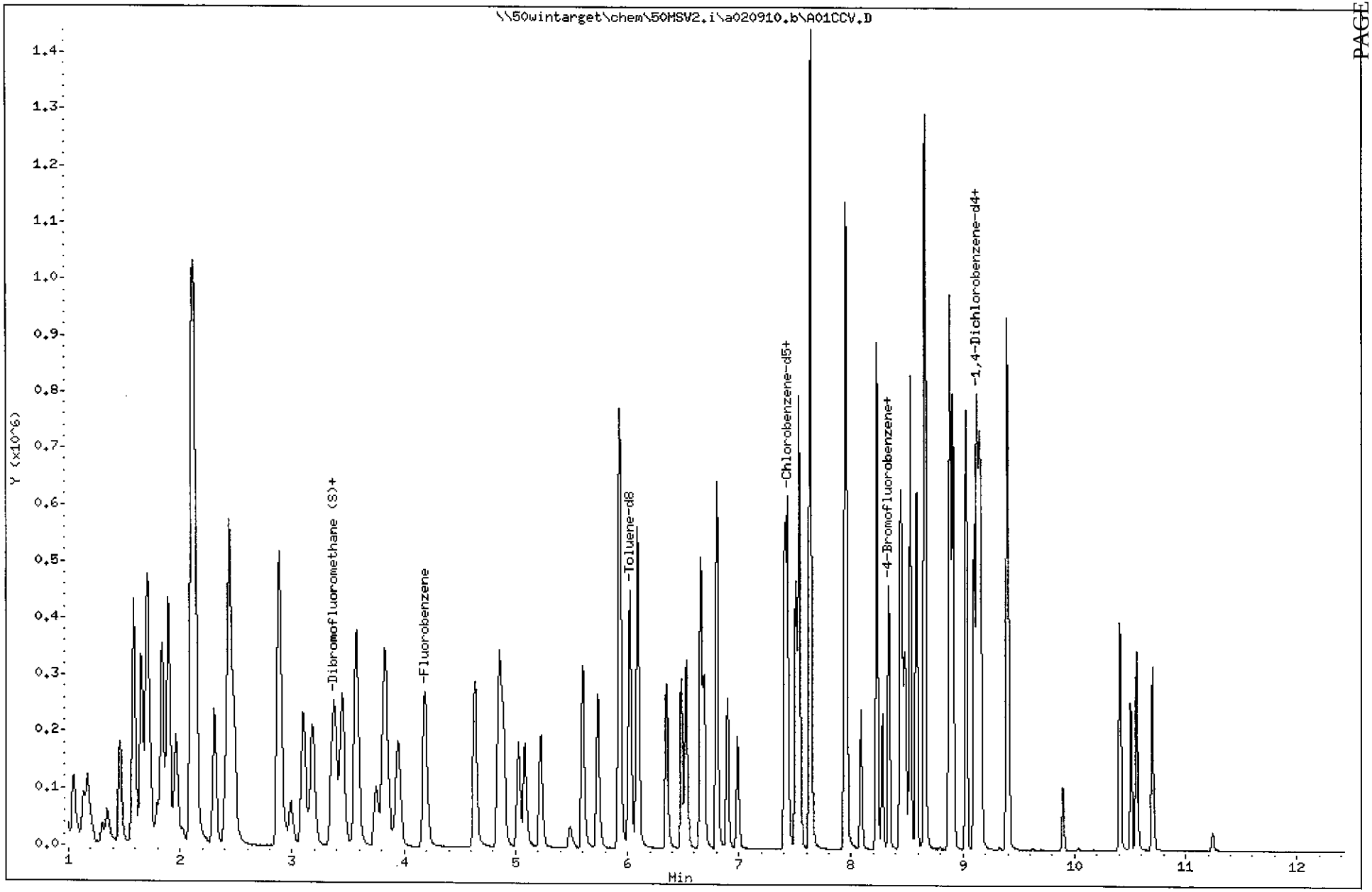
CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV2.i Injection Date: 09-FEB-2010 11:20
Lab File ID: A01CCV.D Init. Cal. Date(s): 26-JAN-2010 26-JAN-2010
Analysis Type: WATER Init. Cal. Times: 12:58 16:56
Lab Sample ID: ccv 34A-105/115 Quant Type: ISTD
Method: \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
80 sec-Butylbenzene	3.37991	3.51722	3.51722	0.000	4.06236	20.00000	Averaged
81 1,3-Dichlorobenzene	1.53724	1.60732	1.60732	0.000	4.55888	20.00000	Averaged
83 p-Isopropyltoluene	2.71269	2.87620	2.87620	0.000	6.02749	20.00000	Averaged
84 1,4-Dichlorobenzene	1.59513	1.61123	1.61123	0.000	1.00915	20.00000	Averaged
86 n-Butylbenzene	50.00000	54.45172	2.21643	0.000	8.90343	0.000e+000	Linear
85 1,2-Dichlorobenzene	1.42467	1.54027	1.54027	0.000	8.11355	20.00000	Averaged
87 1,2-Dibromo-3-chloropropane	50.00000	51.96734	0.19342	0.000	3.93468	0.000e+000	Linear
88 1,2,4-Trichlorobenzene	50.00000	50.98345	0.92493	0.000	1.96690	0.000e+000	Linear
89 Hexachlorobutadiene	50.00000	51.56986	0.34751	0.000	3.13972	0.000e+000	Linear
90 Naphthalene	50.00000	51.25955	2.05659	0.000	2.51910	0.000e+000	Linear
91 1,2,3-Trichlorobenzene	50.00000	50.55544	0.75261	0.000	1.11088	0.000e+000	Linear
92 2,methyl-naphthalene	50.00000	57.59032	0.15832	0.000	15.18063	0.000e+000	Linear

Data File: \\50wintarget\chem\50MSV2.i\a020910.b\A01CCV.D
Date : 09-FEB-2010 11:20
Client ID: ccv
Sample Info: ccv 34A-105/115
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: A021010.B

Lab File ID: A01CCV-BFB BFB Injection Date: 02/10/10

Instrument ID: 50MSV2 BFB Injection Time: 1238

GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.9
75	30.0 - 60.0% of mass 95	44.6
95	Base Peak, 100% relative abundance	100.0
95	100.0 - 100.0% of mass 95	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	68.4
175	5.0 - 9.0% of mass 174	5.5 (8.0)1
176	95.0 - 101.0% of mass 174	66.1 (96.5)1
177	5.0 - 9.0% of mass 176	4.7 (7.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV	CCV 34A-105/11	A01CCV	02/10/10	1238
02	LCS	396178	A02LCS	02/10/10	1312
03	MB	396177	A03MB	02/10/10	1346
04	5034508004	5034508004	A04	02/10/10	1419
05	5034508005	5034508005	A05	02/10/10	1453
06	5034508009	5034508009	A06	02/10/10	1527
07	5034465001	5034465001	A07	02/10/10	1601
08	5034465002	5034465002	A08	02/10/10	1635
09	5034465003	5034465003	A09	02/10/10	1710
10	5034465004	5034465004	A10	02/10/10	1744
11	MS5034465004	396179	A11	02/10/10	1818
12	5034465005	5034465005	A12	02/10/10	1852
13	5034465006	5034465006	A13	02/10/10	1926
14	5034465007	5034465007	A14	02/10/10	2000
15	5034465008	5034465008	A15	02/10/10	2034
16	5034465009	5034465009	A16	02/10/10	2108
17	5034465010	5034465010	A17	02/10/10	2142
18	5034465011	5034465011	A18	02/10/10	2216
19	5034465012	5034465012	A19	02/10/10	2250
20	5034465013	5034465013	A20	02/10/10	2325
21	5034465014	5034465014	A21	02/10/10	2358
22	5034465015	5034465015	A22	02/11/10	0033

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: A021010.B

Instrument ID: 50MSV2 Calibration Date: 02/10/10 Time: 1238

Lab File ID: A01CCV Init. Calib. Date(s): 01/26/10 01/26/10

Heated Purge: (Y/N) N Init. Calib. Times: 1258 1656

GC Column: DB-624 ID: 0.18 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d
Bromochloromethane	60.0	50.0	LINR	-20.0	20.0
Chloromethane	43.6	50.0	AVRG	12.8	20.0
Bromomethane	45.7	50.0	LINR	8.6	20.0
Vinyl Chloride	46.6	50.0	LINR	6.8	20.0
Chloroethane	43.9	50.0	LINR	12.2	20.0
Methylene Chloride	46.0	50.0	LINR	8.0	20.0
1,1-Dichloroethene	49.9	50.0	LINR	0.2	20.0
1,1-Dichloroethane	43.3	50.0	AVRG	13.4	20.0
1,2-Dichloroethene (trans)	45.1	50.0	LINR	9.8	20.0
Chloroform	44.5	50.0	AVRG	11.0	20.0
1,2-Dichloroethane	47.4	50.0	LINR	5.2	20.0
1,1,1-Trichloroethane	45.7	50.0	LINR	8.6	20.0
Carbon Tetrachloride	45.1	50.0	AVRG	9.8	20.0
Bromodichloromethane	44.1	50.0	LINR	11.8	20.0
1,2-Dichloropropane	45.8	50.0	WLINR	8.4	20.0
trans-1,3-Dichloropropene	50.3	50.0	LINR	-0.6	20.0
Trichloroethene	45.6	50.0	LINR	8.8	20.0
Dibromochloromethane	50.9	50.0	AVRG	-1.8	20.0
1,1,2-Trichloroethane	52.6	50.0	LINR	-5.2	20.0
Benzene	43.2	50.0	AVRG	13.6	20.0
cis-1,3-Dichloropropene	52.2	50.0	LINR	-4.4	20.0
Bromoform	48.6	50.0	LINR	2.8	20.0
Tetrachloroethene	47.3	50.0	LINR	5.4	20.0
1,1,2,2-Tetrachloroethane	52.6	50.0	AVRG	-5.2	20.0
Toluene	48.4	50.0	AVRG	3.2	20.0
Chlorobenzene	48.1	50.0	AVRG	3.8	20.0
Ethylbenzene	48.9	50.0	AVRG	2.2	20.0
Styrene	50.3	50.0	AVRG	-0.6	20.0
Trichlorofluoromethane	47.3	50.0	LINR	5.4	20.0
m&p-Xylene	97.4	100	AVRG	2.6	20.0
1,2-Dichloroethene (cis)	45.2	50.0	LINR	9.6	20.0
o-Xylene	49.3	50.0	AVRG	1.4	20.0
1,2,3-Trichloropropane	50.1	50.0	AVRG	-0.2	20.0
1,3-Dichlorobenzene	50.1	50.0	AVRG	-0.2	20.0
1,4-Dichlorobenzene	49.4	50.0	AVRG	1.2	20.0
Dibromomethane	45.0	50.0	LINR	10.0	20.0
1,2-Dichlorobenzene	52.3	50.0	AVRG	-4.6	20.0

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: A021010.B

Instrument ID: 50MSV2 Calibration Date: 02/10/10 Time: 1238

Lab File ID: A01CCV Init. Calib. Date(s): 01/26/10 01/26/10

Heated Purge: (Y/N) N Init. Calib. Times: 1258 1656

GC Column: DB-624 ID: 0.18 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d	
Dichlorodifluoromethane	45.0	50.0	LINR	10.0	20.0	
2,2-Dichloropropane	45.7	50.0	AVRG	8.6	20.0	
1,1-Dichloropropene	45.9	50.0	AVRG	8.2	20.0	
1,3-Dichloropropane	53.0	50.0	LINR	-6.0	20.0	
1,2-Dibromoethane	51.7	50.0	LINR	-3.4	20.0	
1,1,1,2-Tetrachloroethane	50.2	50.0	AVRG	-0.4	20.0	
Isopropylbenzene	48.9	50.0	AVRG	2.2	20.0	
Bromobenzene	64.8	50.0	LINR	-29.6	20.0	<-
n-Propylbenzene	51.5	50.0	AVRG	-3.0	20.0	
2-Chlorotoluene	48.9	50.0	AVRG	2.2	20.0	
4-Chlorotoluene	50.4	50.0	LINR	-0.8	20.0	
1,3,5-Trimethylbenzene	50.5	50.0	AVRG	-1.0	20.0	
tert-Butylbenzene	52.5	50.0	AVRG	-5.0	20.0	
1,2,4-Trimethylbenzene	49.4	50.0	AVRG	1.2	20.0	
sec-Butylbenzene	50.7	50.0	AVRG	-1.4	20.0	
p-Isopropyltoluene	51.4	50.0	AVRG	-2.8	20.0	
n-Butylbenzene	52.4	50.0	LINR	-4.8	20.0	
1,2-Dibromo-3-chloropropane	47.8	50.0	LINR	4.4	20.0	
1,2,4-Trichlorobenzene	47.2	50.0	LINR	5.6	20.0	
Hexachlorobutadiene	46.4	50.0	LINR	7.2	20.0	
Naphthalene	46.6	50.0	LINR	6.8	20.0	
1,2,3-Trichlorobenzene	44.8	50.0	LINR	10.4	20.0	
Acrolein	1670	1000	AVRG	-67.0	20.0	<-
Carbon Disulfide	109	100	AVRG	-9.0	20.0	
Acetone	231	250	LINR	7.6	20.0	
Acrylonitrile	955	1000	LINR	4.5	20.0	
Vinyl Acetate	186	200	AVRG	7.0	20.0	
2-Butanone	217	250	AVRG	13.2	20.0	
2-Chloroethyl vinyl ether	51.8	50.0	LINR	-3.6	20.0	
4-Methyl-2-Pentanone	243	250	AVRG	2.8	20.0	
2-Hexanone	263	250	LINR	-5.2	20.0	
Methyl-tert-butyl ether	94.7	100	LINR	5.3	20.0	
Iodomethane	51.8	100	2ORDR	48.2	20.0	<-
trans-1,4-Dichloro-2-butene	50.6	50.0	LINR	-1.2	20.0	
Ethyl Methacrylate	50.7	50.0	LINR	-1.4	20.0	
2,methyl-naphthalene	53.7	50.0	LINR	-7.4	20.0	
n-Hexane	46.8	50.0	AVRG	6.4	20.0	

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: A021010.B

Instrument ID: 50MSV2 Calibration Date: 02/10/10 Time: 1238

Lab File ID: A01CCV Init. Calib. Date(s): 01/26/10 01/26/10

Heated Purge: (Y/N) N Init. Calib. Times: 1258 1656

GC Column: DB-624 ID: 0.18 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d	
cyclohexane	46.4	50.0	LINR	7.2	20.0	
1,1,2trichlorotrifluoroethan	50.3	50.0	LINR	-0.6	20.0	
1,2-dichlorotrifluoroethane	50.8	50.0	LINR	-1.6	20.0	
Tetrahydrofuran	44.2	50.0	LINR	11.6	20.0	
allyl chloride	102	100	LINR	-2.0	20.0	
Diethyl ether	51.7	50.0	LINR	-3.4	20.0	
Isobutyl alcohol	43.3	50.0	AVRG	13.4	20.0	
Methyl methacrylate	44.0	50.0	LINR	12.0	20.0	
Propionitrile	43.5	50.0	LINR	13.0	20.0	
tert-Butyl Alcohol	80.8	100	LINR	19.2	20.0	
Methyl Acetate	48.4	50.0	LINR	3.2	20.0	
Methylcyclohexane	47.1	50.0	LINR	5.8	20.0	
Ethyl acetate	462	500	LINR	7.6	20.0	
isopropyl acetate	11.3	250	AVRG	95.5	20.0	<-
n-amyl acetate	12.5	250	AVRG	95.0	20.0	<-
2,2,4-Trimethylpentane	45.2	50.0	AVRG	9.6	20.0	
1,4-Dioxane	227	1000	AVRG	77.3	20.0	<-
Acetonitrile	560	1000	AVRG	44.0	20.0	<-
Methacrylonitrile	306	250	LINR	-22.4	20.0	<-
Chloroprene	44.4	50.0	AVRG	11.2	20.0	
Toluene-d8	54.5	50.0	AVRG	-9.0	20.0	
4-Bromofluorobenzene	49.0	50.0	AVRG	2.0	20.0	
Dibromofluoromethane (S)	49.4	50.0	AVRG	1.2	20.0	

Data File: \\50wintarget\chem\50MSV2.i\a021010.b\A01CCV-BFB.D

Date : 10-FEB-2010 12:38

Client ID: bfb050

Instrument: 50MSV2.i

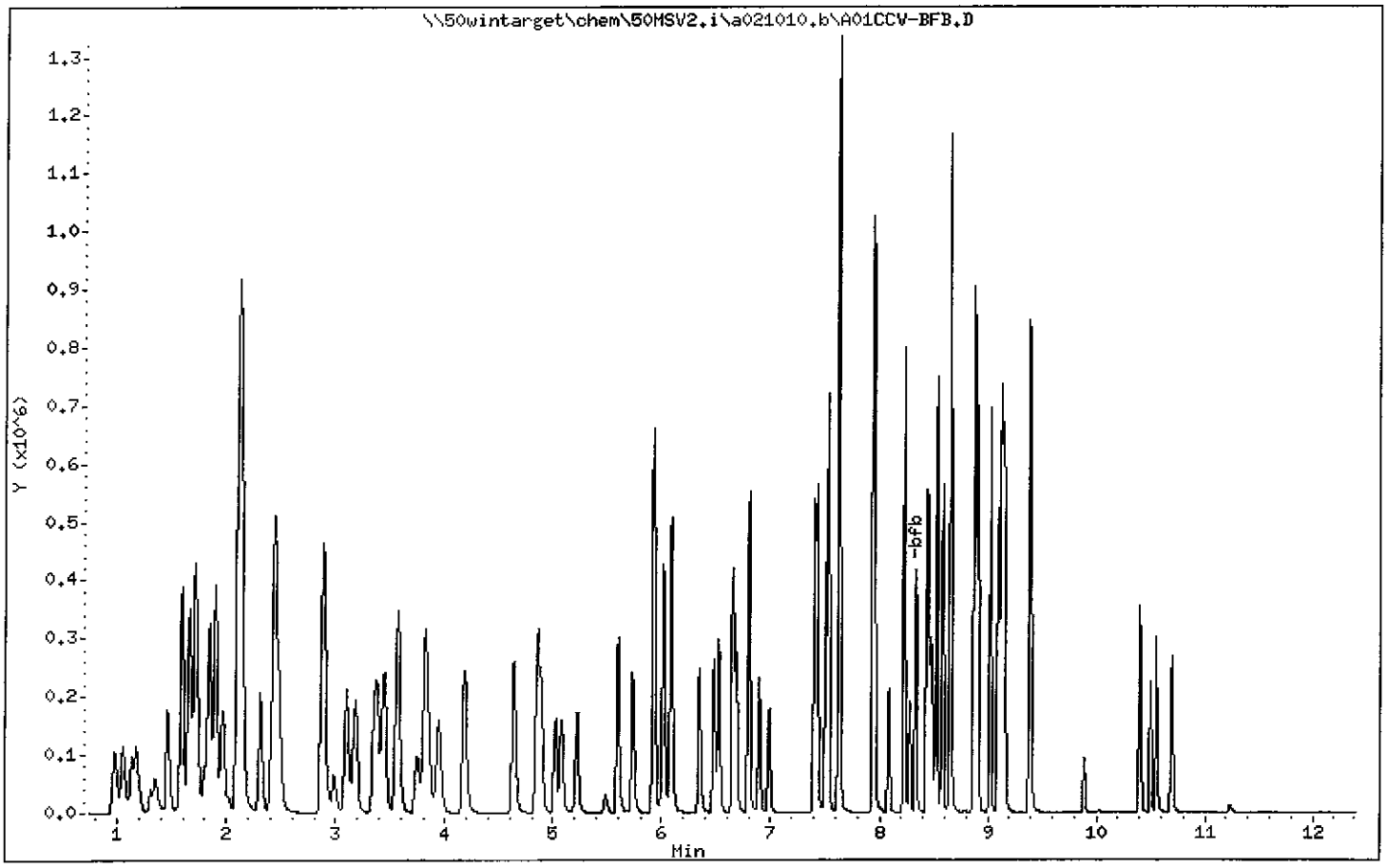
Sample Info: ccv 34A-105/115

Volume Injected (uL): 5.0

Operator: jlf

Column phase: DB-624

Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV2.i\a021010.b\A01CCV-BFB.D

Date : 10-FEB-2010 12:38

Client ID: bfb050

Instrument: 50MSV2.i

Sample Info: ccv 34A-105/115

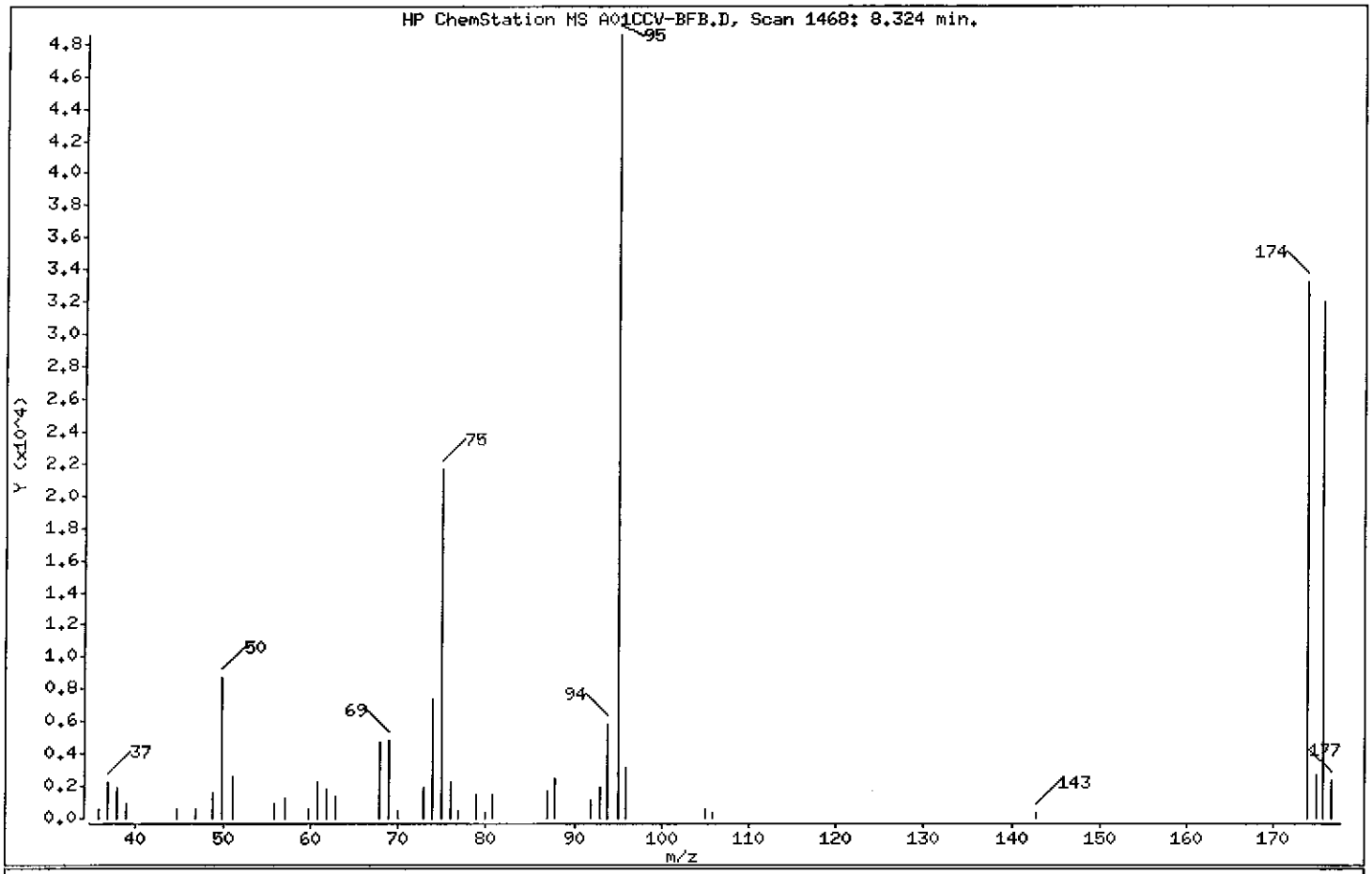
Volume Injected (uL): 5.0

Operator: jlf

Column phase: DB-624

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.91
75	30.00 - 60.00% of mass 95	44.63
96	5.00 - 9.00% of mass 95	6.51
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	68.45
175	5.00 - 9.00% of mass 174	5.50 (8.03)
176	95.00 - 101.00% of mass 174	66.07 (96.53)
177	5.00 - 9.00% of mass 176	4.73 (7.16)
95	100.00 - 100.00% of mass 95	100.00

Data File: \\50wintarget\chem\50MSV2.i\a021010.b\A01CCV-BFB.D

Date : 10-FEB-2010 12:38

Client ID: bfb050 Instrument: 50MSV2.i

Sample Info: ccv 34A-105/115

Volume Injected (uL): 5.0 Operator: jlf

Column phase: DB-624 Column diameter: 0.18

Data File: A01CCV-BFB.D
Spectrum: HP ChemStation MS A01CCV-BFB.D, Scan 1468: 8.324 min.
Location of Maximum: 95.00
Number of points: 40

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.90	541	59.90	567	76.90	438	105.00	505
36.90	2232	60.90	2213	78.90	1463	105.90	369
38.00	1863	61.90	1764	79.90	382	142.85	376
39.00	940	62.90	1371	80.80	1428	173.85	33216
44.90	589	67.90	4713	86.90	1723	174.85	2667
46.90	598	68.90	4744	87.90	2488	175.85	32064
48.90	1519	69.90	423	91.90	1116	176.85	2295
49.90	8690	72.90	1879	92.90	1935		
51.00	2554	73.90	7410	93.90	5781		
55.90	884	74.90	21656	95.00	48528		
57.00	1175	75.90	2213	95.90	3159		

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a021010.b\A01CCV.D
Lab Smp Id: ccv 34A-105/115 Client Smp ID: ccv
Inj Date : 10-FEB-2010 12:38
Operator : jlf Inst ID: 50MSV2.i
Smp Info : ccv 34A-105/115
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a021010.b\-8260-c1.m
Meth Date : 11-Feb-2010 10:29 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 50-VOA-JLF

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	1.046	1.046	(0.250)	180889	50.0000	45.0
2 Chloromethane	50	1.134	1.134	(0.271)	143495	50.0000	43.6
3 Vinyl Chloride	62	1.170	1.170	(0.280)	161928	50.0000	46.6
4 Bromomethane	94	1.304	1.304	(0.312)	42262	50.0000	45.7
5 Chloroethane	64	1.346	1.346	(0.322)	87637	50.0000	43.9
6 Trichlorofluoromethane	101	1.459	1.459	(0.349)	177871	50.0000	47.3
28 1,2-dichlorotrifluoroethane	67	1.578	1.578	(0.378)	168974	50.0000	50.8
7 Diethyl ether	74	1.589	1.589	(0.380)	70056	50.0000	51.7
17 tert-Butyl Alcohol	59	2.023	2.023	(0.484)	23235	100.000	80.8(M)
8 Acrolein	56	1.651	1.651	(0.395)	421561	1000.00	1670
10 1,1,2trichlorotrifluoroethane	101	1.702	1.702	(0.408)	119696	50.0000	50.3
9 1,1-Dichloroethene	96	1.707	1.707	(0.409)	101761	50.0000	49.9
11 Acetone	43	1.728	1.728	(0.414)	130842	250.000	231
12 Iodomethane	142	1.795	1.795	(0.430)	124945	100.000	51.8
13 Carbon Disulfide	76	1.837	1.837	(0.440)	701683	100.000	109
14 allyl chloride	41	1.893	1.893	(0.453)	294791	100.000	102
145 Acetonitrile	41	1.211	1.211	(0.290)	483	1000.00	560
138 Methyl Acetate	43	1.899	1.899	(0.455)	86884	50.0000	48.4
15 Methylene Chloride	84	1.961	1.961	(0.469)	110322	50.0000	46.0
16 Acrylonitrile	53	2.100	2.100	(0.503)	789511	1000.00	955
19 Methyl-tert-butyl ether	73	2.131	2.131	(0.510)	554174	100.000	94.7
18 1,2-Dichloroethene (trans)	96	2.126	2.126	(0.509)	106778	50.0000	45.1

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	20 n-Hexane	57	2.307	2.307	(0.552)	126368	50.0000	46.8
	21 1,1-Dichloroethane	63	2.405	2.405	(0.576)	196949	50.0000	43.3
	23 Vinyl Acetate	43	2.436	2.436	(0.583)	900298	200.000	186
	140 Ethyl acetate	88	2.478	2.478	(0.593)	103574	500.000	462
	147 Chloroprene	53	2.478	2.478	(0.593)	151935	50.0000	44.4
	24 2,2-Dichloropropane	77	2.876	2.876	(0.688)	152084	50.0000	45.7
	25 1,2-Dichloroethene (cis)	96	2.876	2.876	(0.688)	133454	50.0000	45.2
	26 2-Butanone	43	2.891	2.891	(0.692)	250132	250.000	217
	27 Propionitrile	54	2.943	2.943	(0.704)	16192	50.0000	43.5
	29 Bromochloromethane	49	3.098	3.098	(0.741)	97930	50.0000	60.0
	146 Methacrylonitrile	41	3.087	3.087	(0.739)	82259	250.000	306
	31 Chloroform	83	3.180	3.180	(0.761)	190816	50.0000	44.5
$	32 Dibromofluoromethane (S)	113	3.356	3.356	(0.803)	112740	50.0000	49.4
	33 1,1,1-Trichloroethane	97	3.377	3.377	(0.808)	176099	50.0000	45.7
	30 Tetrahydrofuran	42	3.160	3.160	(0.756)	34728	50.0000	44.2
	34 cyclohexane	56	3.444	3.444	(0.824)	173025	50.0000	46.4
	37 Isobutyl alcohol	43	2.891	2.891	(0.692)	250132	50.0000	43.3
	35 Carbon Tetrachloride	117	3.563	3.563	(0.853)	157486	50.0000	45.1
	36 1,1-Dichloropropene	75	3.568	3.568	(0.854)	148821	50.0000	45.9
	38 Benzene	78	3.816	3.816	(0.913)	403786	50.0000	43.2
	141 isopropyl acetate	61	3.744	3.744	(0.896)	1473	250.000	11.3
	39 1,2-Dichloroethane	62	3.842	3.842	(0.920)	132588	50.0000	47.4
*	40 Fluorobenzene	96	4.178	4.178	(1.000)	372422	50.0000	
	41 Trichloroethene	95	4.628	4.628	(1.108)	117294	50.0000	45.6
	139 Methylcyclohexane	55	4.850	4.850	(1.161)	126312	50.0000	47.1
	42 1,2-Dichloropropane	63	4.886	4.886	(1.169)	99107	50.0000	45.8
	43 Dibromomethane	93	5.020	5.020	(1.202)	72981	50.0000	45.0
	44 Methyl methacrylate	69	5.082	5.082	(1.216)	79803	50.0000	44.0
	143 2,2,4-Trimethylpentane	57	3.940	3.940	(0.943)	249019	50.0000	45.2
	144 1,4-Dioxane	88	5.088	5.088	(1.218)	308	1000.00	227
	45 Bromodichloromethane	83	5.217	5.217	(1.249)	137886	50.0000	44.1
	46 2-Chloroethyl vinyl ether	63	5.594	5.594	(0.756)	147284	50.0000	51.8
	47 cis-1,3-Dichloropropene	75	5.729	5.729	(0.774)	161354	50.0000	52.2
	48 4-Methyl-2-Pentanone	43	5.925	5.925	(0.800)	471671	250.000	243
$	49 Toluene-d8	98	6.013	6.013	(0.812)	315897	50.0000	54.5
	50 Toluene	91	6.085	6.085	(0.822)	407549	50.0000	48.4
	51 trans-1,3-Dichloropropene	75	6.344	6.344	(0.857)	150086	50.0000	50.3
	52 Ethyl Methacrylate	69	6.478	6.478	(0.875)	142195	50.0000	50.7
	53 1,1,2-Trichloroethane	83	6.524	6.524	(0.881)	73294	50.0000	52.6
	54 Tetrachloroethene	166	6.654	6.654	(0.899)	136516	50.0000	47.3
	55 1,3-Dichloropropane	76	6.685	6.685	(0.903)	158802	50.0000	53.0
	56 2-Hexanone	43	6.798	6.798	(0.918)	318035	250.000	263
	57 Dibromochloromethane	129	6.891	6.891	(0.931)	117090	50.0000	50.9
	58 1,2-Dibromoethane	107	6.984	6.984	(0.943)	117476	50.0000	51.7
*	59 Chlorobenzene-d5	117	7.403	7.403	(1.000)	275548	50.0000	
	60 Chlorobenzene	112	7.429	7.429	(1.003)	280059	50.0000	48.1
	61 1,1,1,2-Tetrachloroethane	131	7.501	7.501	(1.013)	104878	50.0000	50.2
	62 Ethylbenzene	106	7.532	7.532	(1.017)	149819	50.0000	48.9
	63 m&p-Xylene	106	7.631	7.631	(1.031)	379286	100.000	97.4
	65 o-Xylene	106	7.941	7.941	(1.073)	187232	50.0000	49.3
	66 Styrene	104	7.951	7.951	(1.074)	303415	50.0000	50.3
	67 Bromoform	173	8.085	8.085	(0.885)	83238	50.0000	48.6
	68 Isopropylbenzene	105	8.225	8.225	(1.111)	462985	50.0000	48.9
	69 trans-1,4-Dichloro-2-butene	53	8.488	8.488	(1.147)	31805	50.0000	50.6

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
142 n-amyl acetate	70	8.328	8.328	(1.125)	575	250.000	12.5
$ 70 4-Bromofluorobenzene	95	8.333	8.333	(1.126)	119461	50.0000	49.0
71 Bromobenzene	77	8.432	8.432	(1.139)	192473	50.0000	64.8
72 1,1,2,2-Tetrachloroethane	83	8.447	8.447	(0.924)	116628	50.0000	52.6
73 1,2,3-Trichloropropane	75	8.473	8.473	(0.927)	129765	50.0000	50.1
74 n-Propylbenzene	91	8.525	8.525	(0.933)	454974	50.0000	51.5
75 2-Chlorotoluene	91	8.576	8.576	(0.938)	283536	50.0000	48.9
77 1,3,5-Trimethylbenzene	105	8.649	8.649	(0.946)	325210	50.0000	50.5
76 4-Chlorotoluene	126	8.581	8.581	(0.939)	97975	50.0000	50.4
78 tert-Butylbenzene	119	8.876	8.876	(0.971)	389305	50.0000	52.5
79 1,2,4-Trimethylbenzene	105	8.907	8.907	(0.975)	315166	50.0000	49.4
80 sec-Butylbenzene	105	9.021	9.021	(0.987)	410368	50.0000	50.7
81 1,3-Dichlorobenzene	146	9.093	9.093	(0.995)	184240	50.0000	50.1
83 p-Isopropyltoluene	119	9.119	9.119	(0.998)	333482	50.0000	51.4
* 82 1,4-Dichlorobenzene-d4	152	9.140	9.140	(1.000)	119629	50.0000	
84 1,4-Dichlorobenzene	146	9.155	9.155	(1.002)	188455	50.0000	49.4
86 n-Butylbenzene	91	9.388	9.388	(1.027)	255178	50.0000	52.4
85 1,2-Dichlorobenzene	146	9.398	9.398	(1.028)	178256	50.0000	52.3
87 1,2-Dibromo-3-chloropropane	155	9.894	9.894	(1.083)	21081	50.0000	47.8
88 1,2,4-Trichlorobenzene	180	10.401	10.401	(1.138)	101995	50.0000	47.2
89 Hexachlorobutadiene	225	10.499	10.499	(1.149)	37311	50.0000	46.4
90 Naphthalene	128	10.551	10.551	(1.154)	221187	50.0000	46.6
91 1,2,3-Trichlorobenzene	180	10.695	10.695	(1.170)	78870	50.0000	44.8
92 2,methyl-naphthalene	142	11.233	11.233	(1.229)	10911	50.0000	53.7

QC Flag Legend

M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A01CCV.D
Lab Smp Id: ccv 34A-105/115
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a021010.b\-8260-c1.m
Misc Info:

Calibration Date: 09-FEB-2010
Calibration Time: 23:50
Client Smp ID: ccv
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	375175	187588	750350	372422	-0.73
59 Chlorobenzene-d5	311570	155785	623140	275548	-11.56
82 1,4-Dichlorobenze	143655	71828	287310	119629	-16.72

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.18	3.68	4.68	4.18	-0.00
59 Chlorobenzene-d5	7.40	6.90	7.90	7.40	-0.00
82 1,4-Dichlorobenze	9.14	8.64	9.64	9.14	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV2.i Injection Date: 10-FEB-2010 12:38
Lab File ID: A01CCV.D Init. Cal. Date(s): 26-JAN-2010 26-JAN-2010
Analysis Type: WATER Init. Cal. Times: 12:58 16:56
Lab Sample ID: ccv 34A-105/115 Quant Type: ISTD
Method: \\50wintarget\chem\50MSV2.i\a021010.b\-8260-c1.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 Dichlorodifluoromethane	50.00000	44.97798	0.48571	0.000	-10.04404	0.000e+000	Linear	
2 Chloromethane	0.44136	0.38530	0.38530	0.000	-12.70208	20.00000	Averaged	
3 Vinyl Chloride	50.00000	46.60023	0.43460	0.000	-6.79953	0.000e+000	Linear	
4 Bromomethane	50.00000	45.66755	0.11348	0.000	-8.66490	0.000e+000	Linear	
5 Chloroethane	50.00000	43.88560	0.23532	0.000	-12.22881	0.000e+000	Linear	
6 Trichlorofluoromethane	50.00000	47.34588	0.47761	0.000	-5.30823	0.000e+000	Linear	
28 1,2-dichlorotrifluoroethane	50.00000	50.75212	0.45372	0.000	1.50424	0.000e+000	Linear	
7 Diethyl ether	50.00000	51.71176	0.18811	0.000	3.42352	0.000e+000	Linear	
17 tert-Butyl Alcohol	100	80.79107	0.03119	0.000	-19.20893	0.000e+000	Linear	
8 Acrolein	0.03395	0.05660	0.05660	0.000	66.69458	20.00000	Averaged	<-
10 1,1,2trichlorotrifluoroetha	50.00000	50.32151	0.32140	0.000	0.64303	0.000e+000	Linear	
9 1,1-Dichloroethene	50.00000	49.93478	0.27324	0.000	-0.13044	0.000e+000	Linear	
11 Acetone	250	231	0.07027	0.000	-7.64659	0.000e+000	Linear	
12 Iodomethane	100	51.77218	0.16775	0.000	-48.22782	0.000e+000	Quadratic	
13 Carbon Disulfide	0.86731	0.94205	0.94205	0.000	8.61814	20.00000	Averaged	
14 allyl chloride	100	103	0.39578	0.000	2.52621	0.000e+000	Linear	
145 Acetonitrile	0.00012	0.00006	0.00006	0.000	-43.94952	20.00000	Averaged	<-
138 Methyl Acetate	50.00000	48.45718	0.23329	0.000	-3.08565	0.000e+000	Linear	
15 Methylene Chloride	50.00000	46.04158	0.29623	0.000	-7.91685	0.000e+000	Linear	
16 Acrylonitrile	1000	955	0.10600	0.000	-4.51883	0.000e+000	Linear	
19 Methyl-tert-butyl ether	100	94.74305	0.74401	0.000	-5.25695	0.000e+000	Linear	
18 1,2-Dichloroethene (trans)	50.00000	45.09745	0.28671	0.000	-9.80509	0.000e+000	Linear	
20 n-Hexane	0.36219	0.33931	0.33931	0.000	-6.31573	20.00000	Averaged	
21 1,1-Dichloroethane	0.61090	0.52883	0.52883	0.000	-13.43362	20.00000	Averaged	
23 Vinyl Acetate	0.64859	0.60435	0.60435	0.000	-6.82019	20.00000	Averaged	
140 Ethyl acetate	500	462	0.02781	0.000	-7.58662	0.000e+000	Linear	
147 Chloroprene	0.45921	0.40796	0.40796	0.000	-11.15913	20.00000	Averaged	
24 2,2-Dichloropropane	0.44654	0.40836	0.40836	0.000	-8.54812	20.00000	Averaged	
25 1,2-Dichloroethene (cis)	50.00000	45.24750	0.35834	0.000	-9.50500	0.000e+000	Linear	
26 2-Butanone	0.15498	0.13433	0.13433	0.000	-13.32750	20.00000	Averaged	
27 Propionitrile	50.00000	43.48535	0.04348	0.000	-13.02929	0.000e+000	Linear	
29 Bromochloromethane	50.00000	59.99964	0.26295	0.000	19.99929	0.000e+000	Linear	
146 Methacrylonitrile	250	306	0.04418	0.000	22.38274	0.000e+000	Linear	
31 Chloroform	0.57587	0.51237	0.51237	0.000	-11.02794	20.00000	Averaged	
$ 32 Dibromofluoromethane (S)	0.30619	0.30272	0.30272	0.000	-1.13342	20.00000	Averaged	
33 1,1,1-Trichloroethane	50.00000	45.73531	0.47285	0.000	-8.52937	0.000e+000	Linear	
30 Tetrahydrofuran	50.00000	44.17525	0.09325	0.000	-11.64950	0.000e+000	Linear	
34 cyclohexane	50.00000	46.38831	0.46459	0.000	-7.22337	0.000e+000	Linear	
37 Isobutyl alcohol	0.77491	0.67164	0.67164	0.000	-13.32750	20.00000	Averaged	
35 Carbon Tetrachloride	0.46894	0.42287	0.42287	0.000	-9.82392	20.00000	Averaged	
36 1,1-Dichloropropene	0.43502	0.39960	0.39960	0.000	-8.14137	20.00000	Averaged	
38 Benzene	1.25414	1.08422	1.08422	0.000	-13.54909	20.00000	Averaged	

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV2.i Injection Date: 10-FEB-2010 12:38
Lab File ID: A01CCV.D Init. Cal. Date(s): 26-JAN-2010 26-JAN-2010
Analysis Type: WATER Init. Cal. Times: 12:58 16:56
Lab Sample ID: ccv 34A-105/115 Quant Type: ISTD
Method: \\50wintarget\chem\50MSV2.i\a021010.b\-8260-c1.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
141 isopropyl acetate	0.01746	0.00079	0.00079	0.000	-95.46818	20.00000	Averaged	<-
39 1,2-Dichloroethane	50.00000	47.37097	0.35602	0.000	-5.25805	0.000e+000	Linear	
41 Trichloroethene	50.00000	45.65829	0.31495	0.000	-8.68342	0.000e+000	Linear	
139 Methylcyclohexane	50.00000	47.06638	0.33916	0.000	-5.86724	0.000e+000	Linear	
42 1,2-Dichloropropane	50.00000	45.77026	0.26611	0.000	-8.45948	0.000e+000	Wt Linear	
43 Dibromomethane	50.00000	45.03189	0.19596	0.000	-9.93621	0.000e+000	Linear	
44 Methyl methacrylate	50.00000	43.99403	0.21428	0.000	-12.01194	0.000e+000	Linear	
143 2,2,4-Trimethylpentane	0.73883	0.66865	0.66865	0.000	-9.49972	20.00000	Averaged	
144 1,4-Dioxane	0.00018	0.00004	0.00004	0.000	-77.33937	20.00000	Averaged	<-
45 Bromodichloromethane	50.00000	44.06363	0.37024	0.000	-11.87274	0.000e+000	Linear	
46 2-Chloroethyl vinyl ether	50.00000	51.76317	0.53451	0.000	3.52634	0.000e+000	Linear	
47 cis-1,3-Dichloropropene	50.00000	52.20871	0.58557	0.000	4.41743	0.000e+000	Linear	
48 4-Methyl-2-Pentanone	0.35227	0.34235	0.34235	0.000	-2.81612	20.00000	Averaged	
$ 49 Toluene-d8	1.05250	1.14643	1.14643	0.000	8.92447	20.00000	Averaged	
50 Toluene	1.52935	1.47905	1.47905	0.000	-3.28913	20.00000	Averaged	
51 trans-1,3-Dichloropropene	50.00000	50.32601	0.54468	0.000	0.65201	0.000e+000	Linear	
52 Ethyl Methacrylate	50.00000	50.72497	0.51604	0.000	1.44994	0.000e+000	Linear	
53 1,1,2-Trichloroethane	50.00000	52.56905	0.26599	0.000	5.13810	0.000e+000	Linear	
54 Tetrachloroethene	50.00000	47.27926	0.49543	0.000	-5.44148	0.000e+000	Linear	
55 1,3-Dichloropropane	50.00000	53.00792	0.57631	0.000	6.01583	0.000e+000	Linear	
56 2-Hexanone	250	263	0.23084	0.000	5.23153	0.000e+000	Linear	
57 Dibromochloromethane	0.41715	0.42494	0.42494	0.000	1.86603	20.00000	Averaged	
58 1,2-Dibromoethane	50.00000	51.73854	0.42634	0.000	3.47709	0.000e+000	Linear	
60 Chlorobenzene	1.05673	1.01637	1.01637	0.000	-3.81879	20.00000	Averaged	
61 1,1,1,2-Tetrachloroethane	0.37886	0.38062	0.38062	0.000	0.46241	20.00000	Averaged	
62 Ethylbenzene	0.55572	0.54371	0.54371	0.000	-2.16073	20.00000	Averaged	
63 m&p-Xylene	0.70640	0.68824	0.68824	0.000	-2.57085	20.00000	Averaged	
65 o-Xylene	0.68865	0.67949	0.67949	0.000	-1.33021	20.00000	Averaged	
66 Styrene	1.09458	1.10113	1.10113	0.000	0.59834	20.00000	Averaged	
67 Bromoform	50.00000	48.62745	0.69580	0.000	-2.74510	0.000e+000	Linear	
68 Isopropylbenzene	1.71634	1.68023	1.68023	0.000	-2.10375	20.00000	Averaged	
69 trans-1,4-Dichloro-2-butene	50.00000	50.58033	0.11542	0.000	1.16066	0.000e+000	Linear	
142 n-amyl acetate	0.00834	0.00042	0.00042	0.000	-94.99528	20.00000	Averaged	<-
$ 70 4-Bromofluorobenzene	0.44264	0.43354	0.43354	0.000	-2.05582	20.00000	Averaged	
71 Bromobenzene	50.00000	64.83615	0.69851	0.000	29.67230	0.000e+000	Linear	
72 1,1,2,2-Tetrachloroethane	0.92693	0.97491	0.97491	0.000	5.17659	20.00000	Averaged	
73 1,2,3-Trichloropropane	1.08177	1.08473	1.08473	0.000	0.27308	20.00000	Averaged	
74 n-Propylbenzene	3.69097	3.80321	3.80321	0.000	3.04087	20.00000	Averaged	
75 2-Chlorotoluene	2.42129	2.37013	2.37013	0.000	-2.11302	20.00000	Averaged	
77 1,3,5-Trimethylbenzene	2.68992	2.71849	2.71849	0.000	1.06196	20.00000	Averaged	
76 4-Chlorotoluene	50.00000	50.39418	0.81899	0.000	0.78836	0.000e+000	Linear	
78 tert-Butylbenzene	3.09804	3.25427	3.25427	0.000	5.04294	20.00000	Averaged	
79 1,2,4-Trimethylbenzene	2.66407	2.63453	2.63453	0.000	-1.10886	20.00000	Averaged	

Pace Analytical Services, Inc.

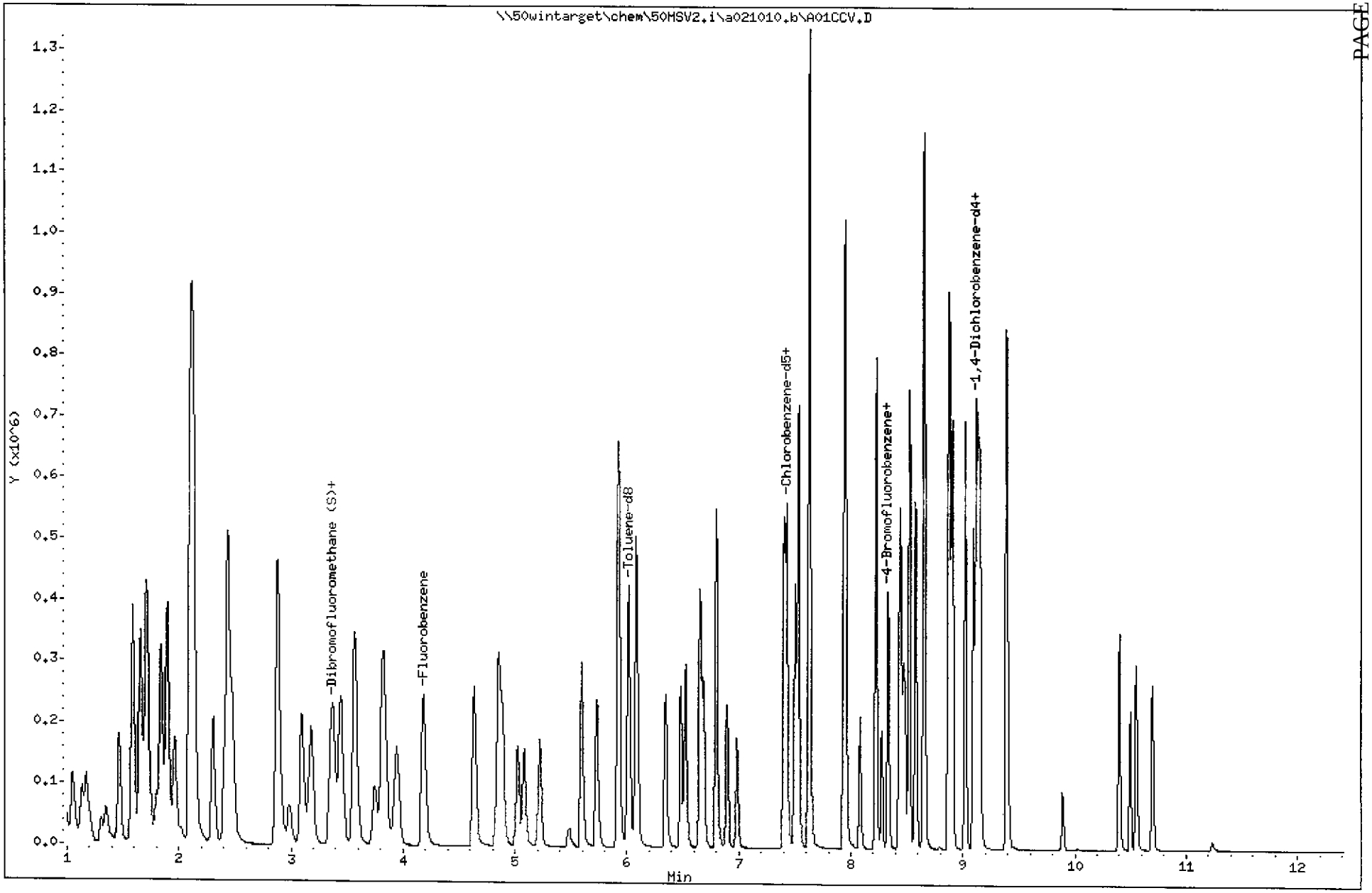
CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV2.i Injection Date: 10-FEB-2010 12:38
Lab File ID: A01CCV.D Init. Cal. Date(s): 26-JAN-2010 26-JAN-2010
Analysis Type: WATER Init. Cal. Times: 12:58 16:56
Lab Sample ID: ccv 34A-105/115 Quant Type: ISTD
Method: \\50wintarget\chem\50MSV2.i\a021010.b\-8260-c1.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
80 sec-Butylbenzene	3.37991	3.43034	3.43034	0.000	1.49197	20.00000	Averaged
81 1,3-Dichlorobenzene	1.53724	1.54009	1.54009	0.000	0.18565	20.00000	Averaged
83 p-Isopropyltoluene	2.71269	2.78764	2.78764	0.000	2.76281	20.00000	Averaged
84 1,4-Dichlorobenzene	1.59513	1.57533	1.57533	0.000	-1.24147	20.00000	Averaged
86 n-Butylbenzene	50.00000	52.36760	2.13308	0.000	4.73521	0.000e+000	Linear
85 1,2-Dichlorobenzene	1.42467	1.49007	1.49007	0.000	4.59049	20.00000	Averaged
87 1,2-Dibromo-3-chloropropane	50.00000	47.75456	0.17622	0.000	-4.49088	0.000e+000	Linear
88 1,2,4-Trichlorobenzene	50.00000	47.23173	0.85259	0.000	-5.53653	0.000e+000	Linear
89 Hexachlorobutadiene	50.00000	46.38400	0.31189	0.000	-7.23199	0.000e+000	Linear
90 Naphthalene	50.00000	46.58899	1.84894	0.000	-6.82202	0.000e+000	Linear
91 1,2,3-Trichlorobenzene	50.00000	44.85667	0.65929	0.000	-10.28665	0.000e+000	Linear
92 2,methyl-naphthalene	50.00000	53.72983	0.09121	0.000	7.45966	0.000e+000	Linear

Data File: \\50wintarget\chem\50MSV2.i\a021010.b\A01CCV.D
Date : 10-FEB-2010 12:38
Client ID: ccv
Sample Info: ccv 34A-105/115
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



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VOA 8260B
GC/MS Volatiles

Section 4: Quality Control Data

**** Laboratory Control Samples (LCS)***
**** Matrix Spike and Spike Duplicate Samples (MS/MSD)***

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a013110.b\A02LCS.D
Lab Smp Id: 393492 Client Smp ID: lcs
Inj Date : 31-JAN-2010 13:46
Operator : jlf Inst ID: 50MSV2.i
Smp Info : lcs 34A-054
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Meth Date : 01-Feb-2010 13:23 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
1 Dichlorodifluoromethane	85	1.035	1.039	(0.249)	229662	59.9303	59.9
2 Chloromethane	50	1.123	1.122	(0.270)	153697	48.0067	48.0
3 Vinyl Chloride	62	1.159	1.163	(0.279)	185620	55.4117	55.4
4 Bromomethane	94	1.299	1.292	(0.312)	63453	73.6019	73.6
5 Chloroethane	64	1.340	1.339	(0.322)	108783	55.9414	55.9
6 Trichlorofluoromethane	101	1.454	1.453	(0.349)	202498	55.4874	55.5
28 1,2-dichlorotrifluoroethane	67	1.573	1.571	(0.378)	179517	55.9246	55.9
7 Diethyl ether	74	1.583	1.582	(0.380)	69041	52.3913	52.4
8 Acrolein	56	1.645	1.644	(0.395)	517976	2103.15	2100(R)
10 1,1,2trichlorotrifluoroethane	101	1.697	1.690	(0.408)	138215	60.8342	60.8
9 1,1-Dichloroethene	96	1.702	1.701	(0.409)	112407	57.3713	57.4
11 Acetone	43	1.723	1.721	(0.414)	135344	246.404	246
12 Iodomethane	142	1.790	1.789	(0.430)	211419	95.7268	95.7
13 Carbon Disulfide	76	1.831	1.825	(0.440)	867349	137.865	138
14 allyl chloride	41	1.883	1.882	(0.452)	309957	111.624	112(QM)
138 Methyl Acetate	43	1.888	1.887	(0.454)	97151	56.0242	56.0
15 Methylene Chloride	84	1.955	1.949	(0.470)	114968	49.5073	49.5
16 Acrylonitrile	53	2.089	2.088	(0.502)	755117	936.126	936
19 Methyl-tert-butyl ether	73	2.115	2.114	(0.508)	579381	102.346	102
18 1,2-Dichloroethene (trans)	96	2.115	2.114	(0.508)	122106	53.2651	53.3
20 n-Hexane	57	2.291	2.290	(0.550)	164940	62.7806	62.8
21 1,1-Dichloroethane	63	2.394	2.393	(0.575)	202474	45.6914	45.7
23 Vinyl Acetate	43	2.425	2.424	(0.583)	890717	189.324	189

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
	140 Ethyl acetate	88	2.467	2.460	(0.593)	114082	525.060	525
	147 Chloroprene	53	2.467	2.460	(0.593)	167705	50.3467	50.3
	24 2,2-Dichloropropane	77	2.860	2.858	(0.687)	175976	54.3291	54.3
	25 1,2-Dichloroethene (cis)	96	2.860	2.858	(0.687)	145519	50.9194	50.9
	26 2-Butanone	43	2.870	2.874	(0.690)	244198	217.217	217
	27 Propionitrile	54	2.927	2.926	(0.703)	14428	40.1174	40.1
	29 Bromochloromethane	49	3.082	3.081	(0.740)	104942	66.4602	66.5
	146 Methacrylonitrile	41	3.077	3.070	(0.739)	83587	319.440	319
	31 Chloroform	83	3.165	3.163	(0.760)	212857	50.9561	51.0
$	32 Dibromofluoromethane (S)	113	3.335	3.334	(0.801)	114769	51.6733	51.7
	33 1,1,1-Trichloroethane	97	3.361	3.360	(0.808)	191097	51.2440	51.2
	30 Tetrahydrofuran	42	3.144	3.143	(0.755)	33354	43.4533	43.4
	34 cyclohexane	56	3.428	3.427	(0.824)	198064	55.0268	55.0
	37 Isobutyl alcohol	43	2.870	2.874	(0.690)	244198	43.4434	43.4
	35 Carbon Tetrachloride	117	3.552	3.551	(0.853)	169707	49.8906	49.9
	36 1,1-Dichloropropene	75	3.552	3.551	(0.853)	170099	53.9048	53.9
	38 Benzene	78	3.800	3.794	(0.913)	459530	50.5129	50.5
	141 isopropyl acetate	61	3.723	3.722	(0.894)	924	7.29763	7.30(Q)
	39 1,2-Dichloroethane	62	3.821	3.820	(0.918)	147807	54.6537	54.6
*	40 Fluorobenzene	96	4.162	4.161	(1.000)	362690	50.0000	
	41 Trichloroethene	95	4.612	4.611	(1.108)	133625	53.7501	53.8
	139 Methylcyclohexane	55	4.834	4.828	(1.161)	140132	54.1230	54.1
	42 1,2-Dichloropropane	63	4.870	4.869	(1.170)	112911	53.7766	53.8
	43 Dibromomethane	93	5.005	5.003	(1.202)	77741	49.3842	49.4
	44 Methyl methacrylate	69	5.067	5.060	(1.217)	80753	45.7107	45.7
	143 2,2,4-Trimethylpentane	57	3.924	3.923	(0.943)	276496	51.5913	51.6
	144 1,4-Dioxane	88	5.061	5.065	(1.216)	26014	19653.0	19600(Q)
	45 Bromodichloromethane	83	5.206	5.200	(1.251)	164286	54.1944	54.2
	46 2-Chloroethyl vinyl ether	63	5.583	5.577	(0.755)	31410	8.68161	8.68
	47 cis-1,3-Dichloropropene	75	5.718	5.717	(0.773)	195544	54.9941	55.0
	48 4-Methyl-2-Pentanone	43	5.909	5.908	(0.799)	476327	212.831	213
$	49 Toluene-d8	98	5.997	5.996	(0.811)	327755	49.0156	49.0
	50 Toluene	91	6.069	6.068	(0.821)	462816	47.6331	47.6
	51 trans-1,3-Dichloropropene	75	6.333	6.326	(0.857)	168527	48.9752	49.0
	52 Ethyl Methacrylate	69	6.467	6.466	(0.875)	157013	48.5244	48.5
	53 1,1,2-Trichloroethane	83	6.509	6.507	(0.880)	82464	51.2372	51.2
	54 Tetrachloroethene	166	6.638	6.642	(0.898)	144331	43.0449	43.0
	55 1,3-Dichloropropane	76	6.669	6.668	(0.902)	174359	50.3663	50.4
	56 2-Hexanone	43	6.782	6.781	(0.918)	329394	234.992	235
	57 Dibromochloromethane	129	6.881	6.880	(0.931)	139157	52.5073	52.5
	58 1,2-Dibromoethane	107	6.969	6.967	(0.943)	124596	47.4505	47.4
*	59 Chlorobenzene-d5	117	7.392	7.391	(1.000)	317660	50.0000	
	60 Chlorobenzene	112	7.413	7.412	(1.003)	313387	46.6795	46.7
	61 1,1,1,2-Tetrachloroethane	131	7.491	7.489	(1.013)	121535	50.4923	50.5
	62 Ethylbenzene	106	7.522	7.520	(1.017)	170508	48.2943	48.3
	63 m&p-Xylene	106	7.620	7.619	(1.031)	429452	95.6911	95.7
	65 o-Xylene	106	7.930	7.929	(1.073)	213907	48.8916	48.9
	66 Styrene	104	7.940	7.939	(1.074)	344476	49.5356	49.5
	67 Bromoform	173	8.075	8.073	(0.885)	91403	44.1103	44.1
	68 Isopropylbenzene	105	8.214	8.213	(1.111)	506801	46.4773	46.5
	69 trans-1,4-Dichloro-2-butene	53	8.478	8.477	(1.147)	127060	176.445	176(Q)
	142 n-amyl acetate	70	8.323	8.316	(1.126)	1124	21.2155	21.2(Q)
$	70 4-Bromofluorobenzene	95	8.323	8.322	(1.126)	144154	51.2606	51.3
	71 Bromobenzene	77	8.421	8.420	(1.139)	166795	47.9087	47.9

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
72 1,1,2,2-Tetrachloroethane	83	8.436	8.435	(0.924)	122750	45.6567	45.6
73 1,2,3-Trichloropropane	75	8.478	8.461	(0.929)	271553	86.5462	86.5(Q)
74 n-Propylbenzene	91	8.514	8.513	(0.933)	518707	48.4520	48.4
75 2-Chlorotoluene	91	8.566	8.564	(0.938)	320064	45.5743	45.6
77 1,3,5-Trimethylbenzene	105	8.638	8.637	(0.946)	370072	47.4326	47.4
76 4-Chlorotoluene	126	8.566	8.570	(0.938)	113529	48.1851	48.2
78 tert-Butylbenzene	119	8.865	8.864	(0.971)	342524	38.1184	38.1
79 1,2,4-Trimethylbenzene	105	8.896	8.895	(0.975)	368433	47.6808	47.7
80 sec-Butylbenzene	105	9.010	9.009	(0.987)	472988	48.2475	48.2
81 1,3-Dichlorobenzene	146	9.082	9.081	(0.995)	214924	48.2029	48.2
83 p-Isopropyltoluene	119	9.108	9.107	(0.998)	378313	48.0819	48.1
* 82 1,4-Dichlorobenzene-d4	152	9.129	9.128	(1.000)	145024	50.0000	
84 1,4-Dichlorobenzene	146	9.144	9.143	(1.002)	216296	46.7500	46.8
86 n-Butylbenzene	91	9.377	9.376	(1.027)	300046	50.7639	50.8
85 1,2-Dichlorobenzene	146	9.387	9.386	(1.028)	200796	48.5926	48.6
87 1,2-Dibromo-3-chloropropane	155	9.878	9.877	(1.082)	21240	40.4670	40.5
88 1,2,4-Trichlorobenzene	180	10.390	10.389	(1.138)	119836	45.8689	45.9
89 Hexachlorobutadiene	225	10.488	10.487	(1.149)	45578	46.7320	46.7
90 Naphthalene	128	10.540	10.539	(1.155)	267635	46.5105	46.5
91 1,2,3-Trichlorobenzene	180	10.685	10.683	(1.170)	102405	47.7168	47.7
92 2,methyl-naphthalene	142	11.222	11.221	(1.229)	87562	83.2136	83.2

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A02LCS.D
Lab Smp Id: 393492
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

Calibration Date: 31-JAN-2010
Calibration Time: 13:12
Client Smp ID: lcs
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	366735	183368	733470	362690	-1.10
59 Chlorobenzene-d5	322201	161101	644402	317660	-1.41
82 1,4-Dichlorobenze	147283	73642	294566	145024	-1.53

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.16	3.66	4.66	4.16	0.03
59 Chlorobenzene-d5	7.39	6.89	7.89	7.39	0.02
82 1,4-Dichlorobenze	9.13	8.63	9.63	9.13	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 393492
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCS.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

Client SDG: a013110.b
Fraction: VOA
Client Smp ID: lcs
Operator: jlf
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
1 Dichlorodifluorome	50.0	59.9	119.86	30-170
2 Chloromethane	50.0	48.0	96.01	35-147
3 Vinyl Chloride	50.0	55.4	110.82	55-141
4 Bromomethane	50.0	73.6	147.20	30-170
5 Chloroethane	50.0	55.9	111.88	56-153
6 Trichlorofluoromet	50.0	55.5	110.97	62-150
7 Diethyl ether	50.0	52.4	104.78	70-130
8 Acrolein	1000	2100	210.32*	30-170
9 1,1-Dichloroethene	50.0	57.4	114.74	63-128
10 1,1,2trichlorotrif	50.0	60.8	121.67	74-153
11 Acetone	250	246	98.56	30-170
12 Iodomethane	100	95.7	95.73	41-170
13 Carbon Disulfide	100	138	137.87	58-152
14 allyl chloride	100	112	111.62	70-130
15 Methylene Chloride	50.0	49.5	99.01	32-164
16 Acrylonitrile	1000	936	93.61	67-136
17 tert-Butyl Alcohol	100	0.000	*	50-150
18 1,2-Dichloroethene	50.0	53.3	106.53	71-126
19 Methyl-tert-butyl	100	102	102.35	66-147
20 n-Hexane	50.0	62.8	125.56	69-157
21 1,1-Dichloroethane	50.0	45.7	91.38	67-133
23 Vinyl Acetate	200	189	94.66	41-145
24 2,2-Dichloropropan	50.0	54.3	108.66	53-144
25 1,2-Dichloroethene	50.0	50.9	101.84	74-128
26 2-Butanone	250	217	86.89	47-189
28 1,2-dichlorotriflu	50.0	55.9	111.85	54-162
29 Bromochloromethane	50.0	66.5	132.92	54-162
31 Chloroform	50.0	51.0	101.91	74-131
33 1,1,1-Trichloroeth	50.0	51.2	102.49	69-136
35 Carbon Tetrachlori	50.0	49.9	99.78	62-143
36 1,1-Dichloropropen	50.0	53.9	107.81	75-134
37 Isobutyl alcohol	50.0	43.4	86.89	50-150
38 Benzene	50.0	50.5	101.03	78-127
39 1,2-Dichloroethane	50.0	54.6	109.31	69-139
41 Trichloroethene	50.0	53.8	107.50	74-130
42 1,2-Dichloropropan	50.0	53.8	107.55	76-129
43 Dibromomethane	50.0	49.4	98.77	73-133
44 Methyl methacrylat	50.0	45.7	91.42	70-130
45 Bromodichlorometha	50.0	54.2	108.39	69-133
47 cis-1,3-Dichloropr	50.0	55.0	109.99	54-123

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
48 4-Methyl-2-Pentano	250	213	85.13	61-135
50 Toluene	50.0	47.6	95.27	75-129
51 trans-1,3-Dichloro	50.0	49.0	97.95	54-123
52 Ethyl Methacrylate	50.0	48.5	97.05	59-138
53 1,1,2-Trichloroeth	50.0	51.2	102.47	77-132
54 Tetrachloroethene	50.0	43.0	86.09	60-119
55 1,3-Dichloropropan	50.0	50.4	100.73	74-126
56 2-Hexanone	250	235	94.00	57-167
57 Dibromochlorometha	50.0	52.5	105.01	66-131
58 1,2-Dibromoethane	50.0	47.4	94.90	75-126
60 Chlorobenzene	50.0	46.7	93.36	75-123
61 1,1,1,2-Tetrachlor	50.0	50.5	100.98	69-130
62 Ethylbenzene	50.0	48.3	96.59	81-126
63 m&p-Xylene	100	95.7	95.69	71-131
65 o-Xylene	50.0	48.9	97.78	72-127
66 Styrene	50.0	49.5	99.07	74-128
67 Bromoform	50.0	44.1	88.22	60-127
68 Isopropylbenzene	50.0	46.5	92.95	80-130
69 trans-1,4-Dichloro	200	176	88.22	50-150
71 Bromobenzene	50.0	47.9	95.82	62-139
72 1,1,2,2-Tetrachlor	50.0	45.6	91.31	69-130
73 1,2,3-Trichloropro	100	86.5	86.55	60-131
74 n-Propylbenzene	50.0	48.4	96.90	71-132
75 2-Chlorotoluene	50.0	45.6	91.15	72-128
76 4-Chlorotoluene	50.0	48.2	96.37	73-124
77 1,3,5-Trimethylben	50.0	47.4	94.87	74-130
78 tert-Butylbenzene	50.0	38.1	76.24	63-117
79 1,2,4-Trimethylben	50.0	47.7	95.36	73-130
80 sec-Butylbenzene	50.0	48.2	96.50	73-130
81 1,3-Dichlorobenzen	50.0	48.2	96.41	76-125
83 p-Isopropyltoluene	50.0	48.1	96.16	66-131
84 1,4-Dichlorobenzen	50.0	46.8	93.50	75-122
85 1,2-Dichlorobenzen	50.0	48.6	97.19	76-124
86 n-Butylbenzene	50.0	50.8	101.53	68-135
87 1,2-Dibromo-3-chlo	50.0	40.5	80.93	61-125
88 1,2,4-Trichloroben	50.0	45.9	91.74	60-130
89 Hexachlorobutadien	50.0	46.7	93.46	70-130
90 Naphthalene	50.0	46.5	93.02	61-135
91 1,2,3-Trichloroben	50.0	47.7	95.43	58-131
138 Methyl Acetate	50.0	56.0	112.05	30-170
34 cyclohexane	50.0	55.0	110.05	63-134
139 Methylcyclohexane	50.0	54.1	108.25	65-135

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	51.7	103.35	82-122
$ 49 Toluene-d8	50.0	49.0	98.03	80-120
$ 70 4-Bromofluorobenze	50.0	51.3	102.52	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 393492
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a013110.b
Client Smp ID: lcs
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	59.9	
74-87-3	Chloromethane	48.0	
75-01-4	Vinyl Chloride	55.4	
74-83-9	Bromomethane	73.6	
75-00-3	Chloroethane	55.9	
75-69-4	Trichlorofluoromethane	55.5	
354-23-4	1,2-dichlorotrifluoroethane	55.9	
60-29-7	Diethyl ether	52.4	
107-02-8	Acrolein	2100	
76-13-1	1,1,2trichlorotrifluoroethan	60.8	
75-35-4	1,1-Dichloroethene	57.4	
67-64-1	Acetone	246	
	Iodomethane	95.7	
75-15-0	Carbon Disulfide	138	
107-05-1	allyl chloride	112	
79-20-9	Methyl Acetate	56.0	
75-09-2	Methylene Chloride	49.5	
107-13-1	Acrylonitrile	936	
1634-04-4	Methyl-tert-butyl ether	102	
156-60-5	1,2-Dichloroethene (trans)	53.3	
	n-Hexane	62.8	
75-34-3	1,1-Dichloroethane	45.7	
108-05-4	Vinyl Acetate	189	
141-78-6	Ethyl acetate	525	
126-99-8	Chloroprene	50.3	
594-20-7	2,2-Dichloropropane	54.3	
156-59-2	1,2-Dichloroethene (cis)	50.9	
78-93-3	2-Butanone	217	
107-12-0	Propionitrile	40.1	
74-97-5	Bromochloromethane	66.5	
126-98-7	Methacrylonitrile	319	
67-66-3	Chloroform	51.0	
71-55-6	1,1,1-Trichloroethane	51.2	
	Tetrahydrofuran	43.4	
110-82-7	cyclohexane	55.0	
78-83-1	Isobutyl alcohol	43.4	
56-23-5	Carbon Tetrachloride	49.9	
563-58-6	1,1-Dichloropropene	53.9	
71-43-2	Benzene	50.5	
108-21-4	isopropyl acetate	7.30	
107-06-2	1,2-Dichloroethane	54.6	
79-01-6	Trichloroethene	53.8	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 393492
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a013110.b
Client Smp ID: lcs
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-87-2	Methylcyclohexane	54.1	
78-87-5	1,2-Dichloropropane	53.8	
74-95-3	Dibromomethane	49.4	
80-62-6	Methyl methacrylate	45.7	
540-84-1	2,2,4-Trimethylpentane	51.6	
----------	1,4-Dioxane	19600	
75-27-4	Bromodichloromethane	54.2	
110-75-8	2-Chloroethyl vinyl ether	8.68	
10061-01-5	cis-1,3-Dichloropropene	55.0	
108-10-1	4-Methyl-2-Pentanone	213	
108-88-3	Toluene	47.6	
10061-02-6	trans-1,3-Dichloropropene	49.0	
----------	Ethyl Methacrylate	48.5	
79-00-5	1,1,2-Trichloroethane	51.2	
127-18-4	Tetrachloroethene	43.0	
142-28-9	1,3-Dichloropropane	50.4	
591-78-6	2-Hexanone	235	
124-48-1	Dibromochloromethane	52.5	
106-93-4	1,2-Dibromoethane	47.4	
108-90-7	Chlorobenzene	46.7	
630-20-6	1,1,1,2-Tetrachloroethane	50.5	
100-41-4	Ethylbenzene	48.3	
7816-60-0	m&p-Xylene	95.7	
95-47-6	o-Xylene	48.9	
100-42-5	Styrene	49.5	
75-25-2	Bromoform	44.1	
98-82-8	Isopropylbenzene	46.5	
----------	trans-1,4-Dichloro-2-butene	176	
628-63-7	n-amyl acetate	21.2	
108-86-1	Bromobenzene	47.9	
79-34-5	1,1,2,2-Tetrachloroethane	45.6	
96-18-4	1,2,3-Trichloropropane	86.5	
103-65-1	n-Propylbenzene	48.4	
95-49-8	2-Chlorotoluene	45.6	
108-67-8	1,3,5-Trimethylbenzene	47.4	
106-43-4	4-Chlorotoluene	48.2	
98-06-6	tert-Butylbenzene	38.1	
95-63-6	1,2,4-Trimethylbenzene	47.7	
135-98-8	sec-Butylbenzene	48.2	
541-73-1	1,3-Dichlorobenzene	48.2	
99-87-6	p-Isopropyltoluene	48.1	
106-46-7	1,4-Dichlorobenzene	46.8	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

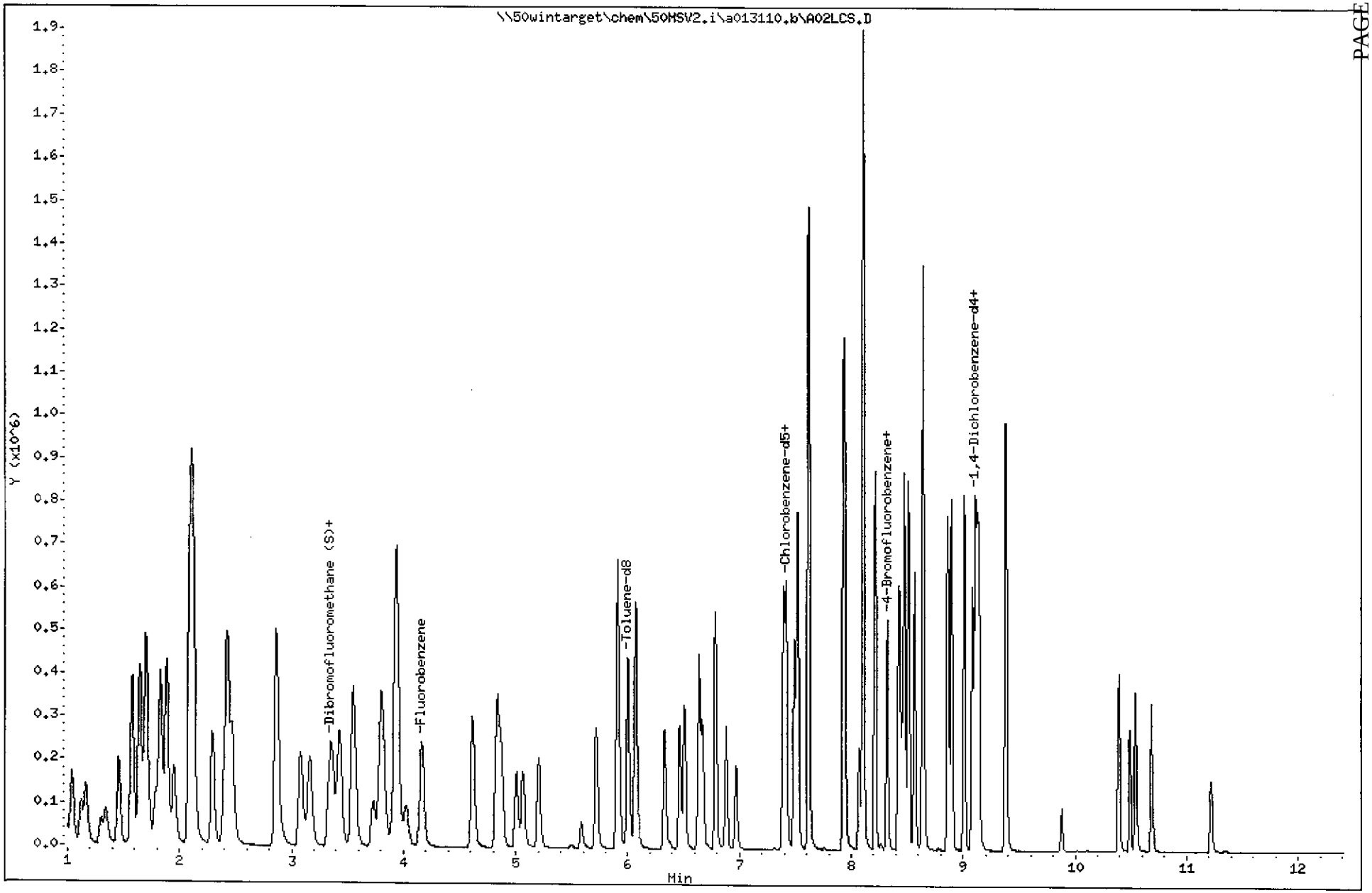
Client Name:
Lab Smp Id: 393492
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a013110.b
Client Smp ID: lcs
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
104-51-8	n-Butylbenzene	50.8	
95-50-1	1,2-Dichlorobenzene	48.6	
96-12-8	1,2-Dibromo-3-chloropropane	40.5	
120-82-1	1,2,4-Trichlorobenzene	45.9	
87-68-3	Hexachlorobutadiene	46.7	
91-20-3	Naphthalene	46.5	
87-61-6	1,2,3-Trichlorobenzene	47.7	
	2,methyl-naphthalene	83.2	
1868-53-7	Dibromofluoromethane (S)	51.7	
2037-26-5	Toluene-d8	49.0	
460-00-4	4-Bromofluorobenzene	51.3	

Data File: \\50wintarget\chem\50MSV2.i\a013110.b\A02LCS.D
Date : 31-JAN-2010 13:46
Client ID: lcs
Sample Info: lcs 34A-054
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a013110.b\A05.D
Lab Smp Id: 393493 Client Smp ID: ms5034229001
Inj Date : 31-JAN-2010 15:28
Operator : jlf Inst ID: 50MSV2.i
Smp Info : ms5034229001
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Meth Date : 01-Feb-2010 13:23 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 11 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
1 Dichlorodifluoromethane	85	1.042	1.039	(0.250)	166166	42.7192	42.7
2 Chloromethane	50	1.124	1.122	(0.270)	126136	39.8520	39.8
3 Vinyl Chloride	62	1.166	1.163	(0.280)	154788	46.2450	46.2
4 Bromomethane	94	1.305	1.292	(0.314)	55765	64.7742	64.8
5 Chloroethane	64	1.346	1.339	(0.323)	94267	49.0327	49.0
6 Trichlorofluoromethane	101	1.455	1.453	(0.350)	167821	46.3812	46.4
28 1,2-dichlorotrifluoroethane	67	1.574	1.571	(0.378)	149537	46.1535	46.2
7 Diethyl ether	74	1.584	1.582	(0.381)	58530	44.1962	44.2
8 Acrolein	56	1.646	1.644	(0.395)	437666	1797.54	1800(R)
10 1,1,2trichlorotrifluoroethane	101	1.698	1.690	(0.408)	109607	47.5540	47.6
9 1,1-Dichloroethene	96	1.703	1.701	(0.409)	96907	49.3319	49.3
11 Acetone	43	1.724	1.721	(0.414)	110006	199.239	199
12 Iodomethane	142	1.786	1.789	(0.429)	124581	53.6364	53.6
13 Carbon Disulfide	76	1.832	1.825	(0.440)	759170	122.060	122
14 allyl chloride	41	1.884	1.882	(0.453)	269288	96.6793	96.7(QM)
145 Acetonitrile	41	1.207	1.205	(0.290)	707	852.168	852(Q)
138 Methyl Acetate	43	1.894	1.887	(0.455)	84051	48.7019	48.7
15 Methylene Chloride	84	1.956	1.949	(0.470)	91756	39.3088	39.3
16 Acrylonitrile	53	2.091	2.088	(0.502)	703662	877.269	877
19 Methyl-tert-butyl ether	73	2.122	2.114	(0.510)	499020	88.0530	88.0
18 1,2-Dichloroethene (trans)	96	2.122	2.114	(0.510)	133617	59.1481	59.1
20 n-Hexane	57	2.297	2.290	(0.552)	129222	49.7519	49.8
21 1,1-Dichloroethane	63	2.401	2.393	(0.577)	174598	39.8546	39.8

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)
	23 Vinyl Acetate	43	2.427	2.424	(0.583)	753958	162.101	162
	140 Ethyl acetate	88	2.468	2.460	(0.593)	98767	457.477	457(Q)
	147 Chloroprene	53	2.468	2.460	(0.593)	142252	43.1973	43.2
	24 2,2-Dichloropropane	77	2.861	2.858	(0.687)	144590	45.1534	45.2
	25 1,2-Dichloroethene (cis)	96	2.866	2.858	(0.688)	327722	118.744	119(R)
	26 2-Butanone	43	2.876	2.874	(0.691)	207727	186.904	187
	27 Propionitrile	54	2.928	2.926	(0.703)	12810	36.4240	36.4
	29 Bromochloromethane	49	3.083	3.081	(0.741)	85646	54.1011	54.1
	146 Methacrylonitrile	41	3.073	3.070	(0.738)	71953	277.545	278
	31 Chloroform	83	3.166	3.163	(0.760)	179678	43.5088	43.5
$	32 Dibromofluoromethane (S)	113	3.336	3.334	(0.801)	112548	51.2570	51.2
	33 1,1,1-Trichloroethane	97	3.362	3.360	(0.808)	159568	42.8990	42.9
	30 Tetrahydrofuran	42	3.145	3.143	(0.755)	26038	32.5952	32.6
	34 cyclohexane	56	3.429	3.427	(0.824)	154379	42.7803	42.8
	37 Isobutyl alcohol	43	2.876	2.874	(0.691)	207727	37.3808	37.4
	35 Carbon Tetrachloride	117	3.553	3.551	(0.854)	141874	42.1887	42.2
	36 1,1-Dichloropropene	75	3.553	3.551	(0.854)	141383	45.3207	45.3
	38 Benzene	78	3.802	3.794	(0.913)	387771	43.1159	43.1
	141 isopropyl acetate	61	3.729	3.722	(0.896)	1106	8.83566	8.84(Q)
	39 1,2-Dichloroethane	62	3.827	3.820	(0.919)	124960	46.3092	46.3
*	40 Fluorobenzene	96	4.163	4.161	(1.000)	358560	50.0000	
	41 Trichloroethene	95	4.613	4.611	(1.108)	753322	315.899	316(R)
	139 Methylcyclohexane	55	4.835	4.828	(1.161)	107089	41.0121	41.0
	42 1,2-Dichloropropane	63	4.871	4.869	(1.170)	92228	44.1943	44.2
	43 Dibromomethane	93	5.006	5.003	(1.202)	65876	42.1340	42.1
	44 Methyl methacrylate	69	5.068	5.060	(1.217)	70228	40.2156	40.2
	143 2,2,4-Trimethylpentane	57	3.926	3.923	(0.943)	204845	38.6622	38.7
	144 1,4-Dioxane	88	5.063	5.065	(1.216)	22906	17504.3	17500(Q)
	45 Bromodichloromethane	83	5.207	5.200	(1.251)	135134	44.8766	44.9
	47 cis-1,3-Dichloropropene	75	5.719	5.717	(0.774)	156154	43.3182	43.3
	48 4-Methyl-2-Pentanone	43	5.910	5.908	(0.799)	422613	188.155	188
$	49 Toluene-d8	98	6.003	5.996	(0.812)	320622	47.7772	47.8
	50 Toluene	91	6.070	6.068	(0.821)	387696	39.7589	39.8
	51 trans-1,3-Dichloropropene	75	6.334	6.326	(0.857)	138771	39.8873	39.9
	52 Ethyl Methacrylate	69	6.468	6.466	(0.875)	133278	40.8177	40.8
	53 1,1,2-Trichloroethane	83	6.510	6.507	(0.880)	69386	42.5004	42.5
	54 Tetrachloroethene	166	6.644	6.642	(0.899)	116029	33.7262	33.7
	55 1,3-Dichloropropane	76	6.675	6.668	(0.903)	146064	41.6290	41.6
	56 2-Hexanone	43	6.784	6.781	(0.918)	288836	203.627	204
	57 Dibromochloromethane	129	6.882	6.880	(0.931)	112911	42.4515	42.4
	58 1,2-Dibromoethane	107	6.970	6.967	(0.943)	106305	40.0604	40.1
*	59 Chlorobenzene-d5	117	7.394	7.391	(1.000)	318801	50.0000	
	60 Chlorobenzene	112	7.419	7.412	(1.003)	257273	38.1841	38.2
	61 1,1,1,2-Tetrachloroethane	131	7.492	7.489	(1.013)	97842	40.5035	40.5
	62 Ethylbenzene	106	7.523	7.520	(1.017)	139134	39.2669	39.3
	63 m&p-Xylene	106	7.621	7.619	(1.031)	349777	77.6589	77.6
	65 o-Xylene	106	7.931	7.929	(1.073)	174426	39.7249	39.7
	66 Styrene	104	7.941	7.939	(1.074)	276492	39.6172	39.6
	67 Bromoform	173	8.076	8.073	(0.885)	76918	37.3103	37.3
	68 Isopropylbenzene	105	8.215	8.213	(1.111)	414488	37.8755	37.9
	69 trans-1,4-Dichloro-2-butene	53	8.479	8.477	(1.147)	107331	148.439	148(Q)
	142 n-amyl acetate	70	8.319	8.316	(1.125)	1047	19.6914	19.7(Q)
$	70 4-Bromofluorobenzene	95	8.324	8.322	(1.126)	142880	50.6258	50.6
	71 Bromobenzene	77	8.427	8.420	(1.140)	134773	37.9218	37.9

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
72 1,1,2,2-Tetrachloroethane	83	8.438	8.435	(0.924)	106007	39.5196	39.5
73 1,2,3-Trichloropropane	75	8.479	8.461	(0.929)	228570	73.0143	73.0(Q)
74 n-Propylbenzene	91	8.515	8.513	(0.933)	422339	39.5409	39.5
75 2-Chlorotoluene	91	8.572	8.564	(0.939)	258854	36.9431	36.9
77 1,3,5-Trimethylbenzene	105	8.639	8.637	(0.946)	302610	38.8749	38.9
76 4-Chlorotoluene	126	8.572	8.570	(0.939)	89414	38.1136	38.1
78 tert-Butylbenzene	119	8.867	8.864	(0.971)	314568	35.0876	35.1
79 1,2,4-Trimethylbenzene	105	8.898	8.895	(0.975)	298644	38.7377	38.7
80 sec-Butylbenzene	105	9.011	9.009	(0.987)	388949	39.7661	39.8
81 1,3-Dichlorobenzene	146	9.084	9.081	(0.995)	168788	37.9424	37.9
83 p-Isopropyltoluene	119	9.110	9.107	(0.998)	307304	39.1466	39.1
* 82 1,4-Dichlorobenzene-d4	152	9.130	9.128	(1.000)	144692	50.0000	
84 1,4-Dichlorobenzene	146	9.146	9.143	(1.002)	169080	36.6287	36.6
86 n-Butylbenzene	91	9.378	9.376	(1.027)	238726	40.2857	40.3
85 1,2-Dichlorobenzene	146	9.389	9.386	(1.028)	159479	38.6824	38.7
87 1,2-Dibromo-3-chloropropane	155	9.885	9.877	(1.083)	18402	35.7464	35.7
88 1,2,4-Trichlorobenzene	180	10.391	10.389	(1.138)	90556	35.4715	35.5
89 Hexachlorobutadiene	225	10.490	10.487	(1.149)	37162	38.3679	38.4
90 Naphthalene	128	10.541	10.539	(1.155)	202420	36.4678	36.5
91 1,2,3-Trichlorobenzene	180	10.686	10.683	(1.170)	75889	36.6247	36.6
92 2,methyl-naphthalene	142	11.223	11.221	(1.229)	18968	56.0241	56.0

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A05.D
Lab Smp Id: 393493
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

Calibration Date: 31-JAN-2010
Calibration Time: 13:12
Client Smp ID: ms5034229001
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	366735	183368	733470	358560	-2.23
59 Chlorobenzene-d5	322201	161101	644402	318801	-1.06
82 1,4-Dichlorobenze	147283	73642	294566	144692	-1.76

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.16	3.66	4.66	4.16	0.06
59 Chlorobenzene-d5	7.39	6.89	7.89	7.39	0.03
82 1,4-Dichlorobenze	9.13	8.63	9.63	9.13	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Client SDG: a013110.b
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: 393493
Client Smp ID: ms5034229001
Level: LOW
Operator: jlf
Data Type: MS DATA
SampleType: MS
SpikeList File: 8260MS.spk
Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
1 Dichlorodifluorome	50.0	42.7	85.44	30-163
2 Chloromethane	50.0	39.8	79.70	36-136
3 Vinyl Chloride	50.0	46.2	92.49	51-144
4 Bromomethane	50.0	64.8	129.55	30-170
5 Chloroethane	50.0	49.0	98.07	54-157
6 Trichlorofluoromet	50.0	46.4	92.76	53-162
28 1,2-dichlorotriflu	50.0	46.2	92.31	50-150
7 Diethyl ether	50.0	44.2	88.39	70-130
8 Acrolein	1000	1800	179.75*	30-170
9 1,1-Dichloroethene	50.0	49.3	98.66	55-140
10 1,1,2trichlorotrif	50.0	47.6	95.11	50-150
11 Acetone	250	199	79.70	30-170
12 Iodomethane	100	53.6	53.64	28-168
13 Carbon Disulfide	100	122	122.06	46-162
138 Methyl Acetate	50.0	48.7	97.40	40-182
14 allyl chloride	100	96.7	96.68	39-155
15 Methylene Chloride	50.0	39.3	78.62	46-154
16 Acrylonitrile	1000	877	87.73	66-137
27 Propionitrile	50.0	36.4	72.85	50-150
17 tert-Butyl Alcohol	100	0.000	*	50-150
18 1,2-Dichloroethene	50.0	59.1	118.30	60-137
19 Methyl-tert-butyl	100	88.0	88.05	52-156
20 n-Hexane	50.0	49.8	99.50	32-176
21 1,1-Dichloroethane	50.0	39.8	79.71	68-139
23 Vinyl Acetate	200	162	81.05	24-132
25 1,2-Dichloroethene	50.0	119	237.49*	65-132
24 2,2-Dichloropropan	50.0	45.2	90.31	35-157
26 2-Butanone	250	187	74.76	62-132
29 Bromochloromethane	50.0	54.1	108.20	65-157
30 Tetrahydrofuran	50.0	32.6	65.19	50-150
31 Chloroform	50.0	43.5	87.02	67-134
33 1,1,1-Trichloroeth	50.0	42.9	85.80	64-143
34 cyclohexane	50.0	42.8	85.56	39-167
37 Isobutyl alcohol	50.0	37.4	74.76	50-150
36 1,1-Dichloropropen	50.0	45.3	90.64	66-140
35 Carbon Tetrachlori	50.0	42.2	84.38	54-145
38 Benzene	50.0	43.1	86.23	63-141
39 1,2-Dichloroethane	50.0	46.3	92.62	63-148
41 Trichloroethene	50.0	316	631.80*	61-137
139 Methylcyclohexane	50.0	41.0	82.02	44-158

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
42 1,2-Dichloropropan	50.0	44.2	88.39	70-136
43 Dibromomethane	50.0	42.1	84.27	67-144
44 Methyl methacrylat	50.0	40.2	80.43	50-150
45 Bromodichlorometha	50.0	44.9	89.75	63-135
46 2-Chloroethyl vin	100	0.000	*	50-150
47 cis-1,3-Dichloropr	50.0	43.3	86.64	46-121
48 4-Methyl-2-Pentano	250	188	75.26	57-135
50 Toluene	50.0	39.8	79.52	59-142
51 trans-1,3-Dichloro	50.0	39.9	79.77	43-117
52 Ethyl Methacrylate	50.0	40.8	81.64	52-140
53 1,1,2-Trichloroeth	50.0	42.5	85.00	71-143
54 Tetrachloroethene	50.0	33.7	67.45	25-146
55 1,3-Dichloropropan	50.0	41.6	83.26	65-133
56 2-Hexanone	250	204	81.45	61-141
57 Dibromochlorometha	50.0	42.4	84.90	64-124
58 1,2-Dibromoethane	50.0	40.1	80.12	67-134
60 Chlorobenzene	50.0	38.2	76.37	56-133
61 1,1,1,2-Tetrachlor	50.0	40.5	81.01	55-131
62 Ethylbenzene	50.0	39.3	78.53	44-151
63 m&p-Xylene	100	77.6	77.66	41-153
65 o-Xylene	50.0	39.7	79.45	52-139
66 Styrene	50.0	39.6	79.23	38-141
67 Bromoform	50.0	37.3	74.62	58-124
68 Isopropylbenzene	50.0	37.9	75.75	40-148
69 trans-1,4-Dichloro	200	148	74.22	44-139
72 1,1,2,2-Tetrachlor	50.0	39.5	79.04	64-142
71 Bromobenzene	50.0	37.9	75.84	57-128
73 1,2,3-Trichloropro	100	73.0	73.01	33-140
74 n-Propylbenzene	50.0	39.5	79.08	40-148
75 2-Chlorotoluene	50.0	36.9	73.89	44-143
76 4-Chlorotoluene	50.0	38.1	76.23	43-140
77 1,3,5-Trimethylben	50.0	38.9	77.75	39-145
78 tert-Butylbenzene	50.0	35.1	70.18	32-133
79 1,2,4-Trimethylben	50.0	38.7	77.48	39-146
80 sec-Butylbenzene	50.0	39.8	79.53	38-150
81 1,3-Dichlorobenzen	50.0	37.9	75.88	40-143
83 p-Isopropyltoluene	50.0	39.1	78.29	34-146
84 1,4-Dichlorobenzen	50.0	36.6	73.26	38-142
86 n-Butylbenzene	50.0	40.3	80.57	27-153
85 1,2-Dichlorobenzen	50.0	38.7	77.36	48-137
88 1,2,4-Trichloroben	50.0	35.5	70.94	39-146
91 1,2,3-Trichloroben	50.0	36.6	73.25	33-140
87 1,2-Dibromo-3-chlo	50.0	35.7	71.49	39-140
89 Hexachlorobutadien	50.0	38.4	76.74	30-145
90 Naphthalene	50.0	36.5	72.94	44-138
92 2,methyl-naphthale	50.0	56.0	112.05	50-150

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	51.2	102.51	82-122

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 49 Toluene-d8	50.0	47.8	95.55	80-120
$ 70 4-Bromofluorobenze	50.0	50.6	101.25	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 393493
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a013110.b
Client Smp ID: ms5034229001
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	42.7	
74-87-3	Chloromethane	39.8	
75-01-4	Vinyl Chloride	46.2	
74-83-9	Bromomethane	64.8	
75-00-3	Chloroethane	49.0	
75-69-4	Trichlorofluoromethane	46.4	
354-23-4	1,2-dichlorotrifluoroethane	46.2	
60-29-7	Diethyl ether	44.2	
107-02-8	Acrolein	1800	
76-13-1	1,1,2trichlorotrifluoroethan	47.6	
75-35-4	1,1-Dichloroethene	49.3	
67-64-1	Acetone	199	
	Iodomethane	53.6	
75-15-0	Carbon Disulfide	122	
107-05-1	allyl chloride	96.7	
75-05-8	Acetonitrile	852	
79-20-9	Methyl Acetate	48.7	
75-09-2	Methylene Chloride	39.3	
107-13-1	Acrylonitrile	877	
1634-04-4	Methyl-tert-butyl ether	88.0	
156-60-5	1,2-Dichloroethene (trans)	59.1	
	n-Hexane	49.8	
75-34-3	1,1-Dichloroethane	39.8	
108-05-4	Vinyl Acetate	162	
141-78-6	Ethyl acetate	457	
126-99-8	Chloroprene	43.2	
594-20-7	2,2-Dichloropropane	45.2	
156-59-2	1,2-Dichloroethene (cis)	119	
78-93-3	2-Butanone	187	
107-12-0	Propionitrile	36.4	
74-97-5	Bromochloromethane	54.1	
126-98-7	Methacrylonitrile	278	
67-66-3	Chloroform	43.5	
71-55-6	1,1,1-Trichloroethane	42.9	
	Tetrahydrofuran	32.6	
110-82-7	cyclohexane	42.8	
78-83-1	Isobutyl alcohol	37.4	
56-23-5	Carbon Tetrachloride	42.2	
563-58-6	1,1-Dichloropropene	45.3	
71-43-2	Benzene	43.1	
108-21-4	isopropyl acetate	8.84	
107-06-2	1,2-Dichloroethane	46.3	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 393493
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a013110.b
Client Smp ID: ms5034229001
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
79-01-6	Trichloroethene	316	
108-87-2	Methylcyclohexane	41.0	
78-87-5	1,2-Dichloropropane	44.2	
74-95-3	Dibromomethane	42.1	
80-62-6	Methyl methacrylate	40.2	
540-84-1	2,2,4-Trimethylpentane	38.7	
	1,4-Dioxane	17500	
75-27-4	Bromodichloromethane	44.9	
10061-01-5	cis-1,3-Dichloropropene	43.3	
108-10-1	4-Methyl-2-Pentanone	188	
108-88-3	Toluene	39.8	
10061-02-6	trans-1,3-Dichloropropene	39.9	
	Ethyl Methacrylate	40.8	
79-00-5	1,1,2-Trichloroethane	42.5	
127-18-4	Tetrachloroethene	33.7	
142-28-9	1,3-Dichloropropane	41.6	
591-78-6	2-Hexanone	204	
124-48-1	Dibromochloromethane	42.4	
106-93-4	1,2-Dibromoethane	40.1	
108-90-7	Chlorobenzene	38.2	
630-20-6	1,1,1,2-Tetrachloroethane	40.5	
100-41-4	Ethylbenzene	39.3	
7816-60-0	m&p-Xylene	77.6	
95-47-6	o-Xylene	39.7	
100-42-5	Styrene	39.6	
75-25-2	Bromoform	37.3	
98-82-8	Isopropylbenzene	37.9	
	trans-1,4-Dichloro-2-butene	148	
628-63-7	n-amyl acetate	19.7	
108-86-1	Bromobenzene	37.9	
79-34-5	1,1,2,2-Tetrachloroethane	39.5	
96-18-4	1,2,3-Trichloropropane	73.0	
103-65-1	n-Propylbenzene	39.5	
95-49-8	2-Chlorotoluene	36.9	
108-67-8	1,3,5-Trimethylbenzene	38.9	
106-43-4	4-Chlorotoluene	38.1	
98-06-6	tert-Butylbenzene	35.1	
95-63-6	1,2,4-Trimethylbenzene	38.7	
135-98-8	sec-Butylbenzene	39.8	
541-73-1	1,3-Dichlorobenzene	37.9	
99-87-6	p-Isopropyltoluene	39.1	
106-46-7	1,4-Dichlorobenzene	36.6	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 393493
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

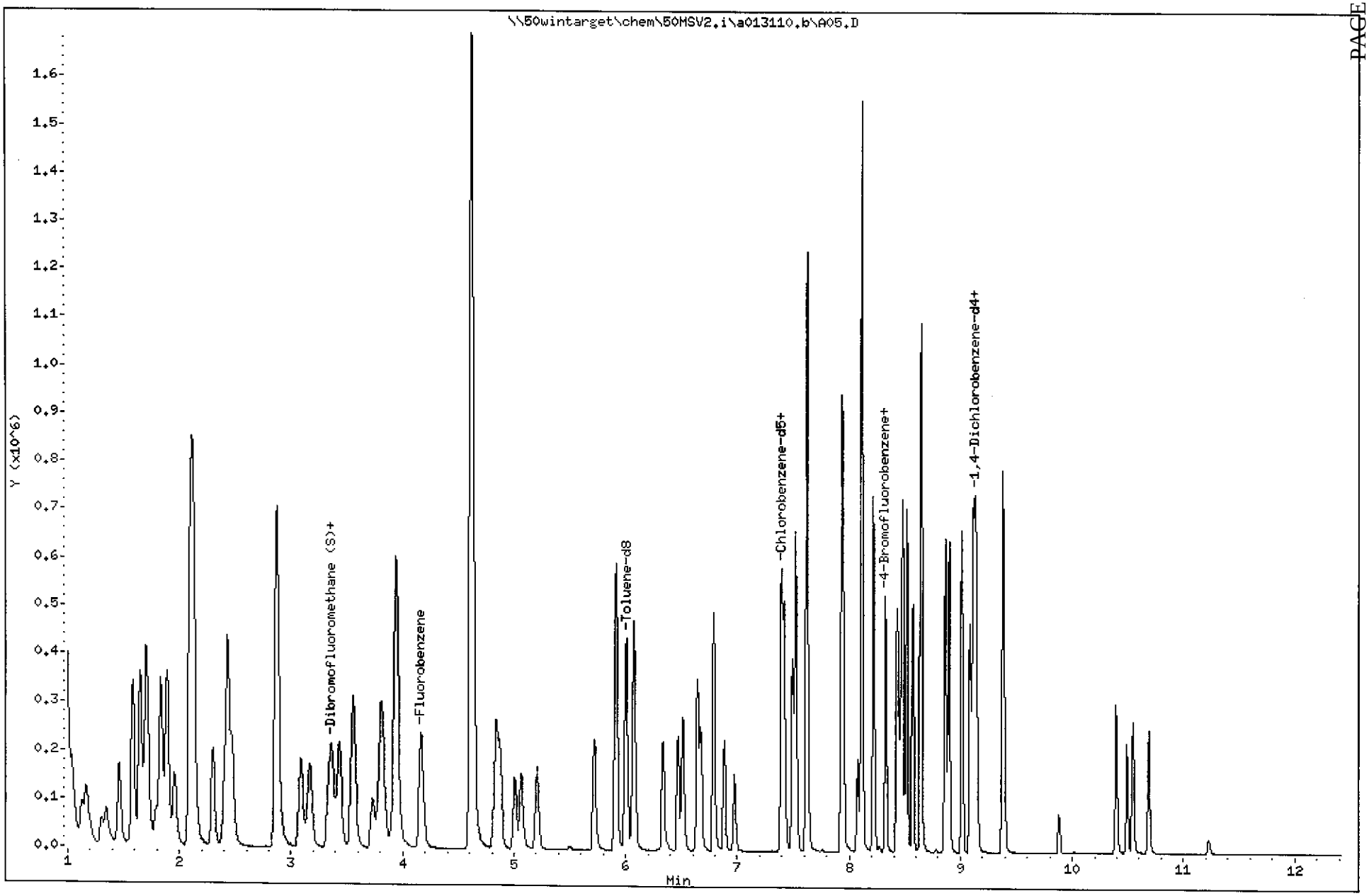
Client SDG: a013110.b
Client Smp ID: ms5034229001
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
104-51-8	n-Butylbenzene	40.3	
95-50-1	1,2-Dichlorobenzene	38.7	
96-12-8	1,2-Dibromo-3-chloropropane	35.7	
120-82-1	1,2,4-Trichlorobenzene	35.5	
87-68-3	Hexachlorobutadiene	38.4	
91-20-3	Naphthalene	36.5	
87-61-6	1,2,3-Trichlorobenzene	36.6	
	2,methyl-naphthalene	56.0	
1868-53-7	Dibromofluoromethane (S)	51.2	
2037-26-5	Toluene-d8	47.8	
460-00-4	4-Bromofluorobenzene	50.6	

Data File: \\50wintarget\chem\50MSV2.i\a013110.b\A05.D
Date : 31-JAN-2010 15:28
Client ID: ms5034229001
Sample Info: ms5034229001
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i

Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a013110.b\A06.D
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Inj Date : 31-JAN-2010 16:03
Operator : jlf Inst ID: 50MSV2.i
Smp Info : msd5034229001
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Meth Date : 01-Feb-2010 13:23 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 13 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
1 Dichlorodifluoromethane	85	1.041	1.039	(0.250)	170134	43.8911	43.9
2 Chloromethane	50	1.129	1.122	(0.271)	131515	41.5948	41.6
3 Vinyl Chloride	62	1.165	1.163	(0.280)	158662	47.5345	47.5
4 Bromomethane	94	1.305	1.292	(0.313)	57443	66.9769	67.0
5 Chloroethane	64	1.341	1.339	(0.322)	95760	49.8616	49.9
6 Trichlorofluoromethane	101	1.454	1.453	(0.349)	170605	47.2144	47.2
28 1,2-dichlorotrifluoroethane	67	1.578	1.571	(0.379)	150793	46.6479	46.6
7 Diethyl ether	74	1.584	1.582	(0.381)	59289	44.8880	44.9
8 Acrolein	56	1.646	1.644	(0.395)	447099	1838.19	1840(R)
10 1,1,2trichlorotrifluoroethane	101	1.697	1.690	(0.408)	114723	50.1260	50.1
9 1,1-Dichloroethene	96	1.703	1.701	(0.409)	99343	50.7678	50.8
11 Acetone	43	1.723	1.721	(0.414)	113415	206.230	206
12 Iodomethane	142	1.790	1.789	(0.430)	147331	64.0438	64.0
13 Carbon Disulfide	76	1.832	1.825	(0.440)	778331	125.272	125
14 allyl chloride	41	1.883	1.882	(0.453)	269516	96.8843	96.9(QM)
145 Acetonitrile	41	1.201	1.205	(0.289)	926	1117.30	1120(Q)
138 Methyl Acetate	43	1.894	1.887	(0.455)	86363	50.1685	50.2
15 Methylene Chloride	84	1.956	1.949	(0.470)	95978	41.3213	41.3
16 Acrylonitrile	53	2.095	2.088	(0.503)	714815	893.611	894
19 Methyl-tert-butyl ether	73	2.121	2.114	(0.510)	504898	89.2941	89.3
18 1,2-Dichloroethene (trans)	96	2.121	2.114	(0.510)	134250	59.5006	59.5
20 n-Hexane	57	2.297	2.290	(0.552)	138634	53.4313	53.4
21 1,1-Dichloroethane	63	2.400	2.393	(0.577)	177362	40.5278	40.5

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
	23 Vinyl Acetate	43	2.426	2.424	(0.583)	753584	162.190	162
	140 Ethyl acetate	88	2.473	2.460	(0.594)	100368	465.702	466(Q)
	147 Chloroprene	53	2.473	2.460	(0.594)	145753	44.3067	44.3
	24 2,2-Dichloropropane	77	2.865	2.858	(0.688)	146348	45.7502	45.8
	25 1,2-Dichloroethene (cis)	96	2.865	2.858	(0.688)	286511	103.652	104(R)
	26 2-Butanone	43	2.876	2.874	(0.691)	211194	190.222	190
	27 Propionitrile	54	2.938	2.926	(0.706)	12563	35.8297	35.8
	29 Bromochloromethane	49	3.088	3.081	(0.742)	87948	55.7356	55.7
	146 Methacrylonitrile	41	3.077	3.070	(0.739)	72672	280.663	281
	31 Chloroform	83	3.170	3.163	(0.762)	183005	44.3607	44.4
$	32 Dibromofluoromethane (S)	113	3.336	3.334	(0.801)	112890	51.4664	51.5
	33 1,1,1-Trichloroethane	97	3.367	3.360	(0.809)	164528	44.3580	44.4
	30 Tetrahydrofuran	42	3.150	3.143	(0.757)	26232	32.9418	32.9
	34 cyclohexane	56	3.429	3.427	(0.824)	163275	45.4603	45.5
	37 Isobutyl alcohol	43	2.876	2.874	(0.691)	211194	38.0444	38.0
	35 Carbon Tetrachloride	117	3.558	3.551	(0.855)	145002	43.1638	43.2
	36 1,1-Dichloropropene	75	3.558	3.551	(0.855)	144144	46.2540	46.2
	38 Benzene	78	3.801	3.794	(0.913)	401138	44.6487	44.6
	141 isopropyl acetate	61	3.734	3.722	(0.897)	1475	11.7958	11.8(Q)
	39 1,2-Dichloroethane	62	3.822	3.820	(0.918)	127119	47.2128	47.2
*	40 Fluorobenzene	96	4.163	4.161	(1.000)	358186	50.0000	
	41 Trichloroethene	95	4.618	4.611	(1.109)	697677	292.725	293(R)
	139 Methylcyclohexane	55	4.835	4.828	(1.161)	112550	43.3379	43.3
	42 1,2-Dichloropropane	63	4.876	4.869	(1.171)	93798	45.0183	45.0
	43 Dibromomethane	93	5.005	5.003	(1.202)	67664	43.3613	43.4
	44 Methyl methacrylate	69	5.067	5.060	(1.217)	72374	41.4866	41.5
	143 2,2,4-Trimethylpentane	57	3.925	3.923	(0.943)	224208	42.3609	42.4
	144 1,4-Dioxane	88	5.067	5.065	(1.217)	23008	17600.6	17600(Q)
	45 Bromodichloromethane	83	5.207	5.200	(1.251)	138752	46.1618	46.2
	47 cis-1,3-Dichloropropene	75	5.718	5.717	(0.774)	163569	45.5041	45.5
	48 4-Methyl-2-Pentanone	43	5.910	5.908	(0.799)	423663	188.727	189
$	49 Toluene-d8	98	6.003	5.996	(0.812)	324406	48.3679	48.4
	50 Toluene	91	6.075	6.068	(0.822)	399321	40.9738	41.0
	51 trans-1,3-Dichloropropene	75	6.333	6.326	(0.857)	140632	40.4677	40.5
	52 Ethyl Methacrylate	69	6.468	6.466	(0.875)	136277	41.7928	41.8
	53 1,1,2-Trichloroethane	83	6.514	6.507	(0.881)	70619	43.3315	43.3
	54 Tetrachloroethene	166	6.644	6.642	(0.899)	123249	36.0828	36.1
	55 1,3-Dichloropropane	76	6.669	6.668	(0.902)	150038	42.8548	42.8
	56 2-Hexanone	43	6.788	6.781	(0.918)	294046	207.665	208
	57 Dibromochloromethane	129	6.881	6.880	(0.931)	114468	43.0608	43.1
	58 1,2-Dibromoethane	107	6.974	6.967	(0.943)	107583	40.5880	40.6
*	59 Chlorobenzene-d5	117	7.393	7.391	(1.000)	318624	50.0000	
	60 Chlorobenzene	112	7.419	7.412	(1.003)	263577	39.1415	39.1
	61 1,1,1,2-Tetrachloroethane	131	7.491	7.489	(1.013)	100156	41.4844	41.5
	62 Ethylbenzene	106	7.522	7.520	(1.017)	143697	40.5773	40.6
	63 m&p-Xylene	106	7.620	7.619	(1.031)	364970	81.0771	81.1
	65 o-Xylene	106	7.931	7.929	(1.073)	179579	40.9212	40.9
	66 Styrene	104	7.946	7.939	(1.075)	289231	41.4655	41.5
	67 Bromoform	173	8.075	8.073	(0.885)	78179	37.5057	37.5
	68 Isopropylbenzene	105	8.215	8.213	(1.111)	434575	39.7331	39.7
	69 trans-1,4-Dichloro-2-butene	53	8.478	8.477	(1.147)	106877	147.892	148(Q)
	142 n-amyl acetate	70	8.318	8.316	(1.125)	795	14.9602	15.0(Q)
$	70 4-Bromofluorobenzene	95	8.323	8.322	(1.126)	143779	50.9726	51.0
	71 Bromobenzene	77	8.427	8.420	(1.140)	139566	39.4129	39.4

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
72 1,1,2,2-Tetrachloroethane	83	8.437	8.435	(0.924)	107079	39.4848	39.5
73 1,2,3-Trichloropropane	75	8.478	8.461	(0.929)	231266	73.0715	73.1(Q)
74 n-Propylbenzene	91	8.515	8.513	(0.933)	439739	40.7219	40.7
75 2-Chlorotoluene	91	8.571	8.564	(0.939)	267477	37.7583	37.8
77 1,3,5-Trimethylbenzene	105	8.639	8.637	(0.946)	312838	39.7515	39.8
76 4-Chlorotoluene	126	8.571	8.570	(0.939)	94990	40.0313	40.0
78 tert-Butylbenzene	119	8.866	8.864	(0.971)	285237	31.4697	31.5
79 1,2,4-Trimethylbenzene	105	8.897	8.895	(0.975)	304282	39.0395	39.0
80 sec-Butylbenzene	105	9.011	9.009	(0.987)	398566	40.3058	40.3
81 1,3-Dichlorobenzene	146	9.083	9.081	(0.995)	176698	39.2883	39.3
83 p-Isopropyltoluene	119	9.109	9.107	(0.998)	318839	40.1740	40.2
* 82 1,4-Dichlorobenzene-d4	152	9.130	9.128	(1.000)	146284	50.0000	
84 1,4-Dichlorobenzene	146	9.145	9.143	(1.002)	177581	38.0516	38.0
86 n-Butylbenzene	91	9.378	9.376	(1.027)	248080	41.4356	41.4
85 1,2-Dichlorobenzene	146	9.388	9.386	(1.028)	166082	39.8456	39.8
87 1,2-Dibromo-3-chloropropane	155	9.884	9.877	(1.083)	18735	35.9649	36.0
88 1,2,4-Trichlorobenzene	180	10.391	10.389	(1.138)	93495	36.1603	36.2
89 Hexachlorobutadiene	225	10.494	10.487	(1.149)	38401	39.1942	39.2
90 Naphthalene	128	10.541	10.539	(1.155)	209782	37.2573	37.2
91 1,2,3-Trichlorobenzene	180	10.685	10.683	(1.170)	78006	37.1599	37.2
92 2,methyl-naphthalene	142	11.223	11.221	(1.229)	24879	58.2663	58.3

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A06.D
Lab Smp Id: 393494
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

Calibration Date: 31-JAN-2010
Calibration Time: 13:12
Client Smp ID: msd5034229001
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	366735	183368	733470	358186	-2.33
59 Chlorobenzene-d5	322201	161101	644402	318624	-1.11
82 1,4-Dichlorobenze	147283	73642	294566	146284	-0.68

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.16	3.66	4.66	4.16	0.04
59 Chlorobenzene-d5	7.39	6.89	7.89	7.39	0.03
82 1,4-Dichlorobenze	9.13	8.63	9.63	9.13	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 393494
Level: LOW
Data Type: MS DATA
SpikeList File: 8260MS.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

Client SDG: a013110.b
Fraction: VOA
Client Smp ID: msd5034229001
Operator: jlf
SampleType: MSD
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
1 Dichlorodifluorome	50.0	43.9	87.78	30-163
2 Chloromethane	50.0	41.6	83.19	36-136
3 Vinyl Chloride	50.0	47.5	95.07	51-144
4 Bromomethane	50.0	67.0	133.95	30-170
5 Chloroethane	50.0	49.9	99.72	54-157
6 Trichlorofluoromet	50.0	47.2	94.43	53-162
28 1,2-dichlorotriflu	50.0	46.6	93.30	50-150
7 Diethyl ether	50.0	44.9	89.78	70-130
8 Acrolein	1000	1840	183.82*	30-170
9 1,1-Dichloroethene	50.0	50.8	101.54	55-140
10 1,1,2trichlorotrif	50.0	50.1	100.25	50-150
11 Acetone	250	206	82.49	30-170
12 Iodomethane	100	64.0	64.04	28-168
13 Carbon Disulfide	100	125	125.27	46-162
138 Methyl Acetate	50.0	50.2	100.34	40-182
14 allyl chloride	100	96.9	96.88	39-155
15 Methylene Chloride	50.0	41.3	82.64	46-154
16 Acrylonitrile	1000	894	89.36	66-137
27 Propionitrile	50.0	35.8	71.66	50-150
17 tert-Butyl Alcohol	100	0.000	*	50-150
18 1,2-Dichloroethene	50.0	59.5	119.00	60-137
19 Methyl-tert-butyl	100	89.3	89.29	52-156
20 n-Hexane	50.0	53.4	106.86	32-176
21 1,1-Dichloroethane	50.0	40.5	81.06	68-139
23 Vinyl Acetate	200	162	81.09	24-132
25 1,2-Dichloroethene	50.0	104	207.30*	65-132
24 2,2-Dichloropropan	50.0	45.8	91.50	35-157
26 2-Butanone	250	190	76.09	62-132
29 Bromochloromethane	50.0	55.7	111.47	65-157
30 Tetrahydrofuran	50.0	32.9	65.88	50-150
31 Chloroform	50.0	44.4	88.72	67-134
33 1,1,1-Trichloroeth	50.0	44.4	88.72	64-143
34 cyclohexane	50.0	45.5	90.92	39-167
37 Isobutyl alcohol	50.0	38.0	76.09	50-150
36 1,1-Dichloropropen	50.0	46.2	92.51	66-140
35 Carbon Tetrachlori	50.0	43.2	86.33	54-145
38 Benzene	50.0	44.6	89.30	63-141
39 1,2-Dichloroethane	50.0	47.2	94.43	63-148
41 Trichloroethene	50.0	293	585.45*	61-137
139 Methylcyclohexane	50.0	43.3	86.68	44-158

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
42 1,2-Dichloropropan	50.0	45.0	90.04	70-136
43 Dibromomethane	50.0	43.4	86.72	67-144
44 Methyl methacrylat	50.0	41.5	82.97	50-150
45 Bromodichlorometha	50.0	46.2	92.32	63-135
46 2-Chloroethyl vin	100	0.000	*	50-150
47 cis-1,3-Dichloropr	50.0	45.5	91.01	46-121
48 4-Methyl-2-Pentano	250	189	75.49	57-135
50 Toluene	50.0	41.0	81.95	59-142
51 trans-1,3-Dichloro	50.0	40.5	80.94	43-117
52 Ethyl Methacrylate	50.0	41.8	83.59	52-140
53 1,1,2-Trichloroeth	50.0	43.3	86.66	71-143
54 Tetrachloroethene	50.0	36.1	72.17	25-146
55 1,3-Dichloropropan	50.0	42.8	85.71	65-133
56 2-Hexanone	250	208	83.07	61-141
57 Dibromochlorometha	50.0	43.1	86.12	64-124
58 1,2-Dibromoethane	50.0	40.6	81.18	67-134
60 Chlorobenzene	50.0	39.1	78.28	56-133
61 1,1,1,2-Tetrachlor	50.0	41.5	82.97	55-131
62 Ethylbenzene	50.0	40.6	81.15	44-151
63 m&p-Xylene	100	81.1	81.08	41-153
65 o-Xylene	50.0	40.9	81.84	52-139
66 Styrene	50.0	41.5	82.93	38-141
67 Bromoform	50.0	37.5	75.01	58-124
68 Isopropylbenzene	50.0	39.7	79.47	40-148
69 trans-1,4-Dichloro	200	148	73.95	44-139
72 1,1,2,2-Tetrachlor	50.0	39.5	78.97	64-142
71 Bromobenzene	50.0	39.4	78.83	57-128
73 1,2,3-Trichloropro	100	73.1	73.07	33-140
74 n-Propylbenzene	50.0	40.7	81.44	40-148
75 2-Chlorotoluene	50.0	37.8	75.52	44-143
76 4-Chlorotoluene	50.0	40.0	80.06	43-140
77 1,3,5-Trimethylben	50.0	39.8	79.50	39-145
78 tert-Butylbenzene	50.0	31.5	62.94	32-133
79 1,2,4-Trimethylben	50.0	39.0	78.08	39-146
80 sec-Butylbenzene	50.0	40.3	80.61	38-150
81 1,3-Dichlorobenzen	50.0	39.3	78.58	40-143
83 p-Isopropyltoluene	50.0	40.2	80.35	34-146
84 1,4-Dichlorobenzen	50.0	38.0	76.10	38-142
86 n-Butylbenzene	50.0	41.4	82.87	27-153
85 1,2-Dichlorobenzen	50.0	39.8	79.69	48-137
88 1,2,4-Trichloroben	50.0	36.2	72.32	39-146
91 1,2,3-Trichloroben	50.0	37.2	74.32	33-140
87 1,2-Dibromo-3-chlo	50.0	36.0	71.93	39-140
89 Hexachlorobutadien	50.0	39.2	78.39	30-145
90 Naphthalene	50.0	37.2	74.51	44-138
92 2,methyl-naphthale	50.0	58.3	116.53	50-150

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	51.5	102.93	82-122

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 49 Toluene-d8	50.0	48.4	96.74	80-120
$ 70 4-Bromofluorobenze	50.0	51.0	101.95	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 393494
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a013110.b
Client Smp ID: msd5034229001
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	43.9	
74-87-3	Chloromethane	41.6	
75-01-4	Vinyl Chloride	47.5	
74-83-9	Bromomethane	67.0	
75-00-3	Chloroethane	49.9	
75-69-4	Trichlorofluoromethane	47.2	
354-23-4	1,2-dichlorotrifluoroethane	46.6	
60-29-7	Diethyl ether	44.9	
107-02-8	Acrolein	1840	
76-13-1	1,1,2trichlorotrifluoroethan	50.1	
75-35-4	1,1-Dichloroethene	50.8	
67-64-1	Acetone	206	
	Iodomethane	64.0	
75-15-0	Carbon Disulfide	125	
107-05-1	allyl chloride	96.9	
75-05-8	Acetonitrile	1120	
79-20-9	Methyl Acetate	50.2	
75-09-2	Methylene Chloride	41.3	
107-13-1	Acrylonitrile	894	
1634-04-4	Methyl-tert-butyl ether	89.3	
156-60-5	1,2-Dichloroethene (trans)	59.5	
	n-Hexane	53.4	
75-34-3	1,1-Dichloroethane	40.5	
108-05-4	Vinyl Acetate	162	
141-78-6	Ethyl acetate	466	
126-99-8	Chloroprene	44.3	
594-20-7	2,2-Dichloropropane	45.8	
156-59-2	1,2-Dichloroethene (cis)	104	
78-93-3	2-Butanone	190	
107-12-0	Propionitrile	35.8	
74-97-5	Bromochloromethane	55.7	
126-98-7	Methacrylonitrile	281	
67-66-3	Chloroform	44.4	
71-55-6	1,1,1-Trichloroethane	44.4	
	Tetrahydrofuran	32.9	
110-82-7	cyclohexane	45.5	
78-83-1	Isobutyl alcohol	38.0	
56-23-5	Carbon Tetrachloride	43.2	
563-58-6	1,1-Dichloropropene	46.2	
71-43-2	Benzene	44.6	
108-21-4	isopropyl acetate	11.8	
107-06-2	1,2-Dichloroethane	47.2	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 393494
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a013110.b
Client Smp ID: msd5034229001
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
79-01-6	Trichloroethene	293	
108-87-2	Methylcyclohexane	43.3	
78-87-5	1,2-Dichloropropane	45.0	
74-95-3	Dibromomethane	43.4	
80-62-6	Methyl methacrylate	41.5	
540-84-1	2,2,4-Trimethylpentane	42.4	
	1,4-Dioxane	17600	
75-27-4	Bromodichloromethane	46.2	
10061-01-5	cis-1,3-Dichloropropene	45.5	
108-10-1	4-Methyl-2-Pentanone	189	
108-88-3	Toluene	41.0	
10061-02-6	trans-1,3-Dichloropropene	40.5	
	Ethyl Methacrylate	41.8	
79-00-5	1,1,2-Trichloroethane	43.3	
127-18-4	Tetrachloroethene	36.1	
142-28-9	1,3-Dichloropropane	42.8	
591-78-6	2-Hexanone	208	
124-48-1	Dibromochloromethane	43.1	
106-93-4	1,2-Dibromoethane	40.6	
108-90-7	Chlorobenzene	39.1	
630-20-6	1,1,1,2-Tetrachloroethane	41.5	
100-41-4	Ethylbenzene	40.6	
7816-60-0	m&p-Xylene	81.1	
95-47-6	o-Xylene	40.9	
100-42-5	Styrene	41.5	
75-25-2	Bromoform	37.5	
98-82-8	Isopropylbenzene	39.7	
	trans-1,4-Dichloro-2-butene	148	
628-63-7	n-amyl acetate	15.0	
108-86-1	Bromobenzene	39.4	
79-34-5	1,1,2,2-Tetrachloroethane	39.5	
96-18-4	1,2,3-Trichloropropane	73.1	
103-65-1	n-Propylbenzene	40.7	
95-49-8	2-Chlorotoluene	37.8	
108-67-8	1,3,5-Trimethylbenzene	39.8	
106-43-4	4-Chlorotoluene	40.0	
98-06-6	tert-Butylbenzene	31.5	
95-63-6	1,2,4-Trimethylbenzene	39.0	
135-98-8	sec-Butylbenzene	40.3	
541-73-1	1,3-Dichlorobenzene	39.3	
99-87-6	p-Isopropyltoluene	40.2	
106-46-7	1,4-Dichlorobenzene	38.0	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

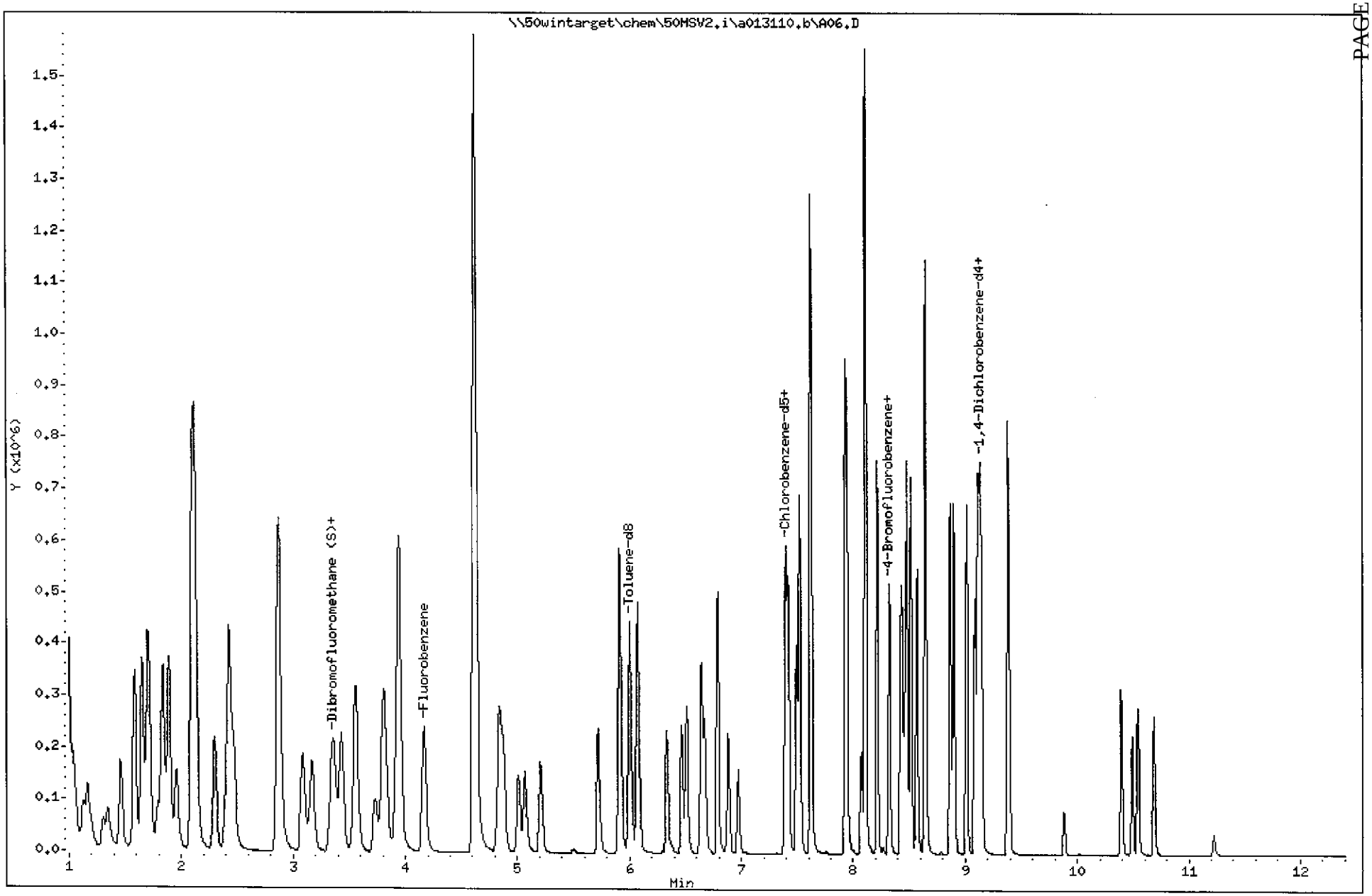
Client Name:
Lab Smp Id: 393494
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a013110.b
Client Smp ID: msd5034229001
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
104-51-8	n-Butylbenzene	41.4	
95-50-1	1,2-Dichlorobenzene	39.8	
96-12-8	1,2-Dibromo-3-chloropropane	36.0	
120-82-1	1,2,4-Trichlorobenzene	36.2	
87-68-3	Hexachlorobutadiene	39.2	
91-20-3	Naphthalene	37.2	
87-61-6	1,2,3-Trichlorobenzene	37.2	
	2,methyl-naphthalene	58.3	
1868-53-7	Dibromofluoromethane (S)	51.5	
2037-26-5	Toluene-d8	48.4	
460-00-4	4-Bromofluorobenzene	51.0	

Data File: \\50wintarget\chem\50MSV2.i\a013110.b\A06.D
Date : 31-JAN-2010 16:03
Client ID: msd5034229001
Sample Info: msd5034229001
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a020110.b\A02LCS.D
Lab Smp Id: 393783
Inj Date : 01-FEB-2010 11:02
Operator : jlf Inst ID: 50MSV2.i
Smp Info : lcs 34A-054
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a020110.b\-8260-c1.m
Meth Date : 02-Feb-2010 13:22 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
1 Dichlorodifluoromethane	85	1.041	1.042	(0.250)	217974	59.6125	59.6
2 Chloromethane	50	1.129	1.135	(0.272)	143523	46.9988	47.0
3 Vinyl Chloride	62	1.165	1.166	(0.280)	176108	55.1000	55.1
4 Bromomethane	94	1.304	1.296	(0.314)	52578	63.1650	63.2
5 Chloroethane	64	1.341	1.342	(0.323)	100669	54.2740	54.3
6 Trichlorofluoromethane	101	1.454	1.456	(0.350)	188694	54.1885	54.2
28 1,2-dichlorotrifluoroethane	67	1.573	1.575	(0.378)	171020	55.8489	55.8
7 Diethyl ether	74	1.584	1.585	(0.381)	65651	52.2145	52.2
8 Acrolein	56	1.646	1.647	(0.396)	552537	2352.07	2350(R)
10 1,1,2trichlorotrifluoroethane	101	1.692	1.699	(0.407)	131764	60.7987	60.8
9 1,1-Dichloroethene	96	1.702	1.704	(0.410)	107087	57.2950	57.3
11 Acetone	43	1.718	1.725	(0.413)	173167	336.940	337
12 Iodomethane	142	1.790	1.792	(0.431)	114642	51.1381	51.1
13 Carbon Disulfide	76	1.832	1.833	(0.441)	826055	137.657	138
14 allyl chloride	41	1.883	1.885	(0.453)	294321	111.071	111(QM)
138 Methyl Acetate	43	1.889	1.895	(0.454)	108711	66.1772	66.2
15 Methylene Chloride	84	1.951	1.957	(0.469)	105383	47.4432	47.4
16 Acrylonitrile	53	2.090	2.097	(0.503)	833915	1097.91	1100
19 Methyl-tert-butyl ether	73	2.121	2.122	(0.510)	575289	106.896	107
18 1,2-Dichloroethene (trans)	96	2.116	2.122	(0.509)	118023	53.9998	54.0
20 n-Hexane	57	2.297	2.298	(0.552)	160121	63.8964	63.9
21 1,1-Dichloroethane	63	2.400	2.402	(0.577)	194435	46.0011	46.0
23 Vinyl Acetate	43	2.426	2.433	(0.584)	913768	203.624	204

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
	140 Ethyl acetate	88	2.462	2.474	(0.592)	109952	530.742	531
	147 Chloroprene	53	2.467	2.469	(0.594)	161219	50.7422	50.7
	24 2,2-Dichloropropane	77	2.860	2.872	(0.688)	170117	55.0624	55.1
	25 1,2-Dichloroethene (cis)	96	2.860	2.867	(0.688)	140612	51.6120	51.6
	26 2-Butanone	43	2.876	2.882	(0.692)	294089	274.258	274
	27 Propionitrile	54	2.927	2.944	(0.704)	15795	45.4713	45.5
	29 Bromochloromethane	49	3.088	3.084	(0.743)	98533	65.3534	65.4
	146 Methacrylonitrile	41	3.067	3.079	(0.738)	90537	363.379	363
	31 Chloroform	83	3.165	3.172	(0.761)	205078	51.4702	51.5
$	32 Dibromofluoromethane (S)	113	3.336	3.342	(0.802)	106776	50.4015	50.4
	33 1,1,1-Trichloroethane	97	3.362	3.368	(0.809)	184698	51.9582	52.0
	30 Tetrahydrofuran	42	3.139	3.151	(0.755)	36924	51.7442	51.7
	34 cyclohexane	56	3.429	3.430	(0.825)	190471	55.5021	55.5
	37 Isobutyl alcohol	43	2.876	2.882	(0.692)	294089	54.8516	54.8
	35 Carbon Tetrachloride	117	3.548	3.554	(0.853)	163373	50.3533	50.4
	36 1,1-Dichloropropene	75	3.548	3.559	(0.853)	164065	54.5092	54.5
	38 Benzene	78	3.796	3.807	(0.913)	445333	51.3217	51.3
	141 isopropyl acetate	61	3.729	3.730	(0.897)	695	5.75471	5.75(Q)
	39 1,2-Dichloroethane	62	3.822	3.828	(0.919)	146197	56.7844	56.8
*	40 Fluorobenzene	96	4.157	4.169	(1.000)	345945	50.0000	
	41 Trichloroethene	95	4.612	4.619	(1.109)	129868	54.8052	54.8
	139 Methylcyclohexane	55	4.829	4.841	(1.162)	136686	55.4297	55.4
	42 1,2-Dichloropropane	63	4.866	4.877	(1.170)	109137	54.5133	54.5
	43 Dibromomethane	93	5.000	5.007	(1.203)	76173	50.7675	50.8
	44 Methyl methacrylate	69	5.057	5.069	(1.216)	88112	52.2849	52.3
	143 2,2,4-Trimethylpentane	57	3.920	3.931	(0.943)	270922	52.9981	53.0
	144 1,4-Dioxane	88	5.057	5.069	(1.216)	30161	23888.9	23900(Q)
	45 Bromodichloromethane	83	5.202	5.208	(1.251)	157236	54.3838	54.4
	46 2-Chloroethyl vinyl ether	63	5.579	5.585	(0.755)	33616	9.54902	9.55
	47 cis-1,3-Dichloropropene	75	5.713	5.720	(0.773)	185245	52.9186	52.9
	48 4-Methyl-2-Pentanone	43	5.904	5.916	(0.799)	520766	236.704	237
$	49 Toluene-d8	98	5.997	6.004	(0.812)	309856	47.1386	47.1
	50 Toluene	91	6.070	6.076	(0.822)	452018	47.3247	47.3
	51 trans-1,3-Dichloropropene	75	6.328	6.335	(0.857)	165217	48.8376	48.8
	52 Ethyl Methacrylate	69	6.463	6.469	(0.875)	164557	51.8297	51.8
	53 1,1,2-Trichloroethane	83	6.509	6.516	(0.881)	83021	52.5418	52.5
	54 Tetrachloroethene	166	6.638	6.645	(0.899)	140913	42.7251	42.7
	55 1,3-Dichloropropane	76	6.669	6.676	(0.903)	174236	51.2408	51.2
	56 2-Hexanone	43	6.783	6.790	(0.918)	375475	274.628	275
	57 Dibromochloromethane	129	6.881	6.888	(0.931)	134373	51.5773	51.6
	58 1,2-Dibromoethane	107	6.969	6.976	(0.943)	128385	49.8273	49.8
*	59 Chlorobenzene-d5	117	7.388	7.394	(1.000)	312270	50.0000	
	60 Chlorobenzene	112	7.414	7.420	(1.003)	306458	46.4353	46.4
	61 1,1,1,2-Tetrachloroethane	131	7.491	7.498	(1.014)	117726	49.7541	49.8
	62 Ethylbenzene	106	7.517	7.524	(1.017)	167087	48.1422	48.1
	63 m&p-Xylene	106	7.615	7.622	(1.031)	419188	95.0163	95.0
	65 o-Xylene	106	7.925	7.932	(1.073)	209394	48.6861	48.7
	66 Styrene	104	7.941	7.947	(1.075)	335762	49.1159	49.1
	67 Bromoform	173	8.070	8.077	(0.884)	92507	44.7286	44.7
	68 Isopropylbenzene	105	8.215	8.216	(1.112)	497610	46.4221	46.4
	69 trans-1,4-Dichloro-2-butene	53	8.473	8.480	(1.147)	136595	193.004	193(Q)
	142 n-amyl acetate	70	8.318	8.325	(1.126)	1098	21.0825	21.1(Q)
$	70 4-Bromofluorobenzene	95	8.318	8.325	(1.126)	140860	50.9539	51.0
	71 Bromobenzene	77	8.421	8.428	(1.140)	166797	48.7939	48.8

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
72 1,1,2,2-Tetrachloroethane	83	8.437	8.438	(0.925)	130643	48.6959	48.7
73 1,2,3-Trichloropropane	75	8.473	8.464	(0.929)	292856	93.5343	93.5
74 n-Propylbenzene	91	8.515	8.516	(0.933)	504664	47.2406	47.2
75 2-Chlorotoluene	91	8.566	8.573	(0.939)	310918	44.3662	44.4
77 1,3,5-Trimethylbenzene	105	8.639	8.645	(0.947)	365752	46.9786	47.0
76 4-Chlorotoluene	126	8.566	8.573	(0.939)	110230	46.8943	46.9
78 tert-Butylbenzene	119	8.861	8.867	(0.971)	377847	42.1389	42.1
79 1,2,4-Trimethylbenzene	105	8.892	8.898	(0.975)	358438	46.4860	46.5
80 sec-Butylbenzene	105	9.011	9.017	(0.988)	467360	47.7749	47.8
81 1,3-Dichlorobenzene	146	9.083	9.090	(0.995)	209606	47.1102	47.1
83 p-Isopropyltoluene	119	9.109	9.115	(0.998)	376788	47.9900	48.0
* 82 1,4-Dichlorobenzene-d4	152	9.124	9.131	(1.000)	144716	50.0000	
84 1,4-Dichlorobenzene	146	9.140	9.146	(1.002)	212994	46.1343	46.1
86 n-Butylbenzene	91	9.372	9.379	(1.027)	294036	49.8355	49.8
85 1,2-Dichlorobenzene	146	9.383	9.389	(1.028)	200927	48.7277	48.7
87 1,2-Dibromo-3-chloropropane	155	9.879	9.886	(1.083)	23803	44.8800	44.9
88 1,2,4-Trichlorobenzene	180	10.391	10.397	(1.139)	118472	45.4713	45.5
89 Hexachlorobutadiene	225	10.489	10.495	(1.150)	45709	46.9612	47.0
90 Naphthalene	128	10.541	10.547	(1.155)	273135	47.4537	47.4
91 1,2,3-Trichlorobenzene	180	10.680	10.692	(1.170)	100075	46.8254	46.8
92 2,methyl-naphthalene	142	11.218	11.229	(1.229)	43313	65.6995	65.7

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A02LCS.D
Lab Smp Id: 393783
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a020110.b\-8260-c1.m
Misc Info:

Calibration Date: 01-FEB-2010
Calibration Time: 22:56

Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	386353	193177	772706	345945	-10.46
59 Chlorobenzene-d5	284875	142438	569750	312270	9.62
82 1,4-Dichlorobenze	122952	61476	245904	144716	17.70

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.17	3.67	4.67	4.16	-0.28
59 Chlorobenzene-d5	7.39	6.89	7.89	7.39	-0.09
82 1,4-Dichlorobenze	9.13	8.63	9.63	9.12	-0.07

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 393783
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCS.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a020110.b\-8260-c1.m
Misc Info:

Client SDG: a020110.b
Fraction: VOA

Operator: jlf
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
1 Dichlorodifluorome	50.0	59.6	119.23	30-170
2 Chloromethane	50.0	47.0	94.00	35-147
3 Vinyl Chloride	50.0	55.1	110.20	55-141
4 Bromomethane	50.0	63.2	126.33	30-170
5 Chloroethane	50.0	54.3	108.55	56-153
6 Trichlorofluoromet	50.0	54.2	108.38	62-150
7 Diethyl ether	50.0	52.2	104.43	70-130
8 Acrolein	1000	2350	235.21*	30-170
9 1,1-Dichloroethene	50.0	57.3	114.59	63-128
10 1,1,2trichlorotrif	50.0	60.8	121.60	74-153
11 Acetone	250	337	134.78	30-170
12 Iodomethane	100	51.1	51.14	41-170
13 Carbon Disulfide	100	138	137.66	58-152
14 allyl chloride	100	111	111.07	70-130
15 Methylene Chloride	50.0	47.4	94.89	32-164
16 Acrylonitrile	1000	1100	109.79	67-136
17 tert-Butyl Alcohol	100	0.000	*	50-150
18 1,2-Dichloroethene	50.0	54.0	108.00	71-126
19 Methyl-tert-butyl	100	107	106.90	66-147
20 n-Hexane	50.0	63.9	127.79	69-157
21 1,1-Dichloroethane	50.0	46.0	92.00	67-133
23 Vinyl Acetate	200	204	101.81	41-145
24 2,2-Dichloropropan	50.0	55.1	110.12	53-144
25 1,2-Dichloroethene	50.0	51.6	103.22	74-128
26 2-Butanone	250	274	109.70	47-189
28 1,2-dichlorotriflu	50.0	55.8	111.70	54-162
29 Bromochloromethane	50.0	65.4	130.71	54-162
31 Chloroform	50.0	51.5	102.94	74-131
33 1,1,1-Trichloroeth	50.0	52.0	103.92	69-136
35 Carbon Tetrachlori	50.0	50.4	100.71	62-143
36 1,1-Dichloropropen	50.0	54.5	109.02	75-134
37 Isobutyl alcohol	50.0	54.8	109.70	50-150
38 Benzene	50.0	51.3	102.64	78-127
39 1,2-Dichloroethane	50.0	56.8	113.57	69-139
41 Trichloroethene	50.0	54.8	109.61	74-130
42 1,2-Dichloropropan	50.0	54.5	109.03	76-129
43 Dibromomethane	50.0	50.8	101.54	73-133
44 Methyl methacrylat	50.0	52.3	104.57	70-130
45 Bromodichlorometha	50.0	54.4	108.77	69-133
47 cis-1,3-Dichloropr	50.0	52.9	105.84	54-123

SPIKE	COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
48	4-Methyl-2-Pentano	250	237	94.68	61-135
50	Toluene	50.0	47.3	94.65	75-129
51	trans-1,3-Dichloro	50.0	48.8	97.68	54-123
52	Ethyl Methacrylate	50.0	51.8	103.66	59-138
53	1,1,2-Trichloroeth	50.0	52.5	105.08	77-132
54	Tetrachloroethene	50.0	42.7	85.45	60-119
55	1,3-Dichloropropan	50.0	51.2	102.48	74-126
56	2-Hexanone	250	275	109.85	57-167
57	Dibromochlorometha	50.0	51.6	103.15	66-131
58	1,2-Dibromoethane	50.0	49.8	99.65	75-126
60	Chlorobenzene	50.0	46.4	92.87	75-123
61	1,1,1,2-Tetrachlor	50.0	49.8	99.51	69-130
62	Ethylbenzene	50.0	48.1	96.28	81-126
63	m&p-Xylene	100	95.0	95.02	71-131
65	o-Xylene	50.0	48.7	97.37	72-127
66	Styrene	50.0	49.1	98.23	74-128
67	Bromoform	50.0	44.7	89.46	60-127
68	Isopropylbenzene	50.0	46.4	92.84	80-130
69	trans-1,4-Dichloro	200	193	96.50	50-150
71	Bromobenzene	50.0	48.8	97.59	62-139
72	1,1,2,2-Tetrachlor	50.0	48.7	97.39	69-130
73	1,2,3-Trichloropro	100	93.5	93.53	60-131
74	n-Propylbenzene	50.0	47.2	94.48	71-132
75	2-Chlorotoluene	50.0	44.4	88.73	72-128
76	4-Chlorotoluene	50.0	46.9	93.79	73-124
77	1,3,5-Trimethylben	50.0	47.0	93.96	74-130
78	tert-Butylbenzene	50.0	42.1	84.28	63-117
79	1,2,4-Trimethylben	50.0	46.5	92.97	73-130
80	sec-Butylbenzene	50.0	47.8	95.55	73-130
81	1,3-Dichlorobenzen	50.0	47.1	94.22	76-125
83	p-Isopropyltoluene	50.0	48.0	95.98	66-131
84	1,4-Dichlorobenzen	50.0	46.1	92.27	75-122
85	1,2-Dichlorobenzen	50.0	48.7	97.46	76-124
86	n-Butylbenzene	50.0	49.8	99.67	68-135
87	1,2-Dibromo-3-chlo	50.0	44.9	89.76	61-125
88	1,2,4-Trichloroben	50.0	45.5	90.94	60-130
89	Hexachlorobutadien	50.0	47.0	93.92	70-130
90	Naphthalene	50.0	47.4	94.91	61-135
91	1,2,3-Trichloroben	50.0	46.8	93.65	58-131
138	Methyl Acetate	50.0	66.2	132.35	30-170
34	cyclohexane	50.0	55.5	111.00	63-134
139	Methylcyclohexane	50.0	55.4	110.86	65-135

SURROGATE	COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32	Dibromofluorometha	50.0	50.4	100.80	82-122
$ 49	Toluene-d8	50.0	47.1	94.28	80-120
$ 70	4-Bromofluorobenze	50.0	51.0	101.91	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 393783
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a020110.b
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	59.6	
74-87-3	Chloromethane	47.0	
75-01-4	Vinyl Chloride	55.1	
74-83-9	Bromomethane	63.2	
75-00-3	Chloroethane	54.3	
75-69-4	Trichlorofluoromethane	54.2	
354-23-4	1,2-dichlorotrifluoroethane	55.8	
60-29-7	Diethyl ether	52.2	
107-02-8	Acrolein	2350	
76-13-1	1,1,2trichlorotrifluoroethan	60.8	
75-35-4	1,1-Dichloroethene	57.3	
67-64-1	Acetone	337	
	Iodomethane	51.1	
75-15-0	Carbon Disulfide	138	
107-05-1	allyl chloride	111	
79-20-9	Methyl Acetate	66.2	
75-09-2	Methylene Chloride	47.4	
107-13-1	Acrylonitrile	1100	
1634-04-4	Methyl-tert-butyl ether	107	
156-60-5	1,2-Dichloroethene (trans)	54.0	
	n-Hexane	63.9	
75-34-3	1,1-Dichloroethane	46.0	
108-05-4	Vinyl Acetate	204	
141-78-6	Ethyl acetate	531	
126-99-8	Chloroprene	50.7	
594-20-7	2,2-Dichloropropane	55.1	
156-59-2	1,2-Dichloroethene (cis)	51.6	
78-93-3	2-Butanone	274	
107-12-0	Propionitrile	45.5	
74-97-5	Bromochloromethane	65.4	
126-98-7	Methacrylonitrile	363	
67-66-3	Chloroform	51.5	
71-55-6	1,1,1-Trichloroethane	52.0	
	Tetrahydrofuran	51.7	
110-82-7	cyclohexane	55.5	
78-83-1	Isobutyl alcohol	54.8	
56-23-5	Carbon Tetrachloride	50.4	
563-58-6	1,1-Dichloropropene	54.5	
71-43-2	Benzene	51.3	
108-21-4	isopropyl acetate	5.75	
107-06-2	1,2-Dichloroethane	56.8	
79-01-6	Trichloroethene	54.8	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 393783
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a020110.b
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-87-2	Methylcyclohexane	55.4	
78-87-5	1,2-Dichloropropane	54.5	
74-95-3	Dibromomethane	50.8	
80-62-6	Methyl methacrylate	52.3	
540-84-1	2,2,4-Trimethylpentane	53.0	
	1,4-Dioxane	23900	
75-27-4	Bromodichloromethane	54.4	
110-75-8	2-Chloroethyl vinyl ether	9.55	
10061-01-5	cis-1,3-Dichloropropene	52.9	
108-10-1	4-Methyl-2-Pentanone	237	
108-88-3	Toluene	47.3	
10061-02-6	trans-1,3-Dichloropropene	48.8	
	Ethyl Methacrylate	51.8	
79-00-5	1,1,2-Trichloroethane	52.5	
127-18-4	Tetrachloroethene	42.7	
142-28-9	1,3-Dichloropropane	51.2	
591-78-6	2-Hexanone	275	
124-48-1	Dibromochloromethane	51.6	
106-93-4	1,2-Dibromoethane	49.8	
108-90-7	Chlorobenzene	46.4	
630-20-6	1,1,1,2-Tetrachloroethane	49.8	
100-41-4	Ethylbenzene	48.1	
7816-60-0	m&p-Xylene	95.0	
95-47-6	o-Xylene	48.7	
100-42-5	Styrene	49.1	
75-25-2	Bromoform	44.7	
98-82-8	Isopropylbenzene	46.4	
	trans-1,4-Dichloro-2-butene	193	
628-63-7	n-amyl acetate	21.1	
108-86-1	Bromobenzene	48.8	
79-34-5	1,1,2,2-Tetrachloroethane	48.7	
96-18-4	1,2,3-Trichloropropane	93.5	
103-65-1	n-Propylbenzene	47.2	
95-49-8	2-Chlorotoluene	44.4	
108-67-8	1,3,5-Trimethylbenzene	47.0	
106-43-4	4-Chlorotoluene	46.9	
98-06-6	tert-Butylbenzene	42.1	
95-63-6	1,2,4-Trimethylbenzene	46.5	
135-98-8	sec-Butylbenzene	47.8	
541-73-1	1,3-Dichlorobenzene	47.1	
99-87-6	p-Isopropyltoluene	48.0	
106-46-7	1,4-Dichlorobenzene	46.1	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

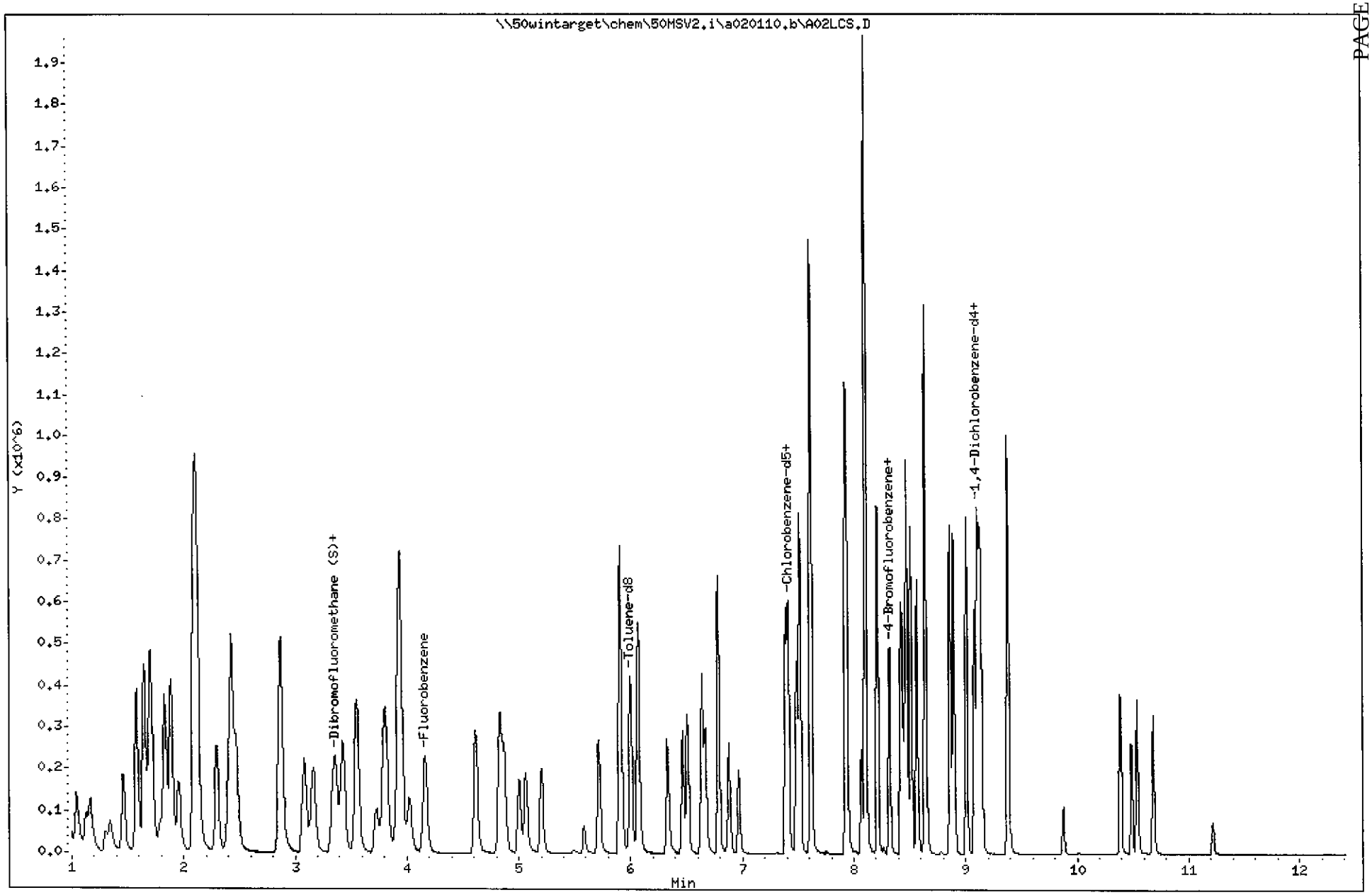
Client Name:
Lab Smp Id: 393783
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a020110.b
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
104-51-8	n-Butylbenzene	49.8	
95-50-1	1,2-Dichlorobenzene	48.7	
96-12-8	1,2-Dibromo-3-chloropropane	44.9	
120-82-1	1,2,4-Trichlorobenzene	45.5	
87-68-3	Hexachlorobutadiene	47.0	
91-20-3	Naphthalene	47.4	
87-61-6	1,2,3-Trichlorobenzene	46.8	
	2,methyl-naphthalene	65.7	
1868-53-7	Dibromofluoromethane (S)	50.4	
2037-26-5	Toluene-d8	47.1	
460-00-4	4-Bromofluorobenzene	51.0	

Data File: \\50wintarget\chem\50MSV2.i\a020110.b\A02LCS.D
Date : 01-FEB-2010 11:02
Client ID:
Sample Info: lcs 34A-054
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a020110.b\A07.D
Lab Smp Id: 393784 Client Smp ID: ms5034229003
Inj Date : 01-FEB-2010 13:53
Operator : jlf Inst ID: 50MSV2.i
Smp Info : ms5034229003
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a020110.b\-8260-c1.m
Meth Date : 02-Feb-2010 13:22 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 15 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
1 Dichlorodifluoromethane	85	1.038	1.042	(0.249)	198442	52.0428	52.0
2 Chloromethane	50	1.126	1.135	(0.270)	143971	45.6483	45.6
3 Vinyl Chloride	62	1.162	1.166	(0.279)	181364	54.9333	54.9
4 Bromomethane	94	1.302	1.296	(0.313)	69539	82.5435	82.5
5 Chloroethane	64	1.343	1.342	(0.323)	109853	57.3455	57.3
6 Trichlorofluoromethane	101	1.457	1.456	(0.350)	199105	55.3803	55.4
28 1,2-dichlorotrifluoroethane	67	1.576	1.575	(0.378)	176741	55.8880	55.9
7 Diethyl ether	74	1.581	1.585	(0.380)	67747	52.1660	52.2
8 Acrolein	56	1.648	1.647	(0.396)	498223	2053.51	2050(R)
10 1,1,2trichlorotrifluoroethane	101	1.694	1.699	(0.407)	130518	58.0538	58.0
9 1,1-Dichloroethene	96	1.700	1.704	(0.408)	112610	58.4357	58.4
11 Acetone	43	1.720	1.725	(0.413)	127905	235.615	236
12 Iodomethane	142	1.787	1.792	(0.429)	134553	58.2913	58.3
13 Carbon Disulfide	76	1.829	1.833	(0.439)	878387	141.729	142
14 allyl chloride	41	1.886	1.885	(0.453)	309187	113.176	113
145 Acetonitrile	41	1.209	1.203	(0.290)	1437	1738.21	1740(Q)
138 Methyl Acetate	43	1.891	1.895	(0.454)	94324	55.1781	55.2
15 Methylene Chloride	84	1.953	1.957	(0.469)	107979	47.0410	47.0
16 Acrylonitrile	53	2.092	2.097	(0.502)	813494	1032.07	1030
19 Methyl-tert-butyl ether	73	2.118	2.122	(0.509)	575800	103.326	103
18 1,2-Dichloroethene (trans)	96	2.118	2.122	(0.509)	125059	55.4481	55.4
20 n-Hexane	57	2.294	2.298	(0.551)	153488	59.3043	59.3
21 1,1-Dichloroethane	63	2.397	2.402	(0.576)	202770	46.4495	46.4

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
	23 Vinyl Acetate	43	2.428	2.433	(0.583)	814651	175.772	176
	140 Ethyl acetate	88	2.470	2.474	(0.593)	113191	528.964	529(Q)
	147 Chloroprene	53	2.470	2.469	(0.593)	166574	50.7626	50.8
	24 2,2-Dichloropropane	77	2.862	2.872	(0.687)	167187	52.3955	52.4
	25 1,2-Dichloroethene (cis)	96	2.868	2.867	(0.689)	161685	57.7059	57.7
	26 2-Butanone	43	2.878	2.882	(0.691)	247203	223.212	223
	27 Propionitrile	54	2.935	2.944	(0.705)	15319	42.9367	42.9
	29 Bromochloromethane	49	3.085	3.084	(0.741)	100602	64.5566	64.6
	146 Methacrylonitrile	41	3.074	3.079	(0.738)	83883	325.502	326
	31 Chloroform	83	3.167	3.172	(0.761)	210125	51.0621	51.1
$	32 Dibromofluoromethane (S)	113	3.338	3.342	(0.801)	110497	50.5015	50.5
	33 1,1,1-Trichloroethane	97	3.369	3.368	(0.809)	189647	51.6418	51.6
	30 Tetrahydrofuran	42	3.147	3.151	(0.756)	29724	38.5305	38.5
	34 cyclohexane	56	3.426	3.430	(0.823)	187310	52.7111	52.7
	37 Isobutyl alcohol	43	2.878	2.882	(0.691)	247203	44.6424	44.6
	35 Carbon Tetrachloride	117	3.550	3.554	(0.852)	168761	50.3621	50.4
	36 1,1-Dichloropropene	75	3.555	3.559	(0.854)	165596	53.2706	53.3
	38 Benzene	78	3.798	3.807	(0.912)	456167	50.9008	50.9
	141 isopropyl acetate	61	3.731	3.730	(0.896)	1368	10.9675	11.0(Q)
	39 1,2-Dichloroethane	62	3.829	3.828	(0.919)	145111	54.4573	54.4
*	40 Fluorobenzene	96	4.165	4.169	(1.000)	357292	50.0000	
	41 Trichloroethene	95	4.615	4.619	(1.108)	309433	129.045	129(R)
	139 Methylcyclohexane	55	4.837	4.841	(1.161)	128602	50.1715	50.2
	42 1,2-Dichloropropane	63	4.873	4.877	(1.170)	110112	53.2221	53.2
	43 Dibromomethane	93	5.007	5.007	(1.202)	76109	49.0694	49.1
	44 Methyl methacrylate	69	5.064	5.069	(1.216)	82412	47.3532	47.4
	143 2,2,4-Trimethylpentane	57	3.922	3.931	(0.942)	245510	46.5017	46.5
	144 1,4-Dioxane	88	5.064	5.069	(1.216)	27462	21060.3	21100
	45 Bromodichloromethane	83	5.209	5.208	(1.251)	159894	53.5271	53.5
	47 cis-1,3-Dichloropropene	75	5.721	5.720	(0.774)	185918	54.6129	54.6
	48 4-Methyl-2-Pentanone	43	5.912	5.916	(0.799)	495078	231.110	231
$	49 Toluene-d8	98	6.005	6.004	(0.812)	321626	50.2518	50.2
	50 Toluene	91	6.072	6.076	(0.821)	462354	49.7154	49.7
	51 trans-1,3-Dichloropropene	75	6.336	6.335	(0.857)	160308	48.6617	48.7
	52 Ethyl Methacrylate	69	6.470	6.469	(0.875)	158922	51.3961	51.4
	53 1,1,2-Trichloroethane	83	6.511	6.516	(0.880)	81388	52.9200	52.9
	54 Tetrachloroethene	166	6.646	6.645	(0.899)	141088	44.0418	44.0
	55 1,3-Dichloropropane	76	6.672	6.676	(0.902)	172436	52.1233	52.1
	56 2-Hexanone	43	6.791	6.790	(0.918)	339504	254.075	254
	57 Dibromochloromethane	129	6.884	6.888	(0.931)	134230	52.9151	52.9
	58 1,2-Dibromoethane	107	6.971	6.976	(0.943)	124489	49.6136	49.6
*	59 Chlorobenzene-d5	117	7.395	7.394	(1.000)	304051	50.0000	
	60 Chlorobenzene	112	7.416	7.420	(1.003)	308919	48.0735	48.1
	61 1,1,1,2-Tetrachloroethane	131	7.493	7.498	(1.013)	115340	50.0634	50.1
	62 Ethylbenzene	106	7.524	7.524	(1.017)	167374	49.5285	49.5
	63 m&p-Xylene	106	7.623	7.622	(1.031)	424269	98.7675	98.8
	65 o-Xylene	106	7.933	7.932	(1.073)	210696	50.3131	50.3
	66 Styrene	104	7.943	7.947	(1.074)	333226	50.0626	50.1
	67 Bromoform	173	8.077	8.077	(0.885)	91310	45.8058	45.8
	68 Isopropylbenzene	105	8.217	8.216	(1.111)	502629	48.1579	48.2
	69 trans-1,4-Dichloro-2-butene	53	8.481	8.480	(1.147)	125157	181.595	182
	142 n-amyl acetate	70	8.326	8.325	(1.126)	739	14.5729	14.6(Q)
$	70 4-Bromofluorobenzene	95	8.326	8.325	(1.126)	137432	51.0577	51.0
	71 Bromobenzene	77	8.424	8.428	(1.139)	164716	49.5351	49.5

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
72 1,1,2,2-Tetrachloroethane	83	8.439	8.438	(0.924)	124470	48.1525	48.2
73 1,2,3-Trichloropropane	75	8.475	8.464	(0.928)	267359	88.6256	88.6
74 n-Propylbenzene	91	8.517	8.516	(0.933)	509275	49.4781	49.5
75 2-Chlorotoluene	91	8.568	8.573	(0.938)	308546	45.6956	45.7
77 1,3,5-Trimethylbenzene	105	8.641	8.645	(0.946)	360525	48.0615	48.1
76 4-Chlorotoluene	126	8.574	8.573	(0.939)	108483	47.8916	47.9
78 tert-Butylbenzene	119	8.868	8.867	(0.971)	336877	38.9929	39.0
79 1,2,4-Trimethylbenzene	105	8.899	8.898	(0.975)	355732	47.8827	47.9
80 sec-Butylbenzene	105	9.013	9.017	(0.987)	463615	49.1874	49.2
81 1,3-Dichlorobenzene	146	9.085	9.090	(0.995)	205102	47.8442	47.8
83 p-Isopropyltoluene	119	9.111	9.115	(0.998)	368199	48.6725	48.7
* 82 1,4-Dichlorobenzene-d4	152	9.132	9.131	(1.000)	139434	50.0000	
84 1,4-Dichlorobenzene	146	9.147	9.146	(1.002)	206919	46.5163	46.5
86 n-Butylbenzene	91	9.380	9.379	(1.027)	283560	49.8815	49.9
85 1,2-Dichlorobenzene	146	9.390	9.389	(1.028)	195299	49.1571	49.2
87 1,2-Dibromo-3-chloropropane	155	9.881	9.886	(1.082)	21375	42.1418	42.1
88 1,2,4-Trichlorobenzene	180	10.393	10.397	(1.138)	106344	42.5684	42.6
89 Hexachlorobutadiene	225	10.491	10.495	(1.149)	41924	44.7508	44.8
90 Naphthalene	128	10.543	10.547	(1.155)	237278	43.2776	43.3
91 1,2,3-Trichlorobenzene	180	10.688	10.692	(1.170)	88030	43.1498	43.1
92 2,methyl-naphthalene	142	11.225	11.229	(1.229)	15836	55.0164	55.0

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A07.D
Lab Smp Id: 393784
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a020110.b\-8260-c1.m
Misc Info:

Calibration Date: 01-FEB-2010
Calibration Time: 22:56
Client Smp ID: ms5034229003
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	386353	193177	772706	357292	-7.52
59 Chlorobenzene-d5	284875	142438	569750	304051	6.73
82 1,4-Dichlorobenze	122952	61476	245904	139434	13.41

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.17	3.67	4.67	4.17	-0.10
59 Chlorobenzene-d5	7.39	6.89	7.89	7.40	0.01
82 1,4-Dichlorobenze	9.13	8.63	9.63	9.13	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 393784
Level: LOW
Data Type: MS DATA
SpikeList File: 8260MS.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a020110.b\-8260-c1.m
Misc Info:

Client SDG: a020110.b
Fraction: VOA
Client Smp ID: ms5034229003
Operator: jlf
SampleType: MS
Quant Type: ISTD

SPIKE	COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
1	Dichlorodifluorome	50.0	52.0	104.09	30-163
2	Chloromethane	50.0	45.6	91.30	36-136
3	Vinyl Chloride	50.0	54.9	109.87	51-144
4	Bromomethane	50.0	82.5	165.09	30-170
5	Chloroethane	50.0	57.3	114.69	54-157
6	Trichlorofluoromet	50.0	55.4	110.76	53-162
28	1,2-dichlorotriflu	50.0	55.9	111.78	50-150
7	Diethyl ether	50.0	52.2	104.33	70-130
8	Acrolein	1000	2050	205.35*	30-170
9	1,1-Dichloroethene	50.0	58.4	116.87	55-140
10	1,1,2trichlorotrif	50.0	58.0	116.11	50-150
11	Acetone	250	236	94.25	30-170
12	Iodomethane	100	58.3	58.29	28-168
13	Carbon Disulfide	100	142	141.73	46-162
138	Methyl Acetate	50.0	55.2	110.36	40-182
14	allyl chloride	100	113	113.18	39-155
15	Methylene Chloride	50.0	47.0	94.08	46-154
16	Acrylonitrile	1000	1030	103.21	66-137
27	Propionitrile	50.0	42.9	85.87	50-150
17	tert-Butyl Alcohol	100	0.000	*	50-150
18	1,2-Dichloroethene	50.0	55.4	110.90	60-137
19	Methyl-tert-butyl	100	103	103.33	52-156
20	n-Hexane	50.0	59.3	118.61	32-176
21	1,1-Dichloroethane	50.0	46.4	92.90	68-139
23	Vinyl Acetate	200	176	87.89	24-132
25	1,2-Dichloroethene	50.0	57.7	115.41	65-132
24	2,2-Dichloropropan	50.0	52.4	104.79	35-157
26	2-Butanone	250	223	89.28	62-132
29	Bromochloromethane	50.0	64.6	129.11	65-157
30	Tetrahydrofuran	50.0	38.5	77.06	50-150
31	Chloroform	50.0	51.1	102.12	67-134
33	1,1,1-Trichloroeth	50.0	51.6	103.28	64-143
34	cyclohexane	50.0	52.7	105.42	39-167
37	Isobutyl alcohol	50.0	44.6	89.28	50-150
36	1,1-Dichloropropen	50.0	53.3	106.54	66-140
35	Carbon Tetrachlori	50.0	50.4	100.72	54-145
38	Benzene	50.0	50.9	101.80	63-141
39	1,2-Dichloroethane	50.0	54.4	108.91	63-148
41	Trichloroethene	50.0	129	258.09*	61-137
139	Methylcyclohexane	50.0	50.2	100.34	44-158

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
42 1,2-Dichloropropan	50.0	53.2	106.44	70-136
43 Dibromomethane	50.0	49.1	98.14	67-144
44 Methyl methacrylat	50.0	47.4	94.71	50-150
45 Bromodichlorometha	50.0	53.5	107.05	63-135
46 2-Chloroethyl vin	100	0.000	*	50-150
47 cis-1,3-Dichloropr	50.0	54.6	109.23	46-121
48 4-Methyl-2-Pentano	250	231	92.44	57-135
50 Toluene	50.0	49.7	99.43	59-142
51 trans-1,3-Dichloro	50.0	48.7	97.32	43-117
52 Ethyl Methacrylate	50.0	51.4	102.79	52-140
53 1,1,2-Trichloroeth	50.0	52.9	105.84	71-143
54 Tetrachloroethene	50.0	44.0	88.08	25-146
55 1,3-Dichloropropan	50.0	52.1	104.25	65-133
56 2-Hexanone	250	254	101.63	61-141
57 Dibromochlorometha	50.0	52.9	105.83	64-124
58 1,2-Dibromoethane	50.0	49.6	99.23	67-134
60 Chlorobenzene	50.0	48.1	96.15	56-133
61 1,1,1,2-Tetrachlor	50.0	50.1	100.13	55-131
62 Ethylbenzene	50.0	49.5	99.06	44-151
63 m&p-Xylene	100	98.8	98.77	41-153
65 o-Xylene	50.0	50.3	100.63	52-139
66 Styrene	50.0	50.1	100.13	38-141
67 Bromoform	50.0	45.8	91.61	58-124
68 Isopropylbenzene	50.0	48.2	96.32	40-148
69 trans-1,4-Dichloro	200	182	90.80	44-139
72 1,1,2,2-Tetrachlor	50.0	48.2	96.30	64-142
71 Bromobenzene	50.0	49.5	99.07	57-128
73 1,2,3-Trichloropro	100	88.6	88.63	33-140
74 n-Propylbenzene	50.0	49.5	98.96	40-148
75 2-Chlorotoluene	50.0	45.7	91.39	44-143
76 4-Chlorotoluene	50.0	47.9	95.78	43-140
77 1,3,5-Trimethylben	50.0	48.1	96.12	39-145
78 tert-Butylbenzene	50.0	39.0	77.99	32-133
79 1,2,4-Trimethylben	50.0	47.9	95.77	39-146
80 sec-Butylbenzene	50.0	49.2	98.37	38-150
81 1,3-Dichlorobenzen	50.0	47.8	95.69	40-143
83 p-Isopropyltoluene	50.0	48.7	97.35	34-146
84 1,4-Dichlorobenzen	50.0	46.5	93.03	38-142
86 n-Butylbenzene	50.0	49.9	99.76	27-153
85 1,2-Dichlorobenzen	50.0	49.2	98.31	48-137
88 1,2,4-Trichloroben	50.0	42.6	85.14	39-146
91 1,2,3-Trichloroben	50.0	43.1	86.30	33-140
87 1,2-Dibromo-3-chlo	50.0	42.1	84.28	39-140
89 Hexachlorobutadien	50.0	44.8	89.50	30-145
90 Naphthalene	50.0	43.3	86.56	44-138
92 2,methyl-naphthale	50.0	55.0	110.03	50-150

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	50.5	101.00	82-122

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 49 Toluene-d8	50.0	50.2	100.50	80-120
$ 70 4-Bromofluorobenze	50.0	51.0	102.12	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 393784
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a020110.b
Client Smp ID: ms5034229003
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	52.0	
74-87-3	Chloromethane	45.6	
75-01-4	Vinyl Chloride	54.9	
74-83-9	Bromomethane	82.5	
75-00-3	Chloroethane	57.3	
75-69-4	Trichlorofluoromethane	55.4	
354-23-4	1,2-dichlorotrifluoroethane	55.9	
60-29-7	Diethyl ether	52.2	
107-02-8	Acrolein	2050	
76-13-1	1,1,2trichlorotrifluoroethan	58.0	
75-35-4	1,1-Dichloroethene	58.4	
67-64-1	Acetone	236	
	Iodomethane	58.3	
75-15-0	Carbon Disulfide	142	
107-05-1	allyl chloride	113	
75-05-8	Acetonitrile	1740	
79-20-9	Methyl Acetate	55.2	
75-09-2	Methylene Chloride	47.0	
107-13-1	Acrylonitrile	1030	
1634-04-4	Methyl-tert-butyl ether	103	
156-60-5	1,2-Dichloroethene (trans)	55.4	
	n-Hexane	59.3	
75-34-3	1,1-Dichloroethane	46.4	
108-05-4	Vinyl Acetate	176	
141-78-6	Ethyl acetate	529	
126-99-8	Chloroprene	50.8	
594-20-7	2,2-Dichloropropane	52.4	
156-59-2	1,2-Dichloroethene (cis)	57.7	
78-93-3	2-Butanone	223	
107-12-0	Propionitrile	42.9	
74-97-5	Bromochloromethane	64.6	
126-98-7	Methacrylonitrile	326	
67-66-3	Chloroform	51.1	
71-55-6	1,1,1-Trichloroethane	51.6	
	Tetrahydrofuran	38.5	
110-82-7	cyclohexane	52.7	
78-83-1	Isobutyl alcohol	44.6	
56-23-5	Carbon Tetrachloride	50.4	
563-58-6	1,1-Dichloropropene	53.3	
71-43-2	Benzene	50.9	
108-21-4	isopropyl acetate	11.0	
107-06-2	1,2-Dichloroethane	54.4	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 393784
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a020110.b
Client Smp ID: ms5034229003
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
79-01-6	Trichloroethene	129	
108-87-2	Methylcyclohexane	50.2	
78-87-5	1,2-Dichloropropane	53.2	
74-95-3	Dibromomethane	49.1	
80-62-6	Methyl methacrylate	47.4	
540-84-1	2,2,4-Trimethylpentane	46.5	
	1,4-Dioxane	21100	
75-27-4	Bromodichloromethane	53.5	
10061-01-5	cis-1,3-Dichloropropene	54.6	
108-10-1	4-Methyl-2-Pentanone	231	
108-88-3	Toluene	49.7	
10061-02-6	trans-1,3-Dichloropropene	48.7	
	Ethyl Methacrylate	51.4	
79-00-5	1,1,2-Trichloroethane	52.9	
127-18-4	Tetrachloroethene	44.0	
142-28-9	1,3-Dichloropropane	52.1	
591-78-6	2-Hexanone	254	
124-48-1	Dibromochloromethane	52.9	
106-93-4	1,2-Dibromoethane	49.6	
108-90-7	Chlorobenzene	48.1	
630-20-6	1,1,1,2-Tetrachloroethane	50.1	
100-41-4	Ethylbenzene	49.5	
7816-60-0	m&p-Xylene	98.8	
95-47-6	o-Xylene	50.3	
100-42-5	Styrene	50.1	
75-25-2	Bromoform	45.8	
98-82-8	Isopropylbenzene	48.2	
	trans-1,4-Dichloro-2-butene	182	
628-63-7	n-amyl acetate	14.6	
108-86-1	Bromobenzene	49.5	
79-34-5	1,1,2,2-Tetrachloroethane	48.2	
96-18-4	1,2,3-Trichloropropane	88.6	
103-65-1	n-Propylbenzene	49.5	
95-49-8	2-Chlorotoluene	45.7	
108-67-8	1,3,5-Trimethylbenzene	48.1	
106-43-4	4-Chlorotoluene	47.9	
98-06-6	tert-Butylbenzene	39.0	
95-63-6	1,2,4-Trimethylbenzene	47.9	
135-98-8	sec-Butylbenzene	49.2	
541-73-1	1,3-Dichlorobenzene	47.8	
99-87-6	p-Isopropyltoluene	48.7	
106-46-7	1,4-Dichlorobenzene	46.5	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

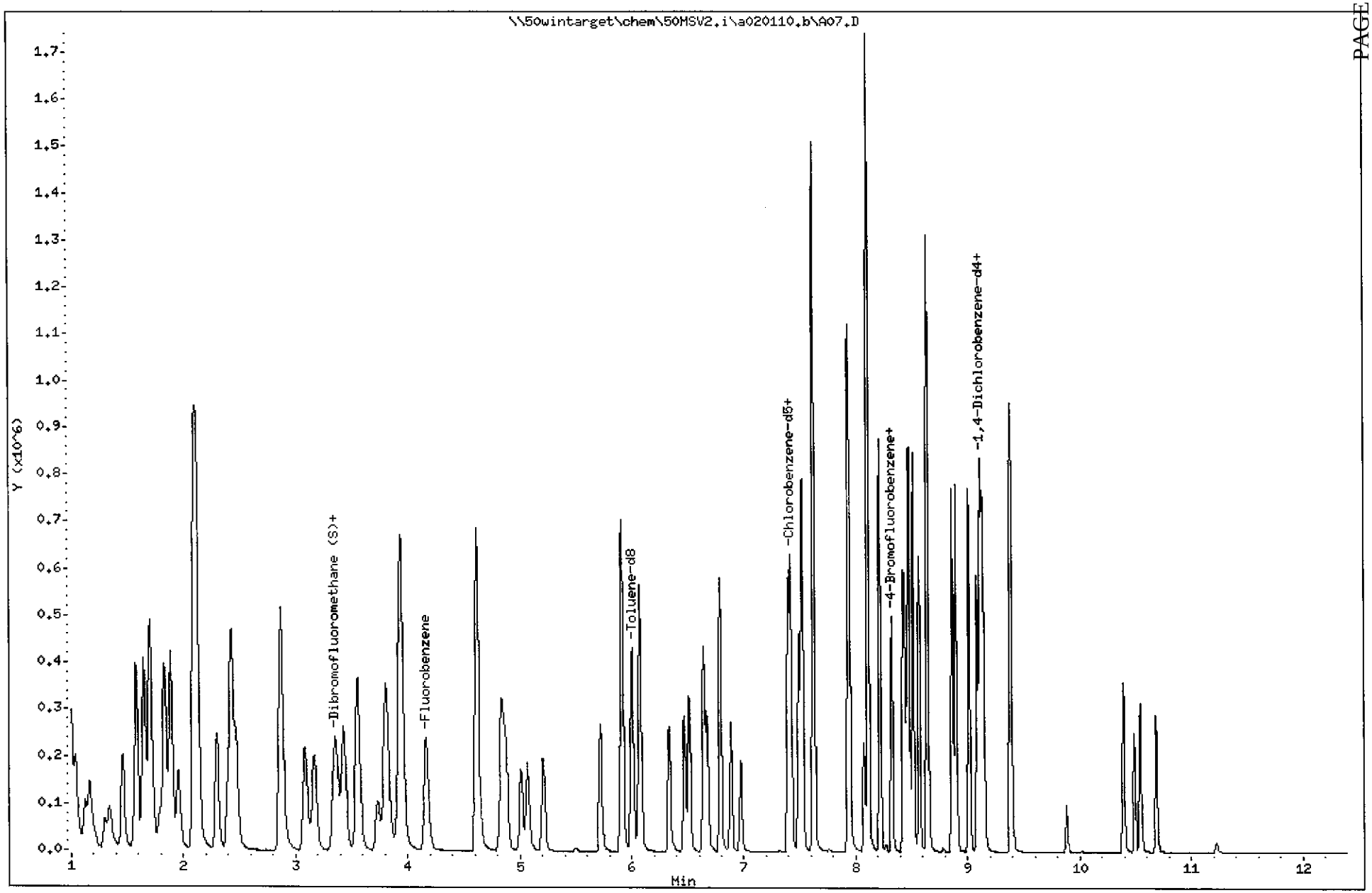
Client Name:
Lab Smp Id: 393784
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a020110.b
Client Smp ID: ms5034229003
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
104-51-8	n-Butylbenzene	49.9	
95-50-1	1,2-Dichlorobenzene	49.2	
96-12-8	1,2-Dibromo-3-chloropropane	42.1	
120-82-1	1,2,4-Trichlorobenzene	42.6	
87-68-3	Hexachlorobutadiene	44.8	
91-20-3	Naphthalene	43.3	
87-61-6	1,2,3-Trichlorobenzene	43.1	
	2,methyl-naphthalene	55.0	
1868-53-7	Dibromofluoromethane (S)	50.5	
2037-26-5	Toluene-d8	50.2	
460-00-4	4-Bromofluorobenzene	51.0	

Data File: \\50wintarget\chem\50MSV2.i\a020110.b\A07.D
Date : 01-FEB-2010 13:53
Client ID: ms5034229003
Sample Info: ms5034229003
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a020110.b\A08.D
Lab Smp Id: 393785 Client Smp ID: msd5034229003
Inj Date : 01-FEB-2010 14:27
Operator : jlf Inst ID: 50MSV2.i
Smp Info : msd5034229003
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a020110.b\-8260-c1.m
Meth Date : 02-Feb-2010 13:22 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 17 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
1 Dichlorodifluoromethane	85	1.045	1.042	(0.250)	189769	52.6225	52.6
2 Chloromethane	50	1.127	1.135	(0.270)	140030	46.9059	46.9
3 Vinyl Chloride	62	1.169	1.166	(0.280)	173460	55.5392	55.5
4 Bromomethane	94	1.303	1.296	(0.312)	66525	83.4882	83.5
5 Chloroethane	64	1.350	1.342	(0.324)	105945	58.4289	58.4
6 Trichlorofluoromethane	101	1.463	1.456	(0.351)	191618	56.3215	56.3
28 1,2-dichlorotrifluoroethane	67	1.582	1.575	(0.379)	167345	55.9070	55.9
7 Diethyl ether	74	1.587	1.585	(0.381)	65920	53.7690	53.8
8 Acrolein	56	1.649	1.647	(0.395)	480521	2092.39	2090(R)
10 1,1,2trichlorotrifluoroethane	101	1.701	1.699	(0.408)	125322	58.9811	59.0
9 1,1-Dichloroethene	96	1.711	1.704	(0.410)	110280	60.6470	60.6
11 Acetone	43	1.727	1.725	(0.414)	125777	245.509	246
12 Iodomethane	142	1.799	1.792	(0.431)	152630	70.9412	70.9
13 Carbon Disulfide	76	1.835	1.833	(0.440)	852787	145.369	145
14 allyl chloride	41	1.892	1.885	(0.454)	297137	115.085	115
145 Acetonitrile	41	1.189	1.203	(0.285)	155	198.077	198(Q)
138 Methyl Acetate	43	1.897	1.895	(0.455)	90804	56.1631	56.2
15 Methylene Chloride	84	1.959	1.957	(0.470)	105813	48.8210	48.8
16 Acrylonitrile	53	2.099	2.097	(0.503)	799440	1074.92	1070
19 Methyl-tert-butyl ether	73	2.125	2.122	(0.509)	569791	108.414	108
18 1,2-Dichloroethene (trans)	96	2.125	2.122	(0.509)	122009	57.2053	57.2
20 n-Hexane	57	2.306	2.298	(0.553)	148335	60.5498	60.5
21 1,1-Dichloroethane	63	2.404	2.402	(0.576)	196737	47.6125	47.6

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)
	23 Vinyl Acetate	43	2.435	2.433	(0.584)	779854	177.766	178
	140 Ethyl acetate	88	2.476	2.474	(0.594)	108508	535.954	536(Q)
	147 Chloroprene	53	2.476	2.469	(0.594)	162511	52.3211	52.3
	24 2,2-Dichloropropane	77	2.874	2.872	(0.689)	161037	53.3180	53.3
	25 1,2-Dichloroethene (cis)	96	2.874	2.867	(0.689)	159100	60.0750	60.1
	26 2-Butanone	43	2.885	2.882	(0.692)	242214	231.058	231
	27 Propionitrile	54	2.931	2.944	(0.703)	14786	43.7066	43.7
	29 Bromochloromethane	49	3.096	3.084	(0.742)	97981	66.5519	66.6
	146 Methacrylonitrile	41	3.081	3.079	(0.739)	82625	338.915	339
	31 Chloroform	83	3.179	3.172	(0.762)	205109	52.6578	52.6
$	32 Dibromofluoromethane (S)	113	3.345	3.342	(0.802)	106008	51.1858	51.2
	33 1,1,1-Trichloroethane	97	3.370	3.368	(0.808)	186894	53.8675	53.9
	30 Tetrahydrofuran	42	3.158	3.151	(0.757)	29071	40.0837	40.1
	34 cyclohexane	56	3.438	3.430	(0.824)	182371	54.3010	54.3
	37 Isobutyl alcohol	43	2.885	2.882	(0.692)	242214	46.2116	46.2
	35 Carbon Tetrachloride	117	3.562	3.554	(0.854)	163247	51.4676	51.5
	36 1,1-Dichloropropene	75	3.562	3.559	(0.854)	161720	54.9615	55.0
	38 Benzene	78	3.810	3.807	(0.913)	446170	52.5967	52.6
	141 isopropyl acetate	61	3.748	3.730	(0.898)	1129	9.56255	9.56(Q)
	39 1,2-Dichloroethane	62	3.841	3.828	(0.921)	142363	56.5510	56.6
*	40 Fluorobenzene	96	4.171	4.169	(1.000)	338194	50.0000	
	41 Trichloroethene	95	4.626	4.619	(1.109)	290083	127.788	128(R)
	139 Methylcyclohexane	55	4.843	4.841	(1.161)	125125	51.6731	51.7
	42 1,2-Dichloropropane	63	4.880	4.877	(1.170)	106702	54.5187	54.5
	43 Dibromomethane	93	5.014	5.007	(1.202)	74044	50.4718	50.5
	44 Methyl methacrylate	69	5.071	5.069	(1.216)	82303	49.9589	50.0
	143 2,2,4-Trimethylpentane	57	3.934	3.931	(0.943)	241927	48.4107	48.4
	144 1,4-Dioxane	88	5.071	5.069	(1.216)	27860	22572.1	22600
	45 Bromodichloromethane	83	5.216	5.208	(1.250)	154433	54.6445	54.6
	47 cis-1,3-Dichloropropene	75	5.727	5.720	(0.774)	180979	56.8630	56.9
	48 4-Methyl-2-Pentanone	43	5.918	5.916	(0.800)	478891	238.757	239
$	49 Toluene-d8	98	6.011	6.004	(0.813)	303797	50.6942	50.7
	50 Toluene	91	6.079	6.076	(0.822)	455111	52.2646	52.3
	51 trans-1,3-Dichloropropene	75	6.337	6.335	(0.857)	157170	51.0314	51.0
	52 Ethyl Methacrylate	69	6.471	6.469	(0.875)	155553	53.7937	53.8
	53 1,1,2-Trichloroethane	83	6.518	6.516	(0.881)	81127	56.5202	56.5
	54 Tetrachloroethene	166	6.647	6.645	(0.899)	140565	47.1054	47.1
	55 1,3-Dichloropropane	76	6.678	6.676	(0.903)	169634	54.8900	54.9
	56 2-Hexanone	43	6.792	6.790	(0.918)	331214	265.290	265
	57 Dibromochloromethane	129	6.890	6.888	(0.932)	134153	56.4813	56.5
	58 1,2-Dibromoethane	107	6.978	6.976	(0.943)	123032	52.4710	52.5
*	59 Chlorobenzene-d5	117	7.397	7.394	(1.000)	284690	50.0000	
	60 Chlorobenzene	112	7.422	7.420	(1.003)	303852	50.5008	50.5
	61 1,1,1,2-Tetrachloroethane	131	7.500	7.498	(1.014)	115846	53.7026	53.7
	62 Ethylbenzene	106	7.526	7.524	(1.017)	165778	52.3924	52.4
	63 m&p-Xylene	106	7.624	7.622	(1.031)	421812	104.874	105
	65 o-Xylene	106	7.934	7.932	(1.073)	207767	52.9878	53.0
	66 Styrene	104	7.950	7.947	(1.075)	329798	52.9172	52.9
	67 Bromoform	173	8.079	8.077	(0.885)	90635	49.7872	49.8
	68 Isopropylbenzene	105	8.218	8.216	(1.111)	496884	50.8451	50.8
	69 trans-1,4-Dichloro-2-butene	53	8.482	8.480	(1.147)	121127	187.716	188
	142 n-amyl acetate	70	8.322	8.325	(1.125)	874	18.4072	18.4(Q)
$	70 4-Bromofluorobenzene	95	8.327	8.325	(1.126)	127813	50.7134	50.7
	71 Bromobenzene	77	8.430	8.428	(1.140)	161688	52.0929	52.1

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
72 1,1,2,2-Tetrachloroethane	83	8.441	8.438	(0.924)	125112	53.0627	53.1
73 1,2,3-Trichloropropane	75	8.482	8.464	(0.929)	266356	96.7973	96.8
74 n-Propylbenzene	91	8.518	8.516	(0.933)	499928	53.2481	53.2
75 2-Chlorotoluene	91	8.575	8.573	(0.939)	309456	50.2446	50.2
77 1,3,5-Trimethylbenzene	105	8.647	8.645	(0.947)	359279	52.5085	52.5
76 4-Chlorotoluene	126	8.575	8.573	(0.939)	109049	52.7413	52.7
78 tert-Butylbenzene	119	8.870	8.867	(0.971)	331308	42.0419	42.0
79 1,2,4-Trimethylbenzene	105	8.901	8.898	(0.975)	352728	52.0513	52.0
80 sec-Butylbenzene	105	9.020	9.017	(0.988)	457754	53.2432	53.2
81 1,3-Dichlorobenzene	146	9.087	9.090	(0.995)	204814	52.3788	52.4
83 p-Isopropyltoluene	119	9.113	9.115	(0.998)	366335	53.0904	53.1
* 82 1,4-Dichlorobenzene-d4	152	9.133	9.131	(1.000)	127184	50.0000	
84 1,4-Dichlorobenzene	146	9.149	9.146	(1.002)	205079	50.5431	50.5
86 n-Butylbenzene	91	9.381	9.379	(1.027)	283388	54.7454	54.7
85 1,2-Dichlorobenzene	146	9.392	9.389	(1.028)	194047	53.5462	53.5
87 1,2-Dibromo-3-chloropropane	155	9.888	9.886	(1.083)	21795	46.5660	46.6
88 1,2,4-Trichlorobenzene	180	10.394	10.397	(1.138)	107717	46.9384	46.9
89 Hexachlorobutadiene	225	10.493	10.495	(1.149)	42035	49.0946	49.1
90 Naphthalene	128	10.544	10.547	(1.154)	243945	48.1434	48.1
91 1,2,3-Trichlorobenzene	180	10.689	10.692	(1.170)	91110	48.3421	48.3
92 2,methyl-naphthalene	142	11.226	11.229	(1.229)	26815	60.6111	60.6

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A08.D
Lab Smp Id: 393785
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a020110.b\-8260-c1.m
Misc Info:

Calibration Date: 01-FEB-2010
Calibration Time: 22:56
Client Smp ID: msd5034229003
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	386353	193177	772706	338194	-12.47
59 Chlorobenzene-d5	284875	142438	569750	284690	-0.06
82 1,4-Dichlorobenze	122952	61476	245904	127184	3.44

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.17	3.67	4.67	4.17	0.05
59 Chlorobenzene-d5	7.39	6.89	7.89	7.40	0.03
82 1,4-Dichlorobenze	9.13	8.63	9.63	9.13	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 393785
Level: LOW
Data Type: MS DATA
SpikeList File: 8260MS.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a020110.b\-8260-c1.m
Misc Info:

Client SDG: a020110.b
Fraction: VOA
Client Smp ID: msd5034229003
Operator: jlf
SampleType: MSD
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
1 Dichlorodifluorome	50.0	52.6	105.24	30-163
2 Chloromethane	50.0	46.9	93.81	36-136
3 Vinyl Chloride	50.0	55.5	111.08	51-144
4 Bromomethane	50.0	83.5	166.98	30-170
5 Chloroethane	50.0	58.4	116.86	54-157
6 Trichlorofluoromet	50.0	56.3	112.64	53-162
28 1,2-dichlorotriflu	50.0	55.9	111.81	50-150
7 Diethyl ether	50.0	53.8	107.54	70-130
8 Acrolein	1000	2090	209.24*	30-170
9 1,1-Dichloroethene	50.0	60.6	121.29	55-140
10 1,1,2trichlorotrif	50.0	59.0	117.96	50-150
11 Acetone	250	246	98.20	30-170
12 Iodomethane	100	70.9	70.94	28-168
13 Carbon Disulfide	100	145	145.37	46-162
138 Methyl Acetate	50.0	56.2	112.33	40-182
14 allyl chloride	100	115	115.09	39-155
15 Methylene Chloride	50.0	48.8	97.64	46-154
16 Acrylonitrile	1000	1070	107.49	66-137
27 Propionitrile	50.0	43.7	87.41	50-150
17 tert-Butyl Alcohol	100	0.000	*	50-150
18 1,2-Dichloroethene	50.0	57.2	114.41	60-137
19 Methyl-tert-butyl	100	108	108.41	52-156
20 n-Hexane	50.0	60.5	121.10	32-176
21 1,1-Dichloroethane	50.0	47.6	95.22	68-139
23 Vinyl Acetate	200	178	88.88	24-132
25 1,2-Dichloroethene	50.0	60.1	120.15	65-132
24 2,2-Dichloropropan	50.0	53.3	106.64	35-157
26 2-Butanone	250	231	92.42	62-132
29 Bromochloromethane	50.0	66.6	133.10	65-157
30 Tetrahydrofuran	50.0	40.1	80.17	50-150
31 Chloroform	50.0	52.6	105.32	67-134
33 1,1,1-Trichloroeth	50.0	53.9	107.73	64-143
34 cyclohexane	50.0	54.3	108.60	39-167
37 Isobutyl alcohol	50.0	46.2	92.42	50-150
36 1,1-Dichloropropen	50.0	55.0	109.92	66-140
35 Carbon Tetrachlori	50.0	51.5	102.94	54-145
38 Benzene	50.0	52.6	105.19	63-141
39 1,2-Dichloroethane	50.0	56.6	113.10	63-148
41 Trichloroethene	50.0	128	255.58*	61-137
139 Methylcyclohexane	50.0	51.7	103.35	44-158

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
42 1,2-Dichloropropan	50.0	54.5	109.04	70-136
43 Dibromomethane	50.0	50.5	100.94	67-144
44 Methyl methacrylat	50.0	50.0	99.92	50-150
45 Bromodichlorometha	50.0	54.6	109.29	63-135
46 2-Chloroethyl vin	100	0.000	*	50-150
47 cis-1,3-Dichloropr	50.0	56.9	113.73	46-121
48 4-Methyl-2-Pentano	250	239	95.50	57-135
50 Toluene	50.0	52.3	104.53	59-142
51 trans-1,3-Dichloro	50.0	51.0	102.06	43-117
52 Ethyl Methacrylate	50.0	53.8	107.59	52-140
53 1,1,2-Trichloroeth	50.0	56.5	113.04	71-143
54 Tetrachloroethene	50.0	47.1	94.21	25-146
55 1,3-Dichloropropan	50.0	54.9	109.78	65-133
56 2-Hexanone	250	265	106.12	61-141
57 Dibromochlorometha	50.0	56.5	112.96	64-124
58 1,2-Dibromoethane	50.0	52.5	104.94	67-134
60 Chlorobenzene	50.0	50.5	101.00	56-133
61 1,1,1,2-Tetrachlor	50.0	53.7	107.41	55-131
62 Ethylbenzene	50.0	52.4	104.78	44-151
63 m&p-Xylene	100	105	104.87	41-153
65 o-Xylene	50.0	53.0	105.98	52-139
66 Styrene	50.0	52.9	105.83	38-141
67 Bromoform	50.0	49.8	99.57	58-124
68 Isopropylbenzene	50.0	50.8	101.69	40-148
69 trans-1,4-Dichloro	200	188	93.86	44-139
72 1,1,2,2-Tetrachlor	50.0	53.1	106.13	64-142
71 Bromobenzene	50.0	52.1	104.19	57-128
73 1,2,3-Trichloropro	100	96.8	96.80	33-140
74 n-Propylbenzene	50.0	53.2	106.50	40-148
75 2-Chlorotoluene	50.0	50.2	100.49	44-143
76 4-Chlorotoluene	50.0	52.7	105.48	43-140
77 1,3,5-Trimethylben	50.0	52.5	105.02	39-145
78 tert-Butylbenzene	50.0	42.0	84.08	32-133
79 1,2,4-Trimethylben	50.0	52.0	104.10	39-146
80 sec-Butylbenzene	50.0	53.2	106.49	38-150
81 1,3-Dichlorobenzen	50.0	52.4	104.76	40-143
83 p-Isopropyltoluene	50.0	53.1	106.18	34-146
84 1,4-Dichlorobenzen	50.0	50.5	101.09	38-142
86 n-Butylbenzene	50.0	54.7	109.49	27-153
85 1,2-Dichlorobenzen	50.0	53.5	107.09	48-137
88 1,2,4-Trichloroben	50.0	46.9	93.88	39-146
91 1,2,3-Trichloroben	50.0	48.3	96.68	33-140
87 1,2-Dibromo-3-chlo	50.0	46.6	93.13	39-140
89 Hexachlorobutadien	50.0	49.1	98.19	30-145
90 Naphthalene	50.0	48.1	96.29	44-138
92 2,methyl-naphthale	50.0	60.6	121.22	50-150

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	51.2	102.37	82-122

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 49 Toluene-d8	50.0	50.7	101.39	80-120
$ 70 4-Bromofluorobenze	50.0	50.7	101.43	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 393785
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a020110.b
Client Smp ID: msd5034229003
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	52.6	
74-87-3	Chloromethane	46.9	
75-01-4	Vinyl Chloride	55.5	
74-83-9	Bromomethane	83.5	
75-00-3	Chloroethane	58.4	
75-69-4	Trichlorofluoromethane	56.3	
354-23-4	1,2-dichlorotrifluoroethane	55.9	
60-29-7	Diethyl ether	53.8	
107-02-8	Acrolein	2090	
76-13-1	1,1,2trichlorotrifluoroethan	59.0	
75-35-4	1,1-Dichloroethene	60.6	
67-64-1	Acetone	246	
	Iodomethane	70.9	
75-15-0	Carbon Disulfide	145	
107-05-1	allyl chloride	115	
75-05-8	Acetonitrile	198	
79-20-9	Methyl Acetate	56.2	
75-09-2	Methylene Chloride	48.8	
107-13-1	Acrylonitrile	1070	
1634-04-4	Methyl-tert-butyl ether	108	
156-60-5	1,2-Dichloroethene (trans)	57.2	
	n-Hexane	60.5	
75-34-3	1,1-Dichloroethane	47.6	
108-05-4	Vinyl Acetate	178	
141-78-6	Ethyl acetate	536	
126-99-8	Chloroprene	52.3	
594-20-7	2,2-Dichloropropane	53.3	
156-59-2	1,2-Dichloroethene (cis)	60.1	
78-93-3	2-Butanone	231	
107-12-0	Propionitrile	43.7	
74-97-5	Bromochloromethane	66.6	
126-98-7	Methacrylonitrile	339	
67-66-3	Chloroform	52.6	
71-55-6	1,1,1-Trichloroethane	53.9	
	Tetrahydrofuran	40.1	
110-82-7	cyclohexane	54.3	
78-83-1	Isobutyl alcohol	46.2	
56-23-5	Carbon Tetrachloride	51.5	
563-58-6	1,1-Dichloropropene	55.0	
71-43-2	Benzene	52.6	
108-21-4	isopropyl acetate	9.56	
107-06-2	1,2-Dichloroethane	56.6	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 393785
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a020110.b
Client Smp ID: msd5034229003
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
79-01-6	Trichloroethene	128	
108-87-2	Methylcyclohexane	51.7	
78-87-5	1,2-Dichloropropane	54.5	
74-95-3	Dibromomethane	50.5	
80-62-6	Methyl methacrylate	50.0	
540-84-1	2,2,4-Trimethylpentane	48.4	
	1,4-Dioxane	22600	
75-27-4	Bromodichloromethane	54.6	
10061-01-5	cis-1,3-Dichloropropene	56.9	
108-10-1	4-Methyl-2-Pentanone	239	
108-88-3	Toluene	52.3	
10061-02-6	trans-1,3-Dichloropropene	51.0	
	Ethyl Methacrylate	53.8	
79-00-5	1,1,2-Trichloroethane	56.5	
127-18-4	Tetrachloroethene	47.1	
142-28-9	1,3-Dichloropropane	54.9	
591-78-6	2-Hexanone	265	
124-48-1	Dibromochloromethane	56.5	
106-93-4	1,2-Dibromoethane	52.5	
108-90-7	Chlorobenzene	50.5	
630-20-6	1,1,1,2-Tetrachloroethane	53.7	
100-41-4	Ethylbenzene	52.4	
7816-60-0	m&p-Xylene	105	
95-47-6	o-Xylene	53.0	
100-42-5	Styrene	52.9	
75-25-2	Bromoform	49.8	
98-82-8	Isopropylbenzene	50.8	
	trans-1,4-Dichloro-2-butene	188	
628-63-7	n-amyl acetate	18.4	
108-86-1	Bromobenzene	52.1	
79-34-5	1,1,2,2-Tetrachloroethane	53.1	
96-18-4	1,2,3-Trichloropropane	96.8	
103-65-1	n-Propylbenzene	53.2	
95-49-8	2-Chlorotoluene	50.2	
108-67-8	1,3,5-Trimethylbenzene	52.5	
106-43-4	4-Chlorotoluene	52.7	
98-06-6	tert-Butylbenzene	42.0	
95-63-6	1,2,4-Trimethylbenzene	52.0	
135-98-8	sec-Butylbenzene	53.2	
541-73-1	1,3-Dichlorobenzene	52.4	
99-87-6	p-Isopropyltoluene	53.1	
106-46-7	1,4-Dichlorobenzene	50.5	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

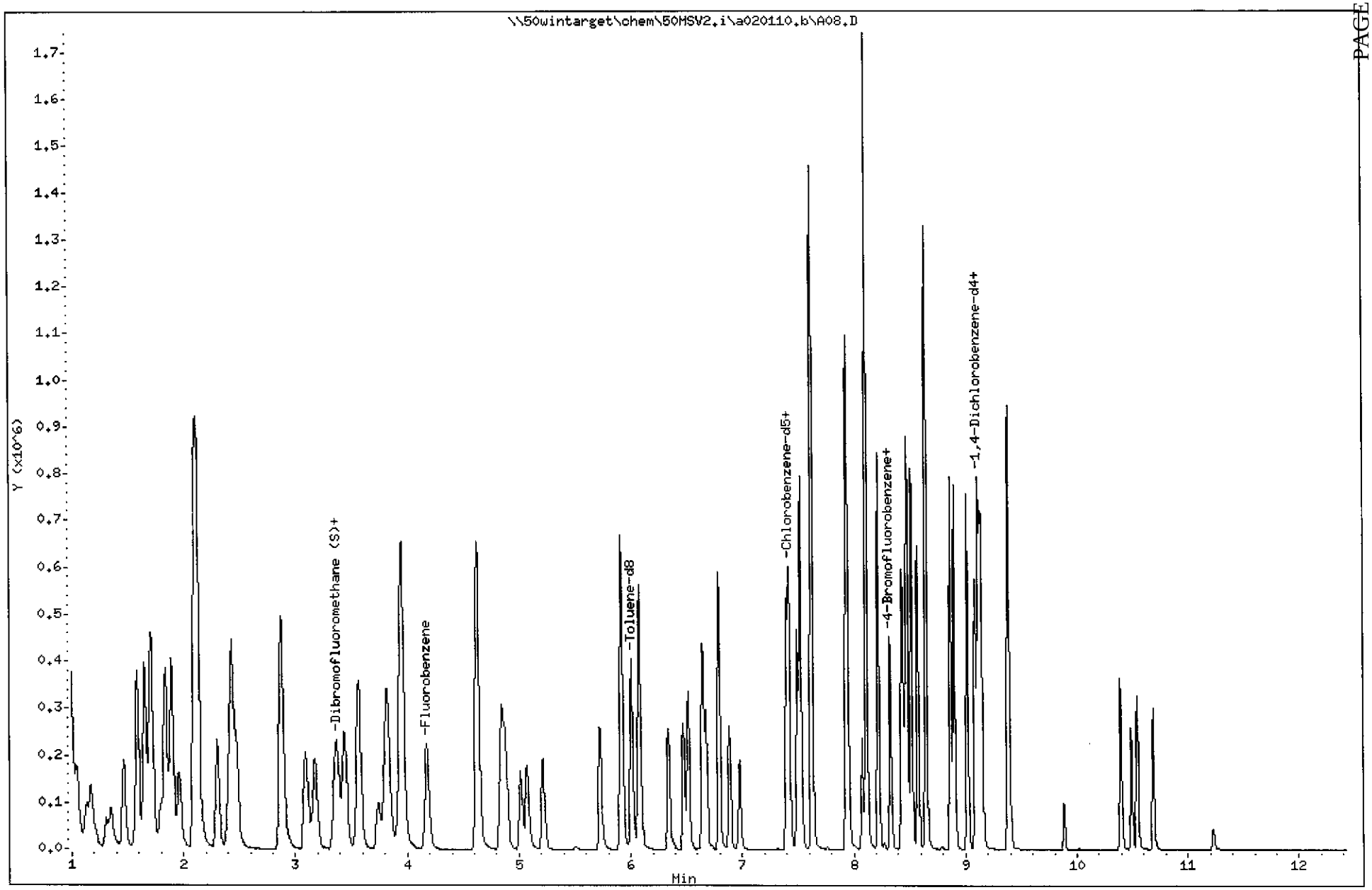
Client Name:
Lab Smp Id: 393785
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a020110.b
Client Smp ID: msd5034229003
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
104-51-8	n-Butylbenzene	54.7	
95-50-1	1,2-Dichlorobenzene	53.5	
96-12-8	1,2-Dibromo-3-chloropropane	46.6	
120-82-1	1,2,4-Trichlorobenzene	46.9	
87-68-3	Hexachlorobutadiene	49.1	
91-20-3	Naphthalene	48.1	
87-61-6	1,2,3-Trichlorobenzene	48.3	
	2,methyl-naphthalene	60.6	
1868-53-7	Dibromofluoromethane (S)	51.2	
2037-26-5	Toluene-d8	50.7	
460-00-4	4-Bromofluorobenzene	50.7	

Data File: \\50wintarget\chem\50MSV2.i\a020110.b\A08.D
Date : 01-FEB-2010 14:27
Client ID: msd5034229003
Sample Info: msd5034229003
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a020910.b\A02LCS.D
Lab Smp Id: 395905 Client Smp ID: lcs
Inj Date : 09-FEB-2010 11:54
Operator : jlf Inst ID: 50MSV2.i
Smp Info : lcs 34A-054
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Meth Date : 10-Feb-2010 11:41 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
1 Dichlorodifluoromethane	85	1.046	1.052	(0.250)	160951	43.7772	43.8
2 Chloromethane	50	1.134	1.145	(0.271)	116186	38.7512	38.8
3 Vinyl Chloride	62	1.170	1.176	(0.279)	141827	44.6274	44.6
4 Bromomethane	94	1.299	1.305	(0.310)	47414	57.5348	57.5
5 Chloroethane	64	1.351	1.352	(0.323)	85226	46.7964	46.8
6 Trichlorofluoromethane	101	1.465	1.466	(0.350)	164356	47.9795	48.0
28 1,2-dichlorotrifluoroethane	67	1.583	1.590	(0.378)	143462	46.8213	46.8
7 Diethyl ether	74	1.589	1.595	(0.379)	57817	46.3069	46.3
8 Acrolein	56	1.651	1.657	(0.394)	511518	2217.77	2220(R)
10 1,1,2trichlorotrifluoroethane	101	1.702	1.709	(0.407)	112435	52.0171	52.0
9 1,1-Dichloroethene	96	1.713	1.714	(0.409)	91836	49.3545	49.4
11 Acetone	43	1.728	1.734	(0.413)	152482	300.246	300
12 Iodomethane	142	1.800	1.802	(0.430)	135176	61.8070	61.8
13 Carbon Disulfide	76	1.837	1.843	(0.439)	692130	117.475	117
14 allyl chloride	41	1.894	1.900	(0.452)	248465	93.8646	93.9(QM)
138 Methyl Acetate	43	1.899	1.905	(0.453)	94977	58.5994	58.6
15 Methylene Chloride	84	1.966	1.972	(0.469)	91596	41.6079	41.6
16 Acrylonitrile	53	2.105	2.112	(0.503)	740409	984.326	984
19 Methyl-tert-butyl ether	73	2.131	2.138	(0.509)	511634	96.0143	96.0
18 1,2-Dichloroethene (trans)	96	2.126	2.138	(0.508)	101005	46.8406	46.8
20 n-Hexane	57	2.307	2.313	(0.551)	131122	53.2930	53.3
21 1,1-Dichloroethane	63	2.410	2.417	(0.576)	166960	40.2321	40.2
23 Vinyl Acetate	43	2.441	2.448	(0.583)	799242	181.401	181

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
	140 Ethyl acetate	88	2.483	2.489	(0.593)	95003	464.822	465(Q)
	147 Chloroprene	53	2.483	2.489	(0.593)	137993	44.2361	44.2
	24 2,2-Dichloropropane	77	2.881	2.887	(0.688)	140116	46.1915	46.2
	25 1,2-Dichloroethene (cis)	96	2.881	2.887	(0.688)	122448	45.5337	45.5
	26 2-Butanone	43	2.896	2.903	(0.692)	257276	244.369	244
	27 Propionitrile	54	2.948	2.959	(0.704)	14207	41.9822	42.0
	29 Bromochloromethane	49	3.103	3.114	(0.741)	84956	56.8583	56.8
	146 Methacrylonitrile	41	3.093	3.094	(0.738)	77805	317.479	317
	31 Chloroform	83	3.186	3.197	(0.761)	178615	45.6585	45.6
$	32 Dibromofluoromethane (S)	113	3.361	3.363	(0.803)	103874	49.9394	49.9
	33 1,1,1-Trichloroethane	97	3.382	3.394	(0.808)	161601	46.0339	46.0
	30 Tetrahydrofuran	42	3.165	3.171	(0.756)	31442	43.7940	43.8
	34 cyclohexane	56	3.449	3.456	(0.824)	158526	46.6141	46.6
	37 Isobutyl alcohol	43	2.896	2.903	(0.692)	257276	48.8738	48.9
	35 Carbon Tetrachloride	117	3.578	3.580	(0.854)	142971	44.8810	44.9
	36 1,1-Dichloropropene	75	3.573	3.585	(0.853)	138125	46.7404	46.7
	38 Benzene	78	3.827	3.833	(0.914)	385027	45.1933	45.2
	141 isopropyl acetate	61	3.759	3.755	(0.898)	936	7.89370	7.89(Q)
	39 1,2-Dichloroethane	62	3.847	3.859	(0.919)	126264	49.5939	49.6
*	40 Fluorobenzene	96	4.188	4.195	(1.000)	339657	50.0000	
	41 Trichloroethene	95	4.638	4.644	(1.107)	110888	47.4016	47.4
	139 Methylcyclohexane	55	4.860	4.861	(1.160)	112214	45.7525	45.8
	42 1,2-Dichloropropane	63	4.891	4.898	(1.168)	92488	46.8655	46.9
	43 Dibromomethane	93	5.031	5.032	(1.201)	68185	46.1644	46.2
	44 Methyl methacrylate	69	5.088	5.094	(1.215)	76359	46.1542	46.2
	143 2,2,4-Trimethylpentane	57	3.945	3.962	(0.942)	217877	43.4104	43.4
	144 1,4-Dioxane	88	5.082	5.104	(1.213)	28111	22677.4	22700(Q)
	45 Bromodichloromethane	83	5.227	5.234	(1.248)	137167	48.1783	48.2
	46 2-Chloroethyl vinyl ether	63	5.604	5.606	(0.757)	29963	10.3017	10.3
	47 cis-1,3-Dichloropropene	75	5.739	5.745	(0.775)	158053	54.2904	54.3
	48 4-Methyl-2-Pentanone	43	5.930	5.936	(0.800)	465627	254.231	254
$	49 Toluene-d8	98	6.023	6.024	(0.813)	293235	53.5873	53.6
	50 Toluene	91	6.090	6.097	(0.822)	394723	49.6425	49.6
	51 trans-1,3-Dichloropropene	75	6.354	6.355	(0.858)	140817	50.0408	50.0
	52 Ethyl Methacrylate	69	6.488	6.489	(0.876)	142504	53.9745	54.0
	53 1,1,2-Trichloroethane	83	6.530	6.536	(0.881)	72748	55.4540	55.4
	54 Tetrachloroethene	166	6.664	6.665	(0.900)	120745	44.0885	44.1
	55 1,3-Dichloropropane	76	6.690	6.696	(0.903)	152669	54.0647	54.1
	56 2-Hexanone	43	6.804	6.805	(0.918)	329583	290.302	290
	57 Dibromochloromethane	129	6.902	6.903	(0.932)	118610	54.6886	54.7
	58 1,2-Dibromoethane	107	6.990	6.991	(0.943)	111416	52.0225	52.0
*	59 Chlorobenzene-d5	117	7.408	7.415	(1.000)	259957	50.0000	
	60 Chlorobenzene	112	7.434	7.435	(1.003)	268924	48.9481	48.9
	61 1,1,1,2-Tetrachloroethane	131	7.512	7.513	(1.014)	103380	52.4833	52.5
	62 Ethylbenzene	106	7.537	7.539	(1.017)	145109	50.2234	50.2
	63 m&p-Xylene	106	7.636	7.637	(1.031)	367077	99.9482	99.9
	65 o-Xylene	106	7.946	7.947	(1.073)	186080	51.9720	52.0
	66 Styrene	104	7.961	7.962	(1.075)	299443	52.6179	52.6
	67 Bromoform	173	8.091	8.092	(0.885)	81851	49.8240	49.8
	68 Isopropylbenzene	105	8.230	8.231	(1.111)	440568	49.3717	49.4
	69 trans-1,4-Dichloro-2-butene	53	8.494	8.495	(1.146)	120078	203.836	204(Q)
	142 n-amyl acetate	70	8.339	8.340	(1.126)	508	11.7169	11.7(Q)
$	70 4-Bromofluorobenzene	95	8.339	8.340	(1.126)	113625	49.3733	49.4
	71 Bromobenzene	77	8.442	8.443	(1.140)	143079	50.3801	50.4

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
72 1,1,2,2-Tetrachloroethane	83	8.452	8.453	(0.924)	116203	54.6140	54.6
73 1,2,3-Trichloropropane	75	8.494	8.479	(0.929)	254761	102.596	102(Q)
74 n-Propylbenzene	91	8.530	8.531	(0.933)	451090	53.2423	53.2
75 2-Chlorotoluene	91	8.587	8.588	(0.939)	275637	49.5935	49.6
77 1,3,5-Trimethylbenzene	105	8.654	8.655	(0.946)	323138	52.3338	52.3
76 4-Chlorotoluene	126	8.587	8.588	(0.939)	97100	52.0457	52.0
78 tert-Butylbenzene	119	8.881	8.882	(0.971)	331202	46.5737	46.6
79 1,2,4-Trimethylbenzene	105	8.912	8.913	(0.975)	318778	52.1287	52.1
80 sec-Butylbenzene	105	9.026	9.032	(0.987)	410978	52.9721	53.0
81 1,3-Dichlorobenzene	146	9.098	9.100	(0.995)	187829	53.2298	53.2
83 p-Isopropyltoluene	119	9.124	9.125	(0.998)	326604	52.4512	52.4
* 82 1,4-Dichlorobenzene-d4	152	9.145	9.146	(1.000)	114772	50.0000	
84 1,4-Dichlorobenzene	146	9.160	9.162	(1.002)	187973	51.3373	51.3
86 n-Butylbenzene	91	9.393	9.394	(1.027)	256165	54.8398	54.8
85 1,2-Dichlorobenzene	146	9.403	9.404	(1.028)	177598	54.3071	54.3
87 1,2-Dibromo-3-chloropropane	155	9.899	9.901	(1.083)	21642	50.7775	50.8
88 1,2,4-Trichlorobenzene	180	10.406	10.412	(1.138)	103442	49.7570	49.8
89 Hexachlorobutadiene	225	10.504	10.505	(1.149)	39174	50.6693	50.7
90 Naphthalene	128	10.556	10.557	(1.154)	244631	52.9435	52.9
91 1,2,3-Trichlorobenzene	180	10.701	10.702	(1.170)	88207	51.5284	51.5
92 2,methyl-naphthalene	142	11.238	11.244	(1.229)	35500	66.2754	66.3

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A02LCS.D
Lab Smp Id: 395905
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Misc Info:

Calibration Date: 09-FEB-2010
Calibration Time: 23:50
Client Smp ID: lcs
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	335209	167605	670418	339657	1.33
59 Chlorobenzene-d5	251681	125841	503362	259957	3.29
82 1,4-Dichlorobenze	109139	54570	218278	114772	5.16

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.20	3.70	4.70	4.19	-0.15
59 Chlorobenzene-d5	7.42	6.92	7.92	7.41	-0.09
82 1,4-Dichlorobenze	9.15	8.65	9.65	9.15	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 395905
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCS.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Misc Info:

Client SDG: a020910.b
Fraction: VOA
Client Smp ID: lcs
Operator: jlf
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
1 Dichlorodifluorome	50.0	43.8	87.55	30-170
2 Chloromethane	50.0	38.8	77.50	35-147
3 Vinyl Chloride	50.0	44.6	89.25	55-141
4 Bromomethane	50.0	57.5	115.07	30-170
5 Chloroethane	50.0	46.8	93.59	56-153
6 Trichlorofluoromet	50.0	48.0	95.96	62-150
7 Diethyl ether	50.0	46.3	92.61	70-130
8 Acrolein	1000	2220	221.78*	30-170
9 1,1-Dichloroethene	50.0	49.4	98.71	63-128
10 1,1,2trichlorotrif	50.0	52.0	104.03	74-153
11 Acetone	250	300	120.10	30-170
12 Iodomethane	100	61.8	61.81	41-170
13 Carbon Disulfide	100	117	117.47	58-152
14 allyl chloride	100	93.9	93.86	70-130
15 Methylene Chloride	50.0	41.6	83.22	32-164
16 Acrylonitrile	1000	984	98.43	67-136
17 tert-Butyl Alcohol	100	0.000	*	50-150
18 1,2-Dichloroethene	50.0	46.8	93.68	71-126
19 Methyl-tert-butyl	100	96.0	96.01	66-147
20 n-Hexane	50.0	53.3	106.59	69-157
21 1,1-Dichloroethane	50.0	40.2	80.46	67-133
23 Vinyl Acetate	200	181	90.70	41-145
24 2,2-Dichloropropan	50.0	46.2	92.38	53-144
25 1,2-Dichloroethene	50.0	45.5	91.07	74-128
26 2-Butanone	250	244	97.75	47-189
28 1,2-dichlorotriflu	50.0	46.8	93.64	54-162
29 Bromochloromethane	50.0	56.8	113.72	54-162
31 Chloroform	50.0	45.6	91.32	74-131
33 1,1,1-Trichloroeth	50.0	46.0	92.07	69-136
35 Carbon Tetrachlori	50.0	44.9	89.76	62-143
36 1,1-Dichloropropen	50.0	46.7	93.48	75-134
37 Isobutyl alcohol	50.0	48.9	97.75	50-150
38 Benzene	50.0	45.2	90.39	78-127
39 1,2-Dichloroethane	50.0	49.6	99.19	69-139
41 Trichloroethene	50.0	47.4	94.80	74-130
42 1,2-Dichloropropan	50.0	46.9	93.73	76-129
43 Dibromomethane	50.0	46.2	92.33	73-133
44 Methyl methacrylat	50.0	46.2	92.31	70-130
45 Bromodichlorometha	50.0	48.2	96.36	69-133
47 cis-1,3-Dichloropr	50.0	54.3	108.58	54-123

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
48 4-Methyl-2-Pentano	250	254	101.69	61-135
50 Toluene	50.0	49.6	99.28	75-129
51 trans-1,3-Dichloro	50.0	50.0	100.08	54-123
52 Ethyl Methacrylate	50.0	54.0	107.95	59-138
53 1,1,2-Trichloroeth	50.0	55.4	110.91	77-132
54 Tetrachloroethene	50.0	44.1	88.18	60-119
55 1,3-Dichloropropan	50.0	54.1	108.13	74-126
56 2-Hexanone	250	290	116.12	57-167
57 Dibromochlorometha	50.0	54.7	109.38	66-131
58 1,2-Dibromoethane	50.0	52.0	104.04	75-126
60 Chlorobenzene	50.0	48.9	97.90	75-123
61 1,1,1,2-Tetrachlor	50.0	52.5	104.97	69-130
62 Ethylbenzene	50.0	50.2	100.45	81-126
63 m&p-Xylene	100	99.9	99.95	71-131
65 o-Xylene	50.0	52.0	103.94	72-127
66 Styrene	50.0	52.6	105.24	74-128
67 Bromoform	50.0	49.8	99.65	60-127
68 Isopropylbenzene	50.0	49.4	98.74	80-130
69 trans-1,4-Dichloro	200	204	101.92	50-150
71 Bromobenzene	50.0	50.4	100.76	62-139
72 1,1,2,2-Tetrachlor	50.0	54.6	109.23	69-130
73 1,2,3-Trichloropro	100	102	102.60	60-131
74 n-Propylbenzene	50.0	53.2	106.48	71-132
75 2-Chlorotoluene	50.0	49.6	99.19	72-128
76 4-Chlorotoluene	50.0	52.0	104.09	73-124
77 1,3,5-Trimethylben	50.0	52.3	104.67	74-130
78 tert-Butylbenzene	50.0	46.6	93.15	63-117
79 1,2,4-Trimethylben	50.0	52.1	104.26	73-130
80 sec-Butylbenzene	50.0	53.0	105.94	73-130
81 1,3-Dichlorobenzen	50.0	53.2	106.46	76-125
83 p-Isopropyltoluene	50.0	52.4	104.90	66-131
84 1,4-Dichlorobenzen	50.0	51.3	102.67	75-122
85 1,2-Dichlorobenzen	50.0	54.3	108.61	76-124
86 n-Butylbenzene	50.0	54.8	109.68	68-135
87 1,2-Dibromo-3-chlo	50.0	50.8	101.56	61-125
88 1,2,4-Trichloroben	50.0	49.8	99.51	60-130
89 Hexachlorobutadien	50.0	50.7	101.34	70-130
90 Naphthalene	50.0	52.9	105.89	61-135
91 1,2,3-Trichloroben	50.0	51.5	103.06	58-131
138 Methyl Acetate	50.0	58.6	117.20	30-170
34 cyclohexane	50.0	46.6	93.23	63-134
139 Methylcyclohexane	50.0	45.8	91.50	65-135

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	49.9	99.88	82-122
$ 49 Toluene-d8	50.0	53.6	107.17	80-120
$ 70 4-Bromofluorobenze	50.0	49.4	98.75	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 395905
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a020910.b
Client Smp ID: lcs
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	43.8	
74-87-3	Chloromethane	38.8	
75-01-4	Vinyl Chloride	44.6	
74-83-9	Bromomethane	57.5	
75-00-3	Chloroethane	46.8	
75-69-4	Trichlorofluoromethane	48.0	
354-23-4	1,2-dichlorotrifluoroethane	46.8	
60-29-7	Diethyl ether	46.3	
107-02-8	Acrolein	2220	
76-13-1	1,1,2trichlorotrifluoroethan	52.0	
75-35-4	1,1-Dichloroethene	49.4	
67-64-1	Acetone	300	
	Iodomethane	61.8	
75-15-0	Carbon Disulfide	117	
107-05-1	allyl chloride	93.9	
79-20-9	Methyl Acetate	58.6	
75-09-2	Methylene Chloride	41.6	
107-13-1	Acrylonitrile	984	
1634-04-4	Methyl-tert-butyl ether	96.0	
156-60-5	1,2-Dichloroethene (trans)	46.8	
	n-Hexane	53.3	
75-34-3	1,1-Dichloroethane	40.2	
108-05-4	Vinyl Acetate	181	
141-78-6	Ethyl acetate	465	
126-99-8	Chloroprene	44.2	
594-20-7	2,2-Dichloropropane	46.2	
156-59-2	1,2-Dichloroethene (cis)	45.5	
78-93-3	2-Butanone	244	
107-12-0	Propionitrile	42.0	
74-97-5	Bromochloromethane	56.8	
126-98-7	Methacrylonitrile	317	
67-66-3	Chloroform	45.6	
71-55-6	1,1,1-Trichloroethane	46.0	
	Tetrahydrofuran	43.8	
110-82-7	cyclohexane	46.6	
78-83-1	Isobutyl alcohol	48.9	
56-23-5	Carbon Tetrachloride	44.9	
563-58-6	1,1-Dichloropropene	46.7	
71-43-2	Benzene	45.2	
108-21-4	isopropyl acetate	7.89	
107-06-2	1,2-Dichloroethane	49.6	
79-01-6	Trichloroethene	47.4	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 395905
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a020910.b
Client Smp ID: lcs
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-87-2	Methylcyclohexane	45.8	
78-87-5	1,2-Dichloropropane	46.9	
74-95-3	Dibromomethane	46.2	
80-62-6	Methyl methacrylate	46.2	
540-84-1	2,2,4-Trimethylpentane	43.4	
	1,4-Dioxane	22700	
75-27-4	Bromodichloromethane	48.2	
110-75-8	2-Chloroethyl vinyl ether	10.3	
10061-01-5	cis-1,3-Dichloropropene	54.3	
108-10-1	4-Methyl-2-Pentanone	254	
108-88-3	Toluene	49.6	
10061-02-6	trans-1,3-Dichloropropene	50.0	
	Ethyl Methacrylate	54.0	
79-00-5	1,1,2-Trichloroethane	55.4	
127-18-4	Tetrachloroethene	44.1	
142-28-9	1,3-Dichloropropane	54.1	
591-78-6	2-Hexanone	290	
124-48-1	Dibromochloromethane	54.7	
106-93-4	1,2-Dibromoethane	52.0	
108-90-7	Chlorobenzene	48.9	
630-20-6	1,1,1,2-Tetrachloroethane	52.5	
100-41-4	Ethylbenzene	50.2	
7816-60-0	m&p-Xylene	99.9	
95-47-6	o-Xylene	52.0	
100-42-5	Styrene	52.6	
75-25-2	Bromoform	49.8	
98-82-8	Isopropylbenzene	49.4	
	trans-1,4-Dichloro-2-butene	204	
628-63-7	n-amyl acetate	11.7	
108-86-1	Bromobenzene	50.4	
79-34-5	1,1,2,2-Tetrachloroethane	54.6	
96-18-4	1,2,3-Trichloropropane	102	
103-65-1	n-Propylbenzene	53.2	
95-49-8	2-Chlorotoluene	49.6	
108-67-8	1,3,5-Trimethylbenzene	52.3	
106-43-4	4-Chlorotoluene	52.0	
98-06-6	tert-Butylbenzene	46.6	
95-63-6	1,2,4-Trimethylbenzene	52.1	
135-98-8	sec-Butylbenzene	53.0	
541-73-1	1,3-Dichlorobenzene	53.2	
99-87-6	p-Isopropyltoluene	52.4	
106-46-7	1,4-Dichlorobenzene	51.3	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

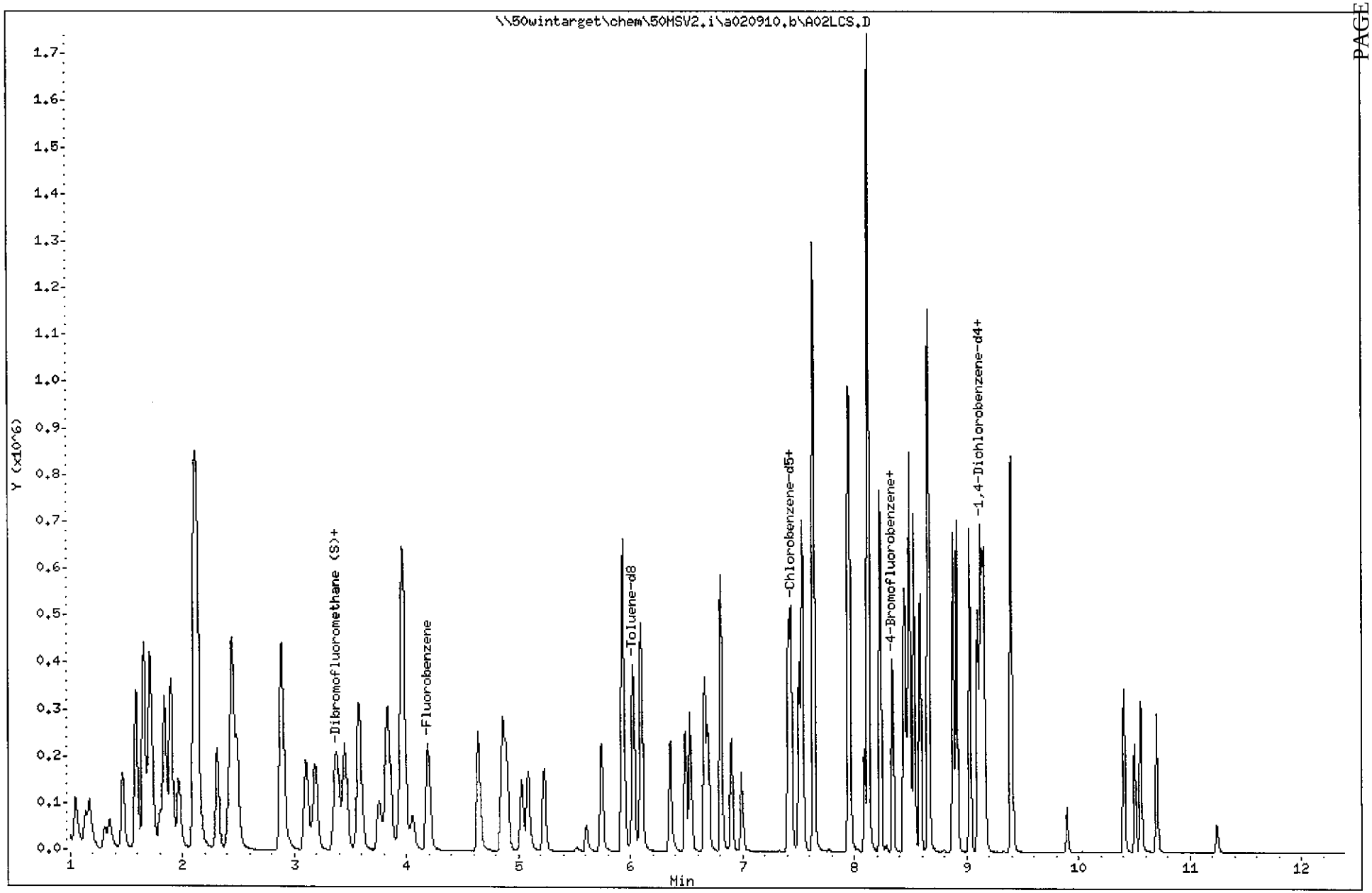
Client Name:
Lab Smp Id: 395905
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a020910.b
Client Smp ID: lcs
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
104-51-8	n-Butylbenzene	54.8	
95-50-1	1,2-Dichlorobenzene	54.3	
96-12-8	1,2-Dibromo-3-chloropropane	50.8	
120-82-1	1,2,4-Trichlorobenzene	49.8	
87-68-3	Hexachlorobutadiene	50.7	
91-20-3	Naphthalene	52.9	
87-61-6	1,2,3-Trichlorobenzene	51.5	
	2,methyl-naphthalene	66.3	
1868-53-7	Dibromofluoromethane (S)	49.9	
2037-26-5	Toluene-d8	53.6	
460-00-4	4-Bromofluorobenzene	49.4	

Data File: \\50wintarget\chem\50MSV2.i\a020910.b\A02LCS.D
Date : 09-FEB-2010 11:54
Client ID: lcs
Sample Info: lcs 34A-054
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a020910.b\A11.D
Lab Smp Id: 395906 Client Smp ID: ms5034508003
Inj Date : 09-FEB-2010 17:02
Operator : jlf Inst ID: 50MSV2.i
Smp Info : ms5034508003
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Meth Date : 10-Feb-2010 11:41 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 23 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
1 Dichlorodifluoromethane	85	1.046	1.052	(0.250)	150675	40.2217	40.2
2 Chloromethane	50	1.144	1.145	(0.273)	111985	36.9442	36.9
3 Vinyl Chloride	62	1.175	1.176	(0.280)	143556	44.6843	44.7
4 Bromomethane	94	1.315	1.305	(0.314)	36834	42.8444	42.8
5 Chloroethane	64	1.356	1.352	(0.323)	88764	48.2099	48.2
6 Trichlorofluoromethane	101	1.470	1.466	(0.351)	169171	48.8634	48.9
28 1,2-dichlorotrifluoroethane	67	1.589	1.590	(0.379)	151396	49.1432	49.1
7 Diethyl ether	74	1.594	1.595	(0.380)	57373	45.3573	45.4
8 Acrolein	56	1.661	1.657	(0.396)	457116	1960.36	1960(R)
10 1,1,2trichlorotrifluoroethane	101	1.708	1.709	(0.407)	118392	54.4390	54.4
9 1,1-Dichloroethene	96	1.718	1.714	(0.410)	95213	50.7524	50.8
11 Acetone	43	1.734	1.734	(0.413)	119045	227.579	228
12 Iodomethane	142	1.801	1.802	(0.429)	100926	45.4934	45.5
13 Carbon Disulfide	76	1.847	1.843	(0.441)	730478	122.636	123
14 allyl chloride	41	1.899	1.900	(0.453)	254985	95.4570	95.4(QM)
145 Acetonitrile	41	1.212	1.211	(0.289)	966	1215.79	1220(Q)
138 Methyl Acetate	43	1.904	1.905	(0.454)	90376	55.0011	55.0
15 Methylene Chloride	84	1.971	1.972	(0.470)	92494	41.5552	41.6
16 Acrylonitrile	53	2.111	2.112	(0.503)	733437	962.662	963
19 Methyl-tert-butyl ether	73	2.137	2.138	(0.510)	503527	93.2367	93.2
18 1,2-Dichloroethene (trans)	96	2.137	2.138	(0.510)	102706	47.1220	47.1
20 n-Hexane	57	2.318	2.313	(0.553)	139319	56.0091	56.0
21 1,1-Dichloroethane	63	2.421	2.417	(0.577)	171342	40.8393	40.8

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)
	23 Vinyl Acetate	43	2.447	2.448	(0.584)	741170	166.392	166
	140 Ethyl acetate	88	2.488	2.489	(0.593)	97395	471.610	472(Q)
	147 Chloroprene	53	2.488	2.489	(0.593)	143657	45.5513	45.6
	24 2,2-Dichloropropane	77	2.886	2.887	(0.688)	150186	48.9731	49.0
	25 1,2-Dichloroethene (cis)	96	2.886	2.887	(0.688)	123427	45.3926	45.4
	26 2-Butanone	43	2.902	2.903	(0.692)	234949	220.737	221
	27 Propionitrile	54	2.959	2.959	(0.705)	14358	41.9686	42.0
	29 Bromochloromethane	49	3.108	3.114	(0.741)	86335	57.1759	57.2
	146 Methacrylonitrile	41	3.103	3.094	(0.740)	76497	308.622	309
	31 Chloroform	83	3.196	3.197	(0.762)	180021	45.5178	45.5
$	32 Dibromofluoromethane (S)	113	3.362	3.363	(0.802)	104613	49.7481	49.7
	33 1,1,1-Trichloroethane	97	3.393	3.394	(0.809)	166387	46.9276	46.9
	30 Tetrahydrofuran	42	3.176	3.171	(0.757)	29295	39.7199	39.7
	34 cyclohexane	56	3.455	3.456	(0.824)	170722	49.8408	49.8
	37 Isobutyl alcohol	43	2.902	2.903	(0.692)	234949	44.1473	44.1
	35 Carbon Tetrachloride	117	3.579	3.580	(0.853)	146550	45.5045	45.5
	36 1,1-Dichloropropene	75	3.584	3.585	(0.855)	143506	48.0336	48.0
	38 Benzene	78	3.832	3.833	(0.914)	384729	44.6676	44.7
	141 isopropyl acetate	61	3.755	3.755	(0.895)	1118	9.32612	9.33(Q)
	39 1,2-Dichloroethane	62	3.853	3.859	(0.919)	129957	50.5432	50.5
*	40 Fluorobenzene	96	4.194	4.195	(1.000)	343389	50.0000	
	41 Trichloroethene	95	4.644	4.644	(1.107)	112742	47.6817	47.7
	139 Methylcyclohexane	55	4.861	4.861	(1.159)	122357	49.6314	49.6
	42 1,2-Dichloropropane	63	4.902	4.898	(1.169)	94989	47.6314	47.6
	43 Dibromomethane	93	5.031	5.032	(1.200)	67495	45.1721	45.2
	44 Methyl methacrylate	69	5.093	5.094	(1.214)	76064	45.4768	45.5
	143 2,2,4-Trimethylpentane	57	3.956	3.962	(0.943)	231074	45.5394	45.5
	144 1,4-Dioxane	88	5.088	5.104	(1.213)	27293	21778.2	21800(Q)
	45 Bromodichloromethane	83	5.233	5.234	(1.248)	137875	47.8933	47.9
	47 cis-1,3-Dichloropropene	75	5.739	5.745	(0.774)	158246	54.2240	54.2
	48 4-Methyl-2-Pentanone	43	5.936	5.936	(0.801)	467698	254.751	255
$	49 Toluene-d8	98	6.023	6.024	(0.812)	298144	54.3539	54.4
	50 Toluene	91	6.096	6.097	(0.822)	400951	50.3050	50.3
	51 trans-1,3-Dichloropropene	75	6.354	6.355	(0.857)	141702	50.2411	50.2
	52 Ethyl Methacrylate	69	6.489	6.489	(0.875)	143005	54.0362	54.0
	53 1,1,2-Trichloroethane	83	6.535	6.536	(0.881)	71912	54.6463	54.6
	54 Tetrachloroethene	166	6.664	6.665	(0.899)	124139	45.3165	45.3
	55 1,3-Dichloropropane	76	6.695	6.696	(0.903)	152213	53.7607	53.8
	56 2-Hexanone	43	6.804	6.805	(0.918)	324680	285.068	285
	57 Dibromochloromethane	129	6.902	6.903	(0.931)	117134	53.8787	53.9
	58 1,2-Dibromoethane	107	6.995	6.991	(0.944)	110755	51.5745	51.6
*	59 Chlorobenzene-d5	117	7.414	7.415	(1.000)	260581	50.0000	
	60 Chlorobenzene	112	7.434	7.435	(1.003)	273748	49.7068	49.7
	61 1,1,1,2-Tetrachloroethane	131	7.512	7.513	(1.013)	101930	51.6233	51.6
	62 Ethylbenzene	106	7.538	7.539	(1.017)	147489	50.9249	50.9
	63 m&p-Xylene	106	7.636	7.637	(1.030)	375700	102.051	102
	65 o-Xylene	106	7.946	7.947	(1.072)	184844	51.5032	51.5
	66 Styrene	104	7.962	7.962	(1.074)	294922	51.6819	51.7
	67 Bromoform	173	8.091	8.092	(0.885)	80482	48.7530	48.8
	68 Isopropylbenzene	105	8.236	8.231	(1.111)	445741	49.8318	49.8
	69 trans-1,4-Dichloro-2-butene	53	8.494	8.495	(1.146)	122305	207.127	207(Q)
	142 n-amyl acetate	70	8.339	8.340	(1.125)	944	21.7209	21.7(Q)
$	70 4-Bromofluorobenzene	95	8.339	8.340	(1.125)	112571	48.7982	48.8
	71 Bromobenzene	77	8.442	8.443	(1.139)	144459	50.7683	50.8

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
72 1,1,2,2-Tetrachloroethane	83	8.453	8.453	(0.924)	117134	54.7681	54.8
73 1,2,3-Trichloropropane	75	8.494	8.479	(0.929)	257434	103.139	103(Q)
74 n-Propylbenzene	91	8.535	8.531	(0.933)	458097	53.7909	53.8
75 2-Chlorotoluene	91	8.587	8.588	(0.939)	274722	49.1744	49.2
77 1,3,5-Trimethylbenzene	105	8.659	8.655	(0.947)	327472	52.7627	52.8
76 4-Chlorotoluene	126	8.587	8.588	(0.939)	96200	51.3030	51.3
78 tert-Butylbenzene	119	8.882	8.882	(0.971)	335332	46.9116	46.9
79 1,2,4-Trimethylbenzene	105	8.913	8.913	(0.975)	324405	52.7757	52.8
80 sec-Butylbenzene	105	9.032	9.032	(0.988)	420761	53.9538	54.0
81 1,3-Dichlorobenzene	146	9.104	9.100	(0.995)	185265	52.2328	52.2
83 p-Isopropyltoluene	119	9.130	9.125	(0.998)	334946	53.5139	53.5
* 82 1,4-Dichlorobenzene-d4	152	9.145	9.146	(1.000)	115366	50.0000	
84 1,4-Dichlorobenzene	146	9.161	9.162	(1.002)	185511	50.4040	50.4
86 n-Butylbenzene	91	9.393	9.394	(1.027)	267354	56.9775	57.0
85 1,2-Dichlorobenzene	146	9.404	9.404	(1.028)	172877	52.5913	52.6
87 1,2-Dibromo-3-chloropropane	155	9.900	9.901	(1.083)	21287	49.7863	49.8
88 1,2,4-Trichlorobenzene	180	10.412	10.412	(1.138)	99161	47.5917	47.6
89 Hexachlorobutadiene	225	10.510	10.505	(1.149)	39636	50.9965	51.0
90 Naphthalene	128	10.561	10.557	(1.155)	233826	50.5900	50.6
91 1,2,3-Trichlorobenzene	180	10.701	10.702	(1.170)	87530	50.9284	50.9
92 2,methyl-naphthalene	142	11.244	11.244	(1.229)	25927	61.4107	61.4

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A11.D
Lab Smp Id: 395906
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a020910.b\-8260-cl.m
Misc Info:

Calibration Date: 09-FEB-2010
Calibration Time: 23:50
Client Smp ID: ms5034508003
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	335209	167605	670418	343389	2.44
59 Chlorobenzene-d5	251681	125841	503362	260581	3.54
82 1,4-Dichlorobenze	109139	54570	218278	115366	5.71

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.20	3.70	4.70	4.19	-0.02
59 Chlorobenzene-d5	7.42	6.92	7.92	7.41	-0.01
82 1,4-Dichlorobenze	9.15	8.65	9.65	9.15	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Client SDG: a020910.b
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: 395906
Client Smp ID: ms5034508003
Level: LOW
Operator: jlf
Data Type: MS DATA
SampleType: MS
SpikeList File: 8260MS.spk
Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Misc Info:

SPIKE	COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
1	Dichlorodifluorome	50.0	40.2	80.44	30-163
2	Chloromethane	50.0	36.9	73.89	36-136
3	Vinyl Chloride	50.0	44.7	89.37	51-144
4	Bromomethane	50.0	42.8	85.69	30-170
5	Chloroethane	50.0	48.2	96.42	54-157
6	Trichlorofluoromet	50.0	48.9	97.73	53-162
28	1,2-dichlorotriflu	50.0	49.1	98.29	50-150
7	Diethyl ether	50.0	45.4	90.71	70-130
8	Acrolein	1000	1960	196.04*	30-170
9	1,1-Dichloroethene	50.0	50.8	101.50	55-140
10	1,1,2trichlorotrif	50.0	54.4	108.88	50-150
11	Acetone	250	228	91.03	30-170
12	Iodomethane	100	45.5	45.49	28-168
13	Carbon Disulfide	100	123	122.64	46-162
138	Methyl Acetate	50.0	55.0	110.00	40-182
14	allyl chloride	100	95.4	95.46	39-155
15	Methylene Chloride	50.0	41.6	83.11	46-154
16	Acrylonitrile	1000	963	96.27	66-137
27	Propionitrile	50.0	42.0	83.94	50-150
17	tert-Butyl Alcohol	100	0.000	*	50-150
18	1,2-Dichloroethene	50.0	47.1	94.24	60-137
19	Methyl-tert-butyl	100	93.2	93.24	52-156
20	n-Hexane	50.0	56.0	112.02	32-176
21	1,1-Dichloroethane	50.0	40.8	81.68	68-139
23	Vinyl Acetate	200	166	83.20	24-132
25	1,2-Dichloroethene	50.0	45.4	90.79	65-132
24	2,2-Dichloropropan	50.0	49.0	97.95	35-157
26	2-Butanone	250	221	88.29	62-132
29	Bromochloromethane	50.0	57.2	114.35	65-157
30	Tetrahydrofuran	50.0	39.7	79.44	50-150
31	Chloroform	50.0	45.5	91.04	67-134
33	1,1,1-Trichloroeth	50.0	46.9	93.86	64-143
34	cyclohexane	50.0	49.8	99.68	39-167
37	Isobutyl alcohol	50.0	44.1	88.29	50-150
36	1,1-Dichloropropen	50.0	48.0	96.07	66-140
35	Carbon Tetrachlori	50.0	45.5	91.01	54-145
38	Benzene	50.0	44.7	89.34	63-141
39	1,2-Dichloroethane	50.0	50.5	101.09	63-148
41	Trichloroethene	50.0	47.7	95.36	61-137
139	Methylcyclohexane	50.0	49.6	99.26	44-158

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
42 1,2-Dichloropropan	50.0	47.6	95.26	70-136
43 Dibromomethane	50.0	45.2	90.34	67-144
44 Methyl methacrylat	50.0	45.5	90.95	50-150
45 Bromodichlorometha	50.0	47.9	95.79	63-135
46 2-Chloroethyl vin	100	0.000	*	50-150
47 cis-1,3-Dichloropr	50.0	54.2	108.45	46-121
48 4-Methyl-2-Pentano	250	255	101.90	57-135
50 Toluene	50.0	50.3	100.61	59-142
51 trans-1,3-Dichloro	50.0	50.2	100.48	43-117
52 Ethyl Methacrylate	50.0	54.0	108.07	52-140
53 1,1,2-Trichloroeth	50.0	54.6	109.29	71-143
54 Tetrachloroethene	50.0	45.3	90.63	25-146
55 1,3-Dichloropropan	50.0	53.8	107.52	65-133
56 2-Hexanone	250	285	114.03	61-141
57 Dibromochlorometha	50.0	53.9	107.76	64-124
58 1,2-Dibromoethane	50.0	51.6	103.15	67-134
60 Chlorobenzene	50.0	49.7	99.41	56-133
61 1,1,1,2-Tetrachlor	50.0	51.6	103.25	55-131
62 Ethylbenzene	50.0	50.9	101.85	44-151
63 m&p-Xylene	100	102	102.05	41-153
65 o-Xylene	50.0	51.5	103.01	52-139
66 Styrene	50.0	51.7	103.36	38-141
67 Bromoform	50.0	48.8	97.51	58-124
68 Isopropylbenzene	50.0	49.8	99.66	40-148
69 trans-1,4-Dichloro	200	207	103.56	44-139
72 1,1,2,2-Tetrachlor	50.0	54.8	109.54	64-142
71 Bromobenzene	50.0	50.8	101.54	57-128
73 1,2,3-Trichloropro	100	103	103.14	33-140
74 n-Propylbenzene	50.0	53.8	107.58	40-148
75 2-Chlorotoluene	50.0	49.2	98.35	44-143
76 4-Chlorotoluene	50.0	51.3	102.61	43-140
77 1,3,5-Trimethylben	50.0	52.8	105.53	39-145
78 tert-Butylbenzene	50.0	46.9	93.82	32-133
79 1,2,4-Trimethylben	50.0	52.8	105.55	39-146
80 sec-Butylbenzene	50.0	54.0	107.91	38-150
81 1,3-Dichlorobenzen	50.0	52.2	104.47	40-143
83 p-Isopropyltoluene	50.0	53.5	107.03	34-146
84 1,4-Dichlorobenzen	50.0	50.4	100.81	38-142
86 n-Butylbenzene	50.0	57.0	113.96	27-153
85 1,2-Dichlorobenzen	50.0	52.6	105.18	48-137
88 1,2,4-Trichloroben	50.0	47.6	95.18	39-146
91 1,2,3-Trichloroben	50.0	50.9	101.86	33-140
87 1,2-Dibromo-3-chlo	50.0	49.8	99.57	39-140
89 Hexachlorobutadien	50.0	51.0	101.99	30-145
90 Naphthalene	50.0	50.6	101.18	44-138
92 2,methyl-naphthale	50.0	61.4	122.82	50-150

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	49.7	99.50	82-122

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 49 Toluene-d8	50.0	54.4	108.71	80-120
$ 70 4-Bromofluorobenze	50.0	48.8	97.60	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 395906
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a020910.b
Client Smp ID: ms5034508003
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	40.2	
74-87-3	Chloromethane	36.9	
75-01-4	Vinyl Chloride	44.7	
74-83-9	Bromomethane	42.8	
75-00-3	Chloroethane	48.2	
75-69-4	Trichlorofluoromethane	48.9	
354-23-4	1,2-dichlorotrifluoroethane	49.1	
60-29-7	Diethyl ether	45.4	
107-02-8	Acrolein	1960	
76-13-1	1,1,2trichlorotrifluoroethan	54.4	
75-35-4	1,1-Dichloroethene	50.8	
67-64-1	Acetone	228	
	Iodomethane	45.5	
75-15-0	Carbon Disulfide	123	
107-05-1	allyl chloride	95.4	
75-05-8	Acetonitrile	1220	
79-20-9	Methyl Acetate	55.0	
75-09-2	Methylene Chloride	41.6	
107-13-1	Acrylonitrile	963	
1634-04-4	Methyl-tert-butyl ether	93.2	
156-60-5	1,2-Dichloroethene (trans)	47.1	
	n-Hexane	56.0	
75-34-3	1,1-Dichloroethane	40.8	
108-05-4	Vinyl Acetate	166	
141-78-6	Ethyl acetate	472	
126-99-8	Chloroprene	45.6	
594-20-7	2,2-Dichloropropane	49.0	
156-59-2	1,2-Dichloroethene (cis)	45.4	
78-93-3	2-Butanone	221	
107-12-0	Propionitrile	42.0	
74-97-5	Bromochloromethane	57.2	
126-98-7	Methacrylonitrile	309	
67-66-3	Chloroform	45.5	
71-55-6	1,1,1-Trichloroethane	46.9	
	Tetrahydrofuran	39.7	
110-82-7	cyclohexane	49.8	
78-83-1	Isobutyl alcohol	44.1	
56-23-5	Carbon Tetrachloride	45.5	
563-58-6	1,1-Dichloropropene	48.0	
71-43-2	Benzene	44.7	
108-21-4	isopropyl acetate	9.33	
107-06-2	1,2-Dichloroethane	50.5	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 395906
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a020910.b
Client Smp ID: ms5034508003
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
79-01-6	Trichloroethene	47.7	
108-87-2	Methylcyclohexane	49.6	
78-87-5	1,2-Dichloropropane	47.6	
74-95-3	Dibromomethane	45.2	
80-62-6	Methyl methacrylate	45.5	
540-84-1	2,2,4-Trimethylpentane	45.5	
	1,4-Dioxane	21800	
75-27-4	Bromodichloromethane	47.9	
10061-01-5	cis-1,3-Dichloropropene	54.2	
108-10-1	4-Methyl-2-Pentanone	255	
108-88-3	Toluene	50.3	
10061-02-6	trans-1,3-Dichloropropene	50.2	
	Ethyl Methacrylate	54.0	
79-00-5	1,1,2-Trichloroethane	54.6	
127-18-4	Tetrachloroethene	45.3	
142-28-9	1,3-Dichloropropane	53.8	
591-78-6	2-Hexanone	285	
124-48-1	Dibromochloromethane	53.9	
106-93-4	1,2-Dibromoethane	51.6	
108-90-7	Chlorobenzene	49.7	
630-20-6	1,1,1,2-Tetrachloroethane	51.6	
100-41-4	Ethylbenzene	50.9	
7816-60-0	m&p-Xylene	102	
95-47-6	o-Xylene	51.5	
100-42-5	Styrene	51.7	
75-25-2	Bromoform	48.8	
98-82-8	Isopropylbenzene	49.8	
	trans-1,4-Dichloro-2-butene	207	
628-63-7	n-amyl acetate	21.7	
108-86-1	Bromobenzene	50.8	
79-34-5	1,1,2,2-Tetrachloroethane	54.8	
96-18-4	1,2,3-Trichloropropane	103	
103-65-1	n-Propylbenzene	53.8	
95-49-8	2-Chlorotoluene	49.2	
108-67-8	1,3,5-Trimethylbenzene	52.8	
106-43-4	4-Chlorotoluene	51.3	
98-06-6	tert-Butylbenzene	46.9	
95-63-6	1,2,4-Trimethylbenzene	52.8	
135-98-8	sec-Butylbenzene	54.0	
541-73-1	1,3-Dichlorobenzene	52.2	
99-87-6	p-Isopropyltoluene	53.5	
106-46-7	1,4-Dichlorobenzene	50.4	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

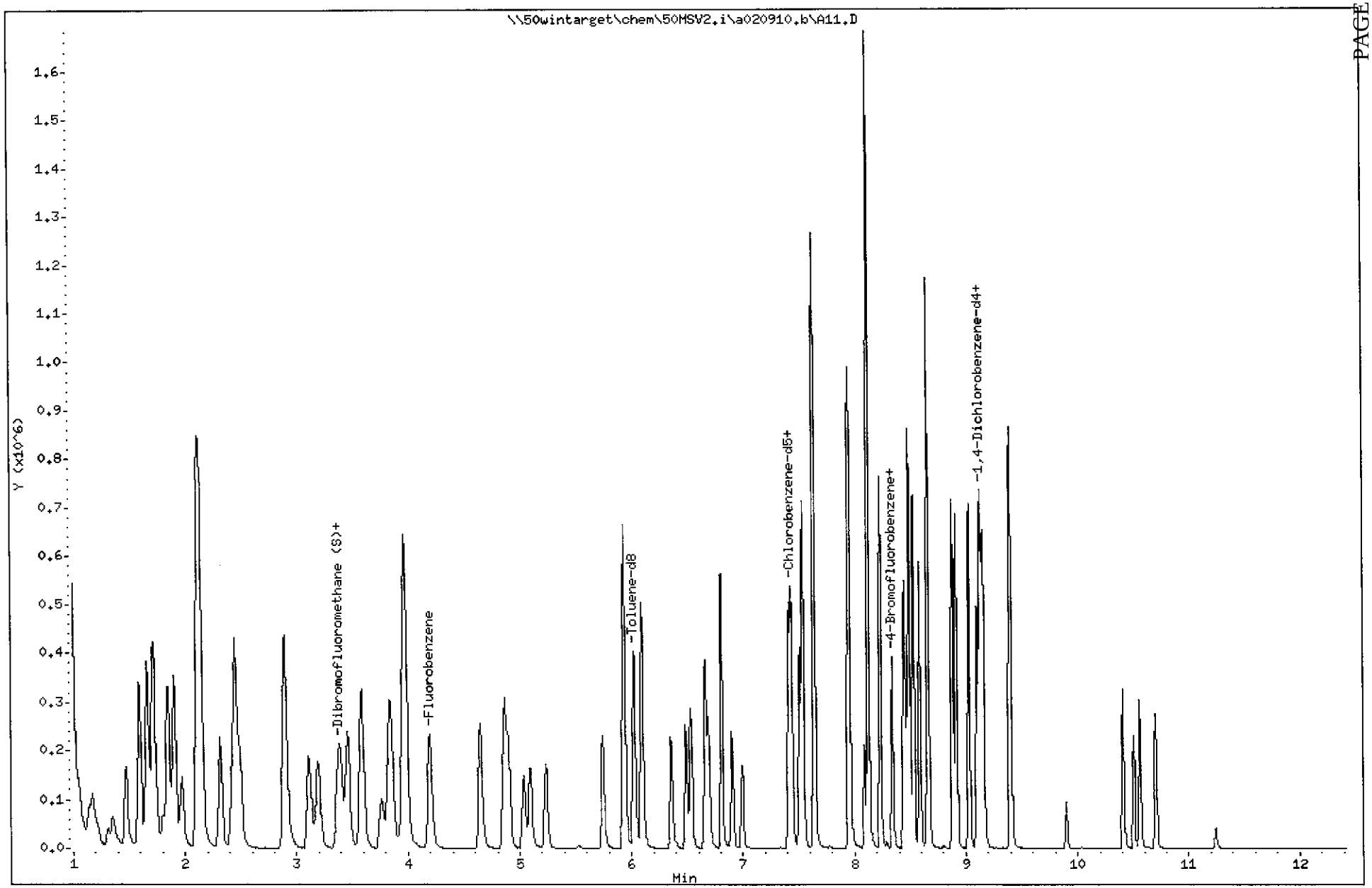
Client Name:
Lab Smp Id: 395906
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a020910.b
Client Smp ID: ms5034508003
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
104-51-8	n-Butylbenzene	57.0	
95-50-1	1,2-Dichlorobenzene	52.6	
96-12-8	1,2-Dibromo-3-chloropropane	49.8	
120-82-1	1,2,4-Trichlorobenzene	47.6	
87-68-3	Hexachlorobutadiene	51.0	
91-20-3	Naphthalene	50.6	
87-61-6	1,2,3-Trichlorobenzene	50.9	
	2,methyl-naphthalene	61.4	
1868-53-7	Dibromofluoromethane (S)	49.7	
2037-26-5	Toluene-d8	54.4	
460-00-4	4-Bromofluorobenzene	48.8	

Data File: \\50wintarget\chem\50MSV2.i\a020910.b\A11.D
Date : 09-FEB-2010 17:02
Client ID: ms5034508003
Sample Info: ms5034508003
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a021010.b\A02LCS.D
Lab Smp Id: 396178 Client Smp ID: lcs
Inj Date : 10-FEB-2010 13:12
Operator : jlf Inst ID: 50MSV2.i
Smp Info : lcs 34A-054
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a021010.b\-8260-c1.m
Meth Date : 11-Feb-2010 10:29 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
1 Dichlorodifluoromethane	85	1.047	1.046	(0.251)	158208	38.6128	38.6
2 Chloromethane	50	1.130	1.134	(0.270)	139935	42.3764	42.4
3 Vinyl Chloride	62	1.171	1.170	(0.280)	164770	47.2480	47.2
4 Bromomethane	94	1.306	1.304	(0.312)	59080	65.8673	65.9
5 Chloroethane	64	1.347	1.346	(0.322)	99056	49.3850	49.4
6 Trichlorofluoromethane	101	1.466	1.459	(0.351)	184345	48.8768	48.9
28 1,2-dichlorotrifluoroethane	67	1.585	1.578	(0.379)	167944	50.1532	50.2
7 Diethyl ether	74	1.590	1.589	(0.380)	66670	48.7236	48.7
8 Acrolein	56	1.652	1.651	(0.395)	561763	2211.44	2210(R)
10 1,1,2trichlorotrifluoroethane	101	1.704	1.702	(0.408)	121824	51.0712	51.1
9 1,1-Dichloroethene	96	1.714	1.707	(0.410)	102872	50.2900	50.3
11 Acetone	43	1.729	1.728	(0.414)	132920	233.719	234
12 Iodomethane	142	1.797	1.795	(0.430)	164336	68.8380	68.8
13 Carbon Disulfide	76	1.838	1.837	(0.440)	773977	119.275	119
14 allyl chloride	41	1.895	1.893	(0.453)	292796	101.248	101
138 Methyl Acetate	43	1.900	1.899	(0.455)	107172	60.1014	60.1
15 Methylene Chloride	84	1.962	1.961	(0.470)	107033	44.3533	44.4
16 Acrylonitrile	53	2.101	2.100	(0.503)	802081	966.706	967
19 Methyl-tert-butyl ether	73	2.132	2.131	(0.510)	564061	96.1186	96.1
18 1,2-Dichloroethene (trans)	96	2.127	2.126	(0.509)	114252	48.1552	48.2
20 n-Hexane	57	2.308	2.307	(0.552)	140201	51.7382	51.7
21 1,1-Dichloroethane	63	2.412	2.405	(0.577)	192980	42.2219	42.2
23 Vinyl Acetate	43	2.437	2.436	(0.583)	884930	182.362	182

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
	140 Ethyl acetate	88	2.479	2.478	(0.593)	105996	471.118	471(Q)
	147 Chloroprene	53	2.484	2.478	(0.594)	155566	45.2793	45.3
	24 2,2-Dichloropropane	77	2.877	2.876	(0.688)	148564	44.4686	44.5
	25 1,2-Dichloroethene (cis)	96	2.877	2.876	(0.688)	137159	46.3463	46.3
	26 2-Butanone	43	2.887	2.891	(0.691)	254697	219.653	220
	27 Propionitrile	54	2.944	2.943	(0.704)	15136	40.7373	40.7(Q)
	29 Bromochloromethane	49	3.099	3.098	(0.742)	98175	59.8731	59.9
	146 Methacrylonitrile	41	3.089	3.087	(0.739)	85456	316.591	316
	31 Chloroform	83	3.182	3.180	(0.761)	201500	46.7675	46.8
$	32 Dibromofluoromethane (S)	113	3.352	3.356	(0.802)	115534	50.4326	50.4
	33 1,1,1-Trichloroethane	97	3.378	3.377	(0.808)	175947	45.4791	45.5
	30 Tetrahydrofuran	42	3.161	3.160	(0.756)	33796	42.5466	42.5
	34 cyclohexane	56	3.445	3.444	(0.824)	175787	46.9514	47.0
	37 Isobutyl alcohol	43	2.887	2.891	(0.691)	254697	43.9305	43.9
	35 Carbon Tetrachloride	117	3.569	3.563	(0.854)	157474	44.8837	44.9
	36 1,1-Dichloropropene	75	3.569	3.568	(0.854)	154972	47.6145	47.6
	38 Benzene	78	3.817	3.816	(0.913)	422341	45.0103	45.0
	141 isopropyl acetate	61	3.750	3.744	(0.897)	1331	10.1917	10.2(Q)
	39 1,2-Dichloroethane	62	3.843	3.842	(0.920)	144549	51.6669	51.7
*	40 Fluorobenzene	96	4.179	4.178	(1.000)	374089	50.0000	
	41 Trichloroethene	95	4.634	4.628	(1.109)	122945	47.7316	47.7
	139 Methylcyclohexane	55	4.851	4.850	(1.161)	121343	44.8548	44.8
	42 1,2-Dichloropropane	63	4.887	4.886	(1.169)	106197	48.9173	48.9
	43 Dibromomethane	93	5.017	5.020	(1.200)	74454	45.7574	45.8
	44 Methyl methacrylate	69	5.079	5.082	(1.215)	80700	44.2900	44.3
	143 2,2,4-Trimethylpentane	57	3.941	3.940	(0.943)	226408	40.9581	41.0
	144 1,4-Dioxane	88	5.084	5.088	(1.216)	27705	20292.7	20300(Q)
	45 Bromodichloromethane	83	5.218	5.217	(1.249)	151132	48.1979	48.2
	46 2-Chloroethyl vinyl ether	63	5.595	5.594	(0.756)	32061	10.1159	10.1
	47 cis-1,3-Dichloropropene	75	5.730	5.729	(0.774)	173966	54.9615	55.0
	48 4-Methyl-2-Pentanone	43	5.921	5.925	(0.800)	493968	247.948	248
$	49 Toluene-d8	98	6.014	6.013	(0.812)	325148	54.6258	54.6
	50 Toluene	91	6.086	6.085	(0.822)	433801	50.1560	50.2
	51 trans-1,3-Dichloropropene	75	6.345	6.344	(0.857)	154019	50.3261	50.3
	52 Ethyl Methacrylate	69	6.479	6.478	(0.875)	153840	53.5567	53.6
	53 1,1,2-Trichloroethane	83	6.526	6.524	(0.881)	80098	56.1658	56.2
	54 Tetrachloroethene	166	6.655	6.654	(0.899)	130829	43.9021	43.9
	55 1,3-Dichloropropane	76	6.686	6.685	(0.903)	167718	54.6275	54.6
	56 2-Hexanone	43	6.794	6.798	(0.918)	339397	274.116	274
	57 Dibromochloromethane	129	6.893	6.891	(0.931)	128102	54.3003	54.3
	58 1,2-Dibromoethane	107	6.986	6.984	(0.943)	119674	51.3472	51.3
*	59 Chlorobenzene-d5	117	7.404	7.403	(1.000)	282768	50.0000	
	60 Chlorobenzene	112	7.425	7.429	(1.003)	291675	48.8064	48.8
	61 1,1,1,2-Tetrachloroethane	131	7.503	7.501	(1.013)	109542	51.1254	51.1
	62 Ethylbenzene	106	7.534	7.532	(1.017)	157142	50.0006	50.0
	63 m&p-Xylene	106	7.632	7.631	(1.031)	399381	99.9716	100
	65 o-Xylene	106	7.942	7.941	(1.073)	198409	50.9451	50.9
	66 Styrene	104	7.952	7.951	(1.074)	318698	51.4837	51.5
	67 Bromoform	173	8.087	8.085	(0.885)	86979	50.2363	50.2
	68 Isopropylbenzene	105	8.226	8.225	(1.111)	466015	48.0105	48.0
	69 trans-1,4-Dichloro-2-butene	53	8.485	8.488	(1.146)	125858	196.395	196(Q)
	142 n-amyl acetate	70	8.335	8.328	(1.126)	1020	21.6281	21.6(Q)
$	70 4-Bromofluorobenzene	95	8.335	8.333	(1.126)	123350	49.2752	49.3
	71 Bromobenzene	77	8.433	8.432	(1.139)	155888	50.4677	50.5

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
72 1,1,2,2-Tetrachloroethane	83	8.448	8.447	(0.925)	122303	54.5458	54.5
73 1,2,3-Trichloropropane	75	8.485	8.473	(0.929)	265293	101.382	101(Q)
74 n-Propylbenzene	91	8.526	8.525	(0.933)	477618	53.4948	53.5
75 2-Chlorotoluene	91	8.578	8.576	(0.939)	297924	50.8663	50.9
77 1,3,5-Trimethylbenzene	105	8.650	8.649	(0.947)	341206	52.4383	52.4
76 4-Chlorotoluene	126	8.578	8.581	(0.939)	103338	52.5573	52.6
78 tert-Butylbenzene	119	8.872	8.876	(0.971)	352993	47.1032	47.1
79 1,2,4-Trimethylbenzene	105	8.908	8.907	(0.975)	337672	52.3987	52.4
80 sec-Butylbenzene	105	9.022	9.021	(0.988)	434556	53.1510	53.2
81 1,3-Dichlorobenzene	146	9.094	9.093	(0.995)	198836	53.4718	53.5
83 p-Isopropyltoluene	119	9.120	9.119	(0.998)	345999	52.7286	52.7
* 82 1,4-Dichlorobenzene-d4	152	9.136	9.140	(1.000)	120948	50.0000	
84 1,4-Dichlorobenzene	146	9.156	9.155	(1.002)	198103	51.3412	51.3
86 n-Butylbenzene	91	9.384	9.388	(1.027)	271069	55.0712	55.1
85 1,2-Dichlorobenzene	146	9.399	9.398	(1.029)	187840	54.5060	54.5
87 1,2-Dibromo-3-chloropropane	155	9.890	9.894	(1.083)	21272	47.6707	47.7
88 1,2,4-Trichlorobenzene	180	10.402	10.401	(1.139)	104663	47.8936	47.9
89 Hexachlorobutadiene	225	10.500	10.499	(1.149)	38964	47.8787	47.9
90 Naphthalene	128	10.552	10.551	(1.155)	239521	49.5451	49.5
91 1,2,3-Trichlorobenzene	180	10.697	10.695	(1.171)	89692	49.8817	49.9
92 2,methyl-naphthalene	142	11.234	11.233	(1.230)	27660	61.6383	61.6

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A02LCS.D
Lab Smp Id: 396178
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a021010.b\-8260-c1.m
Misc Info:

Calibration Date: 10-FEB-2010
Calibration Time: 12:38
Client Smp ID: lcs
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	372422	186211	744844	374089	0.45
59 Chlorobenzene-d5	275548	137774	551096	282768	2.62
82 1,4-Dichlorobenze	119629	59815	239258	120948	1.10

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.18	3.68	4.68	4.18	0.03
59 Chlorobenzene-d5	7.40	6.90	7.90	7.40	0.02
82 1,4-Dichlorobenze	9.14	8.64	9.64	9.14	-0.04

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 396178
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCS.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a021010.b\-8260-c1.m
Misc Info:

Client SDG: a021010.b
Fraction: VOA
Client Smp ID: lcs
Operator: jlf
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
1 Dichlorodifluorome	50.0	38.6	77.23	30-170
2 Chloromethane	50.0	42.4	84.75	35-147
3 Vinyl Chloride	50.0	47.2	94.50	55-141
4 Bromomethane	50.0	65.9	131.73	30-170
5 Chloroethane	50.0	49.4	98.77	56-153
6 Trichlorofluoromet	50.0	48.9	97.75	62-150
7 Diethyl ether	50.0	48.7	97.45	70-130
8 Acrolein	1000	2210	221.14*	30-170
9 1,1-Dichloroethene	50.0	50.3	100.58	63-128
10 1,1,2trichlorotrif	50.0	51.1	102.14	74-153
11 Acetone	250	234	93.49	30-170
12 Iodomethane	100	68.8	68.84	41-170
13 Carbon Disulfide	100	119	119.28	58-152
14 allyl chloride	100	101	101.25	70-130
15 Methylene Chloride	50.0	44.4	88.71	32-164
16 Acrylonitrile	1000	967	96.67	67-136
17 tert-Butyl Alcohol	100	0.000	*	50-150
18 1,2-Dichloroethene	50.0	48.2	96.31	71-126
19 Methyl-tert-butyl	100	96.1	96.12	66-147
20 n-Hexane	50.0	51.7	103.48	69-157
21 1,1-Dichloroethane	50.0	42.2	84.44	67-133
23 Vinyl Acetate	200	182	91.18	41-145
24 2,2-Dichloropropan	50.0	44.5	88.94	53-144
25 1,2-Dichloroethene	50.0	46.3	92.69	74-128
26 2-Butanone	250	220	87.86	47-189
28 1,2-dichlorotriflu	50.0	50.2	100.31	54-162
29 Bromochloromethane	50.0	59.9	119.75	54-162
31 Chloroform	50.0	46.8	93.54	74-131
33 1,1,1-Trichloroeth	50.0	45.5	90.96	69-136
35 Carbon Tetrachlori	50.0	44.9	89.77	62-143
36 1,1-Dichloropropen	50.0	47.6	95.23	75-134
37 Isobutyl alcohol	50.0	43.9	87.86	50-150
38 Benzene	50.0	45.0	90.02	78-127
39 1,2-Dichloroethane	50.0	51.7	103.33	69-139
41 Trichloroethene	50.0	47.7	95.46	74-130
42 1,2-Dichloropropan	50.0	48.9	97.83	76-129
43 Dibromomethane	50.0	45.8	91.51	73-133
44 Methyl methacrylat	50.0	44.3	88.58	70-130
45 Bromodichlorometha	50.0	48.2	96.40	69-133
47 cis-1,3-Dichloropr	50.0	55.0	109.92	54-123

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
48 4-Methyl-2-Pentano	250	248	99.18	61-135
50 Toluene	50.0	50.2	100.31	75-129
51 trans-1,3-Dichloro	50.0	50.3	100.65	54-123
52 Ethyl Methacrylate	50.0	53.6	107.11	59-138
53 1,1,2-Trichloroeth	50.0	56.2	112.33	77-132
54 Tetrachloroethene	50.0	43.9	87.80	60-119
55 1,3-Dichloropropan	50.0	54.6	109.25	74-126
56 2-Hexanone	250	274	109.65	57-167
57 Dibromochlorometha	50.0	54.3	108.60	66-131
58 1,2-Dibromoethane	50.0	51.3	102.69	75-126
60 Chlorobenzene	50.0	48.8	97.61	75-123
61 1,1,1,2-Tetrachlor	50.0	51.1	102.25	69-130
62 Ethylbenzene	50.0	50.0	100.00	81-126
63 m&p-Xylene	100	100	99.97	71-131
65 o-Xylene	50.0	50.9	101.89	72-127
66 Styrene	50.0	51.5	102.97	74-128
67 Bromoform	50.0	50.2	100.47	60-127
68 Isopropylbenzene	50.0	48.0	96.02	80-130
69 trans-1,4-Dichloro	200	196	98.20	50-150
71 Bromobenzene	50.0	50.5	100.94	62-139
72 1,1,2,2-Tetrachlor	50.0	54.5	109.09	69-130
73 1,2,3-Trichloropro	100	101	101.38	60-131
74 n-Propylbenzene	50.0	53.5	106.99	71-132
75 2-Chlorotoluene	50.0	50.9	101.73	72-128
76 4-Chlorotoluene	50.0	52.6	105.11	73-124
77 1,3,5-Trimethylben	50.0	52.4	104.88	74-130
78 tert-Butylbenzene	50.0	47.1	94.21	63-117
79 1,2,4-Trimethylben	50.0	52.4	104.80	73-130
80 sec-Butylbenzene	50.0	53.2	106.30	73-130
81 1,3-Dichlorobenzen	50.0	53.5	106.94	76-125
83 p-Isopropyltoluene	50.0	52.7	105.46	66-131
84 1,4-Dichlorobenzen	50.0	51.3	102.68	75-122
85 1,2-Dichlorobenzen	50.0	54.5	109.01	76-124
86 n-Butylbenzene	50.0	55.1	110.14	68-135
87 1,2-Dibromo-3-chlo	50.0	47.7	95.34	61-125
88 1,2,4-Trichloroben	50.0	47.9	95.79	60-130
89 Hexachlorobutadien	50.0	47.9	95.76	70-130
90 Naphthalene	50.0	49.5	99.09	61-135
91 1,2,3-Trichloroben	50.0	49.9	99.76	58-131
138 Methyl Acetate	50.0	60.1	120.20	30-170
34 cyclohexane	50.0	47.0	93.90	63-134
139 Methylcyclohexane	50.0	44.8	89.71	65-135

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	50.4	100.87	82-122
$ 49 Toluene-d8	50.0	54.6	109.25	80-120
$ 70 4-Bromofluorobenze	50.0	49.3	98.55	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 396178
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a021010.b
Client Smp ID: lcs
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	38.6	
74-87-3	Chloromethane	42.4	
75-01-4	Vinyl Chloride	47.2	
74-83-9	Bromomethane	65.9	
75-00-3	Chloroethane	49.4	
75-69-4	Trichlorofluoromethane	48.9	
354-23-4	1,2-dichlorotrifluoroethane	50.2	
60-29-7	Diethyl ether	48.7	
107-02-8	Acrolein	2210	
76-13-1	1,1,2trichlorotrifluoroethan	51.1	
75-35-4	1,1-Dichloroethene	50.3	
67-64-1	Acetone	234	
	Iodomethane	68.8	
75-15-0	Carbon Disulfide	119	
107-05-1	allyl chloride	101	
79-20-9	Methyl Acetate	60.1	
75-09-2	Methylene Chloride	44.4	
107-13-1	Acrylonitrile	967	
1634-04-4	Methyl-tert-butyl ether	96.1	
156-60-5	1,2-Dichloroethene (trans)	48.2	
	n-Hexane	51.7	
75-34-3	1,1-Dichloroethane	42.2	
108-05-4	Vinyl Acetate	182	
141-78-6	Ethyl acetate	471	
126-99-8	Chloroprene	45.3	
594-20-7	2,2-Dichloropropane	44.5	
156-59-2	1,2-Dichloroethene (cis)	46.3	
78-93-3	2-Butanone	220	
107-12-0	Propionitrile	40.7	
74-97-5	Bromochloromethane	59.9	
126-98-7	Methacrylonitrile	316	
67-66-3	Chloroform	46.8	
71-55-6	1,1,1-Trichloroethane	45.5	
	Tetrahydrofuran	42.5	
110-82-7	cyclohexane	47.0	
78-83-1	Isobutyl alcohol	43.9	
56-23-5	Carbon Tetrachloride	44.9	
563-58-6	1,1-Dichloropropene	47.6	
71-43-2	Benzene	45.0	
108-21-4	isopropyl acetate	10.2	
107-06-2	1,2-Dichloroethane	51.7	
79-01-6	Trichloroethene	47.7	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 396178
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a021010.b
Client Smp ID: lcs
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-87-2	Methylcyclohexane	44.8	
78-87-5	1,2-Dichloropropane	48.9	
74-95-3	Dibromomethane	45.8	
80-62-6	Methyl methacrylate	44.3	
540-84-1	2,2,4-Trimethylpentane	41.0	
	1,4-Dioxane	20300	
75-27-4	Bromodichloromethane	48.2	
110-75-8	2-Chloroethyl vinyl ether	10.1	
10061-01-5	cis-1,3-Dichloropropene	55.0	
108-10-1	4-Methyl-2-Pentanone	248	
108-88-3	Toluene	50.2	
10061-02-6	trans-1,3-Dichloropropene	50.3	
	Ethyl Methacrylate	53.6	
79-00-5	1,1,2-Trichloroethane	56.2	
127-18-4	Tetrachloroethene	43.9	
142-28-9	1,3-Dichloropropane	54.6	
591-78-6	2-Hexanone	274	
124-48-1	Dibromochloromethane	54.3	
106-93-4	1,2-Dibromoethane	51.3	
108-90-7	Chlorobenzene	48.8	
630-20-6	1,1,1,2-Tetrachloroethane	51.1	
100-41-4	Ethylbenzene	50.0	
7816-60-0	m&p-Xylene	100	
95-47-6	o-Xylene	50.9	
100-42-5	Styrene	51.5	
75-25-2	Bromoform	50.2	
98-82-8	Isopropylbenzene	48.0	
	trans-1,4-Dichloro-2-butene	196	
628-63-7	n-amyl acetate	21.6	
108-86-1	Bromobenzene	50.5	
79-34-5	1,1,2,2-Tetrachloroethane	54.5	
96-18-4	1,2,3-Trichloropropane	101	
103-65-1	n-Propylbenzene	53.5	
95-49-8	2-Chlorotoluene	50.9	
108-67-8	1,3,5-Trimethylbenzene	52.4	
106-43-4	4-Chlorotoluene	52.6	
98-06-6	tert-Butylbenzene	47.1	
95-63-6	1,2,4-Trimethylbenzene	52.4	
135-98-8	sec-Butylbenzene	53.2	
541-73-1	1,3-Dichlorobenzene	53.5	
99-87-6	p-Isopropyltoluene	52.7	
106-46-7	1,4-Dichlorobenzene	51.3	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

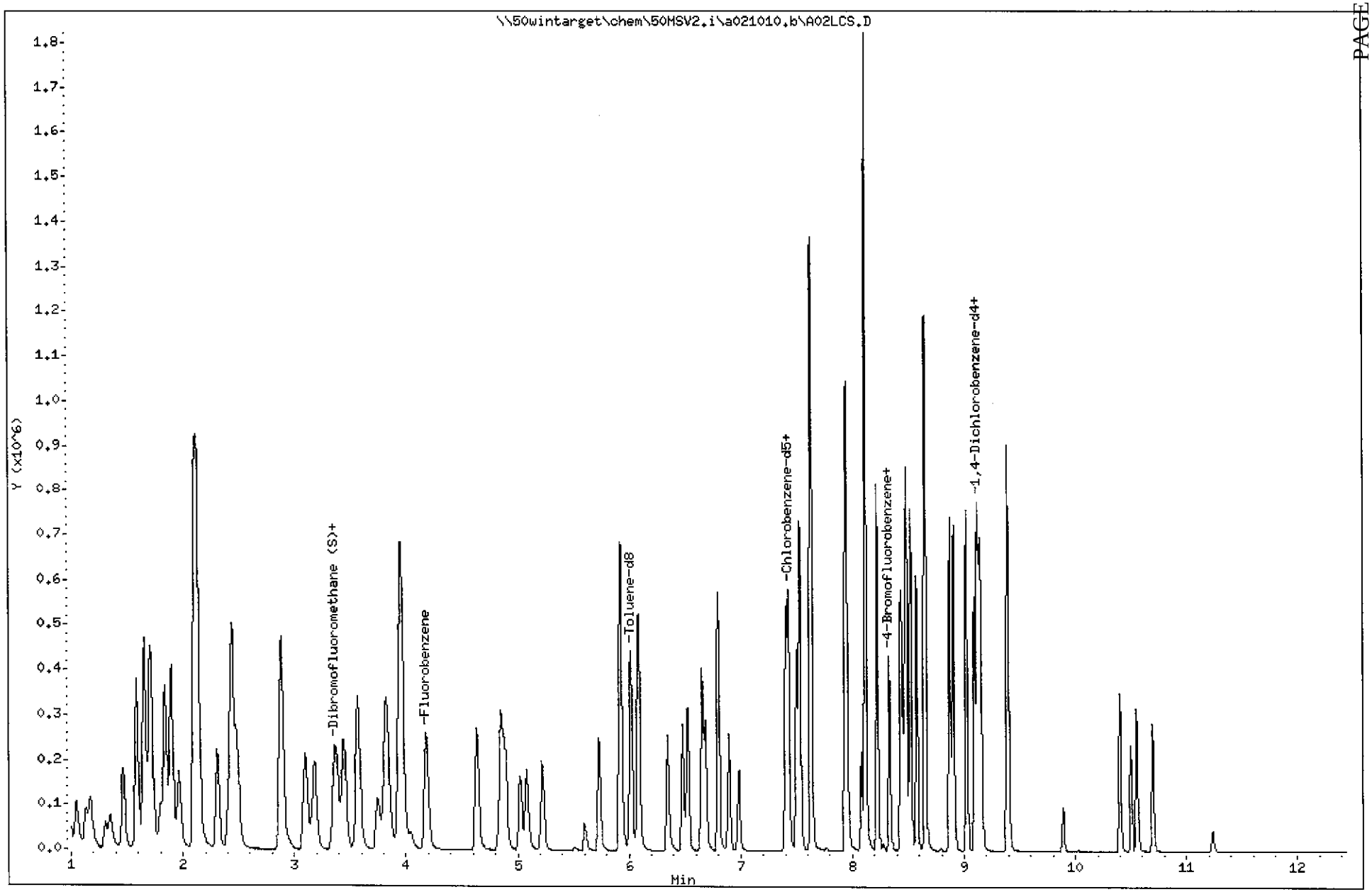
Client Name:
Lab Smp Id: 396178
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a021010.b
Client Smp ID: lcs
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
104-51-8	n-Butylbenzene	55.1	
95-50-1	1,2-Dichlorobenzene	54.5	
96-12-8	1,2-Dibromo-3-chloropropane	47.7	
120-82-1	1,2,4-Trichlorobenzene	47.9	
87-68-3	Hexachlorobutadiene	47.9	
91-20-3	Naphthalene	49.5	
87-61-6	1,2,3-Trichlorobenzene	49.9	
	2,methyl-naphthalene	61.6	
1868-53-7	Dibromofluoromethane (S)	50.4	
2037-26-5	Toluene-d8	54.6	
460-00-4	4-Bromofluorobenzene	49.3	

Data File: \\50wintarget\chem\50MSV2.i\a021010.b\A02LCS.D
Date : 10-FEB-2010 13:12
Client ID: lcs
Sample Info: lcs 34A-054
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



VOA 8260B
GC/MS Volatiles

Section 5: Method Blank Data

**** Method Blanks***

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a013110.b\A03MB.D
Lab Smp Id: 393491 Client Smp ID: mb
Inj Date : 31-JAN-2010 14:20
Operator : jlf Inst ID: 50MSV2.i
Smp Info : mb 34A-001
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Meth Date : 01-Feb-2010 13:23 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
8 Acrolein	56	1.652	1.644	(0.397)	1028	4.08331	4.08(Q)
13 Carbon Disulfide	76	1.828	1.825	(0.439)	5060	0.78681	0.787
$ 32 Dibromofluoromethane (S)	113	3.342	3.334	(0.803)	119722	52.7319	52.7
* 40 Fluorobenzene	96	4.164	4.161	(1.000)	370747	50.0000	
$ 49 Toluene-d8	98	6.004	5.996	(0.812)	343301	49.9331	49.9
* 59 Chlorobenzene-d5	117	7.394	7.391	(1.000)	326613	50.0000	
63 m&p-Xylene	106	7.632	7.619	(1.032)	1448	0.31380	0.314
68 Isopropylbenzene	105	8.221	8.213	(1.112)	2753	0.24555	0.246
142 n-amyl acetate	70	8.325	8.316	(1.126)	713	13.0890	13.1(Q)
$ 70 4-Bromofluorobenzene	95	8.325	8.322	(1.126)	146564	50.6890	50.7
74 n-Propylbenzene	91	8.521	8.513	(0.934)	3135	0.28008	0.280
75 2-Chlorotoluene	91	8.573	8.564	(0.939)	2123	0.28913	0.289
77 1,3,5-Trimethylbenzene	105	8.645	8.637	(0.947)	2383	0.29213	0.292
76 4-Chlorotoluene	126	8.578	8.570	(0.940)	441	0.54105	0.541(Q)
78 tert-Butylbenzene	119	8.867	8.864	(0.972)	2576	0.27419	0.274
79 1,2,4-Trimethylbenzene	105	8.904	8.895	(0.976)	2264	0.28023	0.280
80 sec-Butylbenzene	105	9.012	9.009	(0.988)	4075	0.39757	0.398
81 1,3-Dichlorobenzene	146	9.090	9.081	(0.996)	1947	0.41765	0.418
83 p-Isopropyltoluene	119	9.116	9.107	(0.999)	3561	0.43288	0.433
* 82 1,4-Dichlorobenzene-d4	152	9.126	9.128	(1.000)	151628	50.0000	
84 1,4-Dichlorobenzene	146	9.147	9.143	(1.002)	2165	0.44756	0.448(Q)
89 Hexachlorobutadiene	225	10.480	10.487	(1.148)	199	1.16284	1.16(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A03MB.D
Lab Smp Id: 393491
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

Calibration Date: 31-JAN-2010
Calibration Time: 13:12
Client Smp ID: mb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	366735	183368	733470	370747	1.09
59 Chlorobenzene-d5	322201	161101	644402	326613	1.37
82 1,4-Dichlorobenze	147283	73642	294566	151628	2.95

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.16	3.66	4.66	4.16	0.08
59 Chlorobenzene-d5	7.39	6.89	7.89	7.39	0.04
82 1,4-Dichlorobenze	9.13	8.63	9.63	9.13	-0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 393491
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCSfulllist.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

Client SDG: a013110.b
Fraction: VOA
Client Smp ID: mb
Operator: jlf
SampleType: BLANK
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	52.7	105.46	82-122
$ 49 Toluene-d8	50.0	49.9	99.87	80-120
$ 70 4-Bromofluorobenze	50.0	50.7	101.38	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

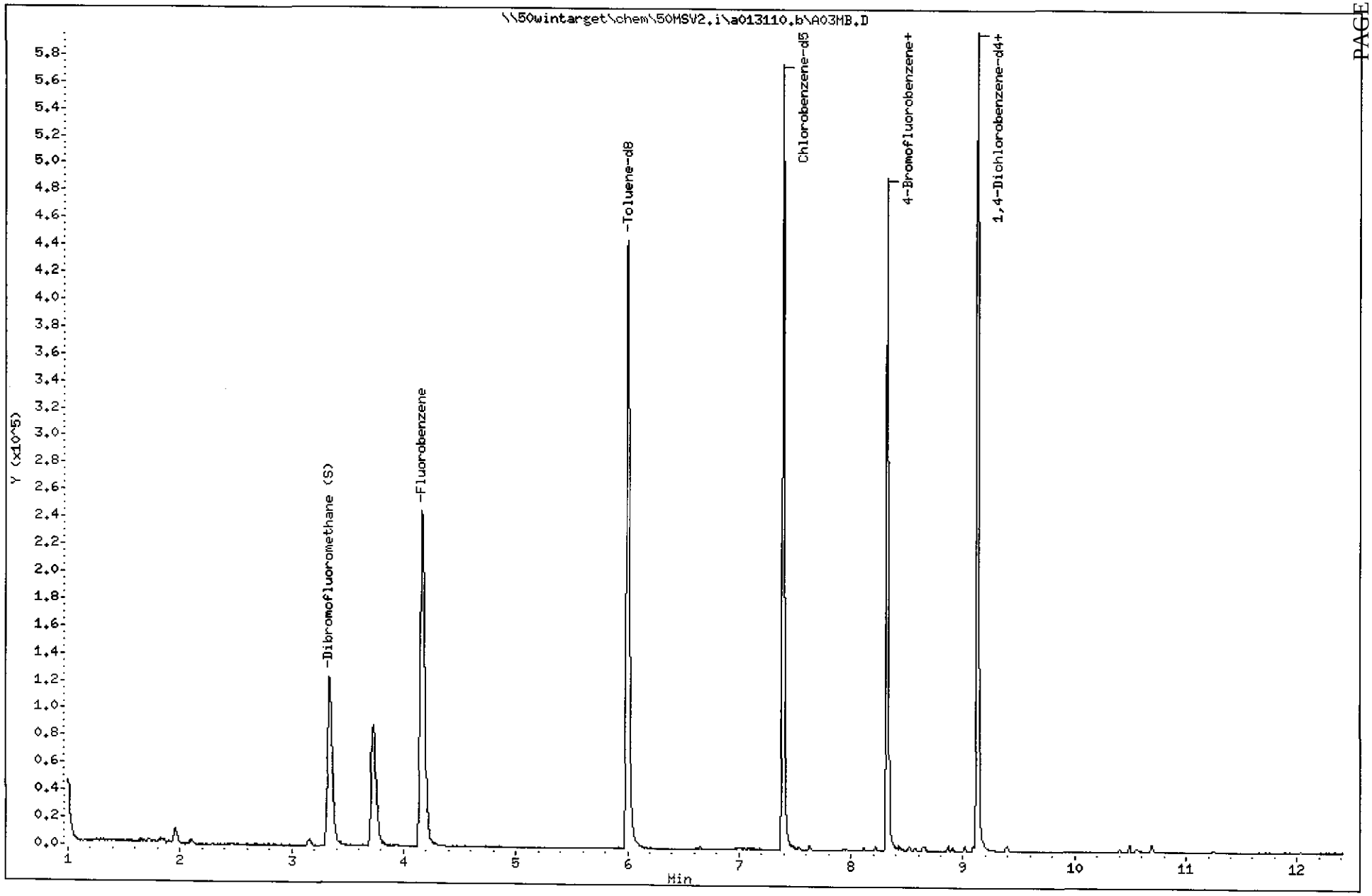
Client Name:
Lab Smp Id: 393491
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a013110.b
Client Smp ID: mb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
107-02-8	Acrolein	4.08	
75-15-0	Carbon Disulfide	0.787	
7816-60-0	m&p-Xylene	0.314	
98-82-8	Isopropylbenzene	0.246	
628-63-7	n-amyl acetate	13.1	
103-65-1	n-Propylbenzene	0.280	
95-49-8	2-Chlorotoluene	0.289	
108-67-8	1,3,5-Trimethylbenzene	0.292	
106-43-4	4-Chlorotoluene	0.541	
98-06-6	tert-Butylbenzene	0.274	
95-63-6	1,2,4-Trimethylbenzene	0.280	
135-98-8	sec-Butylbenzene	0.398	
541-73-1	1,3-Dichlorobenzene	0.418	
99-87-6	p-Isopropyltoluene	0.433	
106-46-7	1,4-Dichlorobenzene	0.448	
87-68-3	Hexachlorobutadiene	1.16	
1868-53-7	Dibromofluoromethane (S)	52.7	
2037-26-5	Toluene-d8	49.9	
460-00-4	4-Bromofluorobenzene	50.7	

Data File: \\50wintarget\chem\50MSV2.i\a013110.b\A03MB.D
Date : 31-JAN-2010 14:20
Client ID: mb
Sample Info: mb 34A-001
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a020110.b\A03MB.D
Lab Smp Id: 393782 Client Smp ID: mb
Inj Date : 01-FEB-2010 11:36
Operator : jlf Inst ID: 50MSV2.i
Smp Info : mb 34A-001
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a020110.b\-8260-c1.m
Meth Date : 02-Feb-2010 13:22 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
13 Carbon Disulfide	76	1.838	1.833	(0.441)	4635	0.76289	0.763
$ 32 Dibromofluoromethane (S)	113	3.342	3.342	(0.803)	111485	51.9766	52.0
* 40 Fluorobenzene	96	4.164	4.169	(1.000)	350256	50.0000	
143 2,2,4-Trimethylpentane	57	3.926	3.931	(0.943)	1184	0.22876	0.229
$ 49 Toluene-d8	98	5.999	6.004	(0.812)	324772	50.0435	50.0
50 Toluene	91	6.076	6.076	(0.822)	746	0.07911	0.0791
* 59 Chlorobenzene-d5	117	7.389	7.394	(1.000)	308303	50.0000	
63 m&p-Xylene	106	7.627	7.622	(1.032)	966	0.22178	0.222(Q)
68 Isopropylbenzene	105	8.221	8.216	(1.113)	1511	0.14278	0.143
142 n-amyl acetate	70	8.324	8.325	(1.127)	945	18.3782	18.4(Q)
$ 70 4-Bromofluorobenzene	95	8.319	8.325	(1.126)	138892	50.8885	50.9
74 n-Propylbenzene	91	8.516	8.516	(0.933)	1621	0.15093	0.151
77 1,3,5-Trimethylbenzene	105	8.650	8.645	(0.948)	1445	0.18462	0.185
78 tert-Butylbenzene	119	8.862	8.867	(0.971)	1685	0.18692	0.187
79 1,2,4-Trimethylbenzene	105	8.903	8.898	(0.976)	1625	0.20963	0.210
80 sec-Butylbenzene	105	9.012	9.017	(0.988)	2785	0.28318	0.283
81 1,3-Dichlorobenzene	146	9.089	9.090	(0.996)	1289	0.28817	0.288
83 p-Isopropyltoluene	119	9.110	9.115	(0.998)	2244	0.28429	0.284
* 82 1,4-Dichlorobenzene-d4	152	9.126	9.131	(1.000)	145488	50.0000	
84 1,4-Dichlorobenzene	146	9.146	9.146	(1.002)	1715	0.36950	0.369(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A03MB.D
Lab Smp Id: 393782
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a020110.b\-8260-c1.m
Misc Info:

Calibration Date: 01-FEB-2010
Calibration Time: 22:56
Client Smp ID: mb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	386353	193177	772706	350256	-9.34
59 Chlorobenzene-d5	284875	142438	569750	308303	8.22
82 1,4-Dichlorobenze	122952	61476	245904	145488	18.33

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.17	3.67	4.67	4.16	-0.13
59 Chlorobenzene-d5	7.39	6.89	7.89	7.39	-0.07
82 1,4-Dichlorobenze	9.13	8.63	9.63	9.13	-0.06

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 393782
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCSfulllist.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a020110.b\-8260-c1.m
Misc Info:

Client SDG: a020110.b
Fraction: VOA
Client Smp ID: mb
Operator: jlf
SampleType: BLANK
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	52.0	103.95	82-122
$ 49 Toluene-d8	50.0	50.0	100.09	80-120
$ 70 4-Bromofluorobenze	50.0	50.9	101.78	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

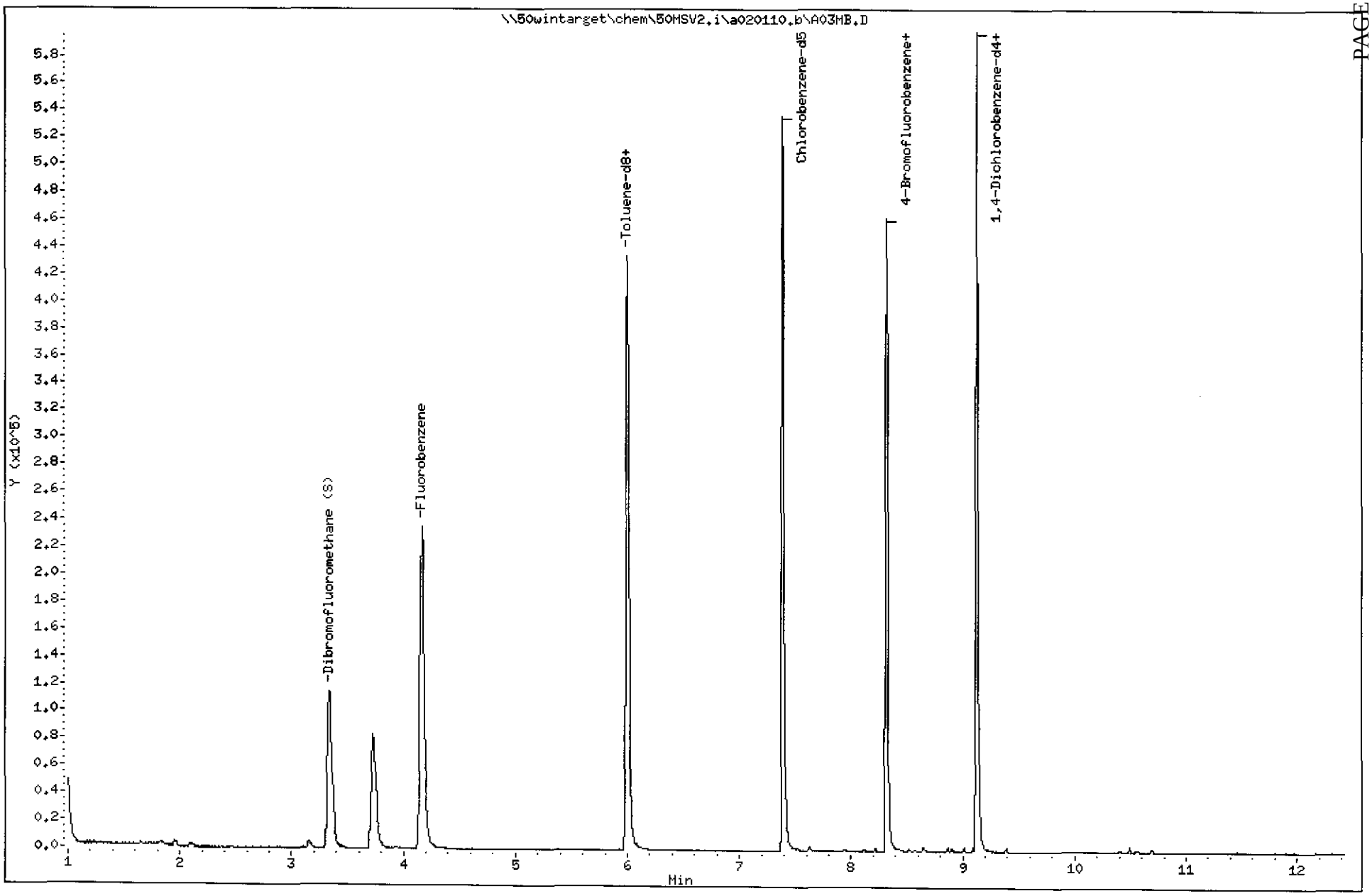
Client Name:
Lab Smp Id: 393782
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a020110.b
Client Smp ID: mb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-15-0	Carbon Disulfide	0.763	
540-84-1	2,2,4-Trimethylpentane	0.229	
108-88-3	Toluene	0.0791	
7816-60-0	m&p-Xylene	0.222	
98-82-8	Isopropylbenzene	0.143	
628-63-7	n-amyl acetate	18.4	
103-65-1	n-Propylbenzene	0.151	
108-67-8	1,3,5-Trimethylbenzene	0.185	
98-06-6	tert-Butylbenzene	0.187	
95-63-6	1,2,4-Trimethylbenzene	0.210	
135-98-8	sec-Butylbenzene	0.283	
541-73-1	1,3-Dichlorobenzene	0.288	
99-87-6	p-Isopropyltoluene	0.284	
106-46-7	1,4-Dichlorobenzene	0.369	
1868-53-7	Dibromofluoromethane (S)	52.0	
2037-26-5	Toluene-d8	50.0	
460-00-4	4-Bromofluorobenzene	50.9	

Data File: \\50wintarget\chem\50MSV2.i\a020110.b\A03MB.D
Date : 01-FEB-2010 11:36
Client ID: mb
Sample Info: mb 34A-001
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a020910.b\A03MB.D
Lab Smp Id: 395904 Client Smp ID: mb
Inj Date : 09-FEB-2010 12:28
Operator : jlf Inst ID: 50MSV2.i
Smp Info : mb 34A-001
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Meth Date : 10-Feb-2010 11:41 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
$ 32 Dibromofluoromethane (S)	113	3.356	3.363	(0.801)	108625	51.0143	51.0
* 40 Fluorobenzene	96	4.188	4.195	(1.000)	347708	50.0000	
$ 49 Toluene-d8	98	6.023	6.024	(0.812)	311067	56.2017	56.2
* 59 Chlorobenzene-d5	117	7.414	7.415	(1.000)	262937	50.0000	
142 n-amyl acetate	70	8.339	8.340	(1.125)	365	8.32320	8.32(Q)
$ 70 4-Bromofluorobenzene	95	8.339	8.340	(1.125)	113660	48.8288	48.8
74 n-Propylbenzene	91	8.535	8.531	(0.933)	2059	0.24042	0.240
77 1,3,5-Trimethylbenzene	105	8.664	8.655	(0.947)	1245	0.19947	0.199
78 tert-Butylbenzene	119	8.887	8.882	(0.972)	1440	0.20032	0.200
79 1,2,4-Trimethylbenzene	105	8.923	8.913	(0.976)	1576	0.25495	0.255
80 sec-Butylbenzene	105	9.031	9.032	(0.988)	2303	0.29365	0.294
81 1,3-Dichlorobenzene	146	9.109	9.100	(0.996)	1084	0.30390	0.304
83 p-Isopropyltoluene	119	9.124	9.125	(0.998)	1834	0.29137	0.291
* 82 1,4-Dichlorobenzene-d4	152	9.145	9.146	(1.000)	116017	50.0000	
84 1,4-Dichlorobenzene	146	9.161	9.162	(1.002)	1607	0.43418	0.434(Q)
89 Hexachlorobutadiene	225	10.509	10.505	(1.149)	630	1.76241	1.76

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A03MB.D
Lab Smp Id: 395904
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Misc Info:

Calibration Date: 09-FEB-2010
Calibration Time: 23:50
Client Smp ID: mb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	335209	167605	670418	347708	3.73
59 Chlorobenzene-d5	251681	125841	503362	262937	4.47
82 1,4-Dichlorobenze	109139	54570	218278	116017	6.30

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.20	3.70	4.70	4.19	-0.15
59 Chlorobenzene-d5	7.42	6.92	7.92	7.41	-0.01
82 1,4-Dichlorobenze	9.15	8.65	9.65	9.15	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 395904
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCSfulllist.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Misc Info:

Client SDG: a020910.b
Fraction: VOA
Client Smp ID: mb
Operator: jlf
SampleType: BLANK
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	51.0	102.03	82-122
$ 49 Toluene-d8	50.0	56.2	112.40	80-120
$ 70 4-Bromofluorobenze	50.0	48.8	97.66	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

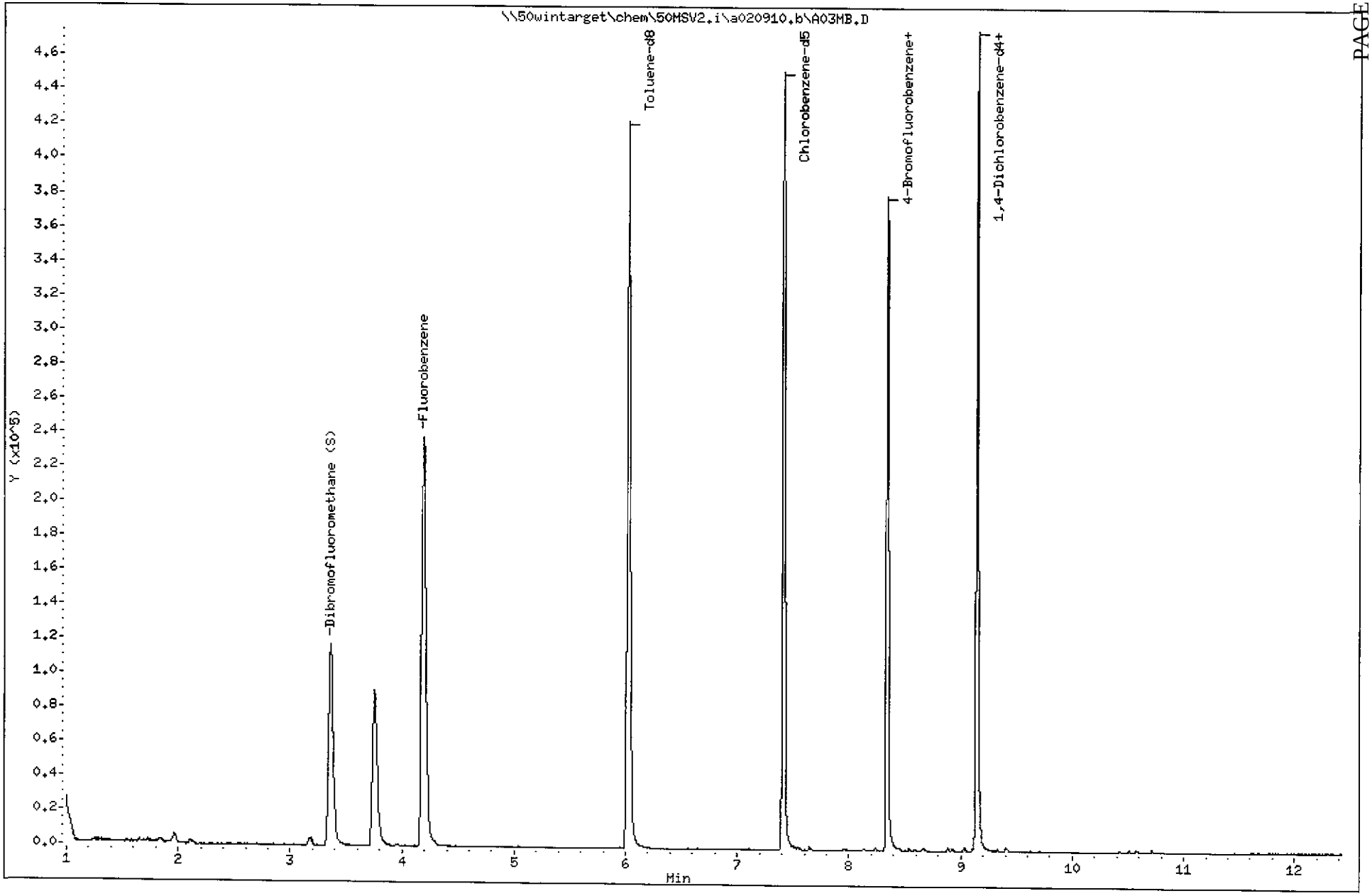
Client Name:
Lab Smp Id: 395904
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a020910.b
Client Smp ID: mb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
628-63-7	n-amyl acetate	8.32	
103-65-1	n-Propylbenzene	0.240	
108-67-8	1,3,5-Trimethylbenzene	0.199	
98-06-6	tert-Butylbenzene	0.200	
95-63-6	1,2,4-Trimethylbenzene	0.255	
135-98-8	sec-Butylbenzene	0.294	
541-73-1	1,3-Dichlorobenzene	0.304	
99-87-6	p-Isopropyltoluene	0.291	
106-46-7	1,4-Dichlorobenzene	0.434	
87-68-3	Hexachlorobutadiene	1.76	
1868-53-7	Dibromofluoromethane (S)	51.0	
2037-26-5	Toluene-d8	56.2	
460-00-4	4-Bromofluorobenzene	48.8	

Data File: \\50wintarget\chem\50MSV2.i\a020910.b\A03MB.D
Date : 09-FEB-2010 12:28
Client ID: mb
Sample Info: mb 34A-001
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a021010.b\A03MB.D
Lab Smp Id: 396177 Client Smp ID: mb
Inj Date : 10-FEB-2010 13:46
Operator : jlf Inst ID: 50MSV2.i
Smp Info : mb 34A-001
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a021010.b\-8260-c1.m
Meth Date : 11-Feb-2010 10:29 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
8 Acrolein	56	1.656	1.651	(0.396)	464	1.79991	1.80
$ 32 Dibromofluoromethane (S)	113	3.356	3.356	(0.802)	117882	50.7063	50.7
* 40 Fluorobenzene	96	4.183	4.178	(1.000)	379632	50.0000	
$ 49 Toluene-d8	98	6.013	6.013	(0.812)	329069	56.3877	56.4
* 59 Chlorobenzene-d5	117	7.403	7.403	(1.000)	277236	50.0000	
62 Ethylbenzene	106	7.537	7.532	(1.018)	226	0.07335	0.0733(Q)
63 m&p-Xylene	106	7.636	7.631	(1.031)	2092	0.53411	0.534
68 Isopropylbenzene	105	8.230	8.225	(1.112)	1676	0.17611	0.176
$ 70 4-Bromofluorobenzene	95	8.333	8.333	(1.126)	119185	48.5615	48.6
74 n-Propylbenzene	91	8.530	8.525	(0.933)	2328	0.25740	0.257
77 1,3,5-Trimethylbenzene	105	8.654	8.649	(0.947)	1657	0.25139	0.251
78 tert-Butylbenzene	119	8.876	8.876	(0.971)	1710	0.22525	0.225
79 1,2,4-Trimethylbenzene	105	8.917	8.907	(0.976)	1888	0.28921	0.289
80 sec-Butylbenzene	105	9.026	9.021	(0.988)	2948	0.35594	0.356
81 1,3-Dichlorobenzene	146	9.104	9.093	(0.996)	1330	0.35308	0.353
83 p-Isopropyltoluene	119	9.124	9.119	(0.998)	2379	0.35789	0.358
* 82 1,4-Dichlorobenzene-d4	152	9.140	9.140	(1.000)	122521	50.0000	
84 1,4-Dichlorobenzene	146	9.150	9.155	(1.001)	1449	0.37071	0.371(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A03MB.D
Lab Smp Id: 396177
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a021010.b\-8260-c1.m
Misc Info:

Calibration Date: 10-FEB-2010
Calibration Time: 12:38
Client Smp ID: mb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	372422	186211	744844	379632	1.94
59 Chlorobenzene-d5	275548	137774	551096	277236	0.61
82 1,4-Dichlorobenze	119629	59815	239258	122521	2.42

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.18	3.68	4.68	4.18	0.12
59 Chlorobenzene-d5	7.40	6.90	7.90	7.40	0.00
82 1,4-Dichlorobenze	9.14	8.64	9.64	9.14	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 396177
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCSfulllist.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a021010.b\-8260-c1.m
Misc Info:

Client SDG: a021010.b
Fraction: VOA
Client Smp ID: mb
Operator: jlf
SampleType: BLANK
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	50.7	101.41	82-122
$ 49 Toluene-d8	50.0	56.4	112.78	80-120
$ 70 4-Bromofluorobenze	50.0	48.6	97.12	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

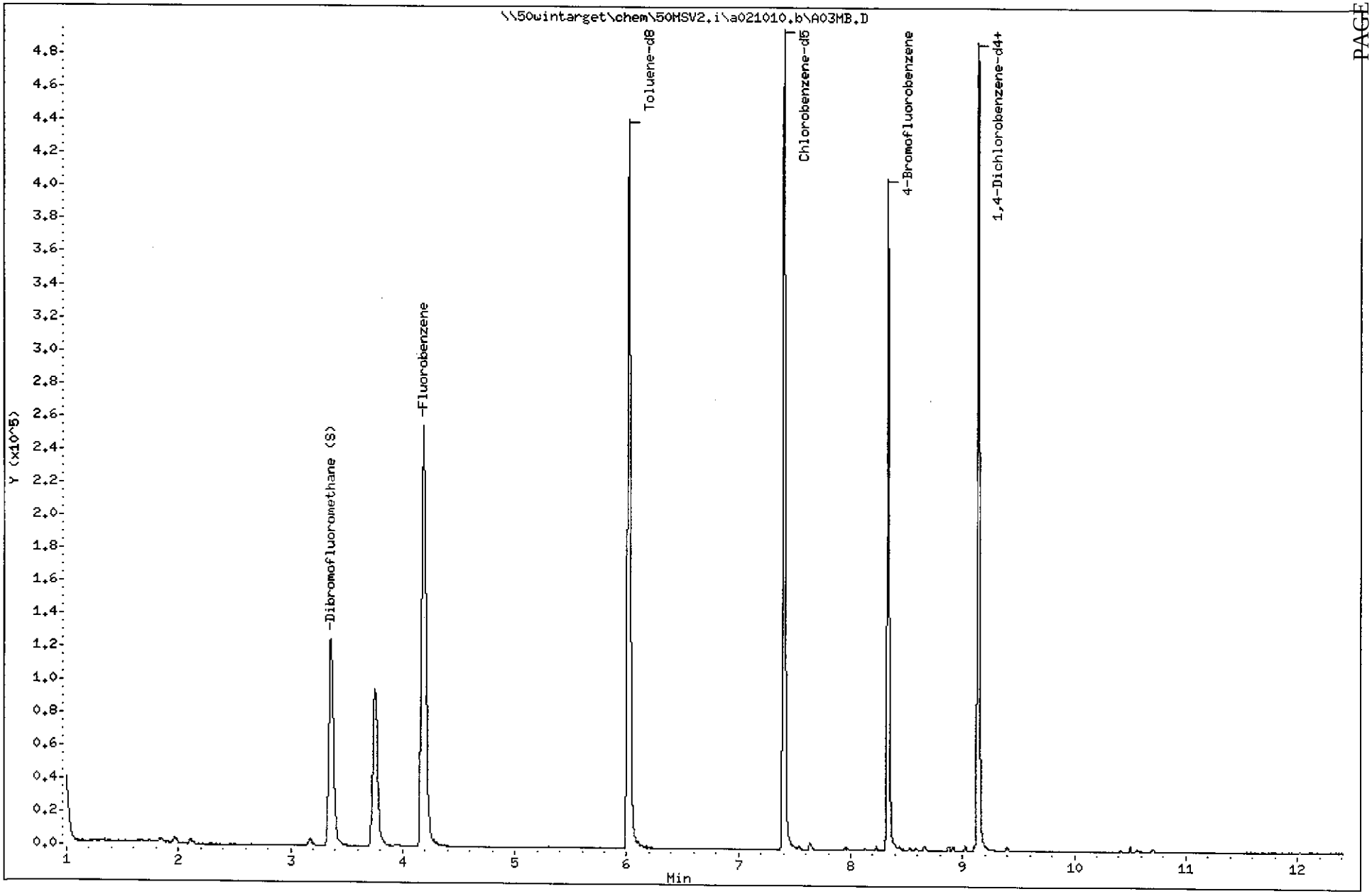
Client Name:
Lab Smp Id: 396177
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a021010.b
Client Smp ID: mb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
107-02-8	Acrolein	1.80	
100-41-4	Ethylbenzene	0.0733	
7816-60-0	m&p-Xylene	0.534	
98-82-8	Isopropylbenzene	0.176	
103-65-1	n-Propylbenzene	0.257	
108-67-8	1,3,5-Trimethylbenzene	0.251	
98-06-6	tert-Butylbenzene	0.225	
95-63-6	1,2,4-Trimethylbenzene	0.289	
135-98-8	sec-Butylbenzene	0.356	
541-73-1	1,3-Dichlorobenzene	0.353	
99-87-6	p-Isopropyltoluene	0.358	
106-46-7	1,4-Dichlorobenzene	0.371	
1868-53-7	Dibromofluoromethane (S)	50.7	
2037-26-5	Toluene-d8	56.4	
460-00-4	4-Bromofluorobenzene	48.6	

Data File: \\50wintarget\chem\50MSV2.i\a021010.b\A03MB.D
Date : 10-FEB-2010 13:46
Client ID: mb
Sample Info: mb 34A-001
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



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VOA 8260B
GC/MS Volatiles

Section 6: Client Sample Data

**** Client Sample Raw Data***
**** Dilutions or Reruns of Client Samples***
(Sample data should be in numerical order by Lab Number)

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a013110.b\A04.D
Lab Smp Id: 5034229001 Client Smp ID: 5034229001
Inj Date : 31-JAN-2010 14:54
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 5034229001-lvl4
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Meth Date : 01-Feb-2010 13:23 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
18 1,2-Dichloroethene (trans)	96	2.126	2.114	(0.510)	37847	15.0148	15.0
25 1,2-Dichloroethene (cis)	96	2.865	2.858	(0.688)	374999	132.473	132
$ 32 Dibromofluoromethane (S)	113	3.340	3.334	(0.802)	114118	50.5776	50.6
* 40 Fluorobenzene	96	4.167	4.161	(1.000)	368445	50.0000	
41 Trichloroethene	95	4.617	4.611	(1.108)	820779	335.073	335
$ 49 Toluene-d8	98	6.002	5.996	(0.812)	335801	49.9335	49.9
* 59 Chlorobenzene-d5	117	7.392	7.391	(1.000)	319475	50.0000	
$ 70 4-Bromofluorobenzene	95	8.323	8.322	(1.126)	144607	51.1296	51.1
81 1,3-Dichlorobenzene	146	9.093	9.081	(0.996)	494	0.10768	0.108(Q)
* 82 1,4-Dichlorobenzene-d4	152	9.129	9.128	(1.000)	149213	50.0000	
84 1,4-Dichlorobenzene	146	9.145	9.143	(1.002)	707	0.14852	0.148(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A04.D
Lab Smp Id: 5034229001
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

Calibration Date: 31-JAN-2010
Calibration Time: 13:12
Client Smp ID: 5034229001
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	366735	183368	733470	368445	0.47
59 Chlorobenzene-d5	322201	161101	644402	319475	-0.85
82 1,4-Dichlorobenze	147283	73642	294566	149213	1.31

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.16	3.66	4.66	4.17	0.16
59 Chlorobenzene-d5	7.39	6.89	7.89	7.39	0.02
82 1,4-Dichlorobenze	9.13	8.63	9.63	9.13	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Client SDG: a013110.b
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: 5034229001
Client Smp ID: 5034229001
Level: LOW
Operator: jlf
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: 8260LCSfulllist.spk
Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	50.6	101.16	82-122
$ 49 Toluene-d8	50.0	49.9	99.87	80-120
$ 70 4-Bromofluorobenze	50.0	51.1	102.26	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

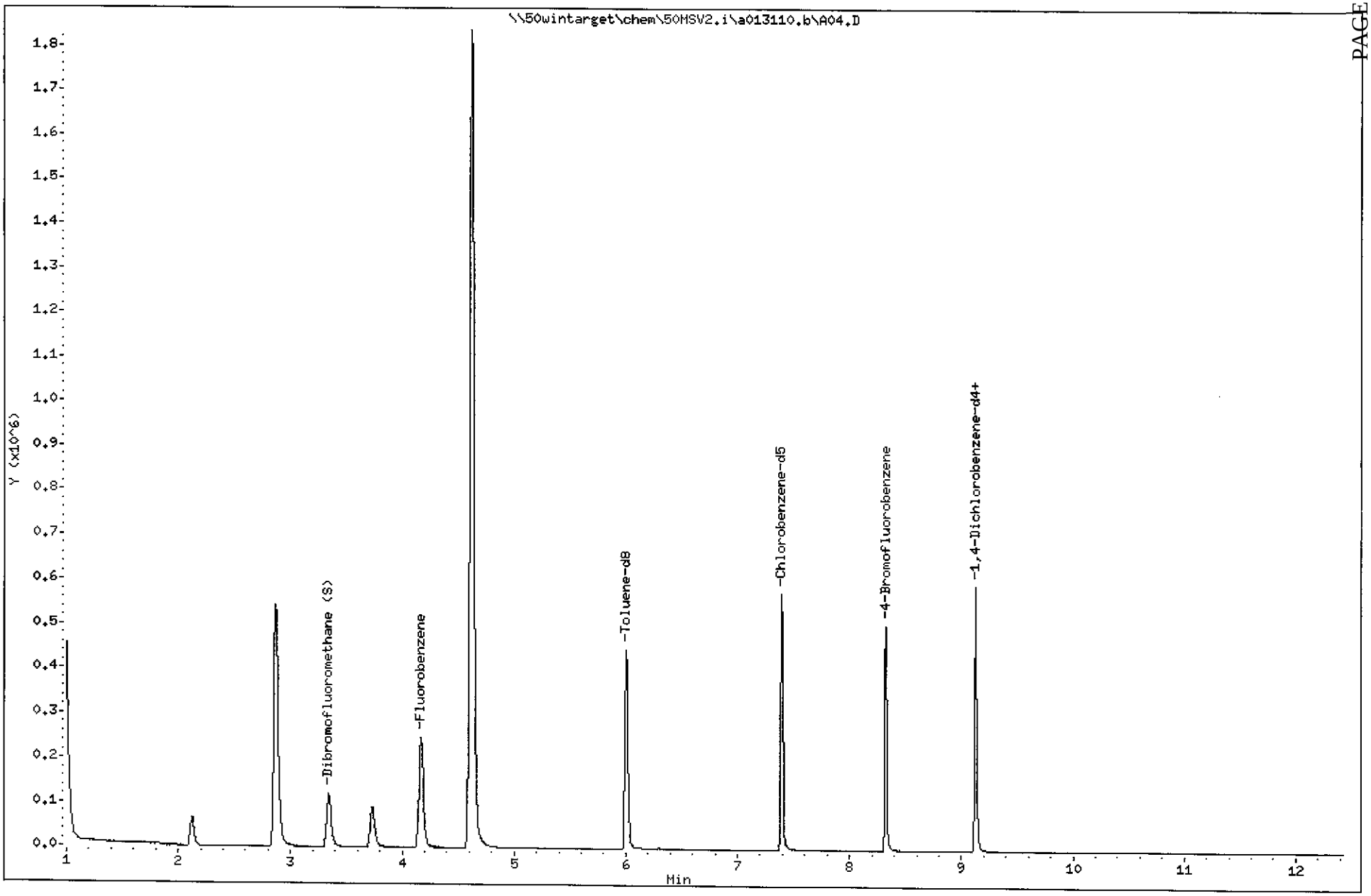
Client Name:
Lab Smp Id: 5034229001
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a013110.b
Client Smp ID: 5034229001
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
156-60-5	1,2-Dichloroethene (trans)	15.0	
156-59-2	1,2-Dichloroethene (cis)	132	
79-01-6	Trichloroethene	335	
541-73-1	1,3-Dichlorobenzene	0.108	
106-46-7	1,4-Dichlorobenzene	0.148	
1868-53-7	Dibromofluoromethane (S)	50.6	
2037-26-5	Toluene-d8	49.9	
460-00-4	4-Bromofluorobenzene	51.1	

Data File: \\50wintarget\chem\50MSV2.i\a013110.b\A04.D
Date : 31-JAN-2010 14:54
Client ID: 5034229001
Sample Info: 5034229001-lvl4
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a020110.b\A15.D
Lab Smp Id: 5034229001 Client Smp ID: 5034229001
Inj Date : 01-FEB-2010 18:24
Operator : jlf Inst ID: 50MSV2.i
Smp Info : r5034229001,5
Misc Info : 21429
Comment :
Method : \\50wintarget\chem\50MSV2.i\a020110.b\-8260-c1.m
Meth Date : 02-Feb-2010 13:22 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 31
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
25 1,2-Dichloroethene (cis)	96	2.876	2.867	(0.689)	40712	11.3208	56.6
$ 32 Dibromofluoromethane (S)	113	3.347	3.342	(0.802)	124262	50.7619	50.8
* 40 Fluorobenzene	96	4.174	4.169	(1.000)	399740	50.0000	
41 Trichloroethene	95	4.628	4.619	(1.109)	55332	18.9478	94.7
$ 49 Toluene-d8	98	6.008	6.004	(0.812)	361038	57.7557	57.8
* 59 Chlorobenzene-d5	117	7.399	7.394	(1.000)	296965	50.0000	
$ 70 4-Bromofluorobenzene	95	8.329	8.325	(1.126)	128529	48.8895	48.9
* 82 1,4-Dichlorobenzene-d4	152	9.135	9.131	(1.000)	128941	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A15.D
Lab Smp Id: 5034229001
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a020110.b\-8260-c1.m
Misc Info: 21429

Calibration Date: 01-FEB-2010
Calibration Time: 22:56
Client Smp ID: 5034229001
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	386353	193177	772706	399740	3.46
59 Chlorobenzene-d5	284875	142438	569750	296965	4.24
82 1,4-Dichlorobenze	122952	61476	245904	128941	4.87

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.17	3.67	4.67	4.17	0.10
59 Chlorobenzene-d5	7.39	6.89	7.89	7.40	0.06
82 1,4-Dichlorobenze	9.13	8.63	9.63	9.14	0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5034229001
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCSfulllist.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a020110.b\-8260-c1.m
Misc Info: 21429

Client SDG: a020110.b
Fraction: VOA
Client Smp ID: 5034229001
Operator: jlf
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	50.8	101.52	82-122
$ 49 Toluene-d8	50.0	57.8	115.51	80-120
$ 70 4-Bromofluorobenze	50.0	48.9	97.78	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

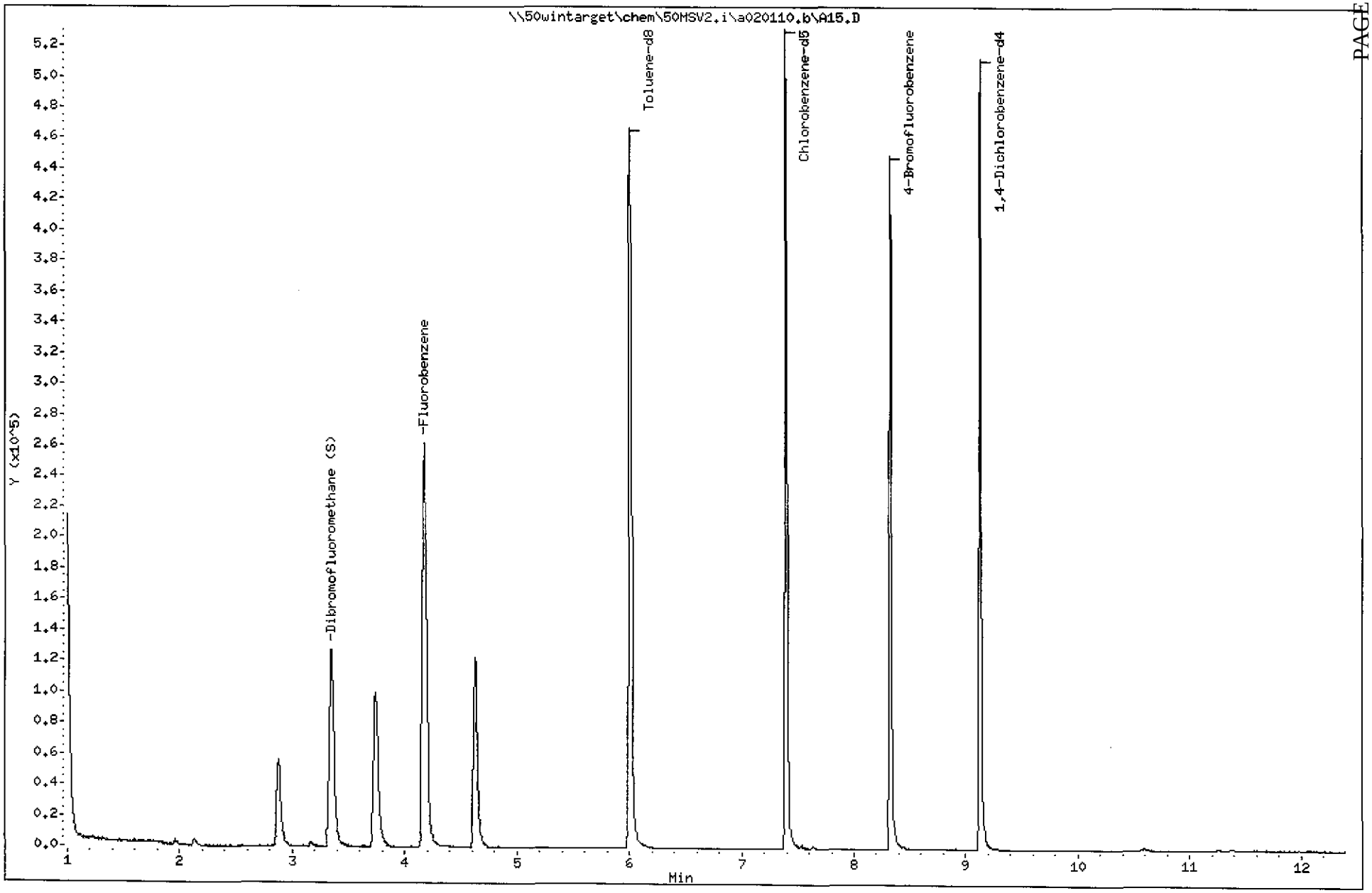
Client Name:
Lab Smp Id: 5034229001
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 21429

Client SDG: a020110.b
Client Smp ID: 5034229001
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
156-59-2	1,2-Dichloroethene (cis)	56.6	
79-01-6	Trichloroethene	94.7	
1868-53-7	Dibromofluoromethane (S)	50.8	
2037-26-5	Toluene-d8	57.8	
460-00-4	4-Bromofluorobenzene	48.9	

Data File: \\50wintarget\chem\50MSV2.i\a020110.b\A15.D
Date : 01-FEB-2010 18:24
Client ID: 5034229001
Sample Info: r5034229001,5
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a020110.b\A05.D
Lab Smp Id: 5034229002 Client Smp ID: 5034229002
Inj Date : 01-FEB-2010 12:44
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 5034229002
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a020110.b\-8260-c1.m
Meth Date : 02-Feb-2010 13:22 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
18 1,2-Dichloroethene (trans)	96	2.119	2.122	(0.509)	34099	13.6157	13.6
25 1,2-Dichloroethene (cis)	96	2.869	2.867	(0.689)	273601	97.7855	97.8
$ 32 Dibromofluoromethane (S)	113	3.339	3.342	(0.801)	112201	50.5957	50.6
* 40 Fluorobenzene	96	4.166	4.169	(1.000)	362126	50.0000	
41 Trichloroethene	95	4.615	4.619	(1.108)	715834	297.105	297
$ 49 Toluene-d8	98	6.001	6.004	(0.811)	329987	49.9672	50.0
* 59 Chlorobenzene-d5	117	7.396	7.394	(1.000)	313732	50.0000	
$ 70 4-Bromofluorobenzene	95	8.326	8.325	(1.126)	141345	50.8910	50.9
* 82 1,4-Dichlorobenzene-d4	152	9.128	9.131	(1.000)	144644	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A05.D
Lab Smp Id: 5034229002
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a020110.b\-8260-c1.m
Misc Info:

Calibration Date: 01-FEB-2010
Calibration Time: 22:56
Client Smp ID: 5034229002
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	386353	193177	772706	362126	-6.27
59 Chlorobenzene-d5	284875	142438	569750	313732	10.13
82 1,4-Dichlorobenze	122952	61476	245904	144644	17.64

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.17	3.67	4.67	4.17	-0.08
59 Chlorobenzene-d5	7.39	6.89	7.89	7.40	0.02
82 1,4-Dichlorobenze	9.13	8.63	9.63	9.13	-0.04

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5034229002
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCSfulllist.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a020110.b\-8260-c1.m
Misc Info:

Client SDG: a020110.b
Fraction: VOA
Client Smp ID: 5034229002
Operator: jlf
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	50.6	101.19	82-122
$ 49 Toluene-d8	50.0	50.0	99.93	80-120
$ 70 4-Bromofluorobenze	50.0	50.9	101.78	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

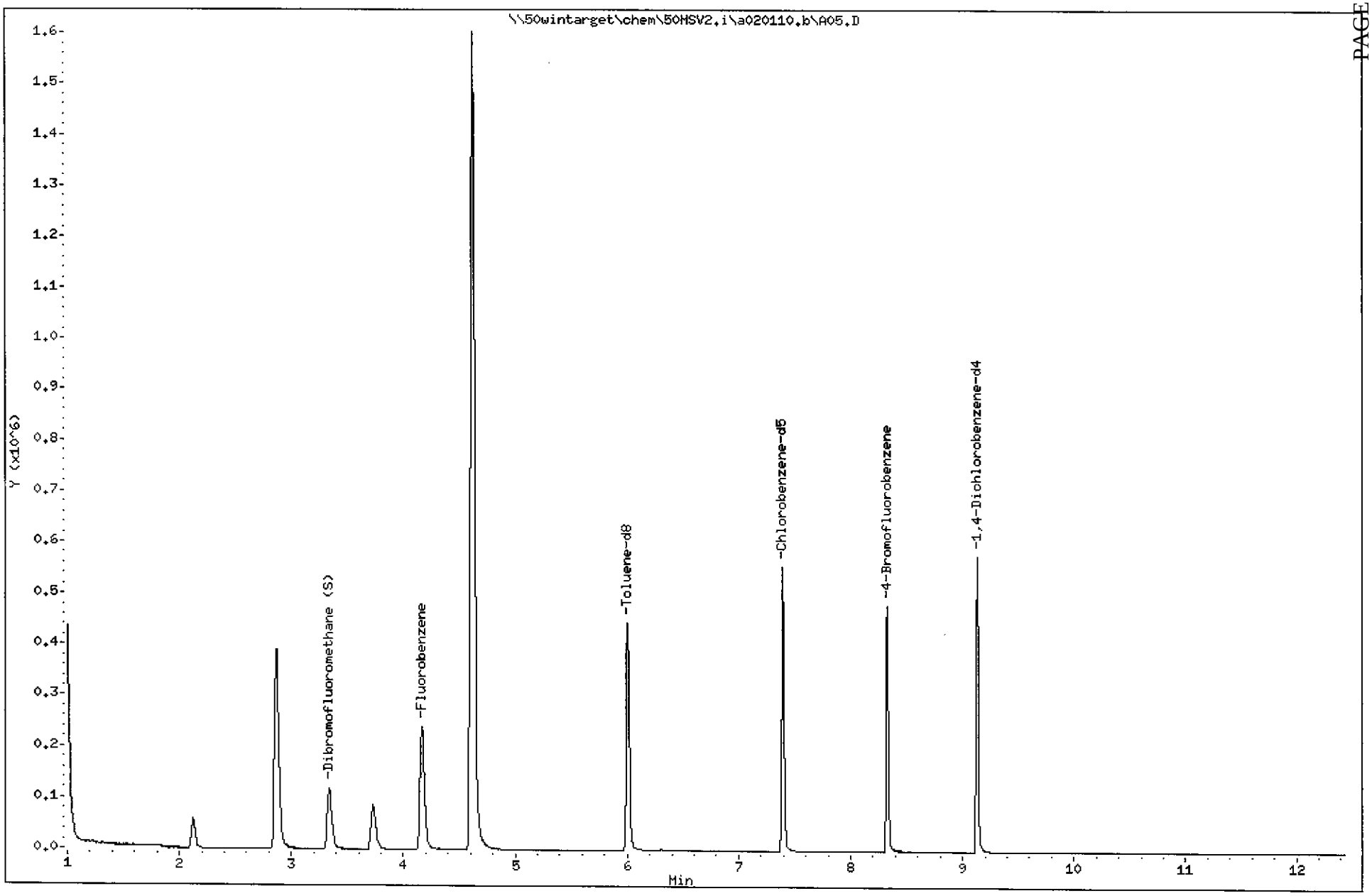
Client Name:
Lab Smp Id: 5034229002
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a020110.b
Client Smp ID: 5034229002
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
156-60-5	1,2-Dichloroethene (trans)	13.6	
156-59-2	1,2-Dichloroethene (cis)	97.8	
79-01-6	Trichloroethene	297	
1868-53-7	Dibromofluoromethane (S)	50.6	
2037-26-5	Toluene-d8	50.0	
460-00-4	4-Bromofluorobenzene	50.9	

Data File: \\50wintarget\chem\50MSV2.i\a020110.b\A05.D
Date : 01-FEB-2010 12:44
Client ID: 5034229002
Sample Info: 5034229002
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a020110.b\A06.D
Lab Smp Id: 5034229003 Client Smp ID: 5034229003
Inj Date : 01-FEB-2010 13:18
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 5034229003
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a020110.b\-8260-c1.m
Meth Date : 02-Feb-2010 13:22 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
25 1,2-Dichloroethene (cis)	96	2.871	2.867	(0.689)	18300	4.63756	4.64
$ 32 Dibromofluoromethane (S)	113	3.336	3.342	(0.800)	113698	52.0669	52.1
* 40 Fluorobenzene	96	4.168	4.169	(1.000)	356589	50.0000	
41 Trichloroethene	95	4.618	4.619	(1.108)	192126	79.5272	79.5
$ 49 Toluene-d8	98	6.003	6.004	(0.812)	327526	51.0772	51.1
* 59 Chlorobenzene-d5	117	7.393	7.394	(1.000)	304625	50.0000	
$ 70 4-Bromofluorobenzene	95	8.324	8.325	(1.126)	136159	50.4894	50.5
* 82 1,4-Dichlorobenzene-d4	152	9.130	9.131	(1.000)	138797	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A06.D
Lab Smp Id: 5034229003
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a020110.b\-8260-c1.m
Misc Info:

Calibration Date: 01-FEB-2010
Calibration Time: 22:56
Client Smp ID: 5034229003
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	386353	193177	772706	356589	-7.70
59 Chlorobenzene-d5	284875	142438	569750	304625	6.93
82 1,4-Dichlorobenze	122952	61476	245904	138797	12.89

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.17	3.67	4.67	4.17	-0.03
59 Chlorobenzene-d5	7.39	6.89	7.89	7.39	-0.02
82 1,4-Dichlorobenze	9.13	8.63	9.63	9.13	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5034229003
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCSfulllist.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a020110.b\-8260-c1.m
Misc Info:

Client SDG: a020110.b
Fraction: VOA
Client Smp ID: 5034229003
Operator: jlf
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	52.1	104.13	82-122
$ 49 Toluene-d8	50.0	51.1	102.15	80-120
$ 70 4-Bromofluorobenze	50.0	50.5	100.98	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 5034229003
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

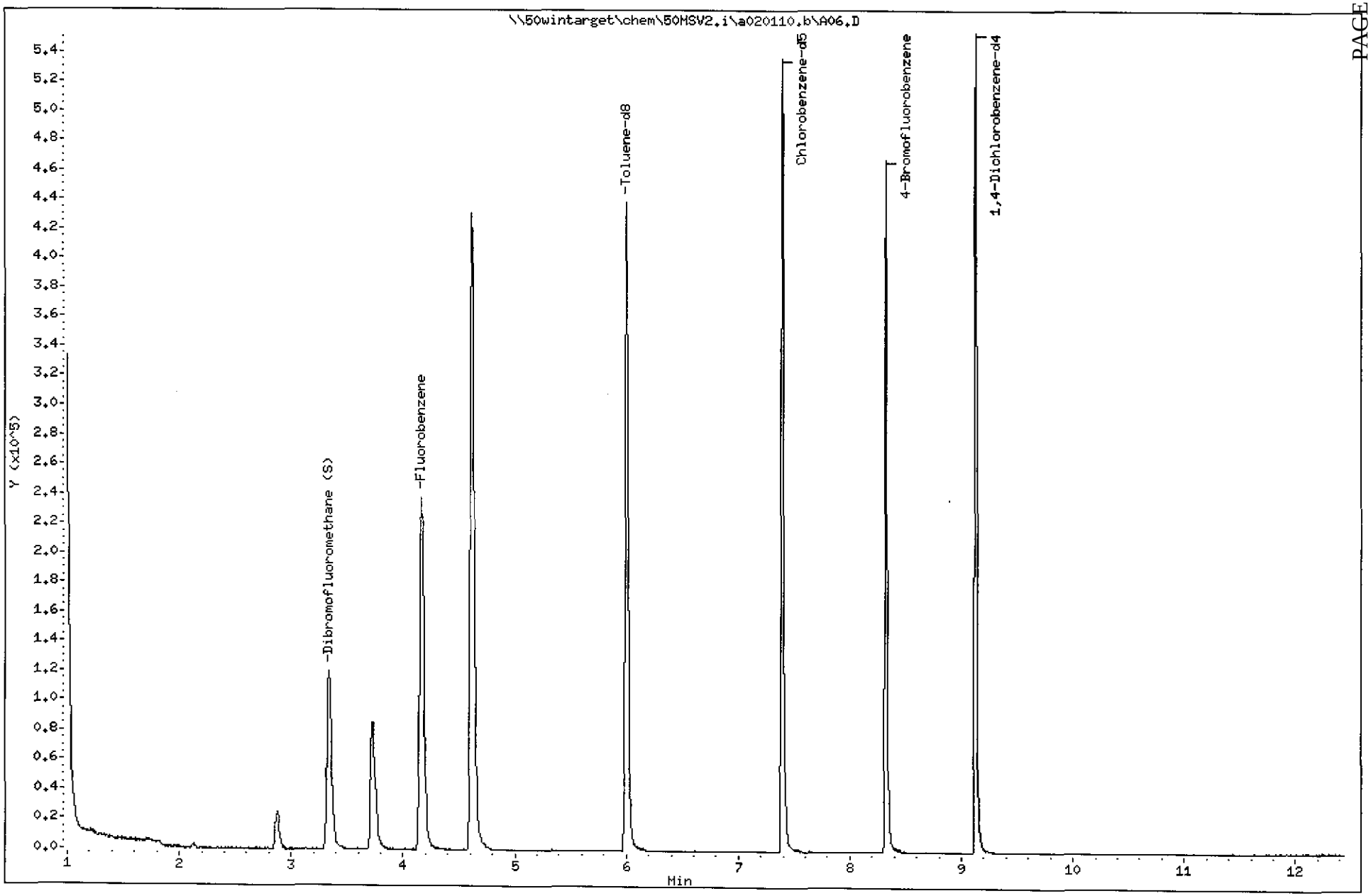
Client SDG: a020110.b
Client Smp ID: 5034229003
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
156-59-2	1,2-Dichloroethene (cis)	4.64	
79-01-6	Trichloroethene	79.5	
1868-53-7	Dibromofluoromethane (S)	52.1	
2037-26-5	Toluene-d8	51.1	
460-00-4	4-Bromofluorobenzene	50.5	

Data File: \\50wintarget\chem\50MSV2.i\a020110.b\A06.D
Date : 01-FEB-2010 13:18
Client ID: 5034229003
Sample Info: 5034229003
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i

Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a013110.b\A07.D
Lab Smp Id: 5034229004 Client Smp ID: 5034229004
Inj Date : 31-JAN-2010 16:36
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 5034229004
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Meth Date : 01-Feb-2010 13:23 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
25 1,2-Dichloroethene (cis)	96	2.867	2.858	(0.688)	19025	4.73655	4.74
$ 32 Dibromofluoromethane (S)	113	3.337	3.334	(0.800)	117088	52.3281	52.3
* 40 Fluorobenzene	96	4.169	4.161	(1.000)	365388	50.0000	
41 Trichloroethene	95	4.619	4.611	(1.108)	190229	76.7785	76.8
$ 49 Toluene-d8	98	6.004	5.996	(0.812)	335609	49.5315	49.5
50 Toluene	91	6.071	6.068	(0.821)	435	0.04418	0.0442
* 59 Chlorobenzene-d5	117	7.394	7.391	(1.000)	321884	50.0000	
142 n-amyl acetate	70	8.324	8.316	(1.126)	881	16.4106	16.4(Q)
$ 70 4-Bromofluorobenzene	95	8.324	8.322	(1.126)	145068	50.9087	50.9
74 n-Propylbenzene	91	8.526	8.513	(0.934)	1740	0.15861	0.159
77 1,3,5-Trimethylbenzene	105	8.645	8.637	(0.947)	1624	0.20313	0.203
78 tert-Butylbenzene	119	8.867	8.864	(0.971)	1497	0.16258	0.162
79 1,2,4-Trimethylbenzene	105	8.903	8.895	(0.975)	1569	0.19816	0.198
80 sec-Butylbenzene	105	9.012	9.009	(0.987)	2910	0.28968	0.290
81 1,3-Dichlorobenzene	146	9.095	9.081	(0.996)	1314	0.28759	0.288
83 p-Isopropyltoluene	119	9.110	9.107	(0.998)	2448	0.30363	0.304
* 82 1,4-Dichlorobenzene-d4	152	9.131	9.128	(1.000)	148608	50.0000	
84 1,4-Dichlorobenzene	146	9.146	9.143	(1.002)	1439	0.30352	0.304(Q)
89 Hexachlorobutadiene	225	10.485	10.487	(1.148)	183	1.15105	1.15(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A07.D
Lab Smp Id: 5034229004
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

Calibration Date: 31-JAN-2010
Calibration Time: 13:12
Client Smp ID: 5034229004
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	366735	183368	733470	365388	-0.37
59 Chlorobenzene-d5	322201	161101	644402	321884	-0.10
82 1,4-Dichlorobenze	147283	73642	294566	148608	0.90

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.16	3.66	4.66	4.17	0.20
59 Chlorobenzene-d5	7.39	6.89	7.89	7.39	0.04
82 1,4-Dichlorobenze	9.13	8.63	9.63	9.13	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Client SDG: a013110.b
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: 5034229004
Client Smp ID: 5034229004
Level: LOW
Operator: jlf
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: 8260LCSfulllist.spk
Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	52.3	104.66	82-122
$ 49 Toluene-d8	50.0	49.5	99.06	80-120
$ 70 4-Bromofluorobenze	50.0	50.9	101.82	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

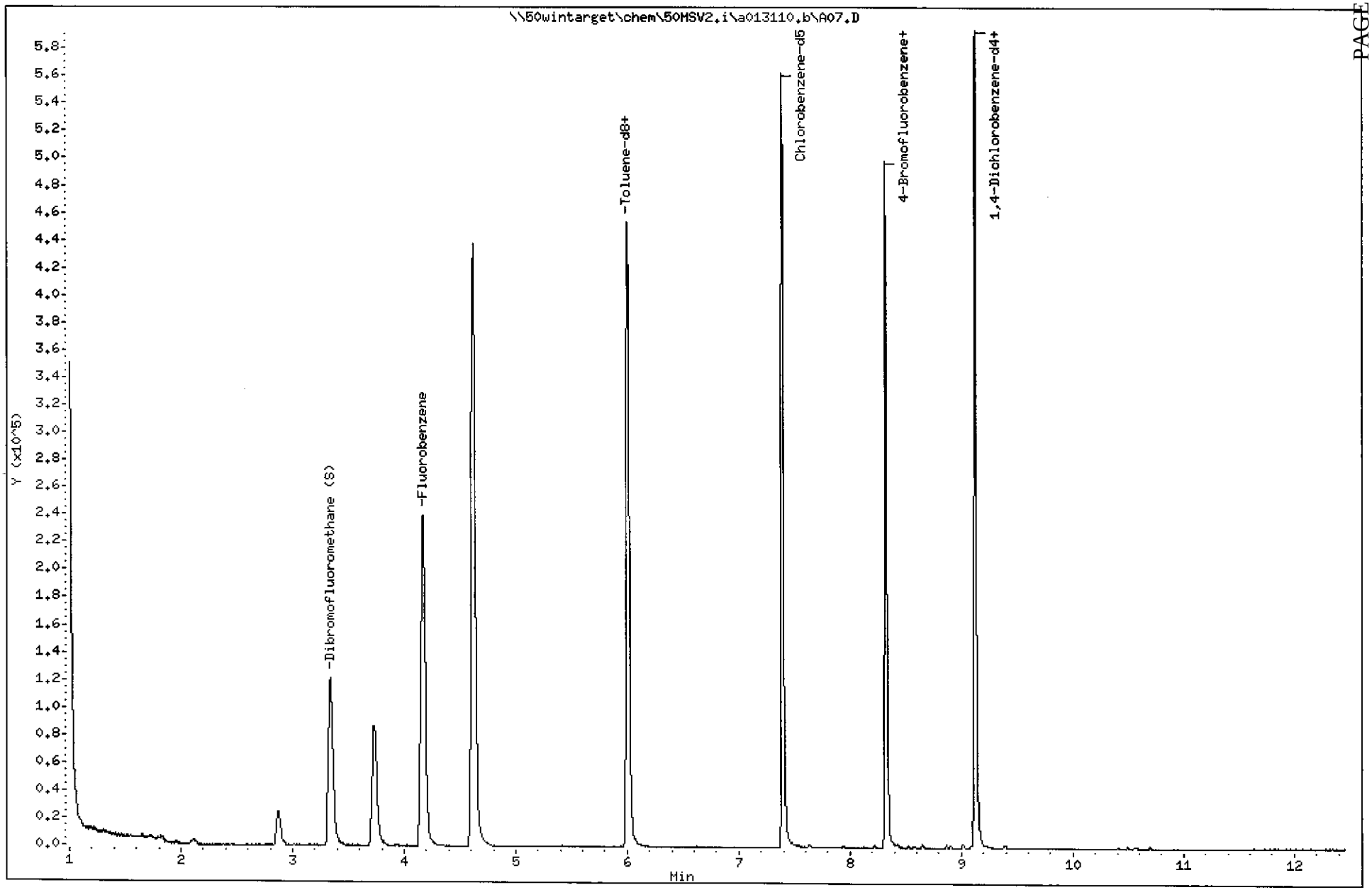
Client Name:
Lab Smp Id: 5034229004
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a013110.b
Client Smp ID: 5034229004
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
156-59-2	1,2-Dichloroethene (cis)	4.74	
79-01-6	Trichloroethene	76.8	
108-88-3	Toluene	0.0442	
628-63-7	n-amyl acetate	16.4	
103-65-1	n-Propylbenzene	0.159	
108-67-8	1,3,5-Trimethylbenzene	0.203	
98-06-6	tert-Butylbenzene	0.162	
95-63-6	1,2,4-Trimethylbenzene	0.198	
135-98-8	sec-Butylbenzene	0.290	
541-73-1	1,3-Dichlorobenzene	0.288	
99-87-6	p-Isopropyltoluene	0.304	
106-46-7	1,4-Dichlorobenzene	0.304	
87-68-3	Hexachlorobutadiene	1.15	
1868-53-7	Dibromofluoromethane (S)	52.3	
2037-26-5	Toluene-d8	49.5	
460-00-4	4-Bromofluorobenzene	50.9	

Data File: \\50wintarget\chem\50MSV2.i\a013110.b\A07.D
Date : 31-JAN-2010 16:36
Client ID: 5034229004
Sample Info: 5034229004
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a013110.b\A08.D
Lab Smp Id: 5034229005 Client Smp ID: 5034229005
Inj Date : 31-JAN-2010 17:10
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 5034229005
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Meth Date : 01-Feb-2010 13:23 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
18 1,2-Dichloroethene (trans)	96	2.122	2.114	(0.509)	75063	31.2555	31.2
21 1,1-Dichloroethane	63	2.401	2.393	(0.576)	16511	3.63757	3.64
25 1,2-Dichloroethene (cis)	96	2.866	2.858	(0.688)	921519	325.949	326
$ 32 Dibromofluoromethane (S)	113	3.342	3.334	(0.802)	115492	50.7652	50.8
* 40 Fluorobenzene	96	4.169	4.161	(1.000)	371503	50.0000	
41 Trichloroethene	95	4.618	4.611	(1.108)	499365	201.390	201
$ 49 Toluene-d8	98	6.003	5.996	(0.812)	341097	49.9487	49.9
50 Toluene	91	6.076	6.068	(0.822)	2029	0.20448	0.204
* 59 Chlorobenzene-d5	117	7.394	7.391	(1.000)	324415	50.0000	
$ 70 4-Bromofluorobenzene	95	8.324	8.322	(1.126)	149608	52.0923	52.1
81 1,3-Dichlorobenzene	146	9.146	9.081	(1.002)	876	0.18999	0.190(Q)
* 82 1,4-Dichlorobenzene-d4	152	9.130	9.128	(1.000)	149969	50.0000	
84 1,4-Dichlorobenzene	146	9.146	9.143	(1.002)	876	0.18309	0.183(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A08.D
Lab Smp Id: 5034229005
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

Calibration Date: 31-JAN-2010
Calibration Time: 13:12
Client Smp ID: 5034229005
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	366735	183368	733470	371503	1.30
59 Chlorobenzene-d5	322201	161101	644402	324415	0.69
82 1,4-Dichlorobenze	147283	73642	294566	149969	1.82

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.16	3.66	4.66	4.17	0.19
59 Chlorobenzene-d5	7.39	6.89	7.89	7.39	0.04
82 1,4-Dichlorobenze	9.13	8.63	9.63	9.13	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5034229005
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCSfulllist.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

Client SDG: a013110.b
Fraction: VOA
Client Smp ID: 5034229005
Operator: jlf
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	50.8	101.53	82-122
$ 49 Toluene-d8	50.0	49.9	99.90	80-120
$ 70 4-Bromofluorobenze	50.0	52.1	104.18	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

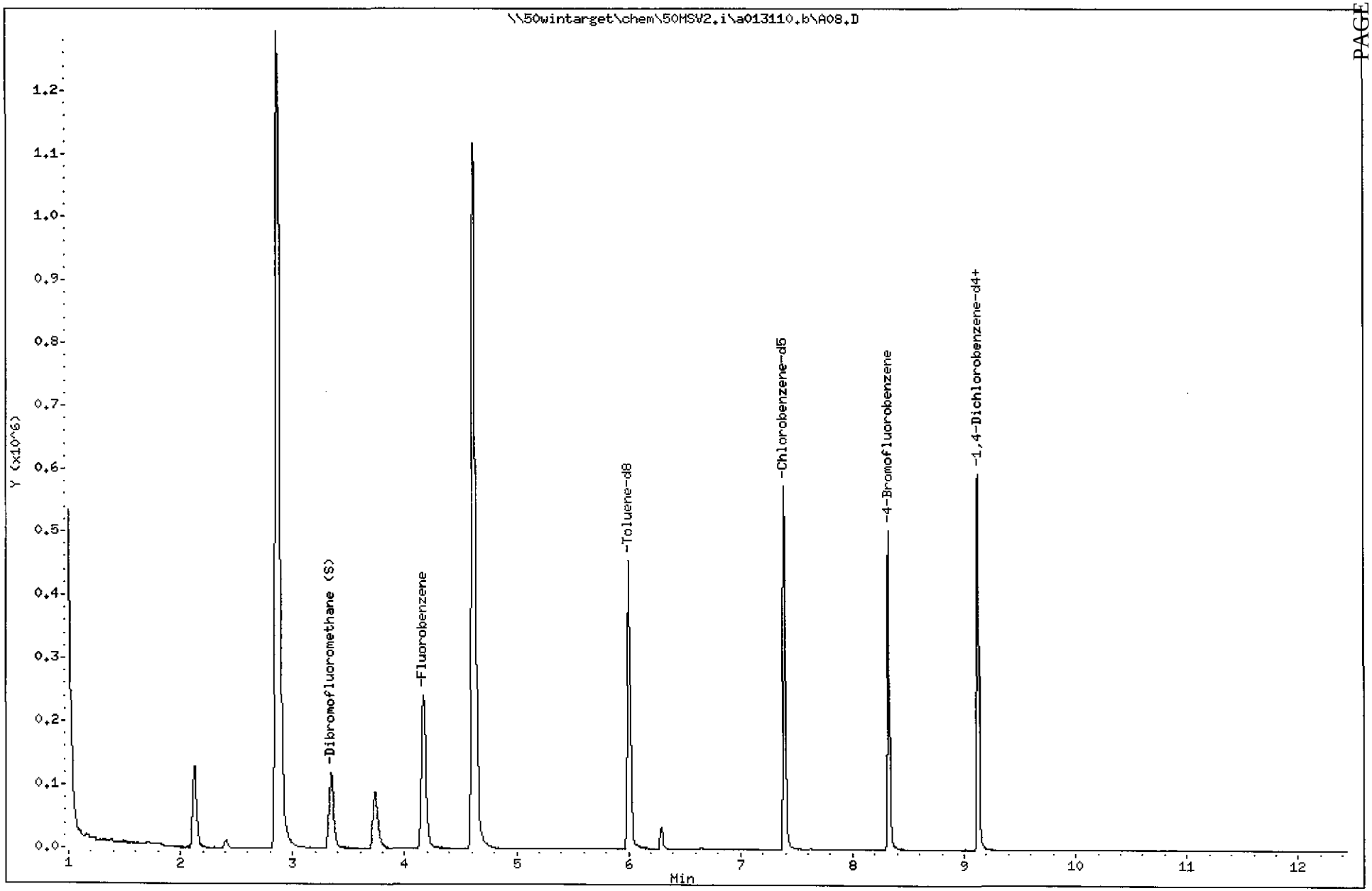
Client Name:
Lab Smp Id: 5034229005
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a013110.b
Client Smp ID: 5034229005
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
156-60-5	1,2-Dichloroethene (trans)	31.2	
75-34-3	1,1-Dichloroethane	3.64	
156-59-2	1,2-Dichloroethene (cis)	326	
79-01-6	Trichloroethene	201	
108-88-3	Toluene	0.204	
541-73-1	1,3-Dichlorobenzene	0.190	
106-46-7	1,4-Dichlorobenzene	0.183	
1868-53-7	Dibromofluoromethane (S)	50.8	
2037-26-5	Toluene-d8	49.9	
460-00-4	4-Bromofluorobenzene	52.1	

Data File: \\50wintarget\chem\50MSV2.i\a013110.b\A08.D
Date : 31-JAN-2010 17:10
Client ID: 5034229005
Sample Info: 5034229005
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a020110.b\A16.D
Lab Smp Id: 5034229005 Client Smp ID: 5034229005
Inj Date : 01-FEB-2010 18:57
Operator : jlf Inst ID: 50MSV2.i
Smp Info : r5034229005,5
Misc Info : 21429
Comment :
Method : \\50wintarget\chem\50MSV2.i\a020110.b\-8260-c1.m
Meth Date : 02-Feb-2010 13:22 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 33
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
18 1,2-Dichloroethene (trans)	96	2.132	2.122	(0.511)	6842	1.10423	5.52
25 1,2-Dichloroethene (cis)	96	2.876	2.867	(0.689)	118016	38.0972	190
$ 32 Dibromofluoromethane (S)	113	3.346	3.342	(0.802)	119505	50.3152	50.3
* 40 Fluorobenzene	96	4.173	4.169	(1.000)	387850	50.0000	
41 Trichloroethene	95	4.628	4.619	(1.109)	50121	17.5569	87.8
$ 49 Toluene-d8	98	6.008	6.004	(0.812)	349577	57.6745	57.7
* 59 Chlorobenzene-d5	117	7.398	7.394	(1.000)	287943	50.0000	
$ 70 4-Bromofluorobenzene	95	8.329	8.325	(1.126)	124615	48.8859	48.9
* 82 1,4-Dichlorobenzene-d4	152	9.130	9.131	(1.000)	123730	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A16.D
Lab Smp Id: 5034229005
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a020110.b\-8260-c1.m
Misc Info: 21429

Calibration Date: 01-FEB-2010
Calibration Time: 22:56
Client Smp ID: 5034229005
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	386353	193177	772706	387850	0.39
59 Chlorobenzene-d5	284875	142438	569750	287943	1.08
82 1,4-Dichlorobenze	122952	61476	245904	123730	0.63

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.17	3.67	4.67	4.17	0.10
59 Chlorobenzene-d5	7.39	6.89	7.89	7.40	0.05
82 1,4-Dichlorobenze	9.13	8.63	9.63	9.13	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5034229005
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCSfulllist.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a020110.b\-8260-c1.m
Misc Info: 21429

Client SDG: a020110.b
Fraction: VOA
Client Smp ID: 5034229005
Operator: jlf
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	50.3	100.63	82-122
$ 49 Toluene-d8	50.0	57.7	115.35	80-120
$ 70 4-Bromofluorobenze	50.0	48.9	97.77	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

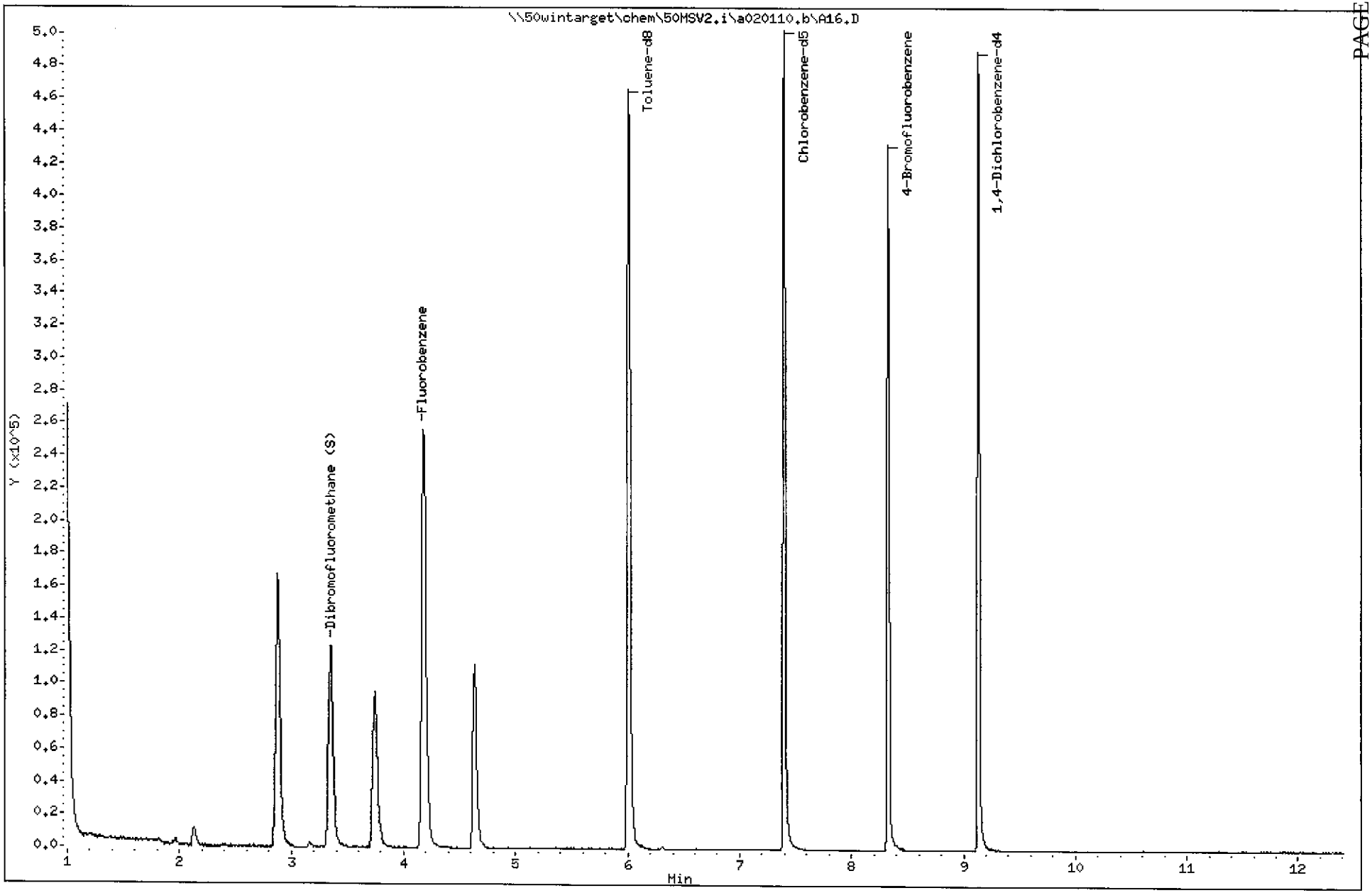
Client Name:
Lab Smp Id: 5034229005
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 21429

Client SDG: a020110.b
Client Smp ID: 5034229005
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
156-60-5	1,2-Dichloroethene (trans)	5.52	
156-59-2	1,2-Dichloroethene (cis)	190	
79-01-6	Trichloroethene	87.8	
1868-53-7	Dibromofluoromethane (S)	50.3	
2037-26-5	Toluene-d8	57.7	
460-00-4	4-Bromofluorobenzene	48.9	

Data File: \\50wintarget\chem\50MSV2.i\a020110.b\A16.D
Date : 01-FEB-2010 18:57
Client ID: 5034229005
Sample Info: r5034229005,5
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a013110.b\A09.D
Lab Smp Id: 5034229006 Client Smp ID: 5034229006
Inj Date : 31-JAN-2010 17:44
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 5034229006
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Meth Date : 01-Feb-2010 13:23 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
18 1,2-Dichloroethene (trans)	96	2.130	2.114	(0.511)	7588	1.58652	1.59
21 1,1-Dichloroethane	63	2.399	2.393	(0.575)	12439	2.76267	2.76
25 1,2-Dichloroethene (cis)	96	2.874	2.858	(0.689)	36287	10.8739	10.9
$ 32 Dibromofluoromethane (S)	113	3.345	3.334	(0.802)	117172	51.9210	51.9
* 40 Fluorobenzene	96	4.172	4.161	(1.000)	368517	50.0000	
41 Trichloroethene	95	4.616	4.611	(1.107)	239304	96.2593	96.2
$ 49 Toluene-d8	98	6.007	5.996	(0.812)	337635	49.3967	49.4
* 59 Chlorobenzene-d5	117	7.397	7.391	(1.000)	324711	50.0000	
$ 70 4-Bromofluorobenzene	95	8.327	8.322	(1.126)	147592	51.3435	51.3
81 1,3-Dichlorobenzene	146	9.149	9.081	(1.002)	239	0.05223	0.0522(Q)
* 82 1,4-Dichlorobenzene-d4	152	9.134	9.128	(1.000)	148822	50.0000	
84 1,4-Dichlorobenzene	146	9.149	9.143	(1.002)	239	0.05034	0.0503(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A09.D
Lab Smp Id: 5034229006
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

Calibration Date: 31-JAN-2010
Calibration Time: 13:12
Client Smp ID: 5034229006
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	366735	183368	733470	368517	0.49
59 Chlorobenzene-d5	322201	161101	644402	324711	0.78
82 1,4-Dichlorobenze	147283	73642	294566	148822	1.04

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.16	3.66	4.66	4.17	0.26
59 Chlorobenzene-d5	7.39	6.89	7.89	7.40	0.08
82 1,4-Dichlorobenze	9.13	8.63	9.63	9.13	0.06

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Client SDG: a013110.b
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: 5034229006
Client Smp ID: 5034229006
Level: LOW
Operator: jlf
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: 8260LCSfulllist.spk
Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	51.9	103.84	82-122
$ 49 Toluene-d8	50.0	49.4	98.79	80-120
$ 70 4-Bromofluorobenze	50.0	51.3	102.69	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

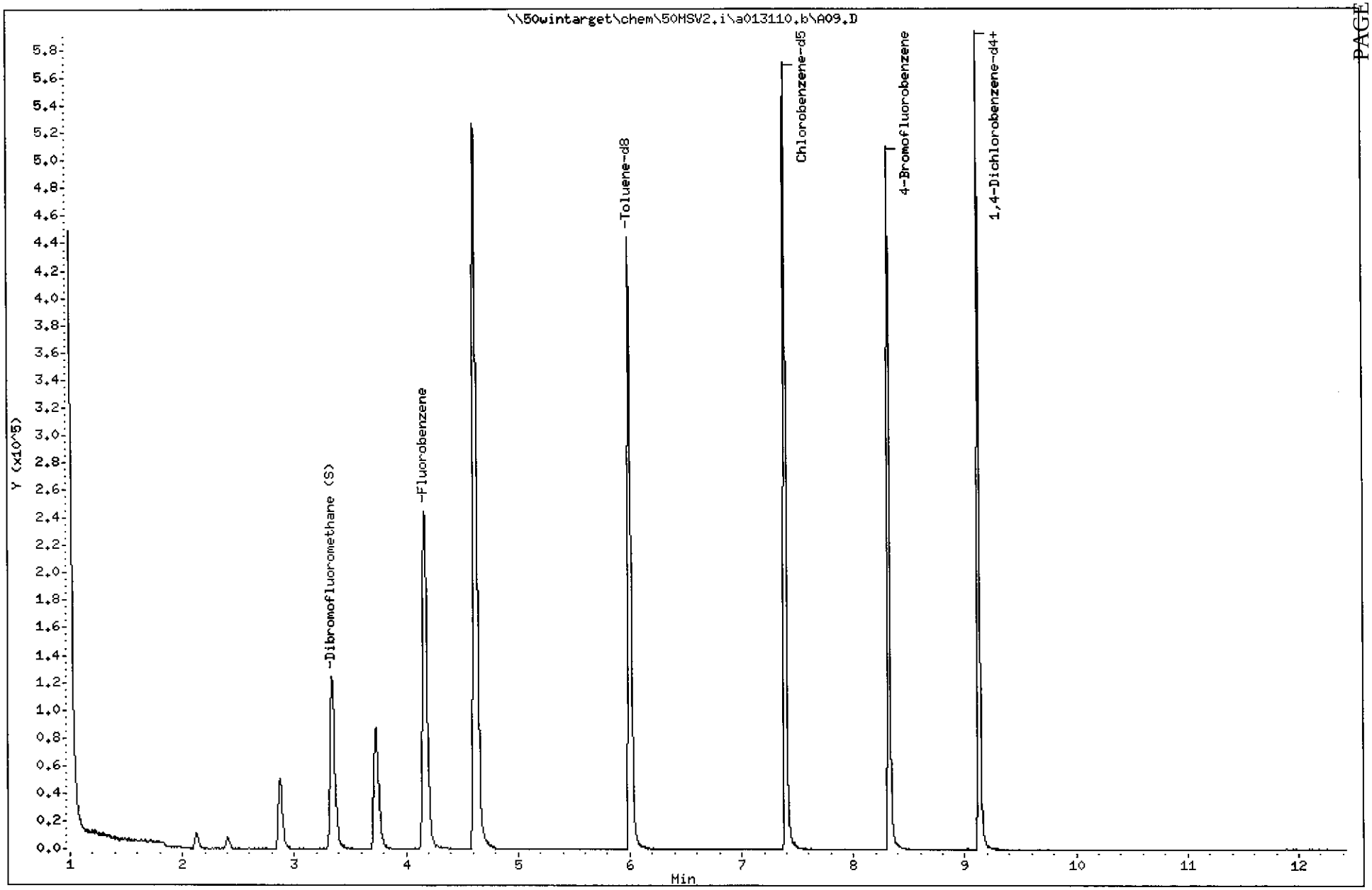
Client Name:
Lab Smp Id: 5034229006
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a013110.b
Client Smp ID: 5034229006
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
156-60-5	1,2-Dichloroethene (trans)	1.59	
75-34-3	1,1-Dichloroethane	2.76	
156-59-2	1,2-Dichloroethene (cis)	10.9	
79-01-6	Trichloroethene	96.2	
541-73-1	1,3-Dichlorobenzene	0.0522	
106-46-7	1,4-Dichlorobenzene	0.0503	
1868-53-7	Dibromofluoromethane (S)	51.9	
2037-26-5	Toluene-d8	49.4	
460-00-4	4-Bromofluorobenzene	51.3	

Data File: \\50wintarget\chem\50MSV2.i\a013110.b\A09.D
Date : 31-JAN-2010 17:44
Client ID: 5034229006
Sample Info: 5034229006
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a013110.b\A10.D
Lab Smp Id: 5034229007 Client Smp ID: 5034229007
Inj Date : 31-JAN-2010 18:18
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 5034229007
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Meth Date : 01-Feb-2010 13:23 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
$ 32 Dibromofluoromethane (S)	113	3.341	3.334	(0.802)	116714	52.1404	52.1
* 40 Fluorobenzene	96	4.168	4.161	(1.000)	365532	50.0000	
41 Trichloroethene	95	4.618	4.611	(1.108)	220065	89.0978	89.1
$ 49 Toluene-d8	98	6.003	5.996	(0.812)	331680	49.5346	49.5
* 59 Chlorobenzene-d5	117	7.394	7.391	(1.000)	318096	50.0000	
$ 70 4-Bromofluorobenzene	95	8.324	8.322	(1.126)	144133	51.1829	51.2
* 82 1,4-Dichlorobenzene-d4	152	9.130	9.128	(1.000)	148177	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A10.D
Lab Smp Id: 5034229007
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

Calibration Date: 31-JAN-2010
Calibration Time: 13:12
Client Smp ID: 5034229007
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	366735	183368	733470	365532	-0.33
59 Chlorobenzene-d5	322201	161101	644402	318096	-1.27
82 1,4-Dichlorobenze	147283	73642	294566	148177	0.61

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.16	3.66	4.66	4.17	0.18
59 Chlorobenzene-d5	7.39	6.89	7.89	7.39	0.03
82 1,4-Dichlorobenze	9.13	8.63	9.63	9.13	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Client SDG: a013110.b
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: 5034229007
Client Smp ID: 5034229007
Level: LOW
Operator: jlf
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: 8260LCSfulllist.spk
Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	52.1	104.28	82-122
$ 49 Toluene-d8	50.0	49.5	99.07	80-120
$ 70 4-Bromofluorobenze	50.0	51.2	102.37	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

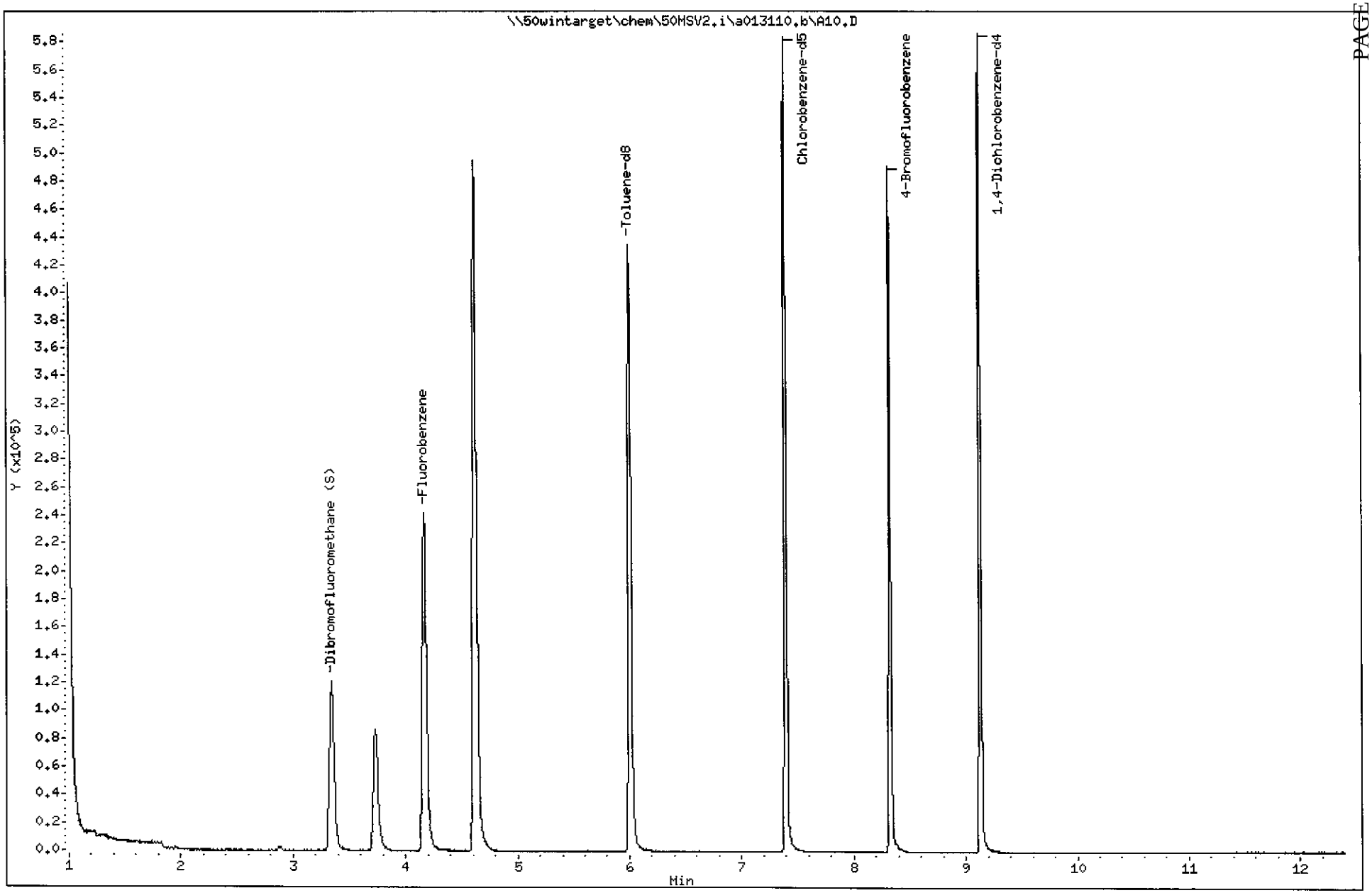
Client Name:
Lab Smp Id: 5034229007
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a013110.b
Client Smp ID: 5034229007
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
79-01-6	Trichloroethene	89.1	
1868-53-7	Dibromofluoromethane (S)	52.1	
2037-26-5	Toluene-d8	49.5	
460-00-4	4-Bromofluorobenzene	51.2	

Data File: \\50wintarget\chem\50MSV2.i\a013110.b\A10.D
Date : 31-JAN-2010 18:18
Client ID: 5034229007
Sample Info: 5034229007
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a013110.b\A11.D
Lab Smp Id: 5034229008 Client Smp ID: 5034229008
Inj Date : 31-JAN-2010 18:52
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 5034229008
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Meth Date : 01-Feb-2010 13:23 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
18 1,2-Dichloroethene (trans)	96	2.134	2.114	(0.512)	3961	0.01353	0.0135
$ 32 Dibromofluoromethane (S)	113	3.343	3.334	(0.802)	114855	51.9426	51.9
* 40 Fluorobenzene	96	4.170	4.161	(1.000)	361080	50.0000	
41 Trichloroethene	95	4.625	4.611	(1.109)	16393	4.87299	4.87
$ 49 Toluene-d8	98	6.005	5.996	(0.812)	332672	49.8856	49.9
* 59 Chlorobenzene-d5	117	7.395	7.391	(1.000)	316802	50.0000	
$ 70 4-Bromofluorobenzene	95	8.325	8.322	(1.126)	143815	51.2786	51.3
* 82 1,4-Dichlorobenzene-d4	152	9.132	9.128	(1.000)	145791	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A11.D
Lab Smp Id: 5034229008
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

Calibration Date: 31-JAN-2010
Calibration Time: 13:12
Client Smp ID: 5034229008
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	366735	183368	733470	361080	-1.54
59 Chlorobenzene-d5	322201	161101	644402	316802	-1.68
82 1,4-Dichlorobenze	147283	73642	294566	145791	-1.01

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.16	3.66	4.66	4.17	0.22
59 Chlorobenzene-d5	7.39	6.89	7.89	7.40	0.05
82 1,4-Dichlorobenze	9.13	8.63	9.63	9.13	0.04

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5034229008
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCSfulllist.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

Client SDG: a013110.b
Fraction: VOA
Client Smp ID: 5034229008
Operator: jlf
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	51.9	103.89	82-122
$ 49 Toluene-d8	50.0	49.9	99.77	80-120
$ 70 4-Bromofluorobenze	50.0	51.3	102.56	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

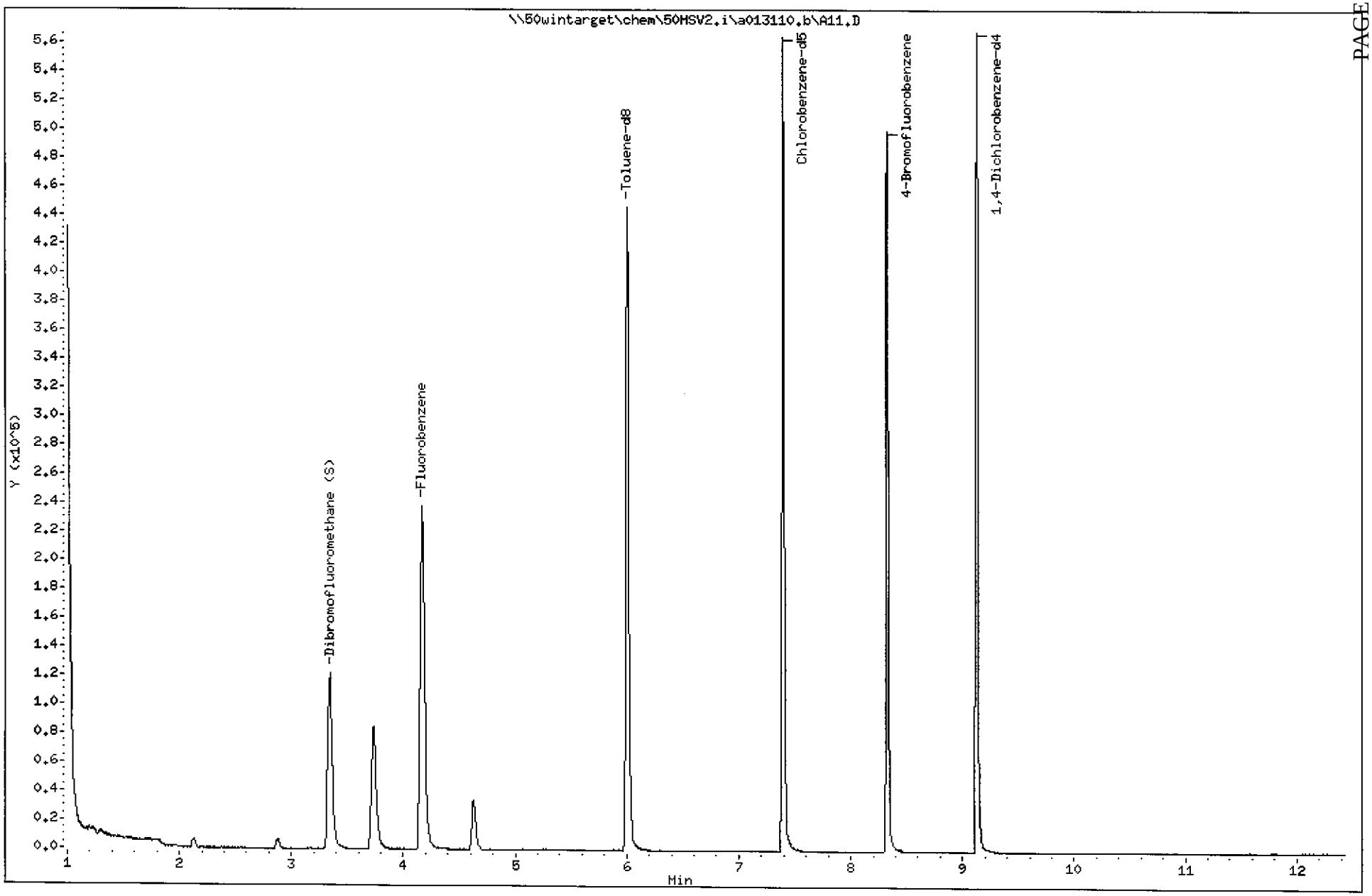
Client Name:
Lab Smp Id: 5034229008
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a013110.b
Client Smp ID: 5034229008
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
156-60-5	1,2-Dichloroethene (trans)	0.0135	
79-01-6	Trichloroethene	4.87	
1868-53-7	Dibromofluoromethane (S)	51.9	
2037-26-5	Toluene-d8	49.9	
460-00-4	4-Bromofluorobenzene	51.3	

Data File: \\50wintarget\chem\50MSV2.i\a013110.b\A11.D
Date : 31-JAN-2010 18:52
Client ID: 5034229008
Sample Info: 5034229008
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a013110.b\A12.D
Lab Smp Id: 5034229009 Client Smp ID: 5034229009
Inj Date : 31-JAN-2010 19:26
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 5034229009
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Meth Date : 01-Feb-2010 13:23 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
18 1,2-Dichloroethene (trans)	96	2.130	2.114	(0.511)	6692	1.19137	1.19
25 1,2-Dichloroethene (cis)	96	2.869	2.858	(0.688)	75802	25.0786	25.1
31 Chloroform	83	3.174	3.163	(0.761)	7714	1.81892	1.82
$ 32 Dibromofluoromethane (S)	113	3.340	3.334	(0.801)	114300	50.6888	50.7
* 40 Fluorobenzene	96	4.172	4.161	(1.000)	368223	50.0000	
41 Trichloroethene	95	4.616	4.611	(1.107)	285659	115.386	115
$ 49 Toluene-d8	98	6.007	5.996	(0.812)	335387	49.9372	49.9
* 59 Chlorobenzene-d5	117	7.397	7.391	(1.000)	319058	50.0000	
$ 70 4-Bromofluorobenzene	95	8.322	8.322	(1.125)	146185	51.7551	51.8
* 82 1,4-Dichlorobenzene-d4	152	9.128	9.128	(1.000)	149047	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A12.D
Lab Smp Id: 5034229009
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

Calibration Date: 31-JAN-2010
Calibration Time: 13:12
Client Smp ID: 5034229009
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	366735	183368	733470	368223	0.41
59 Chlorobenzene-d5	322201	161101	644402	319058	-0.98
82 1,4-Dichlorobenze	147283	73642	294566	149047	1.20

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.16	3.66	4.66	4.17	0.26
59 Chlorobenzene-d5	7.39	6.89	7.89	7.40	0.08
82 1,4-Dichlorobenze	9.13	8.63	9.63	9.13	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5034229009
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCSfulllist.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

Client SDG: a013110.b
Fraction: VOA
Client Smp ID: 5034229009
Operator: jlf
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	50.7	101.38	82-122
$ 49 Toluene-d8	50.0	49.9	99.87	80-120
$ 70 4-Bromofluorobenze	50.0	51.8	103.51	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

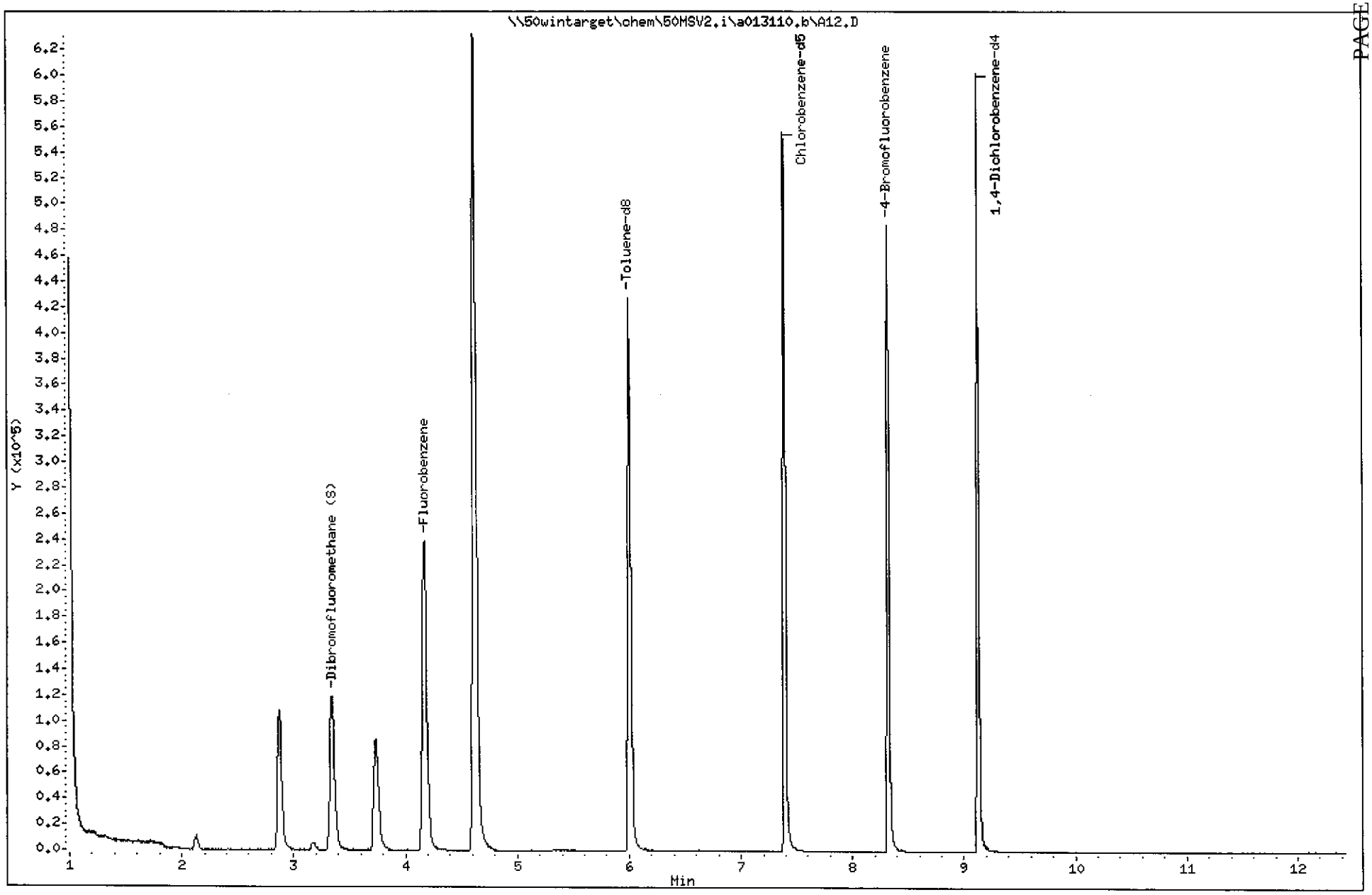
Client Name:
Lab Smp Id: 5034229009
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a013110.b
Client Smp ID: 5034229009
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
156-60-5	1,2-Dichloroethene (trans)	1.19	
156-59-2	1,2-Dichloroethene (cis)	25.1	
67-66-3	Chloroform	1.82	
79-01-6	Trichloroethene	115	
1868-53-7	Dibromofluoromethane (S)	50.7	
2037-26-5	Toluene-d8	49.9	
460-00-4	4-Bromofluorobenzene	51.8	

Data File: \\50wintarget\chem\50MSV2.i\a013110.b\A12.D
Date : 31-JAN-2010 19:26
Client ID: 5034229009
Sample Info: 5034229009
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a013110.b\A13.D
Lab Smp Id: 5034229010 Client Smp ID: 5034229010
Inj Date : 31-JAN-2010 20:00
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 5034229010
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Meth Date : 01-Feb-2010 13:23 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
$ 32 Dibromofluoromethane (S)	113	3.342	3.334	(0.802)	114341	51.6649	51.7
* 40 Fluorobenzene	96	4.168	4.161	(1.000)	361396	50.0000	
41 Trichloroethene	95	4.623	4.611	(1.109)	41592	15.4173	15.4
$ 49 Toluene-d8	98	6.003	5.996	(0.812)	332879	50.0889	50.1
* 59 Chlorobenzene-d5	117	7.394	7.391	(1.000)	315713	50.0000	
$ 70 4-Bromofluorobenzene	95	8.324	8.322	(1.126)	143156	51.2197	51.2
* 82 1,4-Dichlorobenzene-d4	152	9.130	9.128	(1.000)	145491	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A13.D
Lab Smp Id: 5034229010
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

Calibration Date: 31-JAN-2010
Calibration Time: 13:12
Client Smp ID: 5034229010
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	366735	183368	733470	361396	-1.46
59 Chlorobenzene-d5	322201	161101	644402	315713	-2.01
82 1,4-Dichlorobenze	147283	73642	294566	145491	-1.22

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.16	3.66	4.66	4.17	0.18
59 Chlorobenzene-d5	7.39	6.89	7.89	7.39	0.03
82 1,4-Dichlorobenze	9.13	8.63	9.63	9.13	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5034229010
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCSfulllist.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

Client SDG: a013110.b
Fraction: VOA
Client Smp ID: 5034229010
Operator: jlf
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	51.7	103.33	82-122
$ 49 Toluene-d8	50.0	50.1	100.18	80-120
$ 70 4-Bromofluorobenze	50.0	51.2	102.44	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

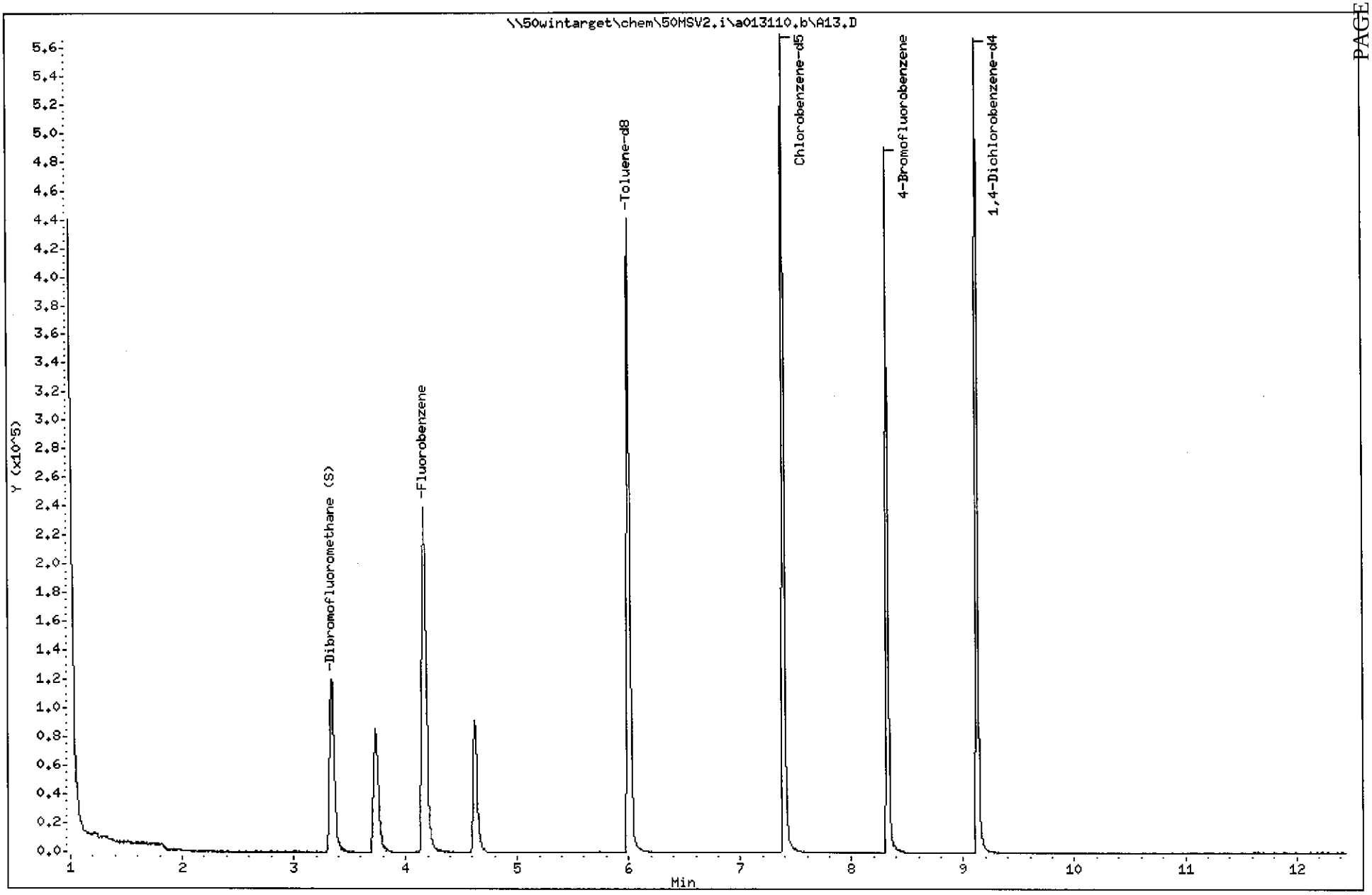
Client Name:
Lab Smp Id: 5034229010
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a013110.b
Client Smp ID: 5034229010
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
79-01-6	Trichloroethene	15.4	
1868-53-7	Dibromofluoromethane (S)	51.7	
2037-26-5	Toluene-d8	50.1	
460-00-4	4-Bromofluorobenzene	51.2	

Data File: \\50wintarget\chem\50MSV2.i\a013110.b\A13.D
Date : 31-JAN-2010 20:00
Client ID: 5034229010
Sample Info: 5034229010
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a013110.b\A14.D
Lab Smp Id: 5034229011 Client Smp ID: 5034229011
Inj Date : 31-JAN-2010 20:34
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 5034229011
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Meth Date : 01-Feb-2010 13:23 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 29
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
$ 32 Dibromofluoromethane (S)	113	3.342	3.334	(0.802)	113029	51.5838	51.6
* 40 Fluorobenzene	96	4.169	4.161	(1.000)	357811	50.0000	
41 Trichloroethene	95	4.629	4.611	(1.110)	21946	7.28398	7.28
$ 49 Toluene-d8	98	6.004	5.996	(0.812)	330886	50.3442	50.3
* 59 Chlorobenzene-d5	117	7.394	7.391	(1.000)	312231	50.0000	
$ 70 4-Bromofluorobenzene	95	8.324	8.322	(1.126)	142281	51.4743	51.5
* 82 1,4-Dichlorobenzene-d4	152	9.131	9.128	(1.000)	144145	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A14.D
Lab Smp Id: 5034229011
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

Calibration Date: 31-JAN-2010
Calibration Time: 13:12
Client Smp ID: 5034229011
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	366735	183368	733470	357811	-2.43
59 Chlorobenzene-d5	322201	161101	644402	312231	-3.09
82 1,4-Dichlorobenze	147283	73642	294566	144145	-2.13

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.16	3.66	4.66	4.17	0.19
59 Chlorobenzene-d5	7.39	6.89	7.89	7.39	0.04
82 1,4-Dichlorobenze	9.13	8.63	9.63	9.13	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5034229011
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCSfulllist.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

Client SDG: a013110.b
Fraction: VOA
Client Smp ID: 5034229011
Operator: jlf
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	51.6	103.17	82-122
$ 49 Toluene-d8	50.0	50.3	100.69	80-120
$ 70 4-Bromofluorobenze	50.0	51.5	102.95	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

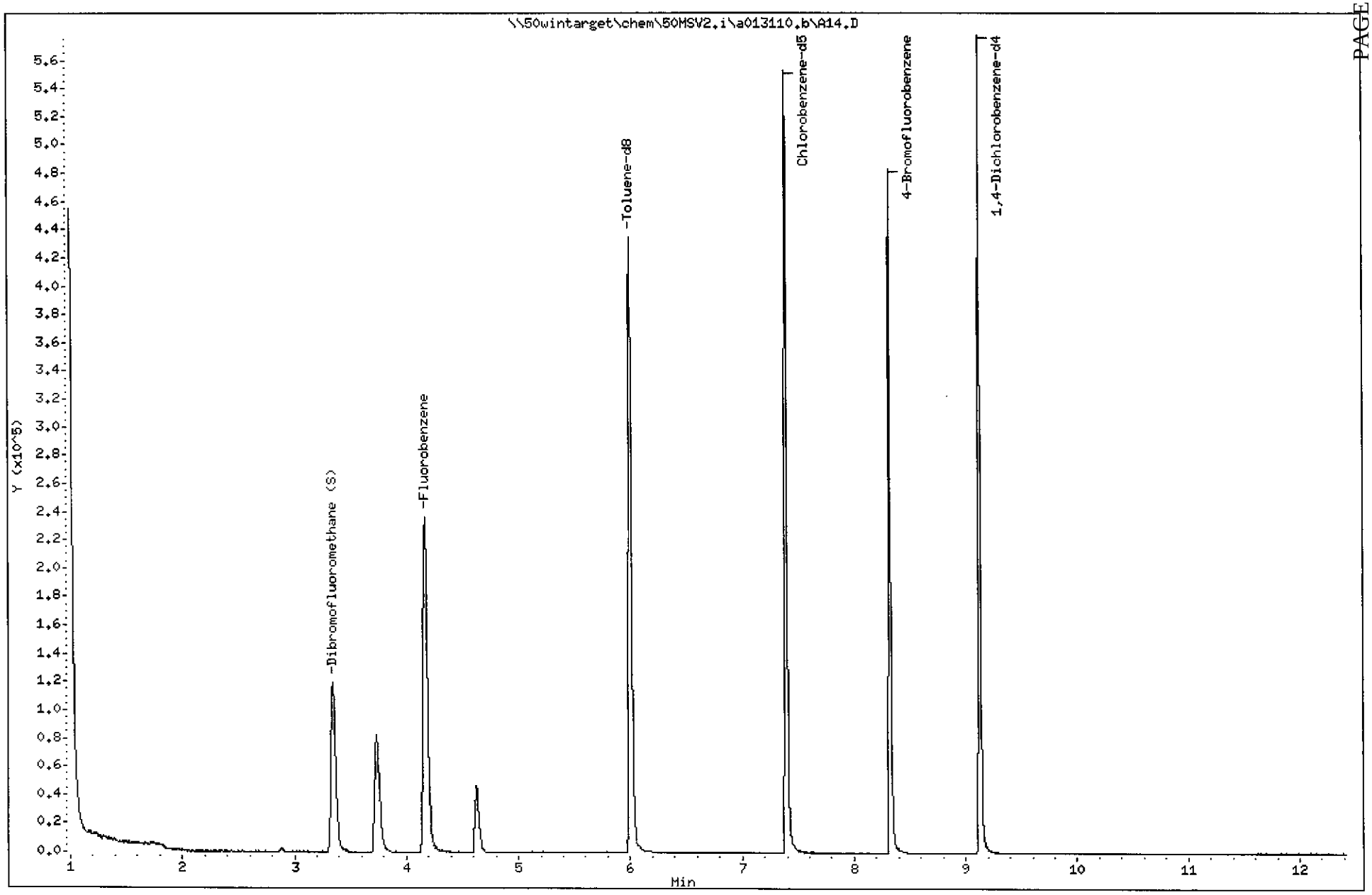
Client Name:
Lab Smp Id: 5034229011
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a013110.b
Client Smp ID: 5034229011
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
79-01-6	Trichloroethene	7.28	
1868-53-7	Dibromofluoromethane (S)	51.6	
2037-26-5	Toluene-d8	50.3	
460-00-4	4-Bromofluorobenzene	51.5	

Data File: \\50wintarget\chem\50MSV2.i\a013110.b\A14.D
Date : 31-JAN-2010 20:34
Client ID: 5034229011
Sample Info: 5034229011
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a013110.b\A15.D
Lab Smp Id: 5034229012 Client Smp ID: 5034229012
Inj Date : 31-JAN-2010 21:08
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 5034229012
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Meth Date : 01-Feb-2010 13:23 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 31
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
$ 32 Dibromofluoromethane (S)	113	3.347	3.334	(0.803)	115689	52.1976	52.2
* 40 Fluorobenzene	96	4.169	4.161	(1.000)	361925	50.0000	
41 Trichloroethene	95	4.618	4.611	(1.108)	123628	49.6885	49.7
$ 49 Toluene-d8	98	6.004	5.996	(0.812)	332506	49.7464	49.7
* 59 Chlorobenzene-d5	117	7.394	7.391	(1.000)	317530	50.0000	
$ 70 4-Bromofluorobenzene	95	8.324	8.322	(1.126)	143620	51.0916	51.1
* 82 1,4-Dichlorobenzene-d4	152	9.131	9.128	(1.000)	146292	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A15.D
Lab Smp Id: 5034229012
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

Calibration Date: 31-JAN-2010
Calibration Time: 13:12
Client Smp ID: 5034229012
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	366735	183368	733470	361925	-1.31
59 Chlorobenzene-d5	322201	161101	644402	317530	-1.45
82 1,4-Dichlorobenze	147283	73642	294566	146292	-0.67

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.16	3.66	4.66	4.17	0.19
59 Chlorobenzene-d5	7.39	6.89	7.89	7.39	0.04
82 1,4-Dichlorobenze	9.13	8.63	9.63	9.13	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5034229012
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCSfulllist.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

Client SDG: a013110.b
Fraction: VOA
Client Smp ID: 5034229012
Operator: jlf
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	52.2	104.40	82-122
$ 49 Toluene-d8	50.0	49.7	99.49	80-120
$ 70 4-Bromofluorobenze	50.0	51.1	102.18	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

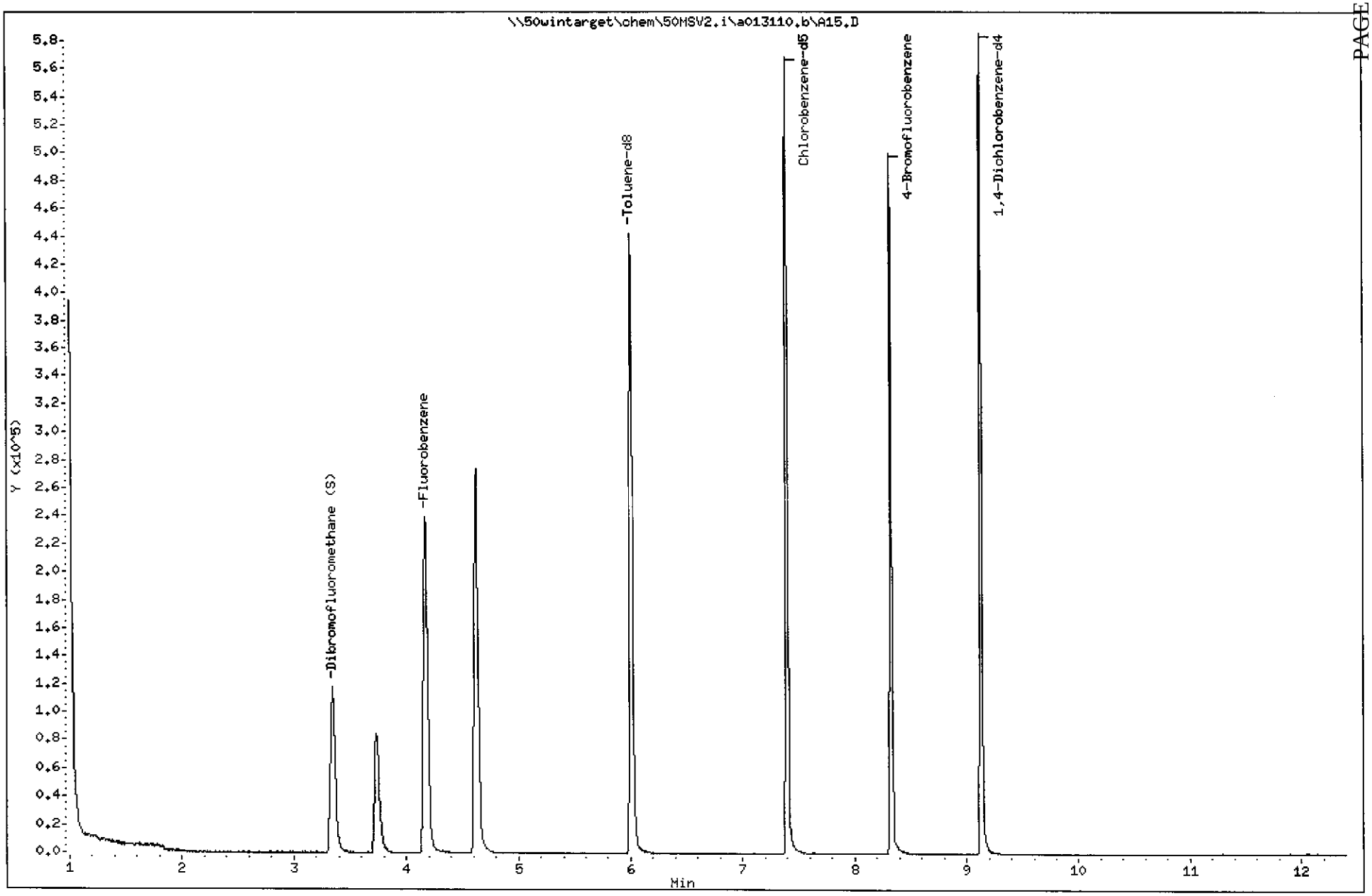
Client Name:
Lab Smp Id: 5034229012
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a013110.b
Client Smp ID: 5034229012
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
79-01-6	Trichloroethene	49.7	
1868-53-7	Dibromofluoromethane (S)	52.2	
2037-26-5	Toluene-d8	49.7	
460-00-4	4-Bromofluorobenzene	51.1	

Data File: \\50wintarget\chem\50MSV2.i\a013110.b\A15.D
Date : 31-JAN-2010 21:08
Client ID: 5034229012
Sample Info: 5034229012
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a013110.b\A16.D
Lab Smp Id: 5034229013 Client Smp ID: 5034229013
Inj Date : 31-JAN-2010 21:42
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 5034229013
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Meth Date : 01-Feb-2010 13:23 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 33
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
$ 32 Dibromofluoromethane (S)	113	3.346	3.334	(0.803)	112558	51.3487	51.3
* 40 Fluorobenzene	96	4.168	4.161	(1.000)	357951	50.0000	
41 Trichloroethene	95	4.623	4.611	(1.109)	85140	33.9930	34.0
$ 49 Toluene-d8	98	6.003	5.996	(0.812)	328267	49.8281	49.8
* 59 Chlorobenzene-d5	117	7.393	7.391	(1.000)	312968	50.0000	
$ 70 4-Bromofluorobenzene	95	8.323	8.322	(1.126)	142151	51.3062	51.3
* 82 1,4-Dichlorobenzene-d4	152	9.130	9.128	(1.000)	144073	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A16.D
Lab Smp Id: 5034229013
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

Calibration Date: 31-JAN-2010
Calibration Time: 13:12
Client Smp ID: 5034229013
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	366735	183368	733470	357951	-2.40
59 Chlorobenzene-d5	322201	161101	644402	312968	-2.87
82 1,4-Dichlorobenze	147283	73642	294566	144073	-2.18

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.16	3.66	4.66	4.17	0.17
59 Chlorobenzene-d5	7.39	6.89	7.89	7.39	0.03
82 1,4-Dichlorobenze	9.13	8.63	9.63	9.13	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5034229013
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCSfulllist.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

Client SDG: a013110.b
Fraction: VOA
Client Smp ID: 5034229013
Operator: jlf
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	51.3	102.70	82-122
$ 49 Toluene-d8	50.0	49.8	99.66	80-120
$ 70 4-Bromofluorobenze	50.0	51.3	102.61	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

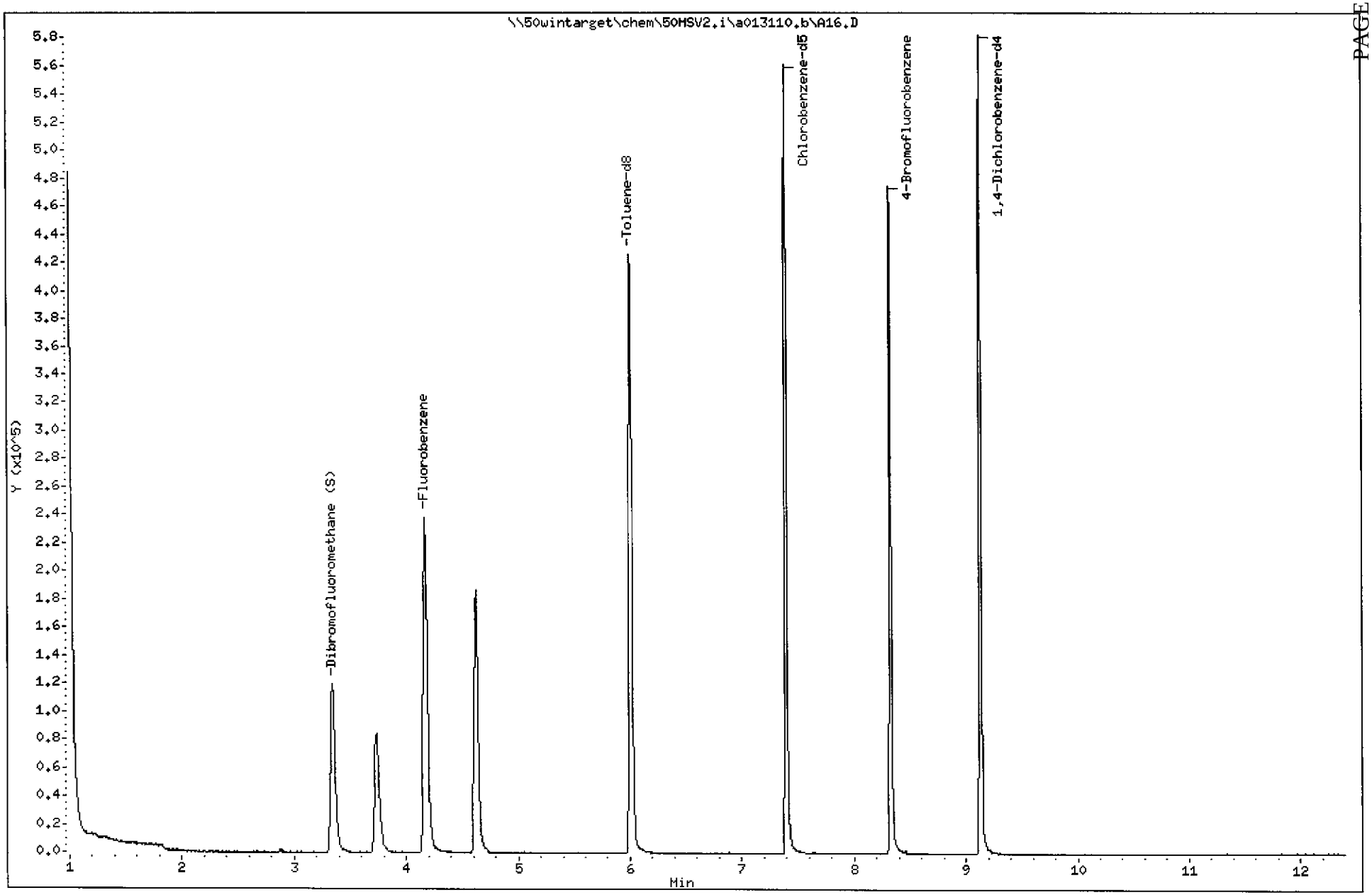
Client Name:
Lab Smp Id: 5034229013
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a013110.b
Client Smp ID: 5034229013
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
79-01-6	Trichloroethene	34.0	
1868-53-7	Dibromofluoromethane (S)	51.3	
2037-26-5	Toluene-d8	49.8	
460-00-4	4-Bromofluorobenzene	51.3	

Data File: \\50wintarget\chem\50MSV2.i\a013110.b\A16.D
Date : 31-JAN-2010 21:42
Client ID: 5034229013
Sample Info: 5034229013
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a013110.b\A17.D
Lab Smp Id: 5034229014 Client Smp ID: 5034229014
Inj Date : 31-JAN-2010 22:16
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 5034229014
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Meth Date : 01-Feb-2010 13:23 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 35
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
$ 32 Dibromofluoromethane (S)	113	3.341	3.334	(0.801)	113506	51.9410	51.9
* 40 Fluorobenzene	96	4.173	4.161	(1.000)	356850	50.0000	
$ 49 Toluene-d8	98	6.008	5.996	(0.812)	329653	49.9708	50.0
50 Toluene	91	6.075	6.068	(0.821)	2859	0.29826	0.298
* 59 Chlorobenzene-d5	117	7.398	7.391	(1.000)	313392	50.0000	
$ 70 4-Bromofluorobenzene	95	8.323	8.322	(1.125)	141683	51.0681	51.1
79 1,2,4-Trimethylbenzene	105	8.907	8.895	(0.976)	829	0.10816	0.108
* 82 1,4-Dichlorobenzene-d4	152	9.129	9.128	(1.000)	143847	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A17.D
Lab Smp Id: 5034229014
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

Calibration Date: 31-JAN-2010
Calibration Time: 13:12
Client Smp ID: 5034229014
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	366735	183368	733470	356850	-2.70
59 Chlorobenzene-d5	322201	161101	644402	313392	-2.73
82 1,4-Dichlorobenze	147283	73642	294566	143847	-2.33

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.16	3.66	4.66	4.17	0.29
59 Chlorobenzene-d5	7.39	6.89	7.89	7.40	0.09
82 1,4-Dichlorobenze	9.13	8.63	9.63	9.13	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5034229014
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCSfulllist.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

Client SDG: a013110.b
Fraction: VOA
Client Smp ID: 5034229014
Operator: jlf
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	51.9	103.88	82-122
$ 49 Toluene-d8	50.0	50.0	99.94	80-120
$ 70 4-Bromofluorobenze	50.0	51.1	102.14	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

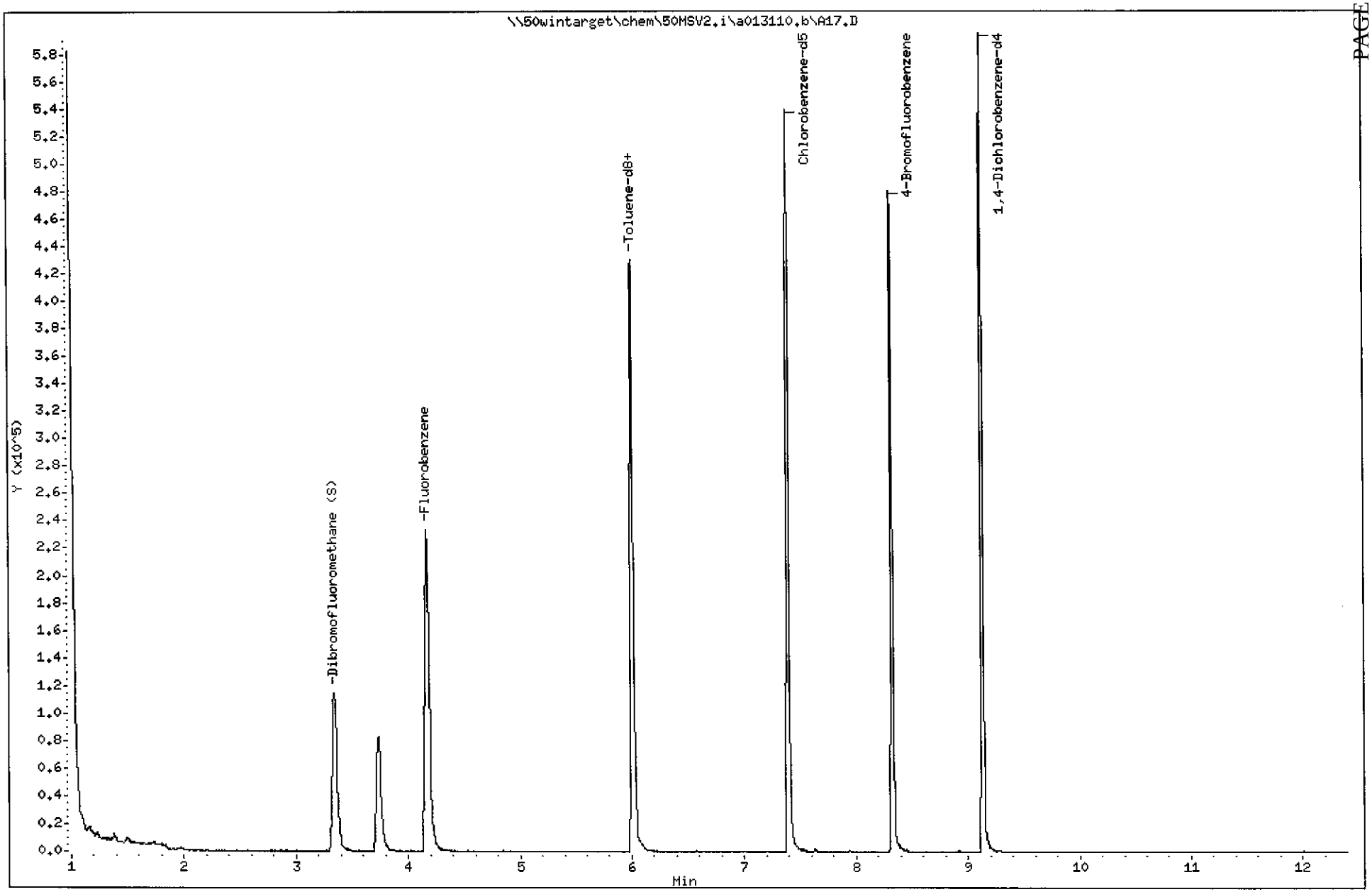
Client Name:
Lab Smp Id: 5034229014
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a013110.b
Client Smp ID: 5034229014
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-88-3	Toluene	0.298	
95-63-6	1,2,4-Trimethylbenzene	0.108	
1868-53-7	Dibromofluoromethane (S)	51.9	
2037-26-5	Toluene-d8	50.0	
460-00-4	4-Bromofluorobenzene	51.1	

Data File: \\50wintarget\chem\50MSV2.i\a013110.b\A17.D
Date : 31-JAN-2010 22:16
Client ID: 5034229014
Sample Info: 5034229014
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a013110.b\A18.D
Lab Smp Id: 5034229015 Client Smp ID: 5034229015
Inj Date : 31-JAN-2010 22:49
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 5034229015
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Meth Date : 01-Feb-2010 13:23 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 37
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
3 Vinyl Chloride	62	1.169	1.163	(0.280)	16818	2.33013	2.33
25 1,2-Dichloroethene (cis)	96	2.870	2.858	(0.688)	49537	16.5455	16.5
$ 32 Dibromofluoromethane (S)	113	3.345	3.334	(0.802)	110904	51.6749	51.7
* 40 Fluorobenzene	96	4.172	4.161	(1.000)	350465	50.0000	
$ 49 Toluene-d8	98	6.007	5.996	(0.812)	324873	50.3791	50.4
50 Toluene	91	6.079	6.068	(0.822)	2293	0.24471	0.245
* 59 Chlorobenzene-d5	117	7.397	7.391	(1.000)	306345	50.0000	
$ 70 4-Bromofluorobenzene	95	8.322	8.322	(1.125)	141062	52.0138	52.0
79 1,2,4-Trimethylbenzene	105	8.906	8.895	(0.976)	1288	0.16604	0.166(Q)
* 82 1,4-Dichlorobenzene-d4	152	9.129	9.128	(1.000)	145592	50.0000	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A18.D
Lab Smp Id: 5034229015
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

Calibration Date: 31-JAN-2010
Calibration Time: 13:12
Client Smp ID: 5034229015
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	366735	183368	733470	350465	-4.44
59 Chlorobenzene-d5	322201	161101	644402	306345	-4.92
82 1,4-Dichlorobenze	147283	73642	294566	145592	-1.15

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.16	3.66	4.66	4.17	0.27
59 Chlorobenzene-d5	7.39	6.89	7.89	7.40	0.08
82 1,4-Dichlorobenze	9.13	8.63	9.63	9.13	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5034229015
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCSfulllist.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

Client SDG: a013110.b
Fraction: VOA
Client Smp ID: 5034229015
Operator: jlf
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	51.7	103.35	82-122
$ 49 Toluene-d8	50.0	50.4	100.76	80-120
$ 70 4-Bromofluorobenze	50.0	52.0	104.03	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

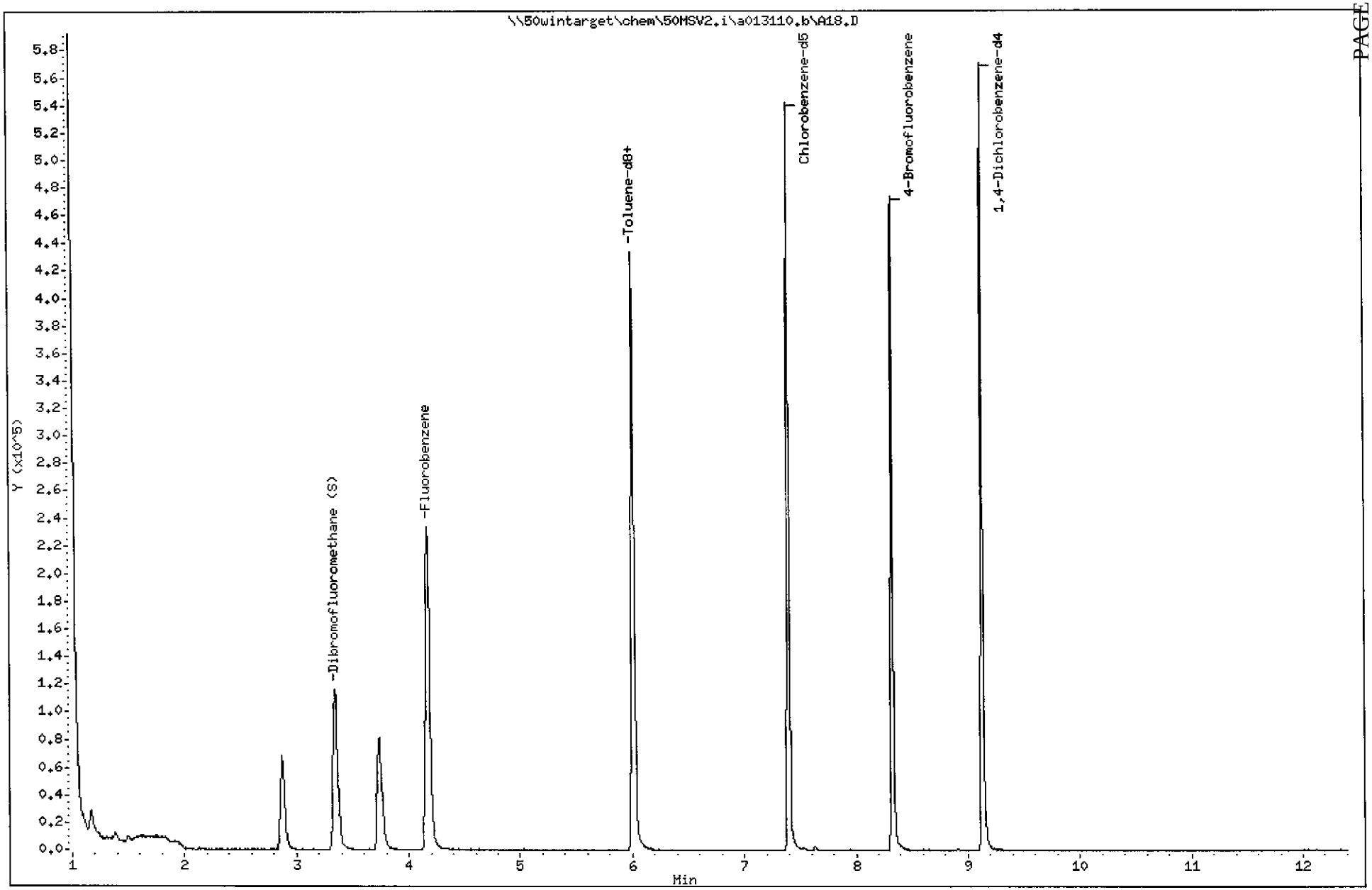
Client Name:
Lab Smp Id: 5034229015
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a013110.b
Client Smp ID: 5034229015
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-01-4	Vinyl Chloride	2.33	
156-59-2	1,2-Dichloroethene (cis)	16.5	
108-88-3	Toluene	0.245	
95-63-6	1,2,4-Trimethylbenzene	0.166	
1868-53-7	Dibromofluoromethane (S)	51.7	
2037-26-5	Toluene-d8	50.4	
460-00-4	4-Bromofluorobenzene	52.0	

Data File: \\50wintarget\chem\50MSV2.i\a013110.b\A18.D
Date : 31-JAN-2010 22:49
Client ID: 5034229015
Sample Info: 5034229015
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a013110.b\A19.D
Lab Smp Id: 5034229016 Client Smp ID: 5034229016
Inj Date : 31-JAN-2010 23:23
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 5034229016
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Meth Date : 01-Feb-2010 13:23 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 39
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
$ 32 Dibromofluoromethane (S)	113	3.345	3.334	(0.802)	110297	51.8470	51.8
* 40 Fluorobenzene	96	4.171	4.161	(1.000)	347390	50.0000	
41 Trichloroethene	95	4.626	4.611	(1.109)	27833	10.1265	10.1
$ 49 Toluene-d8	98	6.006	5.996	(0.812)	325358	50.0177	50.0
* 59 Chlorobenzene-d5	117	7.397	7.391	(1.000)	309019	50.0000	
62 Ethylbenzene	106	7.536	7.520	(1.019)	412	0.11996	0.120(Q)
63 m&p-Xylene	106	7.629	7.619	(1.031)	1807	0.41390	0.414(Q)
$ 70 4-Bromofluorobenzene	95	8.327	8.322	(1.126)	140681	51.4245	51.4
79 1,2,4-Trimethylbenzene	105	8.906	8.895	(0.976)	1770	0.23267	0.233
* 82 1,4-Dichlorobenzene-d4	152	9.128	9.128	(1.000)	142777	50.0000	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A19.D
Lab Smp Id: 5034229016
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

Calibration Date: 31-JAN-2010
Calibration Time: 13:12
Client Smp ID: 5034229016
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	366735	183368	733470	347390	-5.27
59 Chlorobenzene-d5	322201	161101	644402	309019	-4.09
82 1,4-Dichlorobenze	147283	73642	294566	142777	-3.06

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.16	3.66	4.66	4.17	0.26
59 Chlorobenzene-d5	7.39	6.89	7.89	7.40	0.07
82 1,4-Dichlorobenze	9.13	8.63	9.63	9.13	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5034229016
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCSfulllist.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

Client SDG: a013110.b
Fraction: VOA
Client Smp ID: 5034229016
Operator: jlf
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	51.8	103.69	82-122
$ 49 Toluene-d8	50.0	50.0	100.04	80-120
$ 70 4-Bromofluorobenze	50.0	51.4	102.85	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

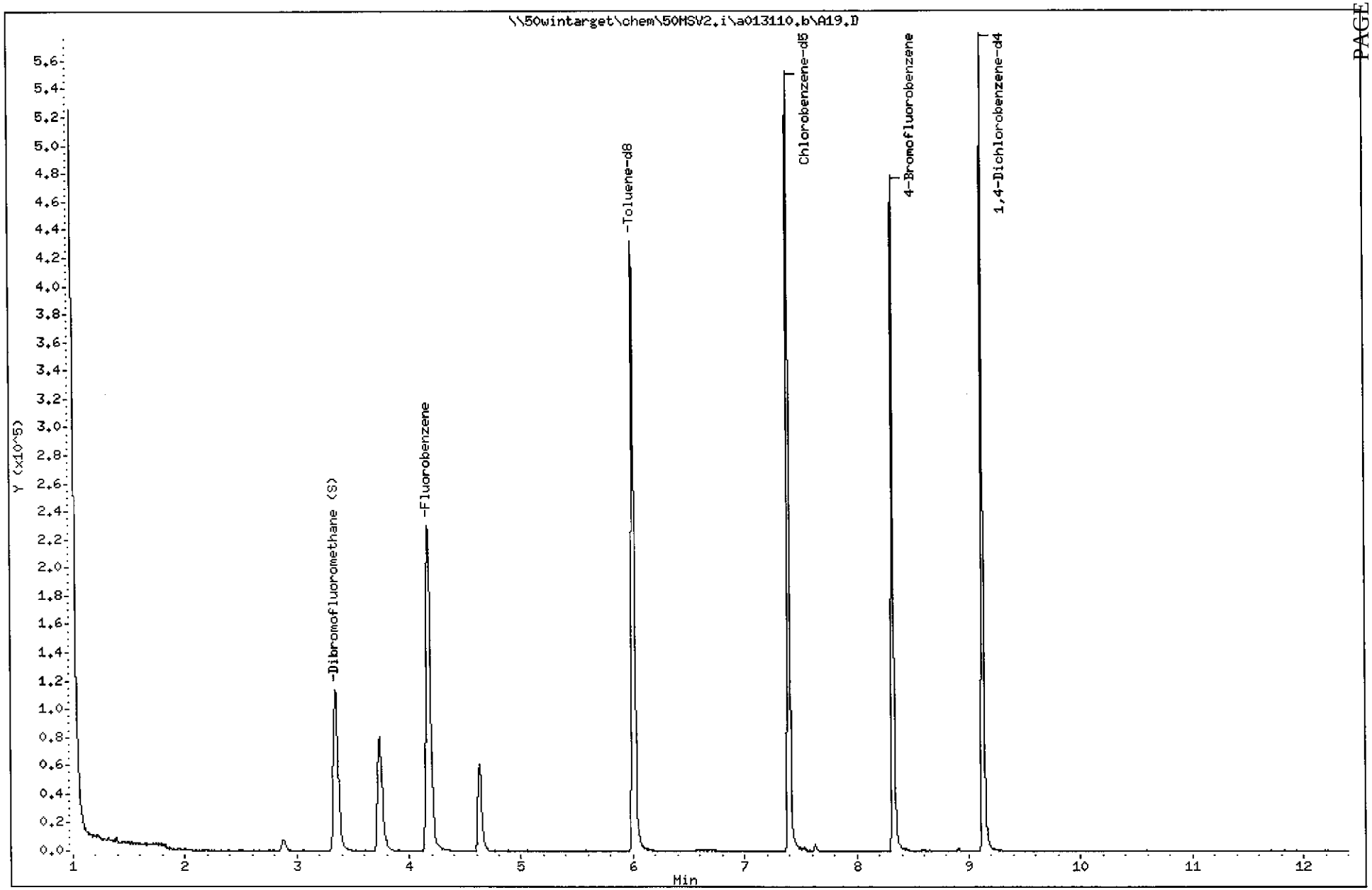
Client Name:
Lab Smp Id: 5034229016
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a013110.b
Client Smp ID: 5034229016
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
79-01-6	Trichloroethene	10.1	
100-41-4	Ethylbenzene	0.120	
7816-60-0	m&p-Xylene	0.414	
95-63-6	1,2,4-Trimethylbenzene	0.233	
1868-53-7	Dibromofluoromethane (S)	51.8	
2037-26-5	Toluene-d8	50.0	
460-00-4	4-Bromofluorobenzene	51.4	

Data File: \\50wintarget\chem\50MSV2.i\a013110.b\A19.D
Date : 31-JAN-2010 23:23
Client ID: 5034229016
Sample Info: 5034229016
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a013110.b\A20.D
Lab Smp Id: 5034229017 Client Smp ID: 5034229017
Inj Date : 31-JAN-2010 23:57
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 5034229017
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Meth Date : 01-Feb-2010 13:23 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 41
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
$ 32 Dibromofluoromethane (S)	113	3.346	3.334	(0.802)	112826	51.5900	51.6
* 40 Fluorobenzene	96	4.173	4.161	(1.000)	357125	50.0000	
$ 49 Toluene-d8	98	6.008	5.996	(0.813)	331670	49.7291	49.7
* 59 Chlorobenzene-d5	117	7.393	7.391	(1.000)	316842	50.0000	
62 Ethylbenzene	106	7.538	7.520	(1.020)	819	0.23257	0.232(Q)
63 m&p-Xylene	106	7.631	7.619	(1.032)	2773	0.61948	0.619(Q)
$ 70 4-Bromofluorobenzene	95	8.323	8.322	(1.126)	143448	51.1413	51.1
79 1,2,4-Trimethylbenzene	105	8.902	8.895	(0.975)	2837	0.35799	0.358
* 82 1,4-Dichlorobenzene-d4	152	9.130	9.128	(1.000)	148733	50.0000	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A20.D
Lab Smp Id: 5034229017
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

Calibration Date: 31-JAN-2010
Calibration Time: 13:12
Client Smp ID: 5034229017
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	366735	183368	733470	357125	-2.62
59 Chlorobenzene-d5	322201	161101	644402	316842	-1.66
82 1,4-Dichlorobenze	147283	73642	294566	148733	0.98

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.16	3.66	4.66	4.17	0.29
59 Chlorobenzene-d5	7.39	6.89	7.89	7.39	0.03
82 1,4-Dichlorobenze	9.13	8.63	9.63	9.13	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5034229017
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCSfulllist.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a013110.b\-8260-c1.m
Misc Info:

Client SDG: a013110.b
Fraction: VOA
Client Smp ID: 5034229017
Operator: jlf
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	51.6	103.18	82-122
$ 49 Toluene-d8	50.0	49.7	99.46	80-120
$ 70 4-Bromofluorobenze	50.0	51.1	102.28	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

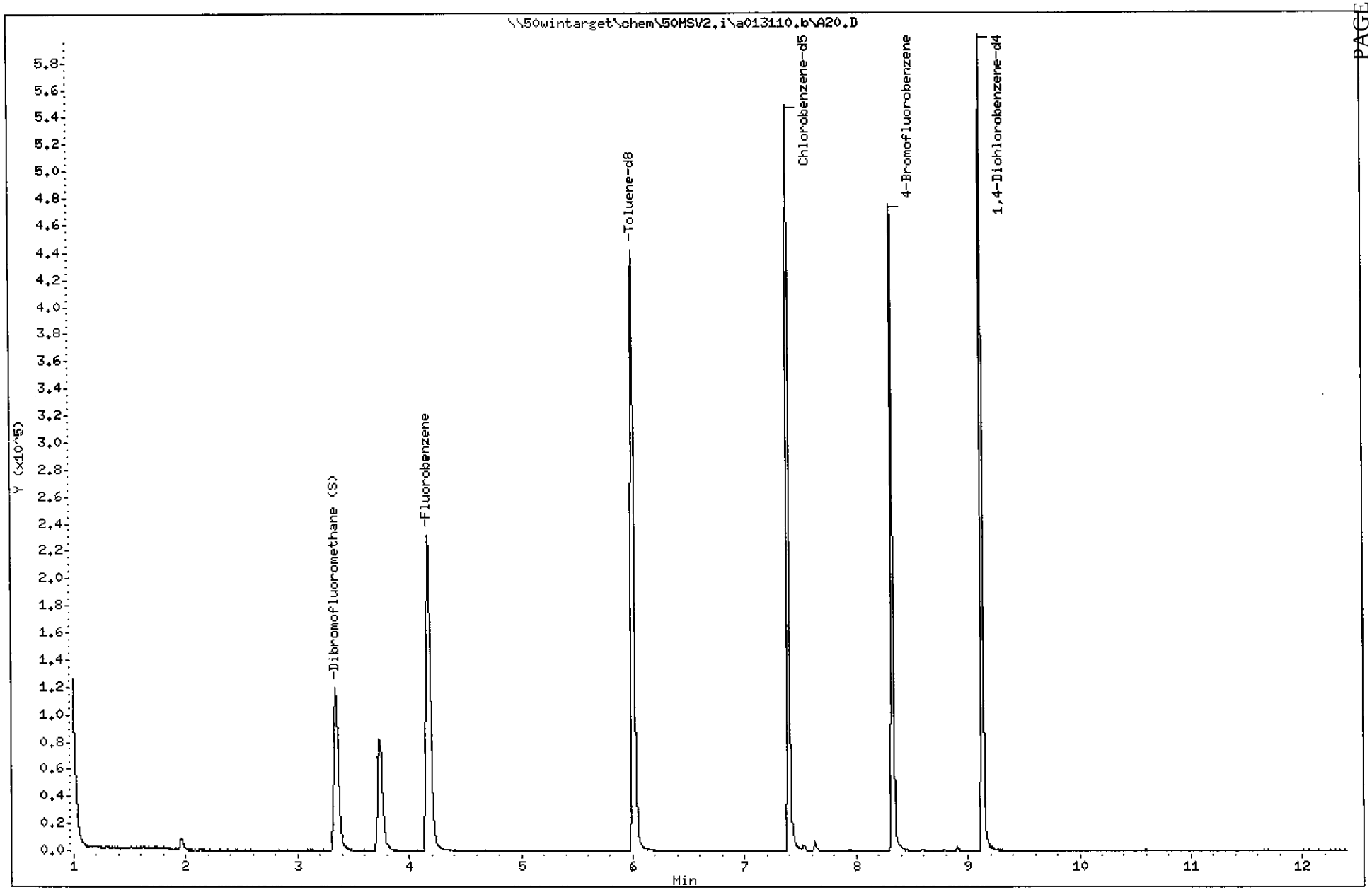
Client Name:
Lab Smp Id: 5034229017
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a013110.b
Client Smp ID: 5034229017
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
100-41-4	Ethylbenzene	0.232	
7816-60-0	m&p-Xylene	0.619	
95-63-6	1,2,4-Trimethylbenzene	0.358	
1868-53-7	Dibromofluoromethane (S)	51.6	
2037-26-5	Toluene-d8	49.7	
460-00-4	4-Bromofluorobenzene	51.1	

Data File: \\50wintarget\chem\50MSV2.i\a013110.b\A20.D
Date : 31-JAN-2010 23:57
Client ID: 5034229017
Sample Info: 5034229017
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a020910.b\A08.D
Lab Smp Id: 5034508001 Client Smp ID: 5034508001
Inj Date : 09-FEB-2010 15:19
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 5034508001-lvl4
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Meth Date : 10-Feb-2010 11:41 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
$ 32 Dibromofluoromethane (S)	113	3.368	3.363	(0.803)	111502	50.7973	50.8
* 40 Fluorobenzene	96	4.194	4.195	(1.000)	358442	50.0000	
$ 49 Toluene-d8	98	6.029	6.024	(0.813)	316793	56.7630	56.8
* 59 Chlorobenzene-d5	117	7.414	7.415	(1.000)	265129	50.0000	
$ 70 4-Bromofluorobenzene	95	8.340	8.340	(1.125)	115806	49.3394	49.3
* 82 1,4-Dichlorobenzene-d4	152	9.146	9.146	(1.000)	117209	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A08.D
Lab Smp Id: 5034508001
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Misc Info:

Calibration Date: 09-FEB-2010
Calibration Time: 23:50
Client Smp ID: 5034508001
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	335209	167605	670418	358442	6.93
59 Chlorobenzene-d5	251681	125841	503362	265129	5.34
82 1,4-Dichlorobenze	109139	54570	218278	117209	7.39

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.20	3.70	4.70	4.19	-0.00
59 Chlorobenzene-d5	7.42	6.92	7.92	7.41	-0.00
82 1,4-Dichlorobenze	9.15	8.65	9.65	9.15	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5034508001
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCSfulllist.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Misc Info:

Client SDG: a020910.b
Fraction: VOA
Client Smp ID: 5034508001
Operator: jlf
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	50.8	101.59	82-122
$ 49 Toluene-d8	50.0	56.8	113.53	80-120
$ 70 4-Bromofluorobenze	50.0	49.3	98.68	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

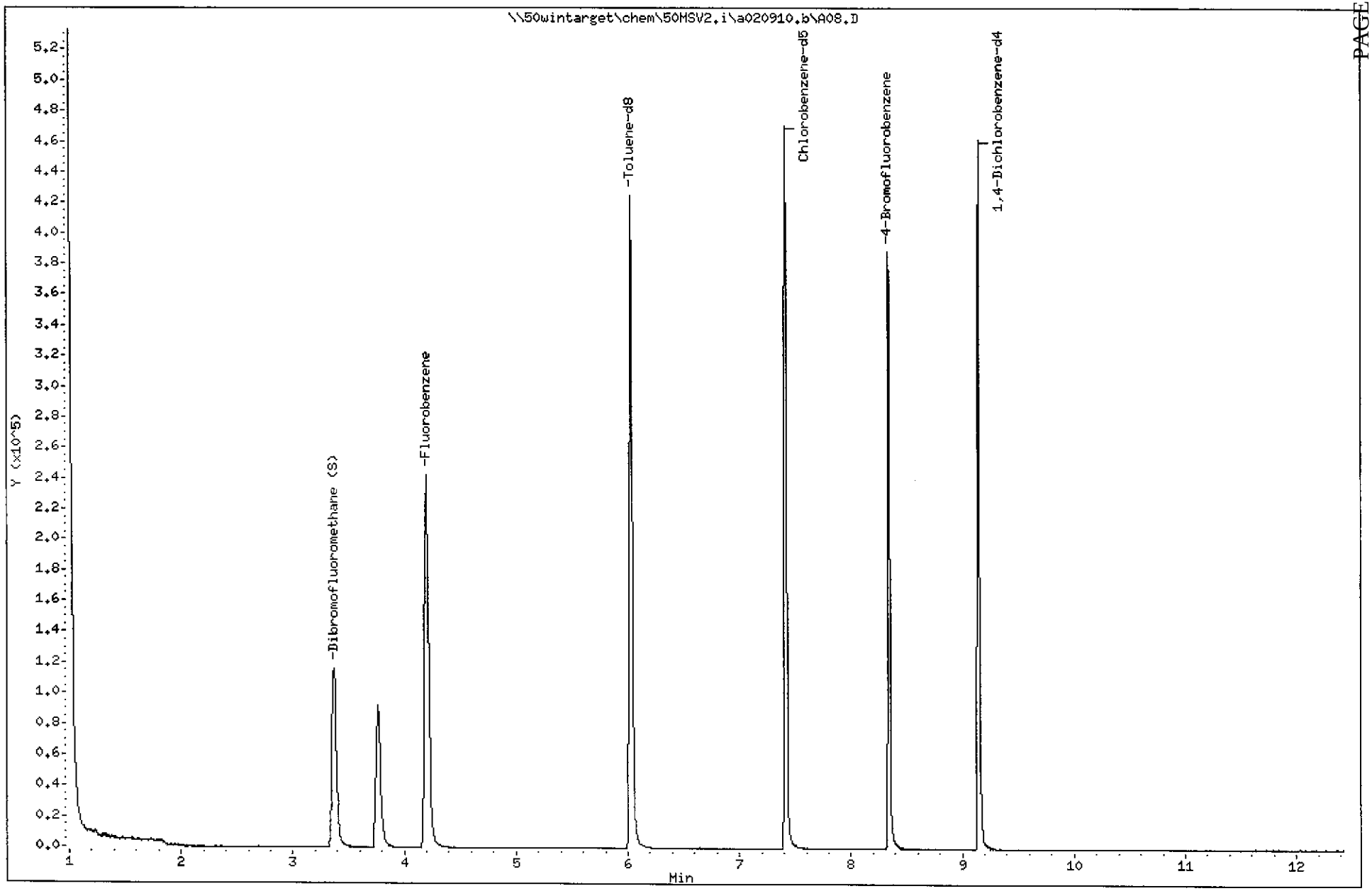
Client Name:
Lab Smp Id: 5034508001
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a020910.b
Client Smp ID: 5034508001
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
1868-53-7	Dibromofluoromethane (S)	50.8	
2037-26-5	Toluene-d8	56.8	
460-00-4	4-Bromofluorobenzene	49.3	

Data File: \\50wintarget\chem\50MSV2.i\a020910.b\A08.D
Date : 09-FEB-2010 15:19
Client ID: 5034508001
Sample Info: 5034508001-lvl4
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a020910.b\A09.D
Lab Smp Id: 5034508002 Client Smp ID: 5034508002
Inj Date : 09-FEB-2010 15:53
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 5034508002
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Meth Date : 10-Feb-2010 11:41 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
3 Vinyl Chloride	62	1.177	1.176	(0.281)	15318	1.73911	1.74
$ 32 Dibromofluoromethane (S)	113	3.363	3.363	(0.802)	111577	50.9369	50.9
* 40 Fluorobenzene	96	4.195	4.195	(1.000)	357700	50.0000	
$ 49 Toluene-d8	98	6.025	6.024	(0.813)	312578	55.9203	55.9
* 59 Chlorobenzene-d5	117	7.415	7.415	(1.000)	265544	50.0000	
$ 70 4-Bromofluorobenzene	95	8.340	8.340	(1.125)	115119	48.9700	49.0
* 82 1,4-Dichlorobenzene-d4	152	9.146	9.146	(1.000)	117213	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A09.D
Lab Smp Id: 5034508002
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Misc Info:

Calibration Date: 09-FEB-2010
Calibration Time: 23:50
Client Smp ID: 5034508002
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	335209	167605	670418	357700	6.71
59 Chlorobenzene-d5	251681	125841	503362	265544	5.51
82 1,4-Dichlorobenze	109139	54570	218278	117213	7.40

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.20	3.70	4.70	4.20	0.01
59 Chlorobenzene-d5	7.42	6.92	7.92	7.42	0.00
82 1,4-Dichlorobenze	9.15	8.65	9.65	9.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5034508002
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCSfulllist.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Misc Info:

Client SDG: a020910.b
Fraction: VOA
Client Smp ID: 5034508002
Operator: jlf
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	50.9	101.87	82-122
$ 49 Toluene-d8	50.0	55.9	111.84	80-120
$ 70 4-Bromofluorobenze	50.0	49.0	97.94	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

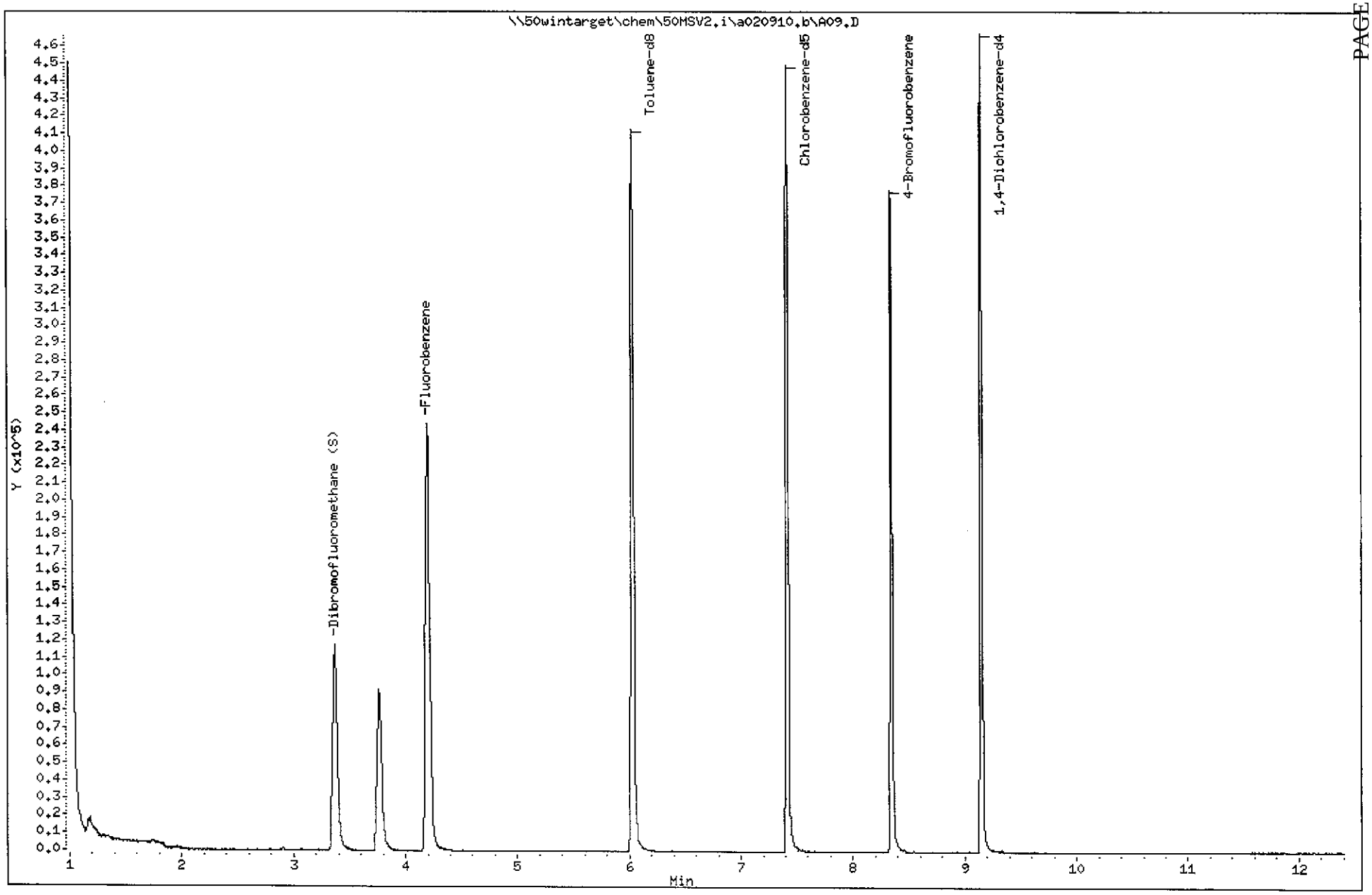
Client Name:
Lab Smp Id: 5034508002
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a020910.b
Client Smp ID: 5034508002
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-01-4	Vinyl Chloride	1.74	
1868-53-7	Dibromofluoromethane (S)	50.9	
2037-26-5	Toluene-d8	55.9	
460-00-4	4-Bromofluorobenzene	49.0	

Data File: \\50wintarget\chem\50MSV2.i\a020910.b\A09.D
Date : 09-FEB-2010 15:53
Client ID: 5034508002
Sample Info: 5034508002
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a020910.b\A10.D
Lab Smp Id: 5034508003 Client Smp ID: 5034508003
Inj Date : 09-FEB-2010 16:27
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 5034508003
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Meth Date : 10-Feb-2010 11:41 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
$ 32 Dibromofluoromethane (S)	113	3.367	3.363	(0.802)	110738	50.3651	50.4
* 40 Fluorobenzene	96	4.199	4.195	(1.000)	359041	50.0000	
$ 49 Toluene-d8	98	6.023	6.024	(0.812)	316945	56.5845	56.6
* 59 Chlorobenzene-d5	117	7.414	7.415	(1.000)	266093	50.0000	
$ 70 4-Bromofluorobenzene	95	8.339	8.340	(1.125)	117013	49.6730	49.7
* 82 1,4-Dichlorobenzene-d4	152	9.145	9.146	(1.000)	116763	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A10.D
Lab Smp Id: 5034508003
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Misc Info:

Calibration Date: 09-FEB-2010
Calibration Time: 23:50
Client Smp ID: 5034508003
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	335209	167605	670418	359041	7.11
59 Chlorobenzene-d5	251681	125841	503362	266093	5.73
82 1,4-Dichlorobenze	109139	54570	218278	116763	6.99

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.20	3.70	4.70	4.20	0.10
59 Chlorobenzene-d5	7.42	6.92	7.92	7.41	-0.01
82 1,4-Dichlorobenze	9.15	8.65	9.65	9.15	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5034508003
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCSfulllist.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Misc Info:

Client SDG: a020910.b
Fraction: VOA
Client Smp ID: 5034508003
Operator: jlf
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	50.4	100.73	82-122
$ 49 Toluene-d8	50.0	56.6	113.17	80-120
$ 70 4-Bromofluorobenze	50.0	49.7	99.35	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

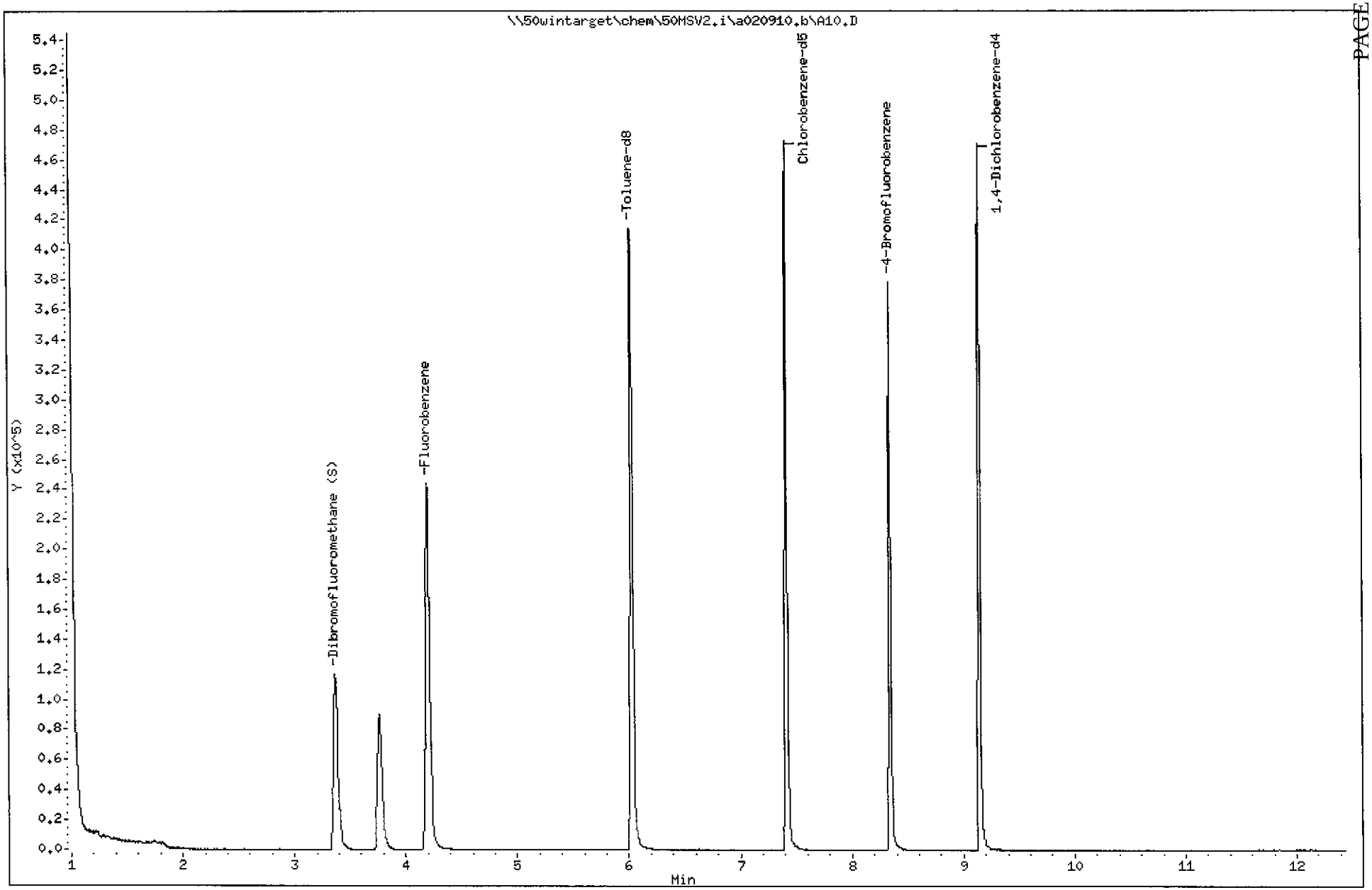
Client Name:
Lab Smp Id: 5034508003
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a020910.b
Client Smp ID: 5034508003
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
1868-53-7	Dibromofluoromethane (S)	50.4	
2037-26-5	Toluene-d8	56.6	
460-00-4	4-Bromofluorobenzene	49.7	

Data File: \\50wintarget\chem\50MSV2.i\a020910.b\A10.D
Date : 09-FEB-2010 16:27
Client ID: 5034508003
Sample Info: 5034508003
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a020910.b\A12.D
Lab Smp Id: 5034508004 Client Smp ID: 5034508004
Inj Date : 09-FEB-2010 17:36
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 5034508004
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Meth Date : 10-Feb-2010 11:41 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
3 Vinyl Chloride	62	1.176	1.176	(0.280)	61408	16.4863	16.5
8 Acrolein	56	1.656	1.657	(0.395)	460	1.89383	1.89(Q)
18 1,2-Dichloroethene (trans)	96	2.137	2.138	(0.510)	53461	22.6566	22.6
25 1,2-Dichloroethene (cis)	96	2.886	2.887	(0.688)	1323319	487.195	487
$ 32 Dibromofluoromethane (S)	113	3.362	3.363	(0.802)	105659	48.2359	48.2
* 40 Fluorobenzene	96	4.194	4.195	(1.000)	357695	50.0000	
$ 49 Toluene-d8	98	6.024	6.024	(0.812)	317640	57.0797	57.1
* 59 Chlorobenzene-d5	117	7.414	7.415	(1.000)	264363	50.0000	
142 n-amyl acetate	70	8.339	8.340	(1.125)	641	14.5381	14.5(Q)
$ 70 4-Bromofluorobenzene	95	8.339	8.340	(1.125)	114094	48.7508	48.8
74 n-Propylbenzene	91	8.535	8.531	(0.933)	1176	0.13571	0.136
77 1,3,5-Trimethylbenzene	105	8.659	8.655	(0.947)	1092	0.17291	0.173
81 1,3-Dichlorobenzene	146	9.109	9.100	(0.996)	790	0.21889	0.219(Q)
* 82 1,4-Dichlorobenzene-d4	152	9.145	9.146	(1.000)	117389	50.0000	
84 1,4-Dichlorobenzene	146	9.166	9.162	(1.002)	804	0.21469	0.215(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A12.D
Lab Smp Id: 5034508004
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Misc Info:

Calibration Date: 09-FEB-2010
Calibration Time: 23:50
Client Smp ID: 5034508004
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	335209	167605	670418	357695	6.71
59 Chlorobenzene-d5	251681	125841	503362	264363	5.04
82 1,4-Dichlorobenze	109139	54570	218278	117389	7.56

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.20	3.70	4.70	4.19	-0.02
59 Chlorobenzene-d5	7.42	6.92	7.92	7.41	-0.01
82 1,4-Dichlorobenze	9.15	8.65	9.65	9.15	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5034508004
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCSfulllist.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Misc Info:

Client SDG: a020910.b
Fraction: VOA
Client Smp ID: 5034508004
Operator: jlf
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	48.2	96.47	82-122
$ 49 Toluene-d8	50.0	57.1	114.16	80-120
$ 70 4-Bromofluorobenze	50.0	48.8	97.50	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

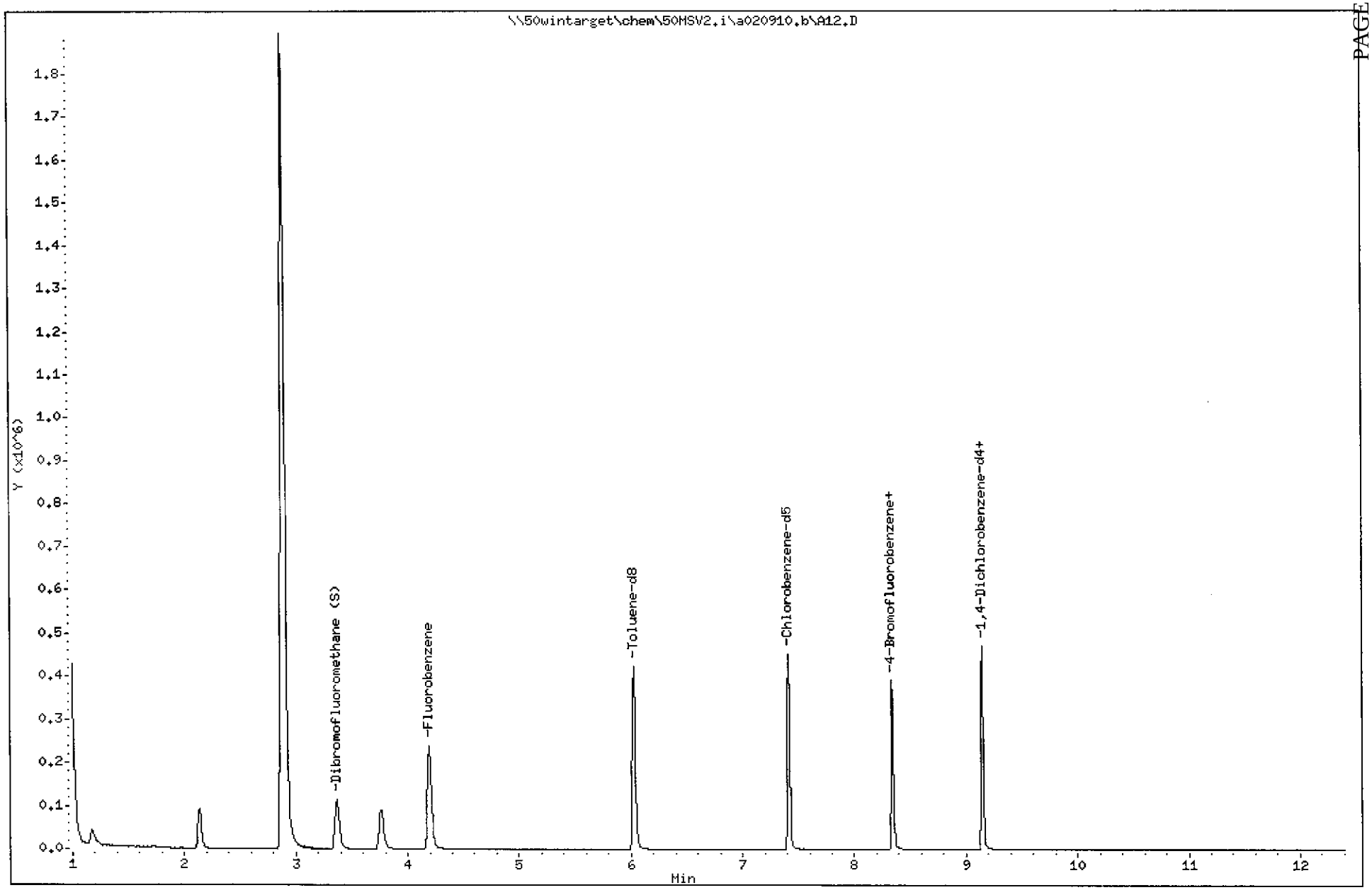
Client Name:
Lab Smp Id: 5034508004
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a020910.b
Client Smp ID: 5034508004
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-01-4	Vinyl Chloride	16.5	
107-02-8	Acrolein	1.89	
156-60-5	1,2-Dichloroethene (trans)	22.6	
156-59-2	1,2-Dichloroethene (cis)	487	
628-63-7	n-amyl acetate	14.5	
103-65-1	n-Propylbenzene	0.136	
108-67-8	1,3,5-Trimethylbenzene	0.173	
541-73-1	1,3-Dichlorobenzene	0.219	
106-46-7	1,4-Dichlorobenzene	0.215	
1868-53-7	Dibromofluoromethane (S)	48.2	
2037-26-5	Toluene-d8	57.1	
460-00-4	4-Bromofluorobenzene	48.8	

Data File: \\50wintarget\chem\50MSV2.i\a020910.b\A12.D
Date : 09-FEB-2010 17:36
Client ID: 5034508004
Sample Info: 5034508004
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a021010.b\A04.D
Lab Smp Id: 5034508004 Client Smp ID: 5034508004
Inj Date : 10-FEB-2010 14:19
Operator : jlf Inst ID: 50MSV2.i
Smp Info : r5034508004-lvl4,10
Misc Info : 21592
Comment :
Method : \\50wintarget\chem\50MSV2.i\a021010.b\-8260-c1.m
Meth Date : 11-Feb-2010 10:29 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 9
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
25 1,2-Dichloroethene (cis)	96	2.886	2.876	(0.690)	126541	41.8574	418
$ 32 Dibromofluoromethane (S)	113	3.351	3.356	(0.801)	116897	50.1899	50.2
* 40 Fluorobenzene	96	4.183	4.178	(1.000)	380333	50.0000	
$ 49 Toluene-d8	98	6.012	6.013	(0.812)	336929	57.4953	57.5
* 59 Chlorobenzene-d5	117	7.403	7.403	(1.000)	278390	50.0000	
$ 70 4-Bromofluorobenzene	95	8.333	8.333	(1.126)	121382	49.2516	49.2
81 1,3-Dichlorobenzene	146	9.160	9.093	(1.002)	614	0.16588	1.66(Q)
* 82 1,4-Dichlorobenzene-d4	152	9.139	9.140	(1.000)	120394	50.0000	
84 1,4-Dichlorobenzene	146	9.160	9.155	(1.002)	614	0.15986	1.60(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A04.D
Lab Smp Id: 5034508004
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a021010.b\-8260-c1.m
Misc Info: 21592

Calibration Date: 10-FEB-2010
Calibration Time: 12:38
Client Smp ID: 5034508004
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	372422	186211	744844	380333	2.12
59 Chlorobenzene-d5	275548	137774	551096	278390	1.03
82 1,4-Dichlorobenze	119629	59815	239258	120394	0.64

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.18	3.68	4.68	4.18	0.12
59 Chlorobenzene-d5	7.40	6.90	7.90	7.40	-0.00
82 1,4-Dichlorobenze	9.14	8.64	9.64	9.14	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5034508004
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCSfulllist.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a021010.b\-8260-c1.m
Misc Info: 21592

Client SDG: a021010.b
Fraction: VOA
Client Smp ID: 5034508004
Operator: jlf
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	50.2	100.38	82-122
$ 49 Toluene-d8	50.0	57.5	114.99	80-120
$ 70 4-Bromofluorobenze	50.0	49.2	98.50	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

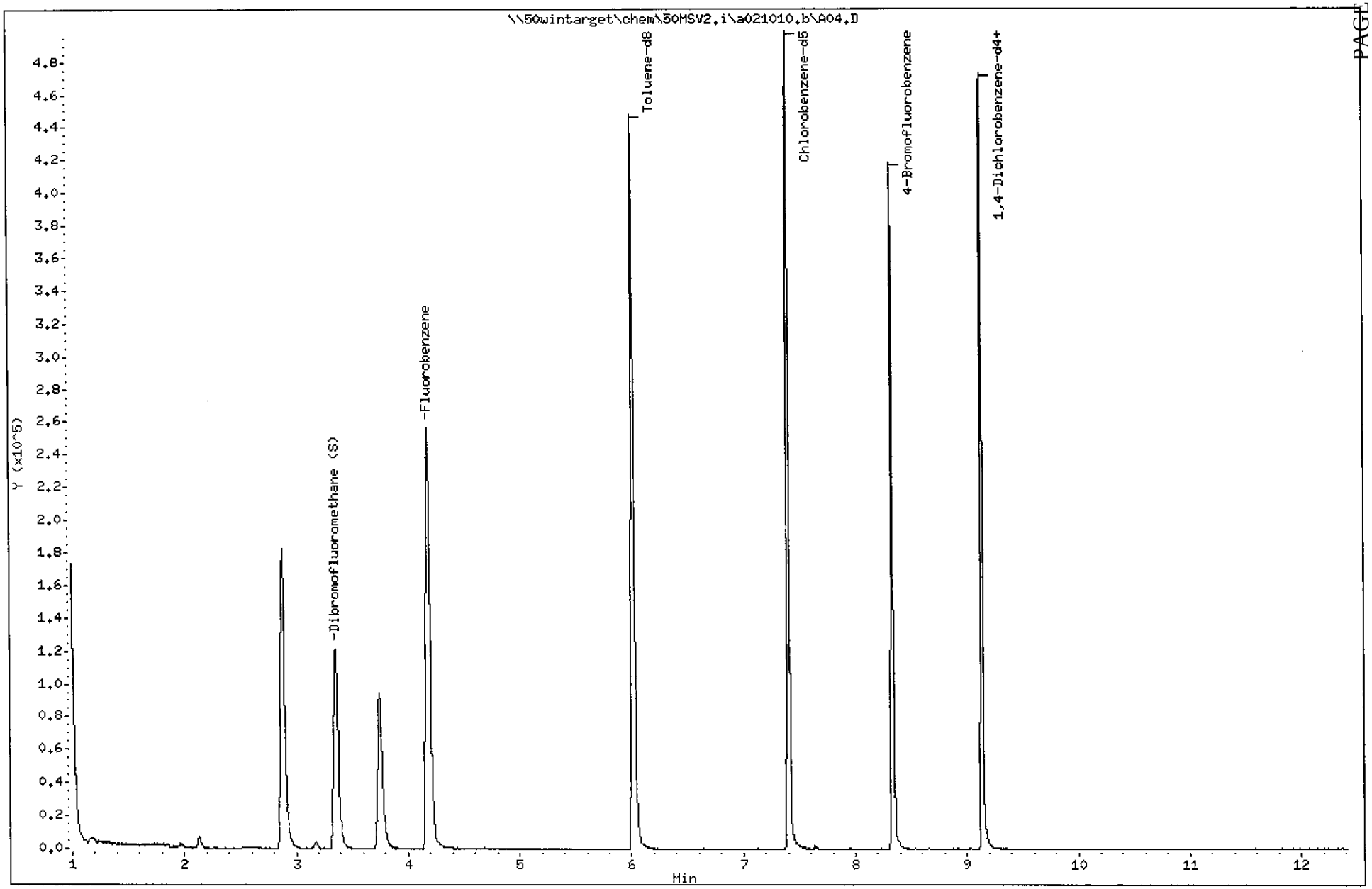
Client Name:
Lab Smp Id: 5034508004
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 21592

Client SDG: a021010.b
Client Smp ID: 5034508004
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
156-59-2	1,2-Dichloroethene (cis)	418	
541-73-1	1,3-Dichlorobenzene	1.66	
106-46-7	1,4-Dichlorobenzene	1.60	
1868-53-7	Dibromofluoromethane (S)	50.2	
2037-26-5	Toluene-d8	57.5	
460-00-4	4-Bromofluorobenzene	49.2	

Data File: \\50wintarget\chem\50MSV2.i\a021010.b\A04.D
Date : 10-FEB-2010 14:19
Client ID: 5034508004
Sample Info: r5034508004-lvl4,10
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a020910.b\A13.D
Lab Smp Id: 5034508005 Client Smp ID: 5034508005
Inj Date : 09-FEB-2010 18:10
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 5034508005
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Meth Date : 10-Feb-2010 11:41 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
3 Vinyl Chloride	62	1.175	1.176	(0.280)	60992	17.0156	17.0
18 1,2-Dichloroethene (trans)	96	2.141	2.138	(0.511)	51950	22.7719	22.8
25 1,2-Dichloroethene (cis)	96	2.886	2.887	(0.688)	1317569	501.605	502
$ 32 Dibromofluoromethane (S)	113	3.366	3.363	(0.803)	104897	49.5134	49.5
* 40 Fluorobenzene	96	4.193	4.195	(1.000)	345953	50.0000	
$ 49 Toluene-d8	98	6.023	6.024	(0.812)	305878	56.5479	56.5
* 59 Chlorobenzene-d5	117	7.413	7.415	(1.000)	256968	50.0000	
$ 70 4-Bromofluorobenzene	95	8.338	8.340	(1.125)	112655	49.5212	49.5
* 82 1,4-Dichlorobenzene-d4	152	9.145	9.146	(1.000)	112793	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A13.D
Lab Smp Id: 5034508005
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Misc Info:

Calibration Date: 09-FEB-2010
Calibration Time: 23:50
Client Smp ID: 5034508005
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	335209	167605	670418	345953	3.21
59 Chlorobenzene-d5	251681	125841	503362	256968	2.10
82 1,4-Dichlorobenze	109139	54570	218278	112793	3.35

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.20	3.70	4.70	4.19	-0.04
59 Chlorobenzene-d5	7.42	6.92	7.92	7.41	-0.02
82 1,4-Dichlorobenze	9.15	8.65	9.65	9.15	-0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5034508005
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCSfulllist.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Misc Info:

Client SDG: a020910.b
Fraction: VOA
Client Smp ID: 5034508005
Operator: jlf
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	49.5	99.03	82-122
$ 49 Toluene-d8	50.0	56.5	113.10	80-120
$ 70 4-Bromofluorobenze	50.0	49.5	99.04	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

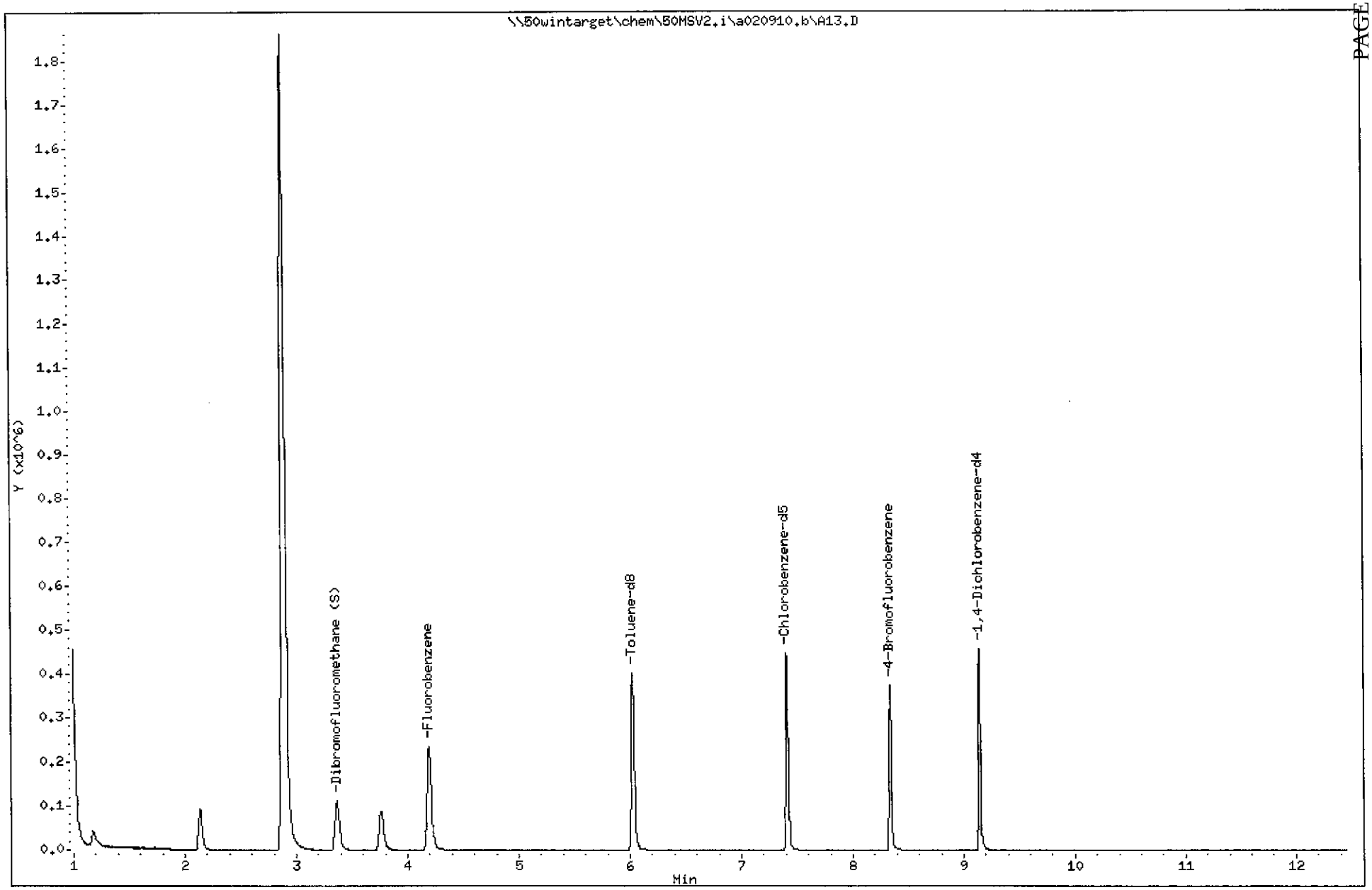
Client Name:
Lab Smp Id: 5034508005
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a020910.b
Client Smp ID: 5034508005
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-01-4	Vinyl Chloride	17.0	
156-60-5	1,2-Dichloroethene (trans)	22.8	
156-59-2	1,2-Dichloroethene (cis)	502	
1868-53-7	Dibromofluoromethane (S)	49.5	
2037-26-5	Toluene-d8	56.5	
460-00-4	4-Bromofluorobenzene	49.5	

Data File: \\50wintarget\chem\50MSV2.i\a020910.b\A13.D
Date : 09-FEB-2010 18:10
Client ID: 5034508005
Sample Info: 5034508005
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a021010.b\A05.D
Lab Smp Id: 5034508005 Client Smp ID: 5034508005
Inj Date : 10-FEB-2010 14:53
Operator : jlf Inst ID: 50MSV2.i
Smp Info : r5034508005,10
Misc Info : 21592
Comment :
Method : \\50wintarget\chem\50MSV2.i\a021010.b\-8260-c1.m
Meth Date : 11-Feb-2010 10:29 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 11
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
18 1,2-Dichloroethene (trans)	96	2.131	2.126	(0.510)	4129	0.01400	0.140
25 1,2-Dichloroethene (cis)	96	2.881	2.876	(0.689)	132149	44.3008	443
$ 32 Dibromofluoromethane (S)	113	3.356	3.356	(0.802)	115602	50.1664	50.2
* 40 Fluorobenzene	96	4.183	4.178	(1.000)	376296	50.0000	
$ 49 Toluene-d8	98	6.013	6.013	(0.812)	332825	57.1294	57.1
* 59 Chlorobenzene-d5	117	7.403	7.403	(1.000)	276760	50.0000	
$ 70 4-Bromofluorobenzene	95	8.333	8.333	(1.126)	118890	48.5246	48.5
* 82 1,4-Dichlorobenzene-d4	152	9.140	9.140	(1.000)	117490	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A05.D
Lab Smp Id: 5034508005
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a021010.b\-8260-c1.m
Misc Info: 21592

Calibration Date: 10-FEB-2010
Calibration Time: 12:38
Client Smp ID: 5034508005
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	372422	186211	744844	376296	1.04
59 Chlorobenzene-d5	275548	137774	551096	276760	0.44
82 1,4-Dichlorobenze	119629	59815	239258	117490	-1.79

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.18	3.68	4.68	4.18	0.12
59 Chlorobenzene-d5	7.40	6.90	7.90	7.40	-0.00
82 1,4-Dichlorobenze	9.14	8.64	9.64	9.14	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5034508005
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCSfulllist.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a021010.b\-8260-c1.m
Misc Info: 21592

Client SDG: a021010.b
Fraction: VOA
Client Smp ID: 5034508005
Operator: jlf
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	50.2	100.33	82-122
$ 49 Toluene-d8	50.0	57.1	114.26	80-120
$ 70 4-Bromofluorobenze	50.0	48.5	97.05	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

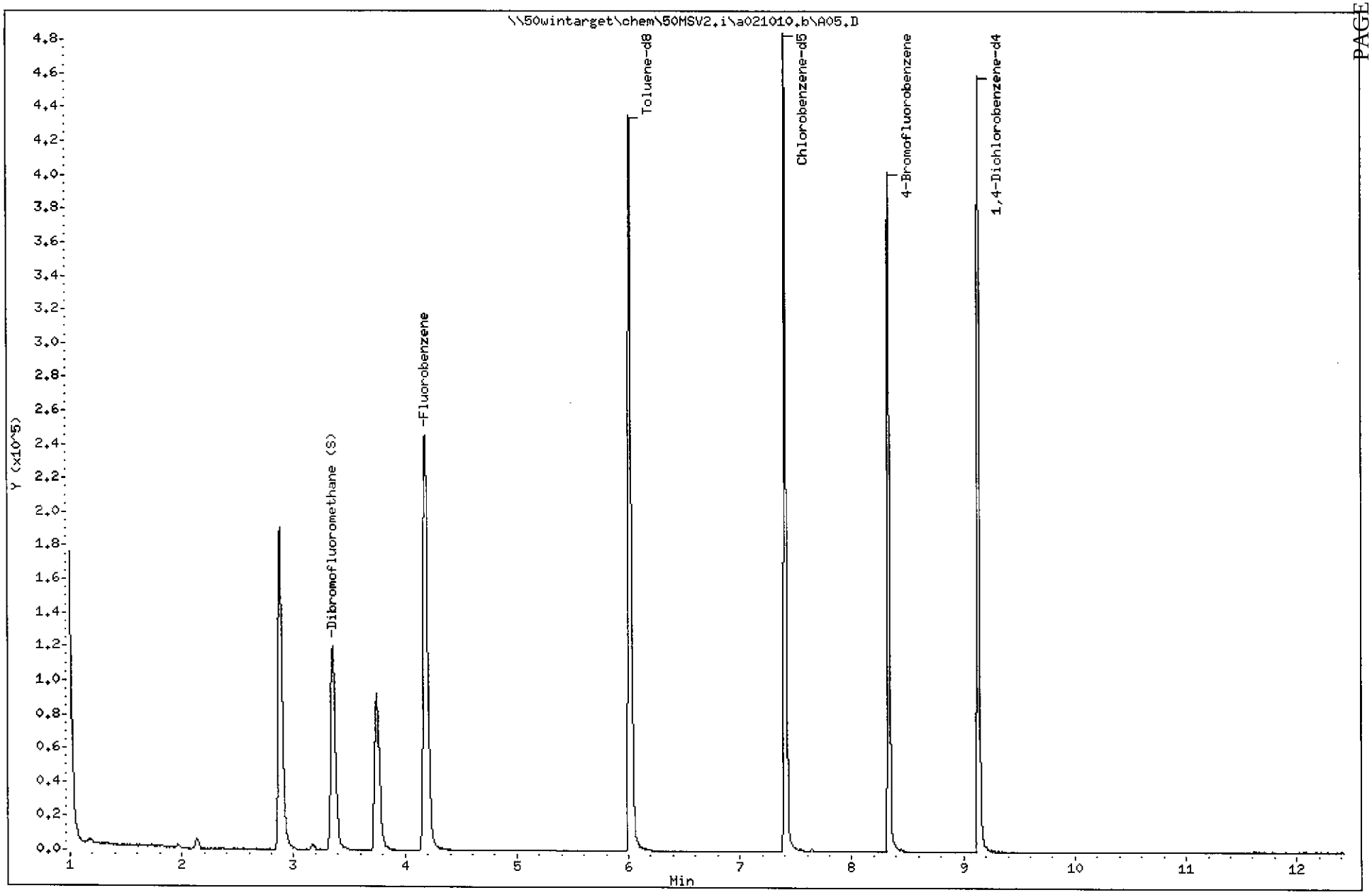
Client Name:
Lab Smp Id: 5034508005
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 21592

Client SDG: a021010.b
Client Smp ID: 5034508005
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
156-60-5	1,2-Dichloroethene (trans)	0.140	
156-59-2	1,2-Dichloroethene (cis)	443	
1868-53-7	Dibromofluoromethane (S)	50.2	
2037-26-5	Toluene-d8	57.1	
460-00-4	4-Bromofluorobenzene	48.5	

Data File: \\50wintarget\chem\50MSV2.i\a021010.b\A05.D
Date : 10-FEB-2010 14:53
Client ID: 5034508005
Sample Info: r5034508005,10
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a020910.b\A14.D
Lab Smp Id: 5034508006 Client Smp ID: 5034508006
Inj Date : 09-FEB-2010 18:44
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 5034508006
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Meth Date : 10-Feb-2010 11:41 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 29
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
25 1,2-Dichloroethene (cis)	96	2.896	2.887	(0.691)	8579	1.03707	1.04
$ 32 Dibromofluoromethane (S)	113	3.367	3.363	(0.803)	109937	50.4293	50.4
* 40 Fluorobenzene	96	4.194	4.195	(1.000)	355990	50.0000	
$ 49 Toluene-d8	98	6.023	6.024	(0.812)	314387	57.2514	57.2
* 59 Chlorobenzene-d5	117	7.414	7.415	(1.000)	260871	50.0000	
$ 70 4-Bromofluorobenzene	95	8.339	8.340	(1.125)	114633	49.6368	49.6
* 82 1,4-Dichlorobenzene-d4	152	9.145	9.146	(1.000)	116606	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A14.D
Lab Smp Id: 5034508006
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Misc Info:

Calibration Date: 09-FEB-2010
Calibration Time: 23:50
Client Smp ID: 5034508006
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	335209	167605	670418	355990	6.20
59 Chlorobenzene-d5	251681	125841	503362	260871	3.65
82 1,4-Dichlorobenze	109139	54570	218278	116606	6.84

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.20	3.70	4.70	4.19	-0.03
59 Chlorobenzene-d5	7.42	6.92	7.92	7.41	-0.01
82 1,4-Dichlorobenze	9.15	8.65	9.65	9.15	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5034508006
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCSfulllist.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Misc Info:

Client SDG: a020910.b
Fraction: VOA
Client Smp ID: 5034508006
Operator: jlf
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	50.4	100.86	82-122
$ 49 Toluene-d8	50.0	57.2	114.50	80-120
$ 70 4-Bromofluorobenze	50.0	49.6	99.27	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

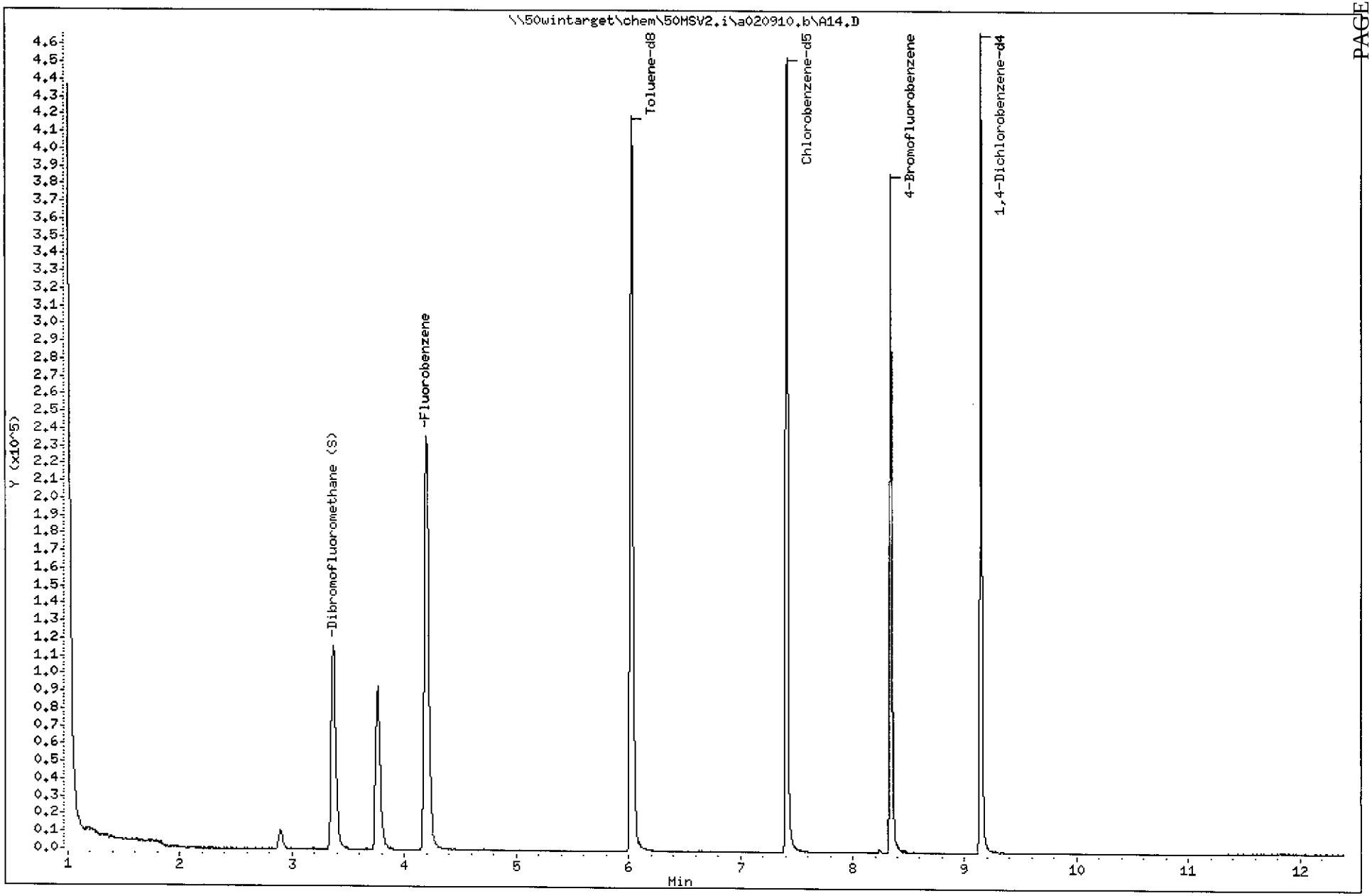
Client Name:
Lab Smp Id: 5034508006
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a020910.b
Client Smp ID: 5034508006
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
156-59-2	1,2-Dichloroethene (cis)	1.04	
1868-53-7	Dibromofluoromethane (S)	50.4	
2037-26-5	Toluene-d8	57.2	
460-00-4	4-Bromofluorobenzene	49.6	

Data File: \\50wintarget\chem\50MSV2.i\a020910.b\A14.D
Date : 09-FEB-2010 18:44
Client ID: 5034508006
Sample Info: 5034508006
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a020910.b\A15.D
Lab Smp Id: 5034508007 Client Smp ID: 5034508007
Inj Date : 09-FEB-2010 19:18
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 5034508007
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Meth Date : 10-Feb-2010 11:41 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 31
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
3 Vinyl Chloride	62	1.176	1.176	(0.280)	875409	286.287	286
25 1,2-Dichloroethene (cis)	96	2.887	2.887	(0.688)	673478	255.206	255
$ 32 Dibromofluoromethane (S)	113	3.367	3.363	(0.803)	103586	48.8682	48.9
* 40 Fluorobenzene	96	4.194	4.195	(1.000)	346140	50.0000	
$ 49 Toluene-d8	98	6.024	6.024	(0.813)	307432	56.3067	56.3
* 59 Chlorobenzene-d5	117	7.409	7.415	(1.000)	259380	50.0000	
$ 70 4-Bromofluorobenzene	95	8.340	8.340	(1.126)	112885	49.1609	49.2
* 82 1,4-Dichlorobenzene-d4	152	9.146	9.146	(1.000)	114421	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A15.D
Lab Smp Id: 5034508007
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Misc Info:

Calibration Date: 09-FEB-2010
Calibration Time: 23:50
Client Smp ID: 5034508007
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	335209	167605	670418	346140	3.26
59 Chlorobenzene-d5	251681	125841	503362	259380	3.06
82 1,4-Dichlorobenze	109139	54570	218278	114421	4.84

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.20	3.70	4.70	4.19	-0.01
59 Chlorobenzene-d5	7.42	6.92	7.92	7.41	-0.07
82 1,4-Dichlorobenze	9.15	8.65	9.65	9.15	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5034508007
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCSfulllist.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Misc Info:

Client SDG: a020910.b
Fraction: VOA
Client Smp ID: 5034508007
Operator: jlf
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	48.9	97.74	82-122
$ 49 Toluene-d8	50.0	56.3	112.61	80-120
$ 70 4-Bromofluorobenze	50.0	49.2	98.32	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

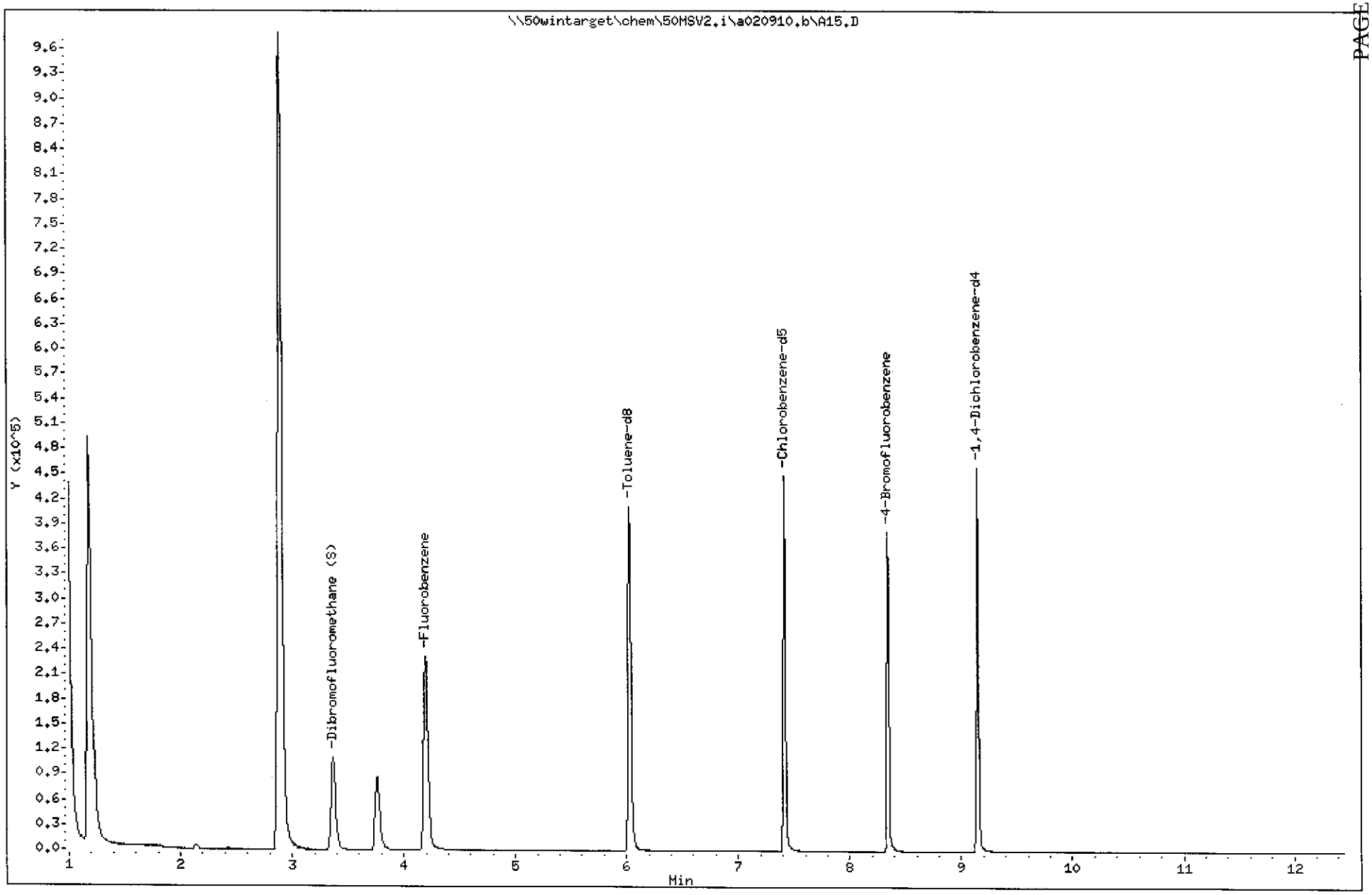
Client Name:
Lab Smp Id: 5034508007
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a020910.b
Client Smp ID: 5034508007
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-01-4	Vinyl Chloride	286	
156-59-2	1,2-Dichloroethene (cis)	255	
1868-53-7	Dibromofluoromethane (S)	48.9	
2037-26-5	Toluene-d8	56.3	
460-00-4	4-Bromofluorobenzene	49.2	

Data File: \\50wintarget\chem\50MSV2.i\a020910.b\A15.D
Date : 09-FEB-2010 19:18
Client ID: 5034508007
Sample Info: 5034508007
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a020910.b\A16.D
Lab Smp Id: 5034508008 Client Smp ID: 5034508008
Inj Date : 09-FEB-2010 19:52
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 5034508008
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Meth Date : 10-Feb-2010 11:41 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 33
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
3 Vinyl Chloride	62	1.177	1.176	(0.281)	18237	2.81351	2.81
18 1,2-Dichloroethene (trans)	96	2.148	2.138	(0.512)	14504	5.00911	5.01
25 1,2-Dichloroethene (cis)	96	2.887	2.887	(0.688)	425653	159.036	159
$ 32 Dibromofluoromethane (S)	113	3.368	3.363	(0.803)	105090	49.1302	49.1
* 40 Fluorobenzene	96	4.195	4.195	(1.000)	349293	50.0000	
$ 49 Toluene-d8	98	6.025	6.024	(0.813)	311495	57.1621	57.2
* 59 Chlorobenzene-d5	117	7.410	7.415	(1.000)	258875	50.0000	
$ 70 4-Bromofluorobenzene	95	8.340	8.340	(1.126)	112193	48.9548	49.0
* 82 1,4-Dichlorobenzene-d4	152	9.146	9.146	(1.000)	114654	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A16.D
Lab Smp Id: 5034508008
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Misc Info:

Calibration Date: 09-FEB-2010
Calibration Time: 23:50
Client Smp ID: 5034508008
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	335209	167605	670418	349293	4.20
59 Chlorobenzene-d5	251681	125841	503362	258875	2.86
82 1,4-Dichlorobenze	109139	54570	218278	114654	5.05

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.20	3.70	4.70	4.20	0.01
59 Chlorobenzene-d5	7.42	6.92	7.92	7.41	-0.07
82 1,4-Dichlorobenze	9.15	8.65	9.65	9.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5034508008
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCSfulllist.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Misc Info:

Client SDG: a020910.b
Fraction: VOA
Client Smp ID: 5034508008
Operator: jlf
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	49.1	98.26	82-122
$ 49 Toluene-d8	50.0	57.2	114.32	80-120
$ 70 4-Bromofluorobenze	50.0	49.0	97.91	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

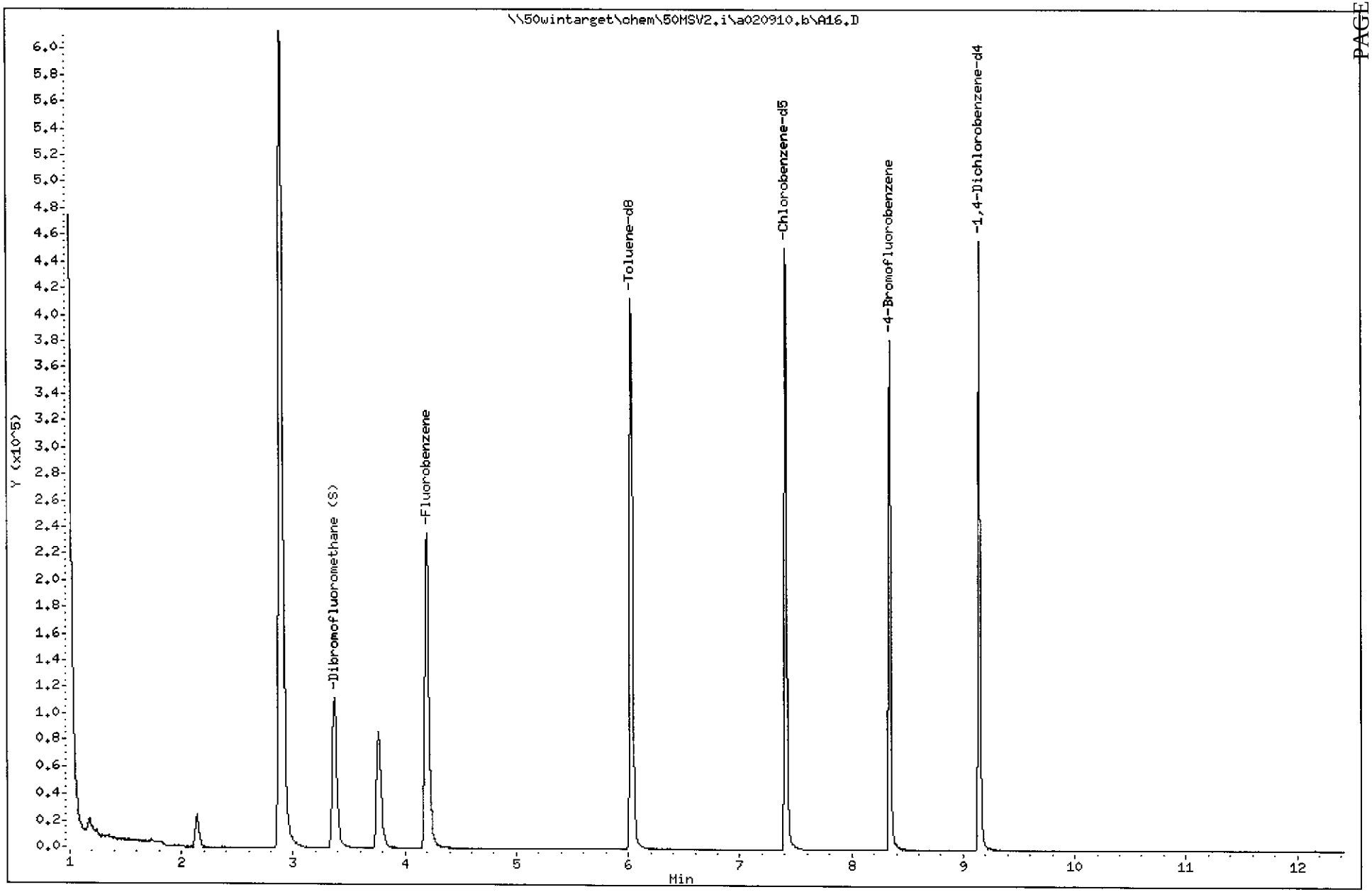
Client Name:
Lab Smp Id: 5034508008
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a020910.b
Client Smp ID: 5034508008
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-01-4	Vinyl Chloride	2.81	
156-60-5	1,2-Dichloroethene (trans)	5.01	
156-59-2	1,2-Dichloroethene (cis)	159	
1868-53-7	Dibromofluoromethane (S)	49.1	
2037-26-5	Toluene-d8	57.2	
460-00-4	4-Bromofluorobenzene	49.0	

Data File: \\50wintarget\chem\50MSV2.i\a020910.b\A16.D
Date : 09-FEB-2010 19:52
Client ID: 5034508008
Sample Info: 5034508008
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a020910.b\A17.D
Lab Smp Id: 5034508009 Client Smp ID: 5034508009
Inj Date : 09-FEB-2010 20:26
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 5034508009
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Meth Date : 10-Feb-2010 11:41 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 35
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
3 Vinyl Chloride	62	1.176	1.176	(0.280)	713021	233.263	233
18 1,2-Dichloroethene (trans)	96	2.143	2.138	(0.510)	10247	3.07386	3.07
25 1,2-Dichloroethene (cis)	96	2.887	2.887	(0.687)	2236410	854.872	855
$ 32 Dibromofluoromethane (S)	113	3.368	3.363	(0.802)	103091	48.7725	48.8
* 40 Fluorobenzene	96	4.200	4.195	(1.000)	345162	50.0000	
$ 49 Toluene-d8	98	6.024	6.024	(0.813)	310000	57.1769	57.2
* 59 Chlorobenzene-d5	117	7.415	7.415	(1.000)	257566	50.0000	
$ 70 4-Bromofluorobenzene	95	8.340	8.340	(1.125)	112076	49.1523	49.2
* 82 1,4-Dichlorobenzene-d4	152	9.146	9.146	(1.000)	111739	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A17.D
Lab Smp Id: 5034508009
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Misc Info:

Calibration Date: 09-FEB-2010
Calibration Time: 23:50
Client Smp ID: 5034508009
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	335209	167605	670418	345162	2.97
59 Chlorobenzene-d5	251681	125841	503362	257566	2.34
82 1,4-Dichlorobenze	109139	54570	218278	111739	2.38

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.20	3.70	4.70	4.20	0.13
59 Chlorobenzene-d5	7.42	6.92	7.92	7.42	0.00
82 1,4-Dichlorobenze	9.15	8.65	9.65	9.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5034508009
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCSfulllist.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Misc Info:

Client SDG: a020910.b
Fraction: VOA
Client Smp ID: 5034508009
Operator: jlf
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	48.8	97.54	82-122
$ 49 Toluene-d8	50.0	57.2	114.35	80-120
$ 70 4-Bromofluorobenze	50.0	49.2	98.30	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

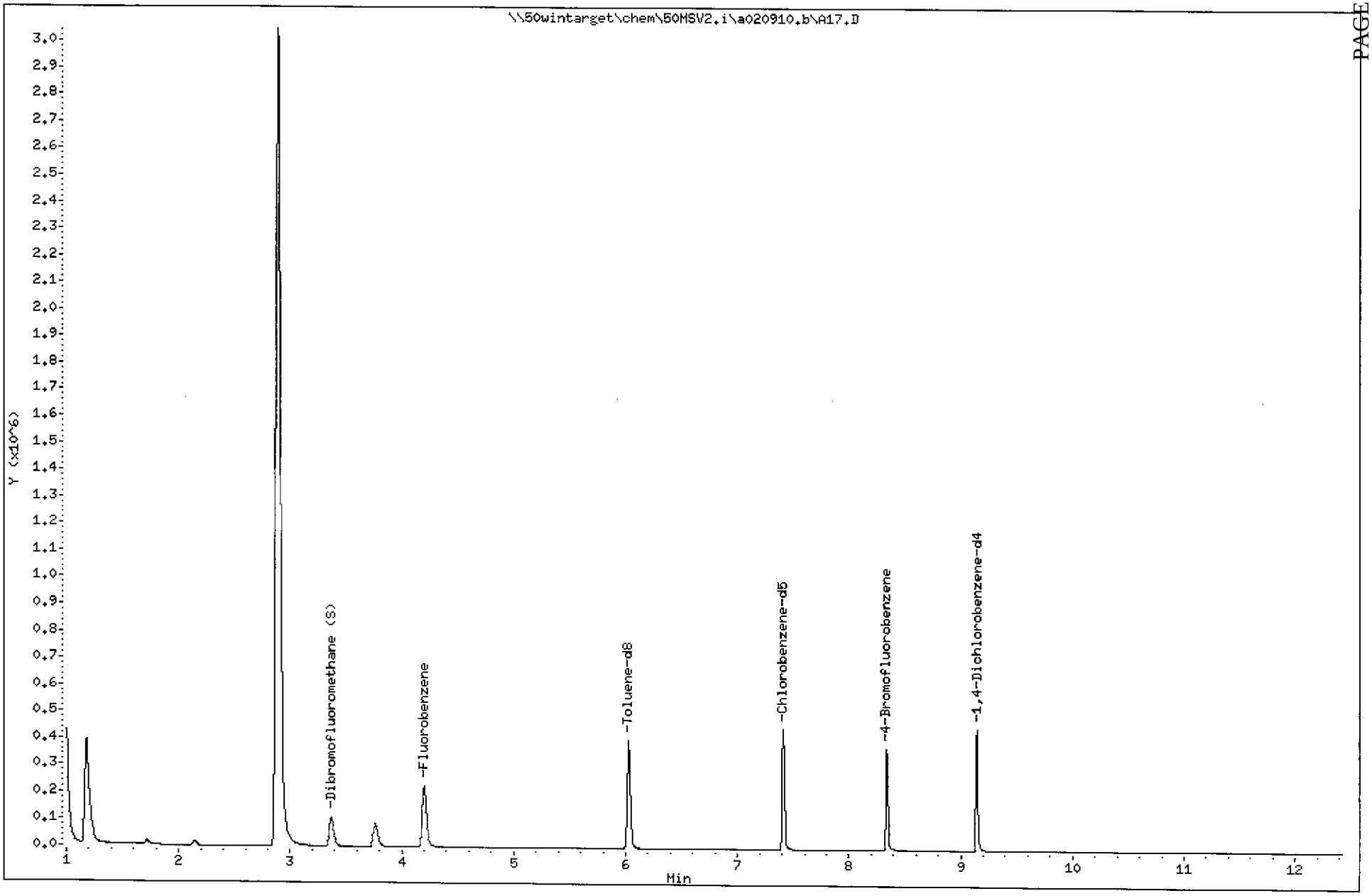
Client Name:
Lab Smp Id: 5034508009
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a020910.b
Client Smp ID: 5034508009
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-01-4	Vinyl Chloride	233	
156-60-5	1,2-Dichloroethene (trans)	3.07	
156-59-2	1,2-Dichloroethene (cis)	855	
1868-53-7	Dibromofluoromethane (S)	48.8	
2037-26-5	Toluene-d8	57.2	
460-00-4	4-Bromofluorobenzene	49.2	

Data File: \\50wintarget\chem\50MSV2.i\a020910.b\A17.D
Date : 09-FEB-2010 20:26
Client ID: 5034508009
Sample Info: 5034508009
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a021010.b\A06.D
Lab Smp Id: 5034508009 Client Smp ID: 5034508009
Inj Date : 10-FEB-2010 15:27
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 5034508009,10
Misc Info : 21592
Comment :
Method : \\50wintarget\chem\50MSV2.i\a021010.b\-8260-c1.m
Meth Date : 11-Feb-2010 10:29 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 13
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
3 Vinyl Chloride	62	1.175	1.170	(0.281)	63744	16.4946	165
25 1,2-Dichloroethene (cis)	96	2.880	2.876	(0.689)	229629	79.6858	797
$ 32 Dibromofluoromethane (S)	113	3.356	3.356	(0.802)	114926	50.5650	50.6
* 40 Fluorobenzene	96	4.183	4.178	(1.000)	371146	50.0000	
$ 49 Toluene-d8	98	6.017	6.013	(0.813)	329594	56.6206	56.6
* 59 Chlorobenzene-d5	117	7.403	7.403	(1.000)	276536	50.0000	
62 Ethylbenzene	106	7.640	7.532	(1.032)	446	0.14511	1.45(Q)
$ 70 4-Bromofluorobenzene	95	8.333	8.333	(1.126)	119733	48.9082	48.9
* 82 1,4-Dichlorobenzene-d4	152	9.139	9.140	(1.000)	119635	50.0000	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A06.D
Lab Smp Id: 5034508009
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a021010.b\-8260-c1.m
Misc Info: 21592

Calibration Date: 10-FEB-2010
Calibration Time: 12:38
Client Smp ID: 5034508009
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	372422	186211	744844	371146	-0.34
59 Chlorobenzene-d5	275548	137774	551096	276536	0.36
82 1,4-Dichlorobenze	119629	59815	239258	119635	0.01

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.18	3.68	4.68	4.18	0.11
59 Chlorobenzene-d5	7.40	6.90	7.90	7.40	-0.01
82 1,4-Dichlorobenze	9.14	8.64	9.64	9.14	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5034508009
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCSfulllist.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a021010.b\-8260-c1.m
Misc Info: 21592

Client SDG: a021010.b
Fraction: VOA
Client Smp ID: 5034508009
Operator: jlf
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	50.6	101.13	82-122
$ 49 Toluene-d8	50.0	56.6	113.24	80-120
$ 70 4-Bromofluorobenze	50.0	48.9	97.82	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

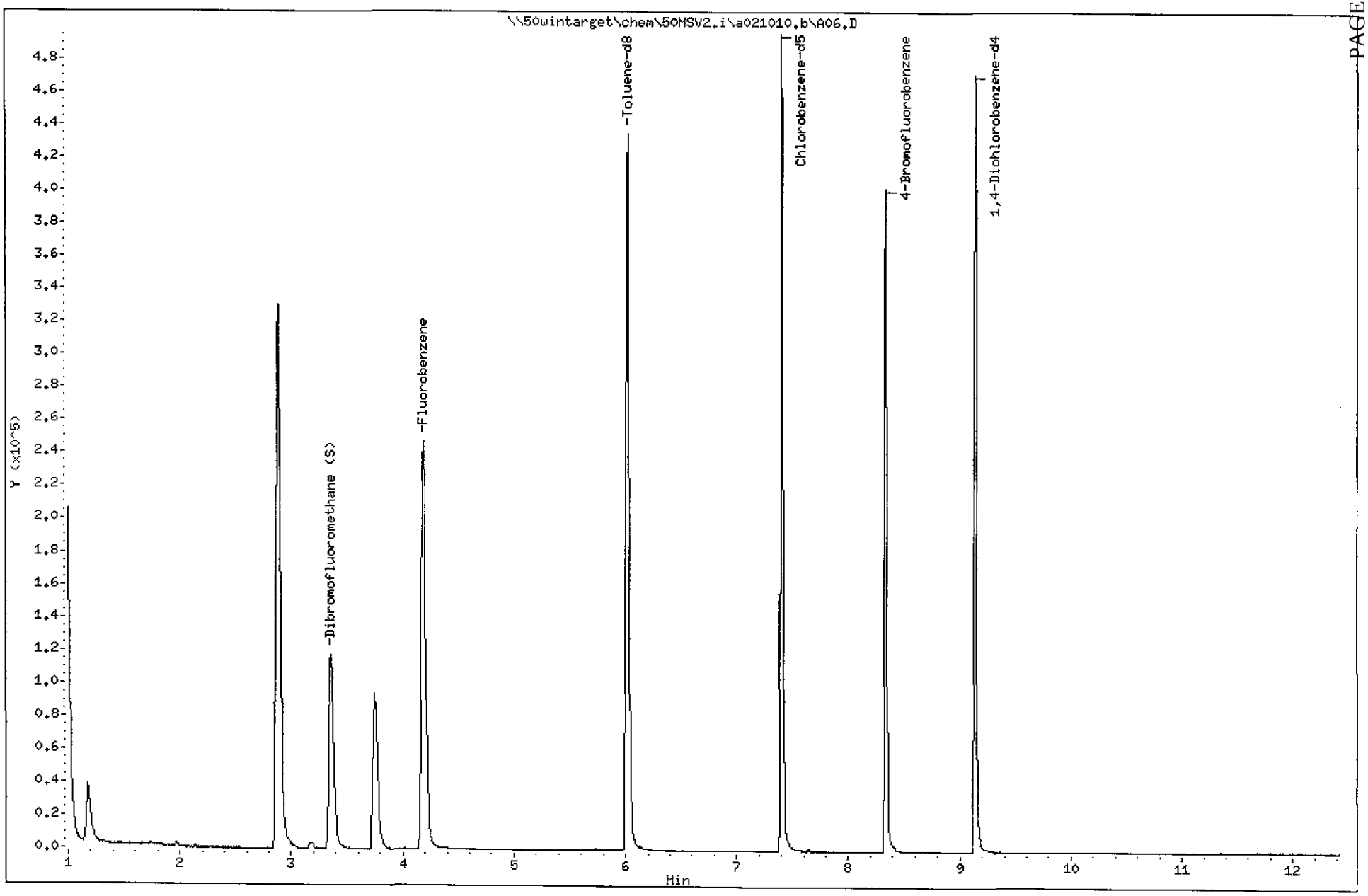
Client Name:
Lab Smp Id: 5034508009
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 21592

Client SDG: a021010.b
Client Smp ID: 5034508009
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-01-4	Vinyl Chloride	165	
156-59-2	1,2-Dichloroethene (cis)	797	
100-41-4	Ethylbenzene	1.45	
1868-53-7	Dibromofluoromethane (S)	50.6	
2037-26-5	Toluene-d8	56.6	
460-00-4	4-Bromofluorobenzene	48.9	

Data File: \\50wintarget\chem\50MSV2.i\a021010.b\A06.D
Date : 10-FEB-2010 15:27
Client ID: 5034508009
Sample Info: 5034508009,10
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\a020910.b\A18.D
Lab Smp Id: 5034508010 Client Smp ID: 5034508010
Inj Date : 09-FEB-2010 21:00
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 5034508010eb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Meth Date : 10-Feb-2010 11:41 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 37
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
25 1,2-Dichloroethene (cis)	96	2.901	2.887	(0.691)	5862	0.08359	0.0836
$ 32 Dibromofluoromethane (S)	113	3.366	3.363	(0.802)	108841	51.2112	51.2
* 40 Fluorobenzene	96	4.198	4.195	(1.000)	347060	50.0000	
$ 49 Toluene-d8	98	6.028	6.024	(0.813)	306875	56.9570	57.0
* 59 Chlorobenzene-d5	117	7.413	7.415	(1.000)	255954	50.0000	
$ 70 4-Bromofluorobenzene	95	8.338	8.340	(1.125)	111158	49.0567	49.0
* 82 1,4-Dichlorobenzene-d4	152	9.145	9.146	(1.000)	110901	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A18.D
Lab Smp Id: 5034508010
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Misc Info:

Calibration Date: 09-FEB-2010
Calibration Time: 23:50
Client Smp ID: 5034508010
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	335209	167605	670418	347060	3.54
59 Chlorobenzene-d5	251681	125841	503362	255954	1.70
82 1,4-Dichlorobenze	109139	54570	218278	110901	1.61

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.20	3.70	4.70	4.20	0.09
59 Chlorobenzene-d5	7.42	6.92	7.92	7.41	-0.02
82 1,4-Dichlorobenze	9.15	8.65	9.65	9.14	-0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5034508010
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCSfulllist.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Misc Info:

Client SDG: a020910.b
Fraction: VOA
Client Smp ID: 5034508010
Operator: jlf
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	51.2	102.42	82-122
$ 49 Toluene-d8	50.0	57.0	113.91	80-120
$ 70 4-Bromofluorobenze	50.0	49.0	98.11	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

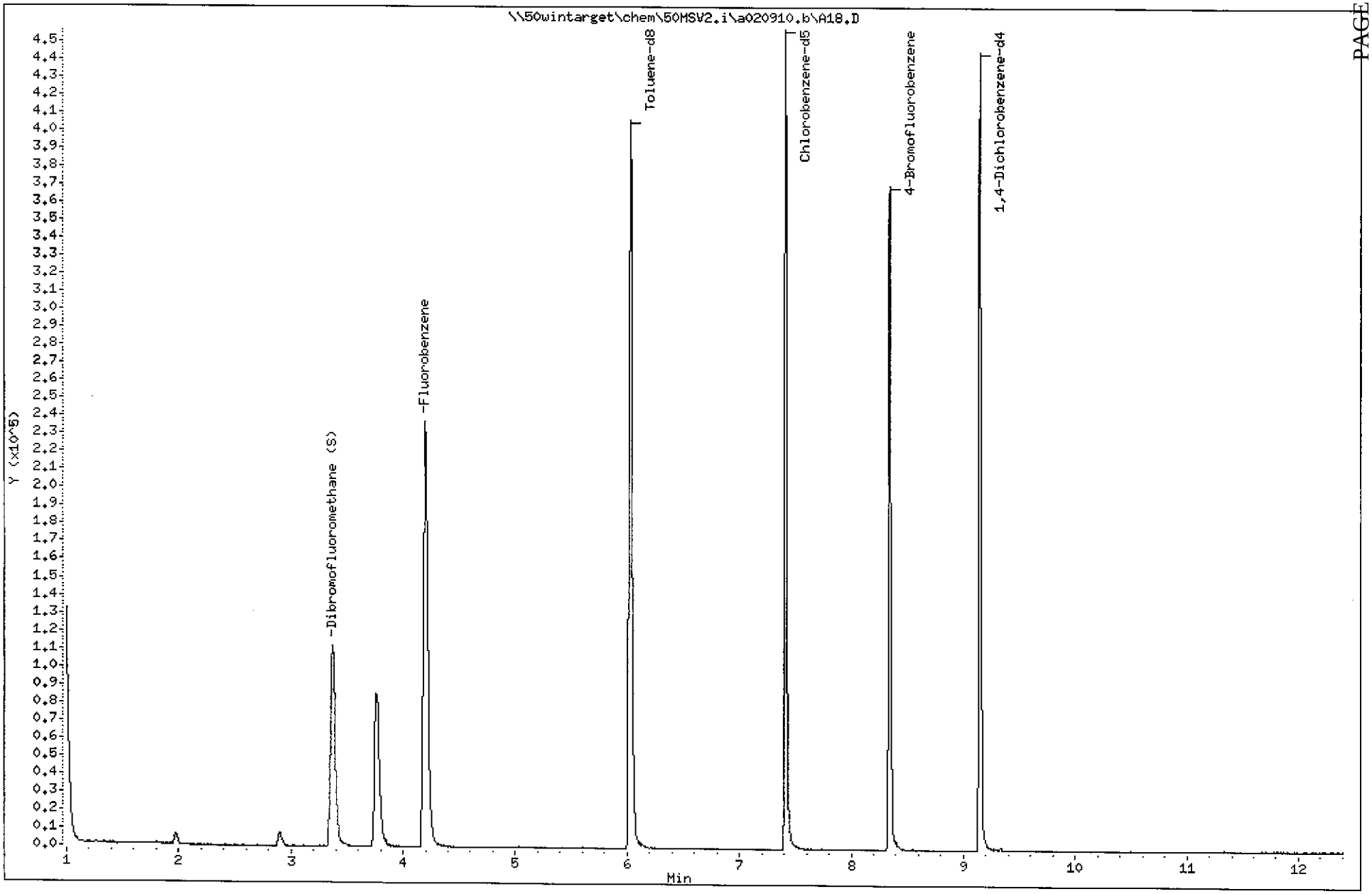
Client Name:
Lab Smp Id: 5034508010
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a020910.b
Client Smp ID: 5034508010
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
156-59-2	1,2-Dichloroethene (cis)	0.0836	
1868-53-7	Dibromofluoromethane (S)	51.2	
2037-26-5	Toluene-d8	57.0	
460-00-4	4-Bromofluorobenzene	49.0	

Data File: \\50wintarget\chem\50MSV2.i\a020910.b\A18.D
Date : 09-FEB-2010 21:00
Client ID: 5034508010
Sample Info: 5034508010eb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



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Data file : \\50wintarget\chem\50MSV2.i\a020910.b\A19.D
Lab Smp Id: 5034508011 Client Smp ID: 5034508011
Inj Date : 09-FEB-2010 21:34
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 5034508011tb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Meth Date : 10-Feb-2010 11:41 jfislar Quant Type: ISTD
Cal Date : 26-JAN-2010 16:56 Cal File: A08CAL.D
Als bottle: 39
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
$ 32 Dibromofluoromethane (S)	113	3.367	3.363	(0.802)	107410	50.9542	51.0
* 40 Fluorobenzene	96	4.199	4.195	(1.000)	344224	50.0000	
$ 49 Toluene-d8	98	6.029	6.024	(0.813)	306480	56.6272	56.6
* 59 Chlorobenzene-d5	117	7.414	7.415	(1.000)	257113	50.0000	
$ 70 4-Bromofluorobenzene	95	8.339	8.340	(1.125)	111932	49.1756	49.2
* 82 1,4-Dichlorobenzene-d4	152	9.145	9.146	(1.000)	111244	50.0000	

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INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A19.D
Lab Smp Id: 5034508011
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Misc Info:

Calibration Date: 09-FEB-2010
Calibration Time: 23:50
Client Smp ID: 5034508011
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	335209	167605	670418	344224	2.69
59 Chlorobenzene-d5	251681	125841	503362	257113	2.16
82 1,4-Dichlorobenze	109139	54570	218278	111244	1.93

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.20	3.70	4.70	4.20	0.10
59 Chlorobenzene-d5	7.42	6.92	7.92	7.41	-0.01
82 1,4-Dichlorobenze	9.15	8.65	9.65	9.15	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

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RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5034508011
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCSfulllist.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a020910.b\-8260-c1.m
Misc Info:

Client SDG: a020910.b
Fraction: VOA
Client Smp ID: 5034508011
Operator: jlf
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	51.0	101.91	82-122
$ 49 Toluene-d8	50.0	56.6	113.25	80-120
$ 70 4-Bromofluorobenze	50.0	49.2	98.35	73-120

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TARGET COMPOUNDS

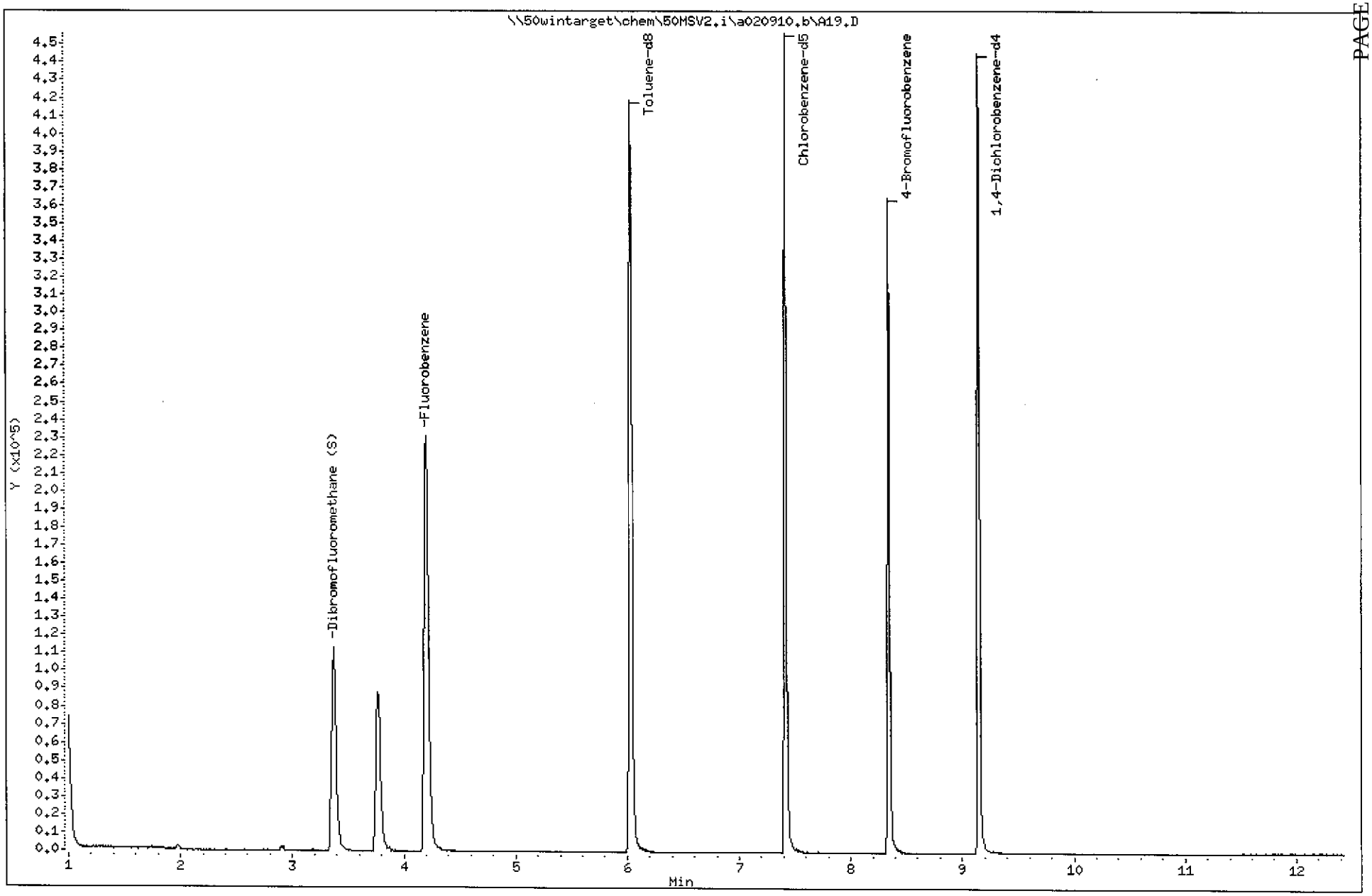
Client Name:
Lab Smp Id: 5034508011
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a020910.b
Client Smp ID: 5034508011
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
1868-53-7	Dibromofluoromethane (S)	51.0	
2037-26-5	Toluene-d8	56.6	
460-00-4	4-Bromofluorobenzene	49.2	

Data File: \\50wintarget\chem\50MSV2.i\a020910.b\A19.D
Date : 09-FEB-2010 21:34
Client ID: 5034508011
Sample Info: 5034508011tb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



PACE INDIANAPOLIS

GP / 2829E-001/ 5034229

SDG # 6073144
FOR
Total Organic Carbon by SM5310C

DATA DELIVERABLE

Pace Analytical Services

Project Manager: Anna Custer, Pace KS
913-563-1406

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CASE NARRATIVE

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PACE Indianapolis

GP / 2829E-001/ 5034229

Pace Project #6073144

Total Organic Carbon by SM5310C

Sample Receiving: No Discrepancies to report.

Holding Times: No Discrepancies to report.

Initial Calibration: No Discrepancies to report.

Calibration Verification: No Discrepancies to report.

Sample Analysis: No Discrepancies to report.

Sample Dilutions: No Discrepancies to report.

Sample Reanalysis: No Discrepancies to report.

Matrix Spike Summary: No Discrepancies to report.

RPD Summary: No Discrepancies to report.

LCS Summary: No Discrepancies to report.

Blank Summary: No Discrepancies to report.

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CHAIN OF CUSTODY

Chain of Custody

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Workorder: 5034229 **Workorder Name:** GP / 2829E-001 **Owner Received Date:** 1/27/2010 **Results Requested By:** 2/8/2010

Report To

Andrew Votaw
Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
Phone (317)875-5894
Fax (317)872-6189

Subcontract To

Pace Analytical Kansas
9608 Loiret Blvd
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Phone (913)599-5665

Requested Analysis

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: H2SO4	HCL					TOC 415	NO Guard Level 4											LAB USE ONLY
1	MW-151	1/27/2010 13:20	5034229008	Water	1						X			B275 15									001
2	MW-156	1/27/2010 13:00	5034229009	Water	1						X												002
3	MW-173	1/27/2010 11:40	5034231002	Water		1					X												
4	MW-163	1/27/2010 11:20	5034231003	Water	1						X												
5	IW-1	1/27/2010 11:00	5034231004	Water	1						X												
6	IW-2	1/27/2010 10:40	5034231005	Water	1						X												

6073144

Comments

Transfers	Released By	Date/Time	Received By	Date/Time
1	[illegible]	01/28/10 414pm	[illegible]	1/29/10 0920
2				
3				

Cooler Temperature on Receipt 3.0 °C | **Custody Seal** Y or (N) | **Received on Ice** (Y) or N | **Samples Intact** (Y) or N

99

Sample Condition Upon Receipt

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Client Name: PASI Indy Project # 6073144

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other _____

Tracking #: _____ Pace Shipping Label Used? ☐ Yes ☐ No

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☑ No

Optional
Proj. Due Date: 2/8/10
Proj. Name: 5034229/68/2879E-001

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Foam ☑ None ☐ Other _____

Thermometer Used: T-191 / T-194 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 3.0

Date and Initials of person examining contents: 1/29/10 KS

Temperature should be above freezing to 6°C

		Comments:
Chain of Custody present:	☑Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☑Yes ☐No ☐N/A	2.
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	3.
Sampler name & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used: KS 1/29/10	☑Yes ☑No ☐N/A	9. TOC not in glass. rec'd in plastic
-Pace containers used:	☑Yes ☐No ☐N/A	
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests	☐Yes ☐No ☑N/A	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	13.
-Includes date/time/ID/analyses Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☐Yes ☑No	Initial when completed KS Lot # of added preservative
Trip Blank present:	☐Yes ☐No ☑N/A	15.
Pace Trip Blank lot # (if purchased):		
Headspace in VOA vials (>6mm):	☐Yes ☐No ☑N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State: KS

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N alm

Person Contacted: _____ Date/Time: _____

Comments/ Resolution:
1/29 - Proceed w/ analysis of TOC from plastic containers per Drew Votaw.

Project Manager Review: ACC Date: 1/29/10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

F-KS-C-003-Rev.05, 19February2010

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SAMPLE SUMMARY FORM

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SAMPLE SUMMARY

Project: GP / 2829E-001/ 5034229
Pace Project No.: 6073144

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5034229008	**MW-151**	Water	01/27/10 13:20	01/29/10 09:20
5034229009	**MW-156**	Water	01/27/10 13:00	01/29/10 09:20

REPORT OF LABORATORY ANALYSIS

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INITIAL CALIBRATION VERIFICATION STANDARD

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Second Source Summary
Total Organic Carbon by SM5310C -- INITIAL CALIBRATION VERIFICATION (ICV)

Lab Name: PACE ANALYTICAL

Lab Code: Pace KS SDG No.: 6073144

Instrument ID: 60WTA5 Calibration Date: 02/03/2010

Lab File ID: # 3865 pgs.67-71 Init. Calib. Date(s): 02/03/2010

COMPOUND	DATE AND TIME	SAMPLE AMOUNT mg/L	CAL AMOUNT mg/L	CURVE	%D	MAX %d
TOC	02/03/2010 17:43	4.82	5.00	Single Point	3.60	10.0
TOC	02/03/2010 22:59	4.50	5.00	Single Point	10.00	10.0

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CONTINUING CALIBRATION VERIFICATION STANDARD

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CCV Summary
Total Organic Carbon by SM5310C -- CONTINUING CALIBRATION VERIFICATION (CCV)

Lab Name: PACE ANALYTICAL

Lab Code: Pace KS SDG No.: 6073144

Instrument ID: 60WTA5 Calibration Date: 2/3/2010

Lab File ID: # 3865 pgs.67-71 Init. Calib. Date(s): 2/3/2010

COMPOUND	DATE AND TIME	SAMPLE AMOUNT	CAL AMOUNT mg/L	CURVE	%D	MAX %d
TOC	2/3/2010 18:49	4.99	5.00	Single Point	0.20	10.0
TOC	2/3/2010 0:04	4.50	5.00	Single Point	10.00	10.0

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INITIAL CALIBRATION VERIFICATION BLANK

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ICB Summary
Total Organic Carbon by SM5310C -- INITIAL CALIBRATION BLANK (ICB)

Lab Name: PACE ANALYTICAL

Lab Code: Pace KS SDG No.: 6073144

Instrument ID: 60WTA5 Calibration Date: 2/3/2010

Lab File ID: # 3865 pgs.67-71 Init. Calib. Date(s): 2/3/2010

COMPOUND	DATE AND TIME	SAMPLE AMOUNT mg/L	AMOUNT mg/L	Reporting Limit	%D	MAX %d
TOC	2/3/2010 17:55	0.00	0.00	1	0%	50.0
TOC	2/3/2010 23:05	0.00	0.00	1	0%	50.0

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CONTINUING CALIBRATION VERIFICATION BLANK

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CCB Summary
Total Organic Carbon by SM5310C -- CONTINUING CALIBRATION BLANK (CCB)

Lab Name: PACE ANALYTICAL

Lab Code: Pace KS SDG No.: 6073144

Instrument ID: 60WTA5 Calibration Date: 2/3/2010

Lab File ID: # 3865 pgs.67-71 Init. Calib. Date(s): 2/3/2010

COMPOUND	DATE AND TIME	SAMPLE AMOUNT mg/L	AMOUNT mg/L	Reporting Limit	%D	MAX %d
TOC	2/3/2010 18:49	0.00	0.00	Single Point	0.00	50.0
TOC	2/4/2010 0:10	0.00	0.00	Single Point	0.00	50.0

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CRDL – REPORTING LIMIT STANDARD SUMMARY

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Reporting Limit Standard Summary
Total Organic Carbon by SM5310C -- (PRL)

Lab Name: PACE ANALYTICAL

Lab Code: Pace KS SDG No.: 6073144

Instrument ID: 60WTA5 Calibration Date: 2/3/2010

Lab File ID: # 3865 pgs.67-71 Init. Calib. Date(s): 2/3/2010

COMPOUND	DATE AND TIME	SAMPLE AMOUNT mg/L	Reporting Limit	%D	MAX %d
TOC	2/3/2010 18:01	0.86	1	86%	50.0

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REPORTING LIMIT AND MDL SUMMARY

Total Organic Carbon MDL STUDY 7 Replicates

Analyte	TOC
Instrument	60WET5

Matrix	Water

SM 5310C

	Analyst:	JML	
	Date:	10/8/2009	
	Spike value	0.5	mg/L
Current Reporting Limit		1	mg/L
ICV =5	5.09	101.8%	recovery
ICB	0		
rep 1		0.41	mg/L
rep 2		0.73	mg/L
rep 3		0.63	mg/L
rep 4		0.57	mg/L
rep 5		0.42	mg/L
rep 6		0.54	mg/L
rep 7		0.45	mg/L
	Average	**0.536**	
	Std Dev	0.119	
	MDL	0.372	

Effective Date	10/8/2009			
				units
Added to Acode		MDL	0.37	mg/L

amount spiked divided by mdl = **1.3428215** (must be less than 10)

MDL vs. Reporting Limit = **OK** (MDL must be less than half the RL)

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METHOD BLANK

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METHOD BLANK RESULTS

Project: GP / 2829E-001/ 5034229
Pace Project No.: 6073144

QB Batch: WETA/12047
Method(s): SM 5310C
Associated Lab Samples: 5034229008, 5034229009

Prepared:

CAS No.	Parameters	Results	Units	Reporting Limit	MDL	Analyzed	Qual
7440-44-0	Total Organic Carbon	ND	mg/L	1.0	0.37	02/03/10	

Type	Sample	Matrix
BLANK	599022	Water

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LCS SUMMARY

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LAB CONTROL SAMPLE RESULTS

Project: GP / 2829E-001/ 5034229
Pace Project No.: 6073144

QB Batch: WETA/12047 **LCS Prepared:**
Method(s): SM 5310C **LCSD Prepared:**

Analyte	LCS % Rec	LCSD % Rec	RPD	QC Limits % Rec	QC Limits RPD	Spike Conc	LCS Conc	LCSD Conc	Units	LCS Analyzed	LCSD Analyzed	LCS Qual	LCSD Qual
Total Organic Carbon	93			80-120		5	4.6		mg/L	02/03/10			

Type	Sample
LCS	599023

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MS/MSD SUMMARY

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MATRIX SPIKE SAMPLE RESULTS

Project: GP / 2829E-001/ 5034229
Pace Project No.: 6073144

QB Batch: WETA/12047
Method(s): SM 5310C

MS Prepared:
MSD Prepared:

Analyte	Units	Sample Conc	Spike Conc MS	Spike Conc MSD	Result MS	Result MSD	Dilution MS	Dilution MSD	% Recovery MS	% Recovery MSD	QC Limits %Recovery	RPD	Max RPD	Analyzed Date MS	Analyzed Date MSD	Qualifier(s) MS	Qualifier(s) MSD
Total Organic Carbon	mg/L	1.4	5		5.9		1		90		80-120			02/03/10			

Type	Sample	Client Sample ID
MS	599024	MW-151

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MATRIX SPIKE SAMPLE RESULTS

Project: GP / 2829E-001/ 5034229
Pace Project No.: 6073144

QB Batch: WETA/12047 **MS Prepared:**
Method(s): SM 5310C **MSD Prepared:**

Analyte	Units	Sample Conc	Spike Conc MS	Spike Conc MSD	Result MS	Result MSD	Dilution MS	Dilution MSD	% Recovery MS	% Recovery MSD	QC Limits %Recovery	RPD	Max RPD	Analyzed Date MS	Analyzed Date MSD	Qualifier(s) MS	Qualifier(s) MSD
Total Organic Carbon	mg/L	1.2	5		6.6		1		107		80-120			02/03/10			

Type	Sample	Client Sample ID
MS	599025	5034355001

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DUPLICATE SUMMARY

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DUPLICATE RESULTS

Project: GP / 2829E-001/ 5034229
Pace Project No.: 6073144

QB Batch: WETA/12047
Method(s): SM 5310C

Prepared:

Analyte	Dup RPD	QC Limits MAX RPD Dup	Results Sample	Dup	Units	Analyzed	Qual
Total Organic Carbon	3	25	46.8	48.0	mg/L	02/04/10	

Type	Sample	Client Sample ID
DUP	599026	6072787008

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QUALITY CONTROL SUMMARY

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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: GP / 2829E-001/ 5034229
Pace Project No.: 6073144

QC Batch: WETA/12047 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 5034229008, 5034229009

METHOD BLANK: 599022 Matrix: Water
Associated Lab Samples: 5034229008, 5034229009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	02/03/10 18:07	

LABORATORY CONTROL SAMPLE: 599023

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	4.6	93	80-120	

MATRIX SPIKE SAMPLE: 599024

Parameter	Units	5034229008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1.4	5	5.9	90	80-120	

MATRIX SPIKE SAMPLE: 599025

Parameter	Units	5034355001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1.2	5	6.6	107	80-120	

SAMPLE DUPLICATE: 599026

Parameter	Units	6072787008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	46.8	48.0	3	25	

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QUALIFIERS

Project: GP / 2829E-001/ 5034229
Pace Project No.: 6073144

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GP / 2829E-001/ 5034229
Pace Project No.: 6073144

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5034229008	**MW-151**	SM 5310C	WETA/12047		
5034229009	**MW-156**	SM 5310C	WETA/12047		

REPORT OF LABORATORY ANALYSIS

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SAMPLE RESULTS

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: GP / 2829E-001/ 5034229
Pace Project No.: 6073144

Matrix: Water
% Moisture:
Acode: 5310C TOC
Prep/Method: SM 5310C

Sample: MW-151 Level IV
Lab ID: 5034229008
Collected: 01/27/10 13:20
Received: 01/29/10 09:20

CAS No.	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	Qual
7440-44-0	Total Organic Carbon	1.4	mg/L	1.0	0.37	1		02/03/10 18:28	

Date: 02/09/2010 11:00 AM

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ANALYTICAL RESULTS

Project: GP / 2829E-001/ 5034229
Pace Project No.: 6073144

Matrix: Water
% Moisture:
Acode: 5310C TOC
Prep/Method: SM 5310C

Sample: MW-156 Level IV
Lab ID: 5034229009
Collected: 01/27/10 13:00
Received: 01/29/10 09:20

CAS No.	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	Qual
7440-44-0	Total Organic Carbon	1.3	mg/L	1.0	0.37	1		02/03/10 23:35	

Date: 02/09/2010 11:00 AM

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SAMPLE RAW DATA

Run #1 ①

1ICAL	256073275001	49	73	97
2ICAL	260CV	50	74	98
3ICAL	270CB	51	75	99
4PRIMER	28252943001	52	76	100
5ICV	295034355001	53	77	101
6ICB	30599025 MS	54	78	102
7PRL	315034355002	55	79	103
8599022 BLK	325084355003	56	80	104
9599023 LCS	336072787008 10X	57	81	105
106073027001	1034599026 DUP 10X	58	82	106
115034229008	35599027 BLK	59	83	107
125599024 MS	36599028 LCS	60	84	108
135034229009 2X	3720757544	61	85	109
140CV	38CCV	62	86	110
15CCB	39CCB	63	87	111
165034231002	4020757545	64	88	112
175034231003	4120757546	65	89	113
185034231004	4220757547	66	90	114
195034231005	4320757548	67	91	115
20252925012 2X	4420757549	68	92	116
216073042001 5X	45CCV	69	93	117
226073042002 2X	46CCB	70	94	118
23252934001	47	71	95	119
24252934002	48	72	96	120

(ESC)

(2)

53	PRIMER	10	ppm	17:43:02	–	4.82	Report as ICV –
54	ICV	10	ppm	17:49:17	–	4.32	Report Primer –
55	ICB	10	ppm	17:55:17	–	0.00	– –
56	PRL	10	ppm	18:01:34	–	0.86	– –
57	599022 BLK	10	ppm	18:07:37	–	0.00	– –
58	599023 LCS	10	ppm	18:14:04	–	4.63	– –
59	6073027001 10X	10	ppm	18:20:25	–	0.45	RR @ 1X + 10X – to ~~con~~ Confirm ASM 2/3/10

DATE: 02-03-2010

Sample #	Tag	Range	Time	TIC	TOC	POC	TC
60	5034229008	10	ppm	18:28:03	–	1.37	– –
61	599024 MS	10	ppm	18:35:29	–	5.86	– –
62	5034229009 2X	10	ppm	18:42:53	–	0.97	RR @ 1X –
63	CCV	10	ppm	18:49:32	–	4.99	– –
64	CCB	10	ppm	18:55:36	–	0.00	– –
65	5034231002	10	ppm	19:02:58	–	1.02	– –
66	5034231003	10	ppm	19:10:35	–	2.05	– –
67	5034231004	10	ppm	19:19:02	–	3.03	– –
68	5034231005	10	ppm	19:26:46	–	1.56	– –
69	252925012 2X	10	ppm	19:33:30	–	5.16	– –
70	6073042001 5X	10	ppm	19:39:58	–	3.43	– –
71	6073042002 2X	10	ppm	19:50:17	–	6.83	– –
72	252934001	10	ppm	19:56:15	–	0.00	– –
73	252934002	10	ppm	20:02:30	–	0.00	– –
74	6073275001	10	ppm	20:08:28	–	0.00	– –
75	CCV	10	ppm	20:15:07	–	4.87	– –
76	CCB	10	ppm	20:21:04	–	0.00	– –
77	252943001	10	ppm	20:27:09	–	0.00	RR –
78	5034355001	10	ppm	20:35:11	–	1.85	– –
79	599025 MS	10	ppm	20:43:33	–	7.11	– –
80	5034355002	10	ppm	20:51:14	–	0.46	– –
81	5034355003	10	ppm	20:59:13	–	3.49	– –
82	6072787008 10X	10	ppm	21:05:41	–	4.10	– –
83	599026 DUP 10X	10	ppm	21:12:02		3.72	– –
84	599027 BLK	10	ppm	21:18:05	–	0.00	– –
85	599028 LCS	10	ppm	21:24:33	–	4.29	– –
86	20757544	10	ppm	21:34:10	–	2.98	– –
87	CCV	10	ppm	21:40:37	–	3.87	– –
88	CCV	10	ppm	21:53:14	–	4.30	Repaired –
89	CCV	10	ppm	22:06:40	–	4.34	Remade –

Stopped run to recalib.
ASM 2/3/10

Run#2

1	ICAL	2520757547		49		73		97	
2	ICAL	26CCV		50		74		98	
3	ICAL	27CCB		51		75		99	
4	PRIMER	2820757548		52		76		100	
5	ICV	2920757549		53		77		101	
6	ICB	30CCV		54		78		102	
7	PRL	31CCB		55		79		103	
8	6078027001	1X32		56		80		104	
9	6073027001	1033		57		81		105	
10	5084229009	34		58		82		106	
11	2529430001	35		59		83		107	
12	5084355001	36		60		84		108	
13	9025	MB	37	61		85		109	
14	CCV	38		62		86		110	
15	CCB	39		63		87		111	
16	5084355002	40		64		88		112	
17	5084355003	41		65		89		113	
18	6072787008	1042		66		90		114	
19	9026	DUP	1043	67		91		115	
20	9027	BLK	44	68		92		116	
21	9028	LCS	45	69		93		117	
22	0757544		46	70		94		118	
23	0757545		47	71		95		119	
24	0757546		48	72		96		120	

DATE: 02-03-2010

Sample #	Tag	Range	Time	TIC	TOC	POC *	TC
90	PRIMER	10 ppm	22:52:39	—	4.02	—	—
91	ICV	10 ppm	22:59:42	—	4.50	—	—
92	ICB	10 ppm	23:05:46	—	0.00	—	—
93	PRL	10 ppm	23:11:22	—	0.00	—	—
94	6073027001 1X	10 ppm	23:21:07	—	7.73	—	—
95	6073027001 10	10 ppm	23:27:48	—	0.00	—	—
96	5034229009	10 ppm	23:35:47	—	1.34	—	—
97	2529148001	10 ppm	23:44:53	—	0.00	—	—
98	5034355001	10 ppm	23:49:42	—	1.22	—	—
99	599025 MS	10 ppm	23:57:42	—	6.59	—	—

DATE: 02-04-2010

Sample #	Tag	Range	Time	TIC	TOC	POC	TC
100	CCV	10 ppm	00:04:26		4.50		
101	CCB	10 ppm	00:10:21		0.00		
102	5034355002	10 ppm	00:16:21		0.42	RC	
103	5034355003	10 ppm	00:26:46		2.88		
104	6072787008 10X	10 ppm	00:32:34		3.88		
105	599026 DUP 10X	10 ppm	00:39:06		3.85		
106	599027 BLK	10 ppm	00:45:08		0.00		
107	599028 LCS	10 ppm	00:51:22		3.48		
108	20757544	10 ppm	00:57:34		0.00		
109	20757545	10 ppm	01:08:48		10.46		
110	20757546	10 ppm	01:14:54		0.00		
111	20757547	10 ppm	01:28:44		0.00		
112	CCV	10 ppm	01:29:38		3.46	fail	
113	CCB	10 ppm	01:35:39		0.00	RC	
114	20757548	10 ppm	01:41:46		0.00		
115	20757549	10 ppm	01:47:41		0.00		
116	CCV	10 ppm	01:54:28		4.37	fail	
117	CCB	10 ppm	02:00:29		0.00		

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INSTRUMENT RUN LOG

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ORGANIC CARBON, TOTAL (LOW LEVEL)

(UV PROMOTED, PERSULFATE OXIDATION)
STANDARD METHODS 5310C/EPA 415.2

Date: 2/8/10	Analyst: ATM	Run: 1	Batch: 12047/12048

#	SAMPLE #	CLIENT	DILUTION	READOUT	RESULT	COMMENTS
1	ICAL	ICAL	NA	NA	NA	
2	↓	↓	↓	↓	↓	
3	↓	↓	↓	↓	↓	
4	Primer	Primer	1X	4.82	4.82	Report as ICV
5	ICV	ICV	↓	4.32	4.32	
6	ICB	ICB	↓	0	0	
7	PRL	PRL	↓	0.86	0.86	
8	599022	Blank	↓	0	0	#12047
9	599023	LCS	↓	4.63	4.63	
10	6073027001	Terracon	10x	0.45	4.5	RR@ 1x & 10x to confirm
11	ASM 2/4/10 5034229008	Pasi Indi	1x	1.37	1.37	
12	599024	MS	↓	5.86	5.86	
13	5034229009	Pasi-Indi	2x	0.97	1.94	RR@ 1x
14	CCV	CCV	1x	4.99	4.99	
15	CCB	CCB	↓	0	0	
16	5034231002	[redacted]	↓	1.02	1.02	
17	5034231003	↓	↓	2.05	2.05	
18	5034231004	↓	↓	3.03	3.03	
19	5034231005	↓	↓	1.56	1.56	
20	252925012	[redacted]	2x	5.16	10.382	ASM 2/4/10
21	6073042001	[redacted]	5x	3.43	17.15	
22	6073042002	↓	2x	6.83	13.66	
23	252934001	[redacted]	1x	0	0	
24	252934002	↓	↓	0	0	

Phosphoric Acid: 10359	Initial Calib. Std ID#: 24735
Sodium Persulfate: 10358	CCV Std ID#: 24736
Inst. ID: 60WTA5	ICV / LCS Std ID#: 24737
MS ID#: 5492 0.25 mls in 50 mls sample	PRL Std ID#: 24738

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ORGANIC CARBON, TOTAL (LOW LEVEL)
(UV PROMOTED, PERSULFATE OXIDATION)
STANDARD METHODS 5310C/EPA 415.2

Date: 2/3/10	Analyst: AJM	Run: 1	Batch: 12047 /12048			
#	SAMPLE #	CLIENT	DILUTION	READOUT	RESULT	COMMENTS
1	6073275001	[redacted]	1x	0	0	
2	CCV	CCV		4.87	4.87	
3	CCB	CCB		0	0	
4	252943001	[redacted]		0	0	RR
5	5034355001	[redacted]		1.85	1.85	
6	599025	[redacted]		7.11	7.11	
7	5034355002	[redacted]		0.46	0.46	
8	5034355003	[redacted]		3.49	3.49	
9	6072787008	[redacted]	10x	4.10	41.0	
10	599026	[redacted]		3.72	37.2	
11	599027	[redacted]	1x	0	0	#12048 RR
AJM 12/14/10	~~599028~~ 599028	[redacted]		4.29	4.29	
13	20757544	[redacted]		2.98	2.98	
14	CCV	CCV		3.87	AJM 2/4/10 ~~4~~ 3.87	Repour + Rerun
15	CCV	CCV		4.30	4.30	Remade + Rerun
16	CCV	CCV		4.34	4.34	Stopped run to
17						recalibrate
18						
19						
20					AJM 2/4/10	
21						
22						
23						
24						

Phosphoric Acid: 10359	Initial Calib. Std ID#: 24735
Sodium Persulfate: 10358	CCV Std ID#: 24736
Inst. ID: 60WTA5	ICV / LCS Std ID#: 24737
MS ID#: ~~5942~~ 5492 0.25 mls in 50 mls sample	PRL Std ID#: 24738

AJM 2/4/10

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ORGANIC CARBON, TOTAL (LOW LEVEL)
(UV PROMOTED, PERSULFATE OXIDATION)
STANDARD METHODS 5310C/EPA 415.2

Date: 2/3/10	Analyst: AJM	Run: 2	Batch: 12047 /12048

#	SAMPLE #	CLIENT	DILUTION	READOUT	RESULT	COMMENTS
1	ICAL	ICAL	NA	NA	NA	
2						
3						
4	Primer	Primer	1x	4.02	4.02	
5	ICV	ICV		4.50	4.50	
6	ICB	ICB		0	0	
7	PRL	PRL		0	0	
8	6073027001	[redacted]		7.73	7.73	#12047
9		[redacted]	10x	0	0	
10	5034229009	Pasi Indi	1x	1.34	1.34	
11	252943001	[redacted]		0	0	
12	5034355001	[redacted]		1.22	1.22	
13	599025	[redacted]		6.59	6.59	
14	CCV	CCV		4.50	4.50	
15	CCB	CCB		0	0	
16	5034355002	[redacted]		0.42	0.42	RR
17	5034355003	[redacted]		2.83	2.83	
18	6072787008	[redacted]	10x	3.88	38.8	
19	599026	[redacted]		3.85	38.5	
20	599027	[redacted]	1x	0	0	#12048, RR
21	599028	[redacted]		3.48	3.48	
22 AJM 2/4/10	25757544	[redacted]		0	0	
23	25757545			10.46	10.46	
24	25757546			0	0	

Phosphoric Acid: 10359	Initial Calib. Std ID#: 24735
Sodium Persulfate: 10358	CCV Std ID#: 24736
Inst. ID: 60WTA5	ICV / LCS Std ID#: 24737
MS ID#: 5492 0.25 mls in 50 mls sample	PRL Std ID#: 24738

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ORGANIC CARBON, TOTAL (LOW LEVEL)

(UV PROMOTED, PERSULFATE OXIDATION)

STANDARD METHODS 5310C/EPA 415.2

Date: 2/3/10	Analyst: ASM	Run: 2	Batch: 12047/12048

#	SAMPLE #	CLIENT	DILUTION	READOUT	RESULT	COMMENTS
1	25757547	[redacted]	1x	0	0	RR
2	CCV	CCV		3.46	3.46	
3	CCB	CCB		0	0	
4	25757548	[redacted]		0	0	RR
5	25757549	↓		0	0	↓
6	CCV	CCV		4.37	4.37	
7	CCB	CCB	↓	0	0	
8						
9						
10						
11						
12						
13						
14			ASM			
15				2/4/10		
16						
17						
18						
19						
20						
21						
22						
23						
24						

Phosphoric Acid: 10359	Initial Calib. Std ID#: 24735
Sodium Persulfate: 10358	CCV Std ID#: 24736
Inst. ID: 60WTA5	ICV / LCS Std ID#: 24737
MS ID#: 5492 0.25 mls in 50 mls sample	PRL Std ID#: 24738

ATTACHMENT 7

Mann Kendall Trend Analysis

7 Year Mann-Kendall Analysis

Contaminant: TCE MW-10-1R

Concentration or variance inputs (don't touch white cells)

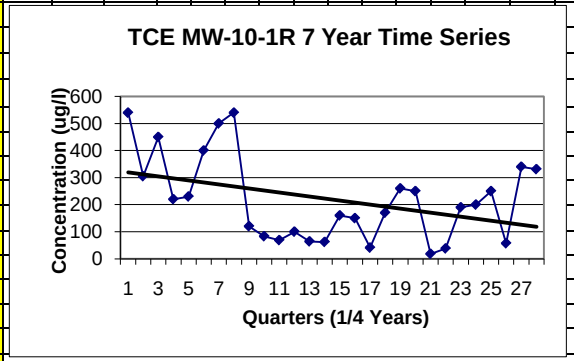
Mann-Kendall "S"	
"S" Value	-76

Variance of "S"	
	Number of
	tied groups
# 2 times	2
# 3 times	0
# 4 times	1
# 5 times	0
# 6 times	0
# 7 times	0
# 8 times	0
# 9 times	0
# 10 times	0
Variance V(S)	2551.333333

Trend Evaluation	
Z 95%	Sample Z
1.645	-1.524428725
Trend	Stable/No Trend

Messenger Well #1:

	Time:Quarters	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
# Quarters	Concentration	540	305	450	##	##	##	##	##	##	83	69	##	64	62	160	150	41	##	##	##	18	38	##	##	##	57	##	##	Sum
1	540		-1	-1	-1	-1	-1	-1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-26
2	305			1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	-14
3	450				-1	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-21
4	220					1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	-1	-1	-1	-1	1	-1	1	1	-6
5	230						1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	-1	-1	-1	-1	1	-1	1	1	-7
6	400							1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-18
7	500								1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-19
8	540									-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-20
9	120										-1	-1	-1	-1	-1	1	1	-1	1	1	1	-1	-1	1	1	1	-1	1	1	1
10	83											-1	1	-1	-1	1	1	-1	1	1	1	-1	-1	1	1	1	-1	1	1	4
11	68.7												1	-1	-1	1	1	-1	1	1	1	-1	-1	1	1	1	-1	1	1	5
12	100													-1	-1	1	1	-1	1	1	1	-1	-1	1	1	1	-1	1	1	4
13	64														-1	1	1	-1	1	1	1	-1	-1	1	1	1	-1	1	1	5
14	62															1	1	-1	1	1	1	-1	-1	1	1	1	-1	1	1	6
15	160																-1	-1	1	1	1	-1	-1	1	1	1	-1	1	1	3
16	150																	-1	1	1	1	-1	-1	1	1	1	-1	1	1	4
17	41																		1	1	1	-1	-1	1	1	1	1	1	1	7
18	170																			1	1	-1	-1	1	1	1	-1	1	1	4
19	260																				-1	-1	-1	-1	-1	-1	-1	1	1	-5
20	250																					-1	-1	-1	-1	0	-1	1	1	-3
21	18																						1	1	1	1	1	1	1	7
22	38																							1	1	1	1	1	1	6
23	190																								1	1	-1	1	1	3
24	200																									1	-1	1	1	2
25	250																										-1	1	1	1
26	57																											1	1	2
27	340																												-1	-1
28	331																													



Mann-Kendall "S" -76

(# plus - # minus)

7 Year Mann-Kendall Analysis

Contaminant: TCE MW-146

Concentration or variance inputs (don't touch white cells)

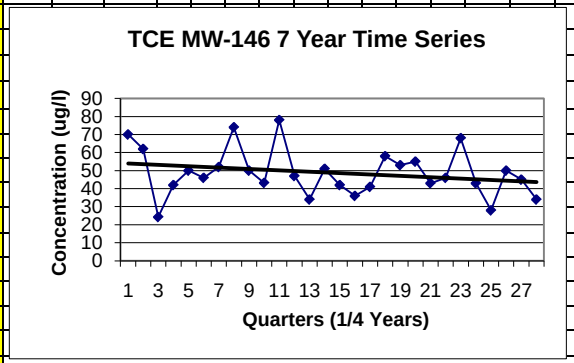
Messenger Well #1:

Mann-Kendall "S"	
"S" Value	-59

Variance of "S"	
	Number of
	tied groups
# 2 times	2
# 3 times	0
# 4 times	1
# 5 times	0
# 6 times	0
# 7 times	0
# 8 times	0
# 9 times	0
# 10 times	0
Variance V(S)	2551.333333

Trend Evaluation	
Z 95%	Sample Z
1.645	-1.187866539
Trend	Stable/No Trend

	Time:Quarters	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
# Quarters	Concentration	70	62	24.3	42	50	46	52	74	50	43	78	47	34	51	42	36	41	58	53	55	43	46	68	43	28	50	45	34	Sum
1	70		-1	-1	-1	-1	-1	-1	1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-23
2	62			-1	-1	-1	-1	-1	1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-20
3	24.3				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	25
4	42					1	1	1	1	1	1	1	1	-1	1	0	-1	-1	1	1	1	1	1	1	1	-1	1	1	-1	13
5	50						-1	1	1	0	-1	1	-1	-1	1	-1	-1	-1	1	1	1	-1	-1	1	-1	-1	0	-1	-1	-5
6	46							1	1	1	-1	1	1	-1	1	-1	-1	-1	1	1	1	-1	0	1	-1	-1	1	-1	-1	1
7	52								1	-1	-1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	1	-1	-1	-1	-1	-1	-9
8	74									-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-18
9	50										-1	1	-1	-1	1	-1	-1	-1	1	1	1	-1	-1	1	-1	-1	0	-1	-1	-6
10	43.2											1	1	-1	1	-1	-1	-1	1	1	1	-1	1	1	-1	-1	1	1	-1	2
11	78												-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-17
12	47													-1	1	-1	-1	-1	1	1	1	-1	-1	1	-1	-1	1	-1	-1	-4
13	34														1	1	1	1	1	1	1	1	1	1	1	-1	1	1	0	12
14	51															-1	-1	-1	1	1	1	-1	-1	1	-1	-1	-1	-1	-1	-6
15	42																-1	-1	1	1	1	1	1	1	1	-1	1	1	-1	5
16	36																	1	1	1	1	1	1	1	1	-1	1	1	-1	8
17	41																		1	1	1	1	1	1	1	-1	1	1	-1	7
18	58																			-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-8
19	53																				1	-1	-1	1	-1	-1	-1	-1	-1	-5
20	55																					-1	-1	1	-1	-1	-1	-1	-1	-6
21	43																						1	1	0	-1	1	1	-1	2
22	46																							1	-1	-1	1	-1	-1	-2
23	68																								-1	-1	-1	-1	-1	-5
24	43																									-1	1	1	-1	0
25	28																										1	1	1	3
26	50																											-1	-1	-2
27	45																												-1	-1
28	34																													



Mann-Kendall "S" -59

(# plus - # minus)

7 Year Mann-Kendall Analysis

Contaminant: cis-1,2-DCE MW-148

Concentration or variance inputs (don't touch white cells)

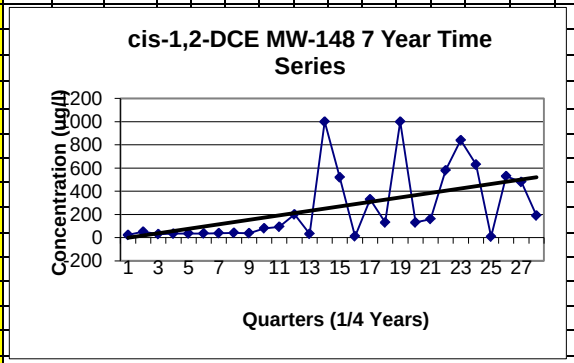
Mann-Kendall "S"	
"S" Value	169

Variance of "S"	
	Number of
	tied groups
# 2 times	2
# 3 times	0
# 4 times	1
# 5 times	0
# 6 times	0
# 7 times	0
# 8 times	0
# 9 times	0
# 10 times	0
Variance V(S)	2551.333333

Trend Evaluation	
Z 95%	Sample Z
1.645	3.326026309
Trend	Expansion

Messenger Well #1:

	Time:Quarters	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
# Quarters	Concentration	23	50.6	30	34	35	36	38	41	38	80	93	##	32	###	520	11	##	##	##	##	##	##	##	##	8	##	##	##	Sum
1	**23.1**		1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	1	1	1	1	1	1	1	1	-1	1	1	1	23
2	**50.6**			-1	-1	-1	-1	-1	-1	-1	1	1	1	-1	1	1	-1	1	1	1	1	1	1	1	1	-1	1	1	1	6
3	**30**				1	1	1	1	1	1	1	1	1	1	1	1	-1	1	1	1	1	1	1	1	1	-1	1	1	1	21
4	**34**					1	1	1	1	1	1	1	1	-1	1	1	-1	1	1	1	1	1	1	1	1	-1	1	1	1	18
5	**35**						1	1	1	1	1	1	1	-1	1	1	-1	1	1	1	1	1	1	1	1	-1	1	1	1	17
6	**36**							1	1	1	1	1	1	-1	1	1	-1	1	1	1	1	1	1	1	1	-1	1	1	1	16
7	**38**								1	0	1	1	1	-1	1	1	-1	1	1	1	1	1	1	1	1	-1	1	1	1	14
8	**41**									-1	1	1	1	-1	1	1	-1	1	1	1	1	1	1	1	1	-1	1	1	1	12
9	**38**										1	1	1	-1	1	1	-1	1	1	1	1	1	1	1	1	-1	1	1	1	13
10	**79.9**											1	1	-1	1	1	-1	1	1	1	1	1	1	1	1	-1	1	1	1	12
11	**93**												1	-1	1	1	-1	1	1	1	1	1	1	1	1	-1	1	1	1	11
12	**200**													-1	1	1	-1	1	-1	1	-1	-1	1	1	1	-1	1	1	-1	2
13	**32**														1	1	-1	1	1	1	1	1	1	1	1	-1	1	1	1	11
14	**1,000**															-1	-1	-1	-1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-13
15	**520**																-1	-1	-1	1	-1	-1	1	1	1	-1	1	-1	-1	-3
16	**11**																	1	1	1	1	1	1	1	1	-1	1	1	1	10
17	**330**																		-1	1	-1	-1	1	1	1	-1	1	1	-1	1
18	**130**																			1	0	1	1	1	1	-1	1	1	1	7
19	**1,000**																				-1	-1	-1	-1	-1	-1	-1	-1	-1	-9
20	**130**																					1	1	1	1	-1	1	1	1	6
21	**160**																						1	1	1	-1	1	1	1	5
22	**580**																							1	1	-1	-1	-1	-1	-2
23	**840**																								-1	-1	-1	-1	-1	-5
24	**630**																									-1	-1	-1	-1	-4
25	**8.1**																										1	1	1	3
26	**530**																											-1	-1	-2
27	**480**																												-1	-1
28	**190**																													



Mann-Kendall "S" 169

(# plus - # minus)

7 Year Mann-Kendall Analysis

Contaminant: TCE MW-148

Concentration or variance inputs (don't touch white cells)

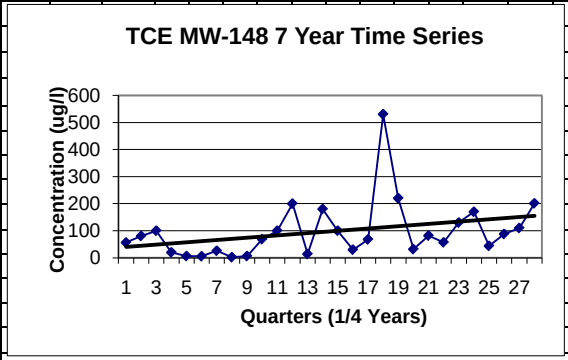
Mann-Kendall "S"	
"S" Value	125

Variance of "S"	
	Number of
	tied groups
# 2 times	2
# 3 times	0
# 4 times	1
# 5 times	0
# 6 times	0
# 7 times	0
# 8 times	0
# 9 times	0
# 10 times	0
Variance V(S)	2551.333333

Trend Evaluation	
Z 95%	Sample Z
1.645	2.45492418
Trend	Expansion

Messenger Well #1:

	Time:Quarters	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
# Quarters	Concentration	57	80.5	100	20	6	6	26	2	7	69	##	##	14	180	100	30	68	##	##	32	82	57	##	##	44	88	##	##	Sum
1	**56.5**		1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	1	1	-1	1	1	1	-1	1	1	1	1	-1	1	1	1	7
2	**80.5**			1	-1	-1	-1	-1	-1	-1	-1	1	1	-1	1	1	-1	-1	1	1	-1	1	-1	1	1	-1	1	1	1	0
3	**100**				-1	-1	-1	-1	-1	-1	-1	0	1	-1	1	0	-1	-1	1	1	-1	-1	-1	1	1	-1	-1	1	1	-7
4	**20**					-1	-1	1	-1	-1	1	1	1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
5	**6.4**						-1	1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19
6	**5.6**							1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	20
7	**26**								-1	-1	1	1	1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	15
8	**2.1**									1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	20
9	**6.5**										1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19
10	**68.8**											1	1	-1	1	1	-1	-1	1	1	-1	1	-1	1	1	-1	1	1	1	6
11	**100**												1	-1	1	0	-1	-1	1	1	-1	-1	-1	1	1	-1	-1	1	1	0
12	**200**													-1	-1	-1	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	-10
13	**14**														1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	15
14	**180**															-1	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	-8
15	**100**																-1	-1	1	1	-1	-1	-1	1	1	-1	-1	1	1	-1
16	**30**																	1	1	1	1	1	1	1	1	1	1	1	1	12
17	**68**																		1	1	-1	1	-1	1	1	-1	1	1	1	5
18	**530**																			-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-10
19	**220**																				-1	-1	-1	-1	-1	-1	-1	-1	-1	-9
20	**32**																					1	1	1	1	1	1	1	1	8
21	**82**																						-1	1	1	-1	1	1	1	3
22	**57**																							1	1	-1	1	1	1	4
23	**130**																								1	-1	-1	-1	1	-1
24	**170**																									-1	-1	-1	1	-2
25	**44**																										1	1	1	3
26	**88**																											1	1	2
27	**110**																												1	1
28	**201**																													



Mann-Kendall "S" 125

(# plus - # minus)

7 Year Mann-Kendall Analysis

Contaminant: Vinyl chloride MW-148

Concentration or variance inputs (don't touch white cells)

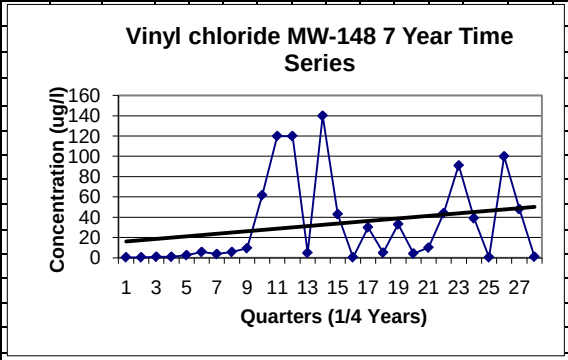
Mann-Kendall "S"	
"S" Value	113

Variance of "S"	
	Number of
	tied groups
# 2 times	2
# 3 times	0
# 4 times	1
# 5 times	0
# 6 times	0
# 7 times	0
# 8 times	0
# 9 times	0
# 10 times	0
Variance V(S)	2551.333333

Trend Evaluation	
Z 95%	Sample Z
1.645	2.217350872
Trend	Expansion

Messenger Well #1:

	Time:Quarters	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
# Quarters	Concentration	0.5	0.5	1	1	3	6	4	6	9	62	##	##	4.8	140	43	0.5	30	5	33	4	10	44	91	39	1	##	48	1	Sum
1	0.5		0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	24
2	0.5			1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	24
3	1				0	1	1	1	1	1	1	1	1	1	1	1	-1	1	1	1	1	1	1	1	-1	1	1	0	19
4	1					1	1	1	1	1	1	1	1	1	1	1	-1	1	1	1	1	1	1	1	-1	1	1	0	19
5	2.6						1	1	1	1	1	1	1	1	1	1	-1	1	1	1	1	1	1	1	-1	1	1	-1	17
6	5.7							-1	0	1	1	1	1	-1	1	1	-1	1	-1	1	-1	1	1	1	-1	1	1	-1	7
7	3.7								1	1	1	1	1	1	1	1	-1	1	1	1	1	1	1	1	-1	1	1	-1	15
8	5.7									1	1	1	1	-1	1	1	-1	1	-1	1	-1	1	1	1	-1	1	1	-1	8
9	9.4										1	1	1	-1	1	1	-1	1	-1	1	-1	1	1	1	-1	1	1	-1	7
10	61.6											1	1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1	-1	1	-1	-1	-8
11	120												0	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-14
12	120													-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-14
13	4.8														1	1	-1	1	1	1	-1	1	1	1	1	-1	1	1	-1	7
14	140															-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-14
15	43																-1	-1	-1	-1	-1	-1	1	1	-1	-1	1	1	-1	-5
16	0.5																	1	1	1	1	1	1	1	1	0	1	1	1	11
17	30																		-1	1	-1	-1	1	1	1	-1	1	1	-1	1
18	5																			1	-1	1	1	1	1	-1	1	1	-1	4
19	33																				-1	-1	1	1	1	-1	1	1	-1	1
20	4.2																					1	1	1	1	-1	1	1	-1	4
21	10																						1	1	1	-1	1	1	-1	3
22	44																							1	-1	-1	1	1	-1	0
23	91																								-1	-1	1	-1	-1	-3
24	39																									-1	1	1	-1	0
25	0.5																										1	1	1	3
26	100																											-1	-1	-2
27	48																												-1	-1
28	1																													



Mann-Kendall "S" 113

(# plus - # minus)

7 Year Mann-Kendall Analysis

Contaminant: TCE MW-151

Concentration or variance inputs (don't touch white cells)

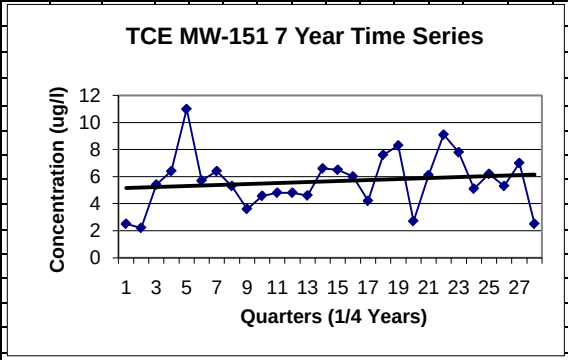
Mann-Kendall "S"	
"S" Value	56

Variance of "S"	
	Number of
	tied groups
# 2 times	2
# 3 times	0
# 4 times	1
# 5 times	0
# 6 times	0
# 7 times	0
# 8 times	0
# 9 times	0
# 10 times	0
Variance V(S)	2551.333333

Trend Evaluation	
Z 95%	Sample Z
1.645	1.088877661
Trend	Stable/No Trend

Messenger Well #1:

	Time:Quarters	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
# Quarters	Concentration	2.5	2.2	5.4	6	11	6	6	5	4	5	5	5	4.6	6.6	6.5	6	4	8	8	3	6	9	8	5	6	5	7	3	Sum
1	2.5		-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	24
2	2.2			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	26
3	5.4				1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	1	1	-1	1	1	1	-1	1	-1	1	-1	3
4	6.4					1	-1	0	-1	-1	-1	-1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	-1	1	-1	-7
5	11						-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-23
6	5.7							1	-1	-1	-1	-1	-1	-1	1	1	1	-1	1	1	-1	1	1	1	-1	1	-1	1	-1	0
7	6.4								-1	-1	-1	-1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	-1	1	-1	-7
8	5.3									-1	-1	-1	-1	-1	1	1	1	-1	1	1	-1	1	1	1	-1	1	0	1	-1	1
9	3.6										1	1	1	1	1	1	1	1	1	1	-1	1	1	1	1	1	1	1	-1	15
10	4.57											1	1	1	1	1	1	-1	1	1	-1	1	1	1	1	1	1	1	-1	12
11	4.8												0	-1	1	1	1	-1	1	1	-1	1	1	1	1	1	1	1	-1	8
12	4.8													-1	1	1	1	-1	1	1	-1	1	1	1	1	1	1	1	-1	8
13	4.6														1	1	1	-1	1	1	-1	1	1	1	1	1	1	1	-1	9
14	6.6															-1	-1	-1	1	1	-1	-1	1	1	-1	-1	-1	1	-1	-4
15	6.5																-1	-1	1	1	-1	-1	1	1	-1	-1	-1	1	-1	-3
16	6.0																	-1	1	1	-1	1	1	1	-1	1	-1	1	-1	2
17	4.2																		1	1	-1	1	1	1	1	1	1	1	-1	7
18	7.6																			1	-1	-1	1	1	-1	-1	-1	-1	-1	-4
19	8.3																				-1	-1	1	-1	-1	-1	-1	-1	-1	-7
20	2.7																					1	1	1	1	1	1	1	-1	6
21	6.1																						1	1	-1	1	-1	1	-1	1
22	9.1																							-1	-1	-1	-1	-1	-1	-6
23	7.8																								-1	-1	-1	-1	-1	-5
24	5.1																									1	1	1	-1	2
25	6.2																										-1	1	-1	-1
26	5.3																											1	-1	0
27	7.0																												-1	-1
28	2.5																													



Mann-Kendall "S" 56

(# plus - # minus)

7 Year Mann-Kendall Analysis

Contaminant: TCE MW-152

Concentration or variance inputs (don't touch white cells)

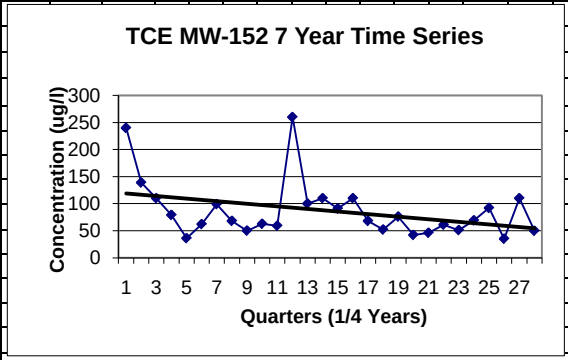
Mann-Kendall "S"	
"S" Value	-97

Variance of "S"	
	Number of
	tied groups
# 2 times	2
# 3 times	0
# 4 times	1
# 5 times	0
# 6 times	0
# 7 times	0
# 8 times	0
# 9 times	0
# 10 times	0
Variance V(S)	2551.333333

Trend Evaluation	
Z 95%	Sample Z
1.645	-1.940182013
Trend	Decreasing

Messenger Well #1:

	Time:Quarters	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
# Quarters	Concentration	240	139	110	79	36	62	99	68	50	63	59	##	100	110	91	110	68	52	76	42	46	61	51	69	92	35	##	50	Sum
1	**240**		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-25
2	**139**			-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-24
3	**110**				-1	-1	-1	-1	-1	-1	-1	-1	1	-1	0	-1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	-1	-20
4	**79**					-1	-1	1	-1	-1	-1	-1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1	1	-1	-8
5	**36**						1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	1	1	21
6	**62**							1	1	-1	1	-1	1	1	1	1	1	1	-1	1	-1	-1	-1	-1	1	1	-1	1	-1	4
7	**99**								-1	-1	-1	-1	1	1	1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1	-11
8	**68**									-1	-1	-1	1	1	1	1	1	0	-1	1	-1	-1	-1	-1	1	1	-1	1	-1	-1
9	**50**										1	1	1	1	1	1	1	1	1	1	-1	-1	1	1	1	1	-1	1	-1	11
10	**62.6**											-1	1	1	1	1	1	1	-1	1	-1	-1	-1	-1	1	1	-1	1	-1	2
11	**59**												1	1	1	1	1	1	-1	1	-1	-1	1	-1	1	1	-1	1	-1	5
12	**260**													-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-16
13	**100**														1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1	-9
14	**110**															-1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	-1	-12
15	**91**																1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1	1	-1	-7
16	**110**																	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	-1	-11
17	**68**																		-1	1	-1	-1	-1	-1	1	1	-1	1	-1	-3
18	**52**																			1	-1	-1	1	-1	1	1	-1	1	-1	0
19	**76**																				-1	-1	-1	-1	-1	1	-1	1	-1	-5
20	**42**																					1	1	1	1	1	-1	1	1	6
21	**46**																						1	1	1	1	-1	1	1	5
22	**61**																							-1	1	1	-1	1	-1	0
23	**51**																								1	1	-1	1	-1	1
24	**69**																									1	-1	1	-1	0
25	**92**																										-1	1	-1	-1
26	**35**																											1	1	2
27	**110**																												-1	-1
28	**49.7**																													



Mann-Kendall "S" -97

(# plus - # minus)

7 Year Mann-Kendall Analysis

Contaminant: cis-1,2-DCE MW-153

Concentration or variance inputs (don't touch white cells)

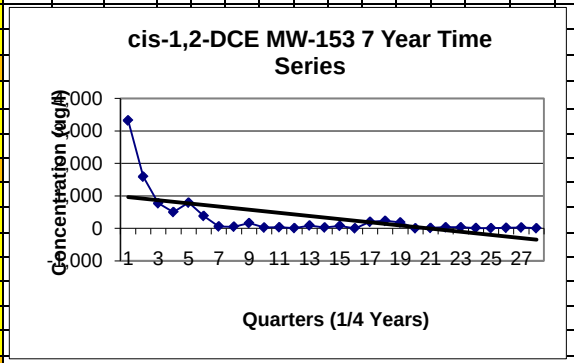
Mann-Kendall "S"	
"S" Value	-207

Variance of "S"	
	Number of
	tied groups
# 2 times	2
# 3 times	0
# 4 times	1
# 5 times	0
# 6 times	0
# 7 times	0
# 8 times	0
# 9 times	0
# 10 times	0
Variance V(S)	2551.333333

Trend Evaluation	
Z 95%	Sample Z
1.645	-4.117937335
Trend	Decreasing

Messenger Well #1:

	Time:Quarters	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
# Quarters	Concentration	###	1590	770	##	##	##	58	50	##	24	33	7	87	26	76	0.5	##	##	##	1	11	32	31	10	4	16	25	3	Sum
1	3,320		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-27
2	1,590			-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-26
3	770				-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-23
4	500					1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-22
5	790						-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-23
6	380							-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-22
7	58								-1	1	-1	-1	-1	1	-1	1	-1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-9
8	50									1	-1	-1	-1	1	-1	1	-1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-8
9	160										-1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-13
10	23.5											1	-1	1	1	1	-1	1	1	1	-1	-1	1	1	-1	-1	-1	1	-1	2
11	33												-1	1	-1	1	-1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-7
12	6.5													1	1	1	-1	1	1	1	-1	1	1	1	1	-1	1	1	-1	8
13	87														-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-9
14	26															1	-1	1	1	1	-1	-1	1	1	-1	-1	-1	-1	-1	-2
15	76																-1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-7
16	0.5																	1	1	1	0	1	1	1	1	1	1	1	1	11
17	200																		1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-9
18	230																			-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-10
19	180																				-1	-1	-1	-1	-1	-1	-1	-1	-1	-9
20	0.5																					1	1	1	1	1	1	1	1	8
21	11																						1	1	-1	-1	1	1	-1	1
22	32																							-1	-1	-1	-1	-1	-1	-6
23	31																								-1	-1	-1	-1	-1	-5
24	9.9																									-1	1	1	-1	0
25	3.9																										1	1	-1	1
26	16																											1	-1	0
27	25																												-1	-1
28	2.5																													



Mann-Kendall "S" -207

(# plus - # minus)

7 Year Mann-Kendall Analysis

Contaminant: TCE MW-153

Concentration or variance inputs (don't touch white cells)

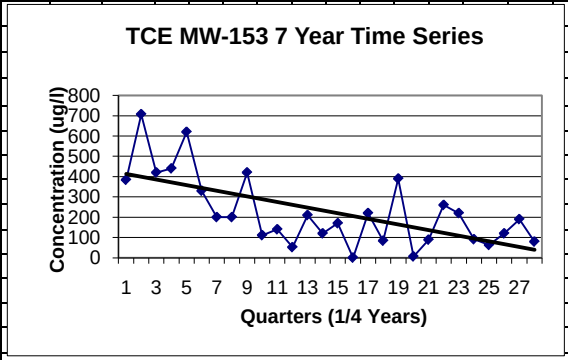
Mann-Kendall "S"	
"S" Value	-156

Variance of "S"	
	Number of
	tied groups
# 2 times	2
# 3 times	0
# 4 times	1
# 5 times	0
# 6 times	0
# 7 times	0
# 8 times	0
# 9 times	0
# 10 times	0
Variance V(S)	2551.333333

Trend Evaluation	
Z 95%	Sample Z
1.645	-3.108250777
Trend	Decreasing

Messenger Well #1:

	Time:Quarters	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
# Quarters	Concentration	384	707	420	##	##	##	##	##	##	##	##	52	210	120	170	0.5	##	84	##	6	89	##	##	91	63	##	##	80	Sum
1	384		1	1	1	1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-15
2	707			-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-26
3	420				1	1	-1	-1	-1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-20
4	440					1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-22
5	620						-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-23
6	330							-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-18
7	200								0	1	-1	-1	-1	1	-1	-1	-1	1	-1	1	-1	-1	1	1	-1	-1	-1	-1	-1	-8
8	200									1	-1	-1	-1	1	-1	-1	-1	1	-1	1	-1	-1	1	1	-1	-1	-1	-1	-1	-8
9	420										-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-19
10	111											1	-1	1	1	1	-1	1	-1	1	-1	-1	1	1	-1	-1	1	1	-1	2
11	140												-1	1	-1	1	-1	1	-1	1	-1	-1	1	1	-1	-1	-1	1	-1	-3
12	52													1	1	1	-1	1	1	1	-1	1	1	1	1	1	1	1	1	12
13	210														-1	-1	-1	1	-1	1	-1	-1	1	1	-1	-1	-1	-1	-1	-7
14	120															1	-1	1	-1	1	-1	-1	1	1	-1	-1	0	1	-1	-1
15	170																-1	1	-1	1	-1	-1	1	1	-1	-1	-1	1	-1	-3
16	0.5																	1	1	1	1	1	1	1	1	1	1	1	1	12
17	220																		-1	1	-1	-1	1	0	-1	-1	-1	-1	-1	-6
18	84																			1	-1	1	1	1	1	-1	1	1	-1	4
19	390																				-1	-1	-1	-1	-1	-1	-1	-1	-1	-9
20	6.3																					1	1	1	1	1	1	1	1	8
21	89																						1	1	1	-1	1	1	-1	3
22	260																							-1	-1	-1	-1	-1	-1	-6
23	220																								-1	-1	-1	-1	-1	-5
24	91																									-1	1	1	-1	0
25	63																										1	1	1	3
26	120																											1	-1	0
27	190																												-1	-1
28	79.5																													



Mann-Kendall "S" -156

(# plus - # minus)

7 Year Mann-Kendall Analysis

Contaminant: TCE MW-156

Concentration or variance inputs (don't touch white cells)

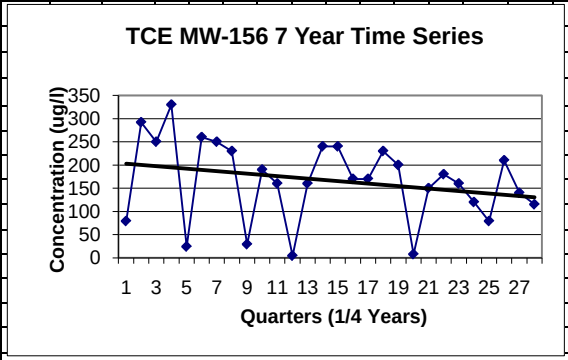
Mann-Kendall "S"	
"S" Value	-112

Variance of "S"	
	Number of
	tied groups
# 2 times	2
# 3 times	0
# 4 times	1
# 5 times	0
# 6 times	0
# 7 times	0
# 8 times	0
# 9 times	0
# 10 times	0
Variance V(S)	2551.333333

Trend Evaluation	
Z 95%	Sample Z
1.645	-2.237148648
Trend	Decreasing

Messenger Well #1:

# Quarters	Time:Quarters / Concentration	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	Sum
	Concentration	79	292	250	##	24	##	##	##	29	##	##	4	160	240	240	170	##	##	##	8	##	##	##	##	79	##	##	##	
1	79		1	1	1	-1	1	1	1	-1	1	1	-1	1	1	1	1	1	1	1	-1	1	1	1	1	0	1	1	1	18
2	292			-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-24
3	250				1	-1	1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-20
4	330					-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-24
5	24						1	1	1	1	1	1	-1	1	1	1	1	1	1	1	-1	1	1	1	1	1	1	1	1	19
6	260							-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-22
7	250								-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-21
8	230									-1	-1	-1	-1	-1	1	1	-1	-1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-15
9	29										1	1	-1	1	1	1	1	1	1	1	-1	1	1	1	1	1	1	1	1	15
10	190											-1	-1	-1	1	1	-1	-1	1	1	-1	-1	-1	-1	-1	-1	1	-1	-1	-8
11	160												-1	0	1	1	1	1	1	1	-1	-1	1	0	-1	-1	1	-1	-1	1
12	4.3													1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	16
13	160														1	1	1	1	1	1	-1	-1	1	0	-1	-1	1	-1	-1	2
14	240															0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-13
15	240																-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-13
16	170																	0	1	1	-1	-1	1	-1	-1	-1	1	-1	-1	-3
17	170																		1	1	-1	-1	1	-1	-1	-1	1	-1	-1	-3
18	230																			-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-10
19	200																				-1	-1	-1	-1	-1	-1	1	-1	-1	-7
20	7.6																					1	1	1	1	1	1	1	1	8
21	150																						1	1	-1	-1	1	-1	-1	-1
22	180																							-1	-1	-1	1	-1	-1	-4
23	160																								-1	-1	1	-1	-1	-3
24	120																									-1	1	1	-1	0
25	79																										1	1	1	3
26	210																											-1	-1	-2
27	140																												-1	-1
28	115																													



Mann-Kendall "S" -112

(# plus - # minus)

7 Year Mann-Kendall Analysis

Contaminant: TCE MW-157

Concentration or variance inputs (don't touch white cells)

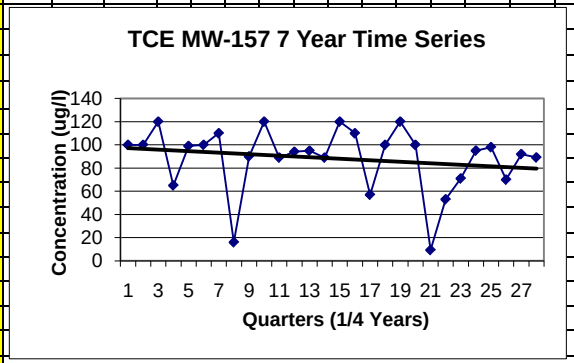
Mann-Kendall "S"	
"S" Value	-72

Variance of "S"	
	Number of
	tied groups
# 2 times	2
# 3 times	0
# 4 times	1
# 5 times	0
# 6 times	0
# 7 times	0
# 8 times	0
# 9 times	0
# 10 times	0
Variance V(S)	2551.333333

Trend Evaluation	
Z 95%	Sample Z
1.645	-1.445237622
Trend	Stable/No Trend

Messenger Well #1:

	Time:Quarters	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
# Quarters	Concentration	100	100	120	65	99	##	##	16	90	##	89	94	95	89	120	110	57	##	##	##	9	53	71	95	98	70	92	89	Sum
1	100		0	1	-1	-1	0	1	-1	-1	1	-1	-1	-1	-1	1	1	-1	0	1	0	-1	-1	-1	-1	-1	-1	-1	-1	-11
2	100			1	-1	-1	0	1	-1	-1	1	-1	-1	-1	-1	1	1	-1	0	1	0	-1	-1	-1	-1	-1	-1	-1	-1	-11
3	120				-1	-1	-1	-1	-1	-1	0	-1	-1	-1	-1	0	-1	-1	-1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-22
4	65					1	1	1	-1	1	1	1	1	1	1	1	1	-1	1	1	1	-1	-1	1	1	1	1	1	1	16
5	99						1	1	-1	-1	1	-1	-1	-1	-1	1	1	-1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-7
6	100							1	-1	-1	1	-1	-1	-1	-1	1	1	-1	0	1	0	-1	-1	-1	-1	-1	-1	-1	-1	-10
7	110								-1	-1	1	-1	-1	-1	-1	1	0	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-14
8	16									1	1	1	1	1	1	1	1	1	1	1	1	-1	1	1	1	1	1	1	1	18
9	90										1	-1	1	1	-1	1	1	-1	1	1	1	-1	-1	-1	1	1	-1	1	-1	3
10	120											-1	-1	-1	-1	0	-1	-1	-1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-16
11	89												1	1	0	1	1	-1	1	1	1	-1	-1	-1	1	1	-1	1	1	6
12	94													1	-1	1	1	-1	1	1	1	-1	-1	-1	1	1	-1	-1	-1	0
13	94.9														-1	1	1	-1	1	1	1	-1	-1	-1	1	1	-1	-1	-1	-1
14	89															1	1	-1	1	1	1	-1	-1	-1	1	1	-1	1	1	4
15	120																-1	-1	-1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-12
16	110																	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-10
17	57																		1	1	1	-1	-1	1	1	1	1	1	1	7
18	100																			1	0	-1	-1	-1	-1	-1	-1	-1	-1	-7
19	120																				-1	-1	-1	-1	-1	-1	-1	-1	-1	-9
20	100																					-1	-1	-1	-1	-1	-1	-1	-1	-8
21	9.3																						1	1	1	1	1	1	1	7
22	53																							1	1	1	1	1	1	6
23	71																								1	1	-1	1	1	3
24	95																									1	-1	-1	-1	-2
25	98																										-1	-1	-1	-3
26	70																											1	1	2
27	92																												-1	-1
28	89.1																													



Mann-Kendall "S" -72

(# plus - # minus)

Mann Kendall Trend Evaluation

Contaminant: cis-1,2-DCE

Monitoring Inputs

Quarter	MW-160				
	ug/l	ug/l	ug/l	ug/l	ug/l
1	55				
2	95				
3	92				
4	63				
5	86				
6	60				
7	58				
8	5.4				
9	5.9				
10	22				
11	40				
12	22				
13	25				
14	26				
15	26				
16	16.5				

Data Entry Cell

Mann-Kendall Results

0-8 Quarter Evaluation

MW-160	Decreasing
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

12 Quarter Evaluation

MW-160	Decreasing
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

5-12 Quarter Evaluation

MW-160	Decreasing
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

16 Quarter Evaluation

MW-160	Decreasing
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

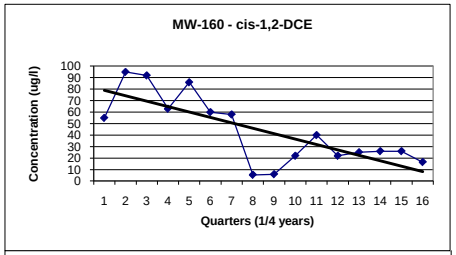
9-16 Quarter Evaluation

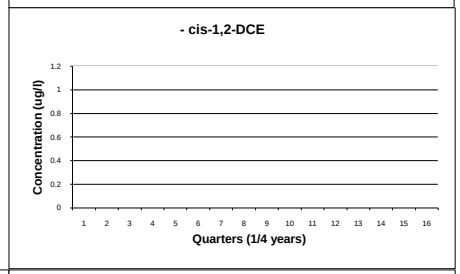
MW-160	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

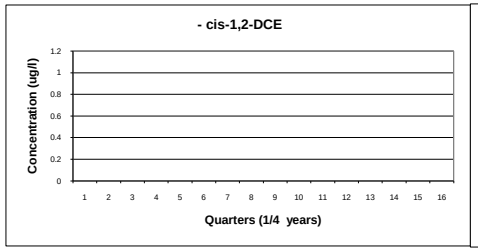
7 Year Evaluation

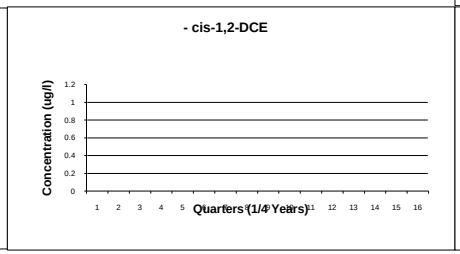
Mess1	Stable/No Trend

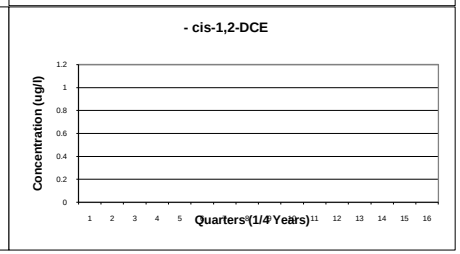
(See 7 year sheet for chart)











Mann Kendall Trend Evaluation

Contaminant: Vinyl chloride

Monitoring Inputs

Quarter	MW-160				
	ug/l	ug/l	ug/l	ug/l	ug/l
1	18				
2	25				
3	9.5				
4	18				
5	7.9				
6	7.4				
7	6.5				
8	2.0				
9	2.1				
10	17				
11	5.4				
12	2.5				
13	5.5				
14	11				
15	2.7				
16	2.3				

Data Entry Cell

Mann-Kendall Results

0-8 Quarter Evaluation

MW-160	Decreasing
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

12 Quarter Evaluation

MW-160	Decreasing
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

5-12 Quarter Evaluation

MW-160	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

16 Quarter Evaluation

MW-160	Decreasing
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

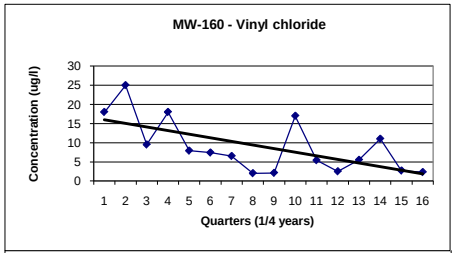
9-16 Quarter Evaluation

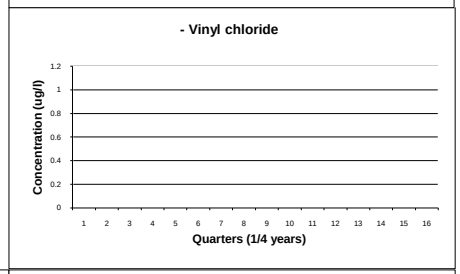
MW-160	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

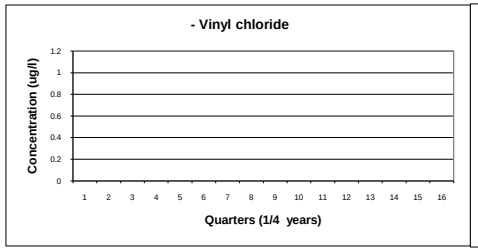
7 Year Evaluation

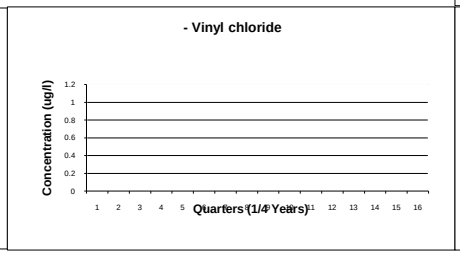
Mess1	Stable/No Trend

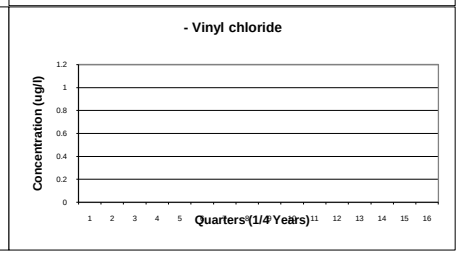
(See 7 year sheet for chart)











7 Year Mann-Kendall Analysis

Contaminant: cis-1,2-DCE MW-161

Concentration or variance inputs (don't touch white cells)

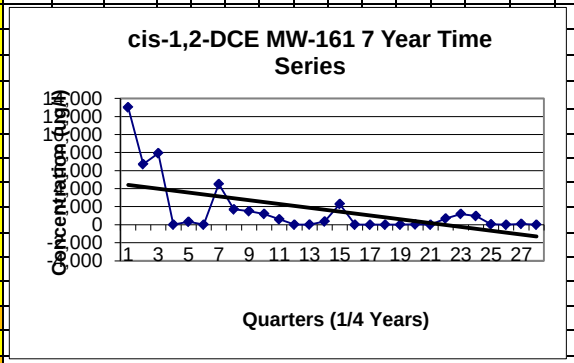
Mann-Kendall "S"	
"S" Value	-145

Variance of "S"	
	Number of
	tied groups
# 2 times	2
# 3 times	0
# 4 times	1
# 5 times	0
# 6 times	0
# 7 times	0
# 8 times	0
# 9 times	0
# 10 times	0
Variance V(S)	2551.333333

Trend Evaluation	
Z 95%	Sample Z
1.645	-2.890475244
Trend	Decreasing

Messenger Well #1:

	Time:Quarters	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
# Quarters	Concentration	###	6700	7920	11	##	5	##	##	##	##	##	7	21	360	###	4	1	5	7	35	3	##	##	##	48	1	##	3	Sum
1	13,000		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-27
2	6,700			1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-24
3	7,920				-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-25
4	11					1	-1	1	1	1	1	1	-1	1	1	1	-1	-1	-1	-1	1	-1	1	1	1	1	-1	1	-1	6
5	330						-1	1	1	1	1	1	-1	-1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-3
6	5.1							1	1	1	1	1	1	1	1	1	-1	-1	-1	1	1	-1	1	1	1	1	-1	1	-1	10
7	4,500								-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-21
8	1,700									-1	-1	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-18
9	1,500										-1	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-17
10	1,200											-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	0	-1	-1	-1	-1	-1	-15
11	600												-1	-1	-1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-9
12	7.3													1	1	1	-1	-1	-1	-1	1	-1	1	1	1	1	-1	1	-1	2
13	21														1	1	-1	-1	-1	-1	1	-1	1	1	1	1	-1	1	-1	1
14	360															1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-6
15	2,300																-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-13
16	4																	-1	1	1	1	-1	1	1	1	1	-1	1	-1	4
17	1.4																		1	1	1	1	1	1	1	1	-1	1	1	9
18	4.8																			1	1	-1	1	1	1	1	-1	1	-1	4
19	6.6																				1	-1	1	1	1	1	-1	1	-1	3
20	35																					-1	1	1	1	1	-1	1	-1	2
21	2.7																						1	1	1	1	-1	1	-1	3
22	690																							1	1	-1	-1	-1	-1	-2
23	1,200																								-1	-1	-1	-1	-1	-5
24	970																									-1	-1	-1	-1	-4
25	48																										-1	1	-1	-1
26	0.5																											1	1	2
27	100																												-1	-1
28	2.5																													



Mann-Kendall "S" -145

(# plus - # minus)

7 Year Mann-Kendall Analysis

Contaminant: TCE MW-161

Concentration or variance inputs (don't touch white cells)

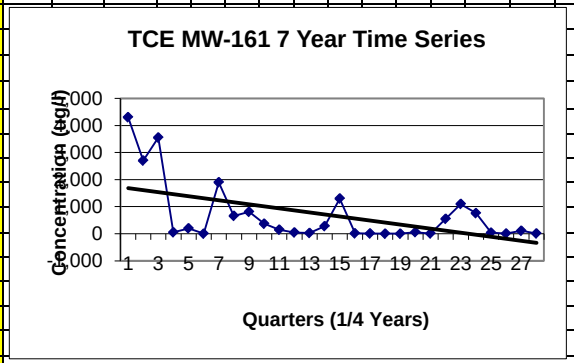
Mann-Kendall "S"	
"S" Value	-130

Variance of "S"	
	Number of
	tied groups
# 2 times	2
# 3 times	0
# 4 times	1
# 5 times	0
# 6 times	0
# 7 times	0
# 8 times	0
# 9 times	0
# 10 times	0
Variance V(S)	2551.333333

Trend Evaluation	
Z 95%	Sample Z
1.645	-2.59350861
Trend	Decreasing

Messenger Well #1:

	Time:Quarters	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
# Quarters	Concentration	###	2700	3550	53	##	3	##	##	##	##	##	47	28	280	###	14	10	1	2	59	9	##	##	##	39	7	##	10	Sum
1	4,300		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-27
2	2,700			1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-24
3	3,550				-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-25
4	53					1	-1	1	1	1	1	1	-1	-1	1	1	-1	-1	-1	-1	1	-1	1	1	1	-1	-1	1	-1	2
5	200						-1	1	1	1	1	-1	-1	-1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-5
6	2.5							1	1	1	1	1	1	1	1	1	1	1	-1	-1	1	1	1	1	1	1	1	1	1	18
7	1,900								-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-21
8	660									1	-1	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	1	1	-1	-1	-1	-1	-12
9	810										-1	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-15
10	370											-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-10
11	150												-1	-1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-7
12	47													-1	1	1	-1	-1	-1	-1	1	-1	1	1	1	-1	-1	1	-1	-2
13	28														1	1	-1	-1	-1	-1	1	-1	1	1	1	1	-1	1	-1	1
14	280															1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-6
15	1,300																-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-13
16	14																	-1	-1	-1	1	-1	1	1	1	1	-1	1	-1	0
17	10																		-1	-1	1	-1	1	1	1	1	-1	1	1	3
18	1.3																			1	1	1	1	1	1	1	1	1	1	10
19	1.5																				1	1	1	1	1	1	1	1	1	9
20	59																					-1	1	1	1	-1	-1	1	-1	0
21	8.9																						1	1	1	1	-1	1	1	5
22	550																							1	1	-1	-1	-1	-1	-2
23	1,100																								-1	-1	-1	-1	-1	-5
24	760																									-1	-1	-1	-1	-4
25	39																										-1	1	-1	-1
26	7.0																											1	1	2
27	110																												-1	-1
28	10.1																													



Mann-Kendall "S" -130

(# plus - # minus)

7 Year Mann-Kendall Analysis

Contaminant: Vinyl chloride MW-161

Concentration or variance inputs (don't touch white cells)

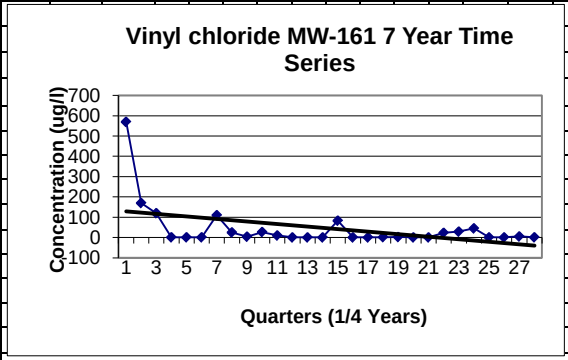
Mann-Kendall "S"	
"S" Value	-100

Variance of "S"	
	Number of
	tied groups
# 2 times	2
# 3 times	0
# 4 times	1
# 5 times	0
# 6 times	0
# 7 times	0
# 8 times	0
# 9 times	0
# 10 times	0
Variance V(S)	2551.333333

Trend Evaluation	
Z 95%	Sample Z
1.645	-1.99957534
Trend	Decreasing

Messenger Well #1:

	Time:Quarters	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
# Quarters	Concentration	570	170	120	1	1	1	##	25	4	27	10	1	0.5	0.5	83	0.5	1	2	2	1	1	23	29	45	1	1	5	1	Sum
1	**570**		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-27
2	**170**			-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-26
3	**120**				-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-25
4	1					0	0	1	1	1	1	1	-1	-1	-1	1	-1	-1	1	1	-1	-1	1	1	1	-1	-1	1	0	3
5	1						0	1	1	1	1	1	-1	-1	-1	1	-1	-1	1	1	-1	-1	1	1	1	-1	-1	1	0	3
6	1							1	1	1	1	1	-1	-1	-1	1	-1	-1	1	1	-1	-1	1	1	1	-1	-1	1	0	3
7	**110**								-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-21
8	**25**									-1	1	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	1	1	-1	-1	-1	-1	-12
9	**4.1**										1	1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	1	-1	-5
10	**27**											-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	1	1	-1	-1	-1	-1	-12
11	**10**												-1	-1	-1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-9
12	0.5													0	0	1	0	0	1	1	0	0	1	1	1	0	0	1	1	8
13	0.5														0	1	0	0	1	1	0	0	1	1	1	0	0	1	1	8
14	0.5															1	0	0	1	1	0	0	1	1	1	0	0	1	1	8
15	**83**																-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-13
16	0.5																	0	1	1	0	0	1	1	1	0	0	1	1	7
17	0.5																		1	1	0	0	1	1	1	0	0	1	1	7
18	**1.8**																			1	-1	-1	1	1	1	-1	-1	1	-1	0
19	**2.3**																				-1	-1	1	1	1	-1	-1	1	-1	-1
20	0.5																					0	1	1	1	0	0	1	1	5
21	0.5																						1	1	1	0	0	1	1	5
22	**23**																							1	1	-1	-1	-1	-1	-2
23	**29**																								1	-1	-1	-1	-1	-3
24	**45**																									-1	-1	-1	-1	-4
25	0.5																										0	1	1	2
26	0.5																											1	1	2
27	**5.2**																												-1	-1
28	1																													



Mann-Kendall "S" -100

(# plus - # minus)

Mann Kendall Trend Evaluation

Contaminant: cis-1,2-DCE

Monitoring Inputs

Quarter	MW-163				
	ug/l	ug/l	ug/l	ug/l	ug/l
1	220				
2	120				
3	91				
4	210				
5	41				
6	18				
7	38				
8	18				
9	100				
10	5.5				
11	0.5				
12	1.9				
13	39				
14	19				
15	16				
16	2.5				

Data Entry Cell

Mann-Kendall Results

0-8 Quarter Evaluation

MW-163	Decreasing
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

12 Quarter Evaluation

MW-163	Decreasing
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

5-12 Quarter Evaluation

MW-163	Decreasing
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

16 Quarter Evaluation

MW-163	Decreasing
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

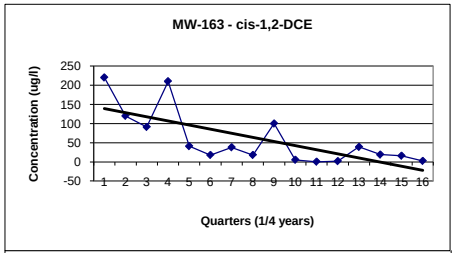
9-16 Quarter Evaluation

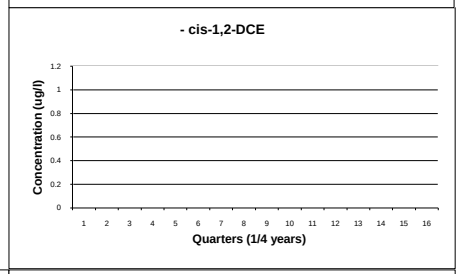
MW-163	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

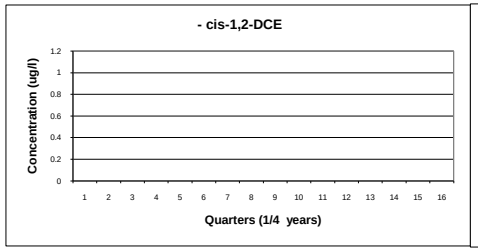
7 Year Evaluation

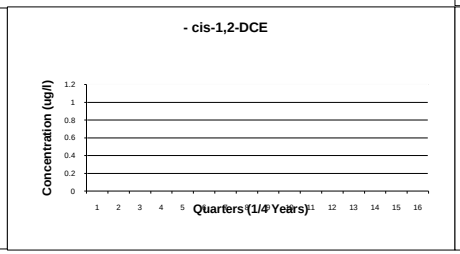
Mess1	Stable/No Trend

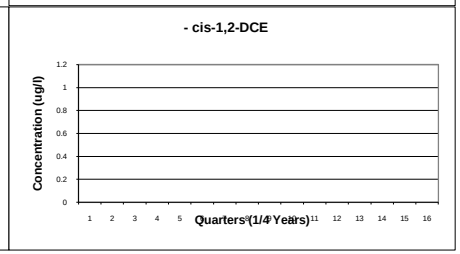
(See 7 year sheet for chart)











Mann Kendall Trend Evaluation

Contaminant: TCE

Monitoring Inputs

Quarter	MW-163				
	ug/l	ug/l	ug/l	ug/l	ug/l
1	440				
2	450				
3	28				
4	23				
5	46				
6	16				
7	14				
8	11				
9	22				
10	5.6				
11	1.6				
12	10				
13	32				
14	20				
15	93				
16	67				

Data Entry Cell

Mann-Kendall Results

0-8 Quarter Evaluation

MW-163	Decreasing
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

12 Quarter Evaluation

MW-163	Decreasing
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

5-12 Quarter Evaluation

MW-163	Decreasing
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

16 Quarter Evaluation

MW-163	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

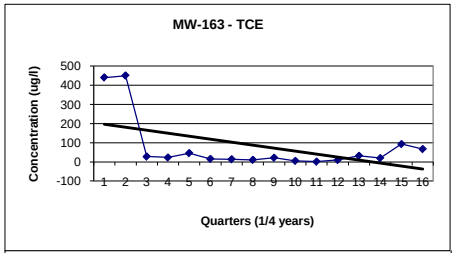
9-16 Quarter Evaluation

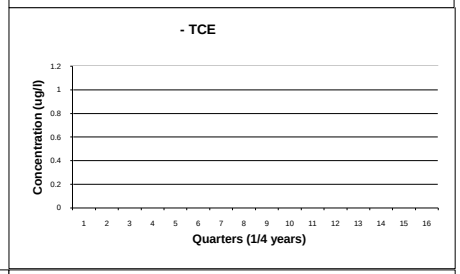
MW-163	Increasing
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

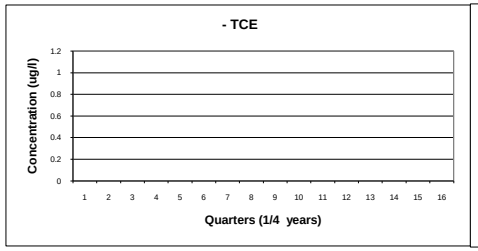
7 Year Evaluation

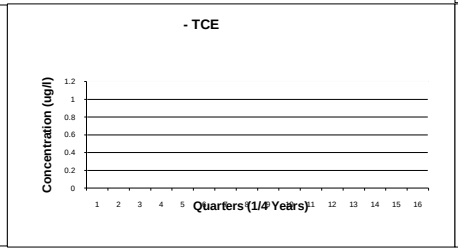
Mess1	Stable/No Trend

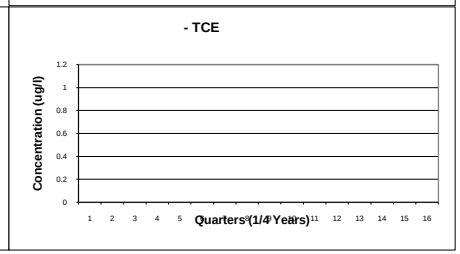
(See 7 year sheet for chart)











Mann Kendall Trend Evaluation

Contaminant: Vinyl chloride

Monitoring Inputs

Quarter	MW-163				
	ug/l	ug/l	ug/l	ug/l	ug/l
1	52				
2	20				
3	13				
4	230				
5	0.5				
6	30				
7	52				
8	2.4				
9	77				
10	15				
11	0.5				
12	1.0				
13	11				
14	12				
15	9.2				
16	1				

Data Entry Cell

Mann-Kendall Results

0-8 Quarter Evaluation

MW-163	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

12 Quarter Evaluation

MW-163	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

5-12 Quarter Evaluation

MW-163	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

16 Quarter Evaluation

MW-163	Decreasing
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

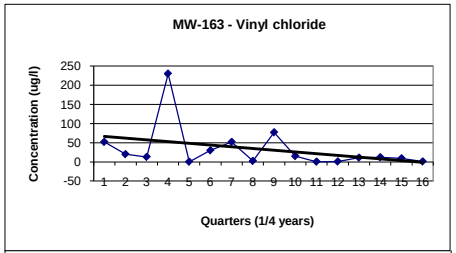
9-16 Quarter Evaluation

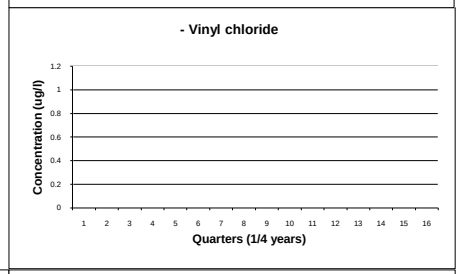
MW-163	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

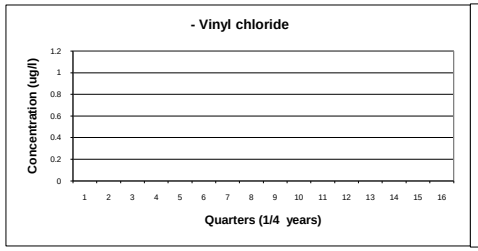
7 Year Evaluation

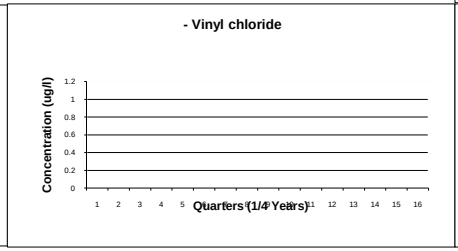
Mess1	Stable/No Trend

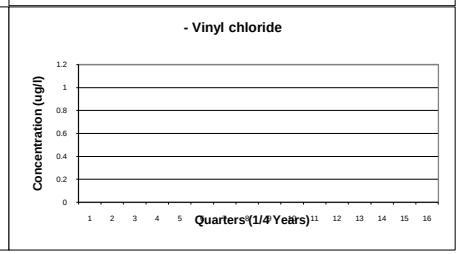
(See 7 year sheet for chart)











7 Year Mann-Kendall Analysis

Contaminant: TCE MW-164

Concentration or variance inputs (don't touch white cells)

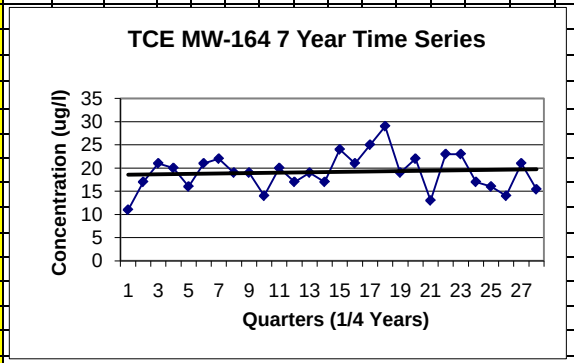
Mann-Kendall "S"	
"S" Value	15

Variance of "S"	
	Number of
	tied groups
# 2 times	2
# 3 times	0
# 4 times	1
# 5 times	0
# 6 times	0
# 7 times	0
# 8 times	0
# 9 times	0
# 10 times	0
Variance V(S)	2551.333333

Trend Evaluation	
Z 95%	Sample Z
1.645	0.277168859
Trend	Stable/No Trend

Messenger Well #1:

# Quarters	Time:Quarters / Concentration	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	Sum
1	11		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	27
2	17			1	1	-1	1	1	1	1	-1	1	0	1	0	1	1	1	1	1	1	-1	1	1	0	-1	-1	1	-1	11
3	21				-1	-1	0	1	-1	-1	-1	-1	-1	-1	-1	1	0	1	1	-1	1	-1	1	1	-1	-1	-1	0	-1	-8
4	20					-1	1	1	-1	-1	-1	0	-1	-1	-1	1	1	1	1	-1	1	-1	1	1	-1	-1	-1	1	-1	-3
5	16						1	1	1	1	-1	1	1	1	1	1	1	1	1	1	1	-1	1	1	1	0	-1	1	-1	14
6	21							1	-1	-1	-1	-1	-1	-1	-1	1	0	1	1	-1	1	-1	1	1	-1	-1	-1	0	-1	-6
7	22								-1	-1	-1	-1	-1	-1	-1	1	-1	1	1	-1	0	-1	1	1	-1	-1	-1	-1	-1	-10
8	19									0	-1	1	-1	0	-1	1	1	1	1	0	1	-1	1	1	-1	-1	-1	1	-1	1
9	19										-1	1	-1	0	-1	1	1	1	1	0	1	-1	1	1	-1	-1	-1	1	-1	1
10	14											1	1	1	1	1	1	1	1	1	1	-1	1	1	1	1	0	1	1	15
11	20												-1	-1	-1	1	1	1	1	-1	1	-1	1	1	-1	-1	-1	1	-1	-1
12	17													1	0	1	1	1	1	1	1	-1	1	1	0	-1	-1	1	-1	6
13	19														-1	1	1	1	1	0	1	-1	1	1	-1	-1	-1	1	-1	2
14	17															1	1	1	1	1	1	-1	1	1	0	-1	-1	1	-1	5
15	24																-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-9
16	21																	1	1	-1	1	-1	1	1	-1	-1	-1	0	-1	-1
17	25																		1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-9
18	29																			-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-10
19	19																				1	-1	1	1	-1	-1	-1	1	-1	-1
20	22																					-1	1	1	-1	-1	-1	-1	-1	-4
21	13																						1	1	1	1	1	1	1	7
22	23																							0	-1	-1	-1	-1	-1	-5
23	23																								-1	-1	-1	-1	-1	-5
24	17																									-1	-1	1	-1	-2
25	16																										-1	1	-1	-1
26	14																											1	1	2
27	21																												-1	-1
28	15.4																													



Mann-Kendall "S" 15

(# plus - # minus)

7 Year Mann-Kendall Analysis

Contaminant: cis-1,2-DCE MW-165S

Concentration or variance inputs (don't touch white cells)

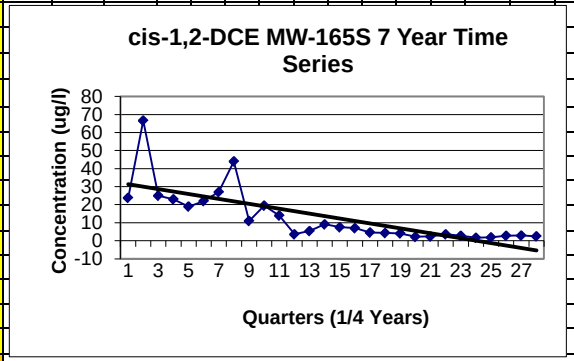
Mann-Kendall "S"	
"S" Value	-282

Variance of "S"	
	Number of
	tied groups
# 2 times	2
# 3 times	0
# 4 times	1
# 5 times	0
# 6 times	0
# 7 times	0
# 8 times	0
# 9 times	0
# 10 times	0
Variance V(S)	2551.333333

Trend Evaluation	
Z 95%	Sample Z
1.645	-5.602770508
Trend	Decreasing

Messenger Well #1:

	Time:Quarters	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
# Quarters	Concentration	24	66.6	25	23	19	22	27	44	11	20	14	4	5.4	9.1	7.5	7	5	4	4	2	2	4	3	2	2	3	3	3	Sum
1	23.8		1	1	-1	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-19
2	66.6			-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-26
3	25				-1	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-21
4	23					-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-20
5	19						1	1	1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-15
6	22							1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-18
7	27								1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-19
8	44									-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-20
9	11										1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-15
10	19.5											-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-18
11	14												-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-17
12	3.6													1	1	1	1	1	1	1	-1	-1	0	-1	-1	-1	-1	-1	-1	-1
13	5.4														1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-9
14	9.1															-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-14
15	7.5																-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-13
16	7.0																	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-12
17	4.6																		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-11
18	4.3																			-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-10
19	4.1																				-1	-1	-1	-1	-1	-1	-1	-1	-1	-9
20	2.2																					1	1	1	-1	-1	1	1	1	4
21	2.4																						1	1	-1	-1	1	1	1	3
22	3.6																							-1	-1	-1	-1	-1	-1	-6
23	2.8																								-1	-1	0	1	-1	-2
24	1.7																									1	1	1	1	4
25	1.9																										1	1	1	3
26	2.8																											1	-1	0
27	2.9																												-1	-1
28	2.5																													



Mann-Kendall "S" -282

(# plus - # minus)

7 Year Mann-Kendall Analysis

Contaminant: Vinyl chloride MW-165S

Concentration or variance inputs (don't touch white cells)

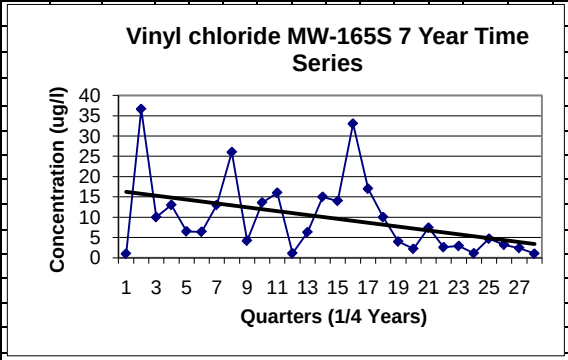
Mann-Kendall "S"	
"S" Value	-120

Variance of "S"	
	Number of
	tied groups
# 2 times	2
# 3 times	0
# 4 times	1
# 5 times	0
# 6 times	0
# 7 times	0
# 8 times	0
# 9 times	0
# 10 times	0
Variance V(S)	2551.333333

Trend Evaluation	
Z 95%	Sample Z
1.645	-2.395530853
Trend	Decreasing

Messenger Well #1:

	Time:Quarters	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
# Quarters	Concentration	1	36.6	10	13	7	6	13	26	4	14	16	1	6.3	15	14	33	17	10	4	2	7	3	3	1	5	3	2	1	Sum
1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	26
2	36.6			-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-26
3	10				1	-1	-1	1	1	-1	1	1	-1	-1	1	1	1	1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-6
4	13					-1	-1	0	1	-1	1	1	-1	-1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-9
5	6.5						-1	1	1	-1	1	1	-1	-1	1	1	1	1	1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-3
6	6.4							1	1	-1	1	1	-1	-1	1	1	1	1	1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-2
7	13								1	-1	1	1	-1	-1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-7
8	26									-1	-1	-1	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-18
9	4.2										1	1	-1	1	1	1	1	1	1	-1	-1	1	-1	-1	-1	1	-1	-1	-1	1
10	13.6											1	-1	-1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-8
11	16												-1	-1	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-13
12	1.1													1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	-1	13
13	6.3														1	1	1	1	1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-3
14	15															-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-10
15	14																1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-9
16	33																	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-12
17	17																		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-11
18	10																			-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-10
19	4.0																				-1	1	-1	-1	-1	1	-1	-1	-1	-5
20	2.2																					1	1	1	-1	1	1	1	-1	4
21	7.4																						-1	-1	-1	-1	-1	-1	-1	-7
22	2.6																							1	-1	1	1	-1	-1	0
23	2.9																								-1	1	1	-1	-1	-1
24	1.1																									1	1	1	-1	2
25	4.7																										-1	-1	-1	-3
26	3.2																											-1	-1	-2
27	2.4																												-1	-1
28	1																													



Mann-Kendall "S" -120

(# plus - # minus)

7 Year Mann-Kendall Analysis

Contaminant: MW-165D Cis-1,2-DCE

Concentration or variance inputs (don't touch white cells)

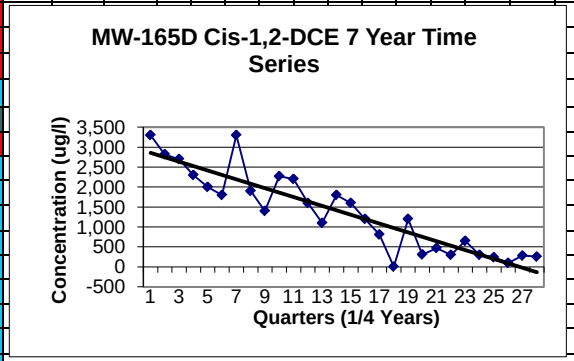
Mann-Kendall "S"	
"S" Value	-291

Variance of "S"	
	Number of
	tied groups
# 2 times	2
# 3 times	0
# 4 times	1
# 5 times	0
# 6 times	0
# 7 times	0
# 8 times	0
# 9 times	0
# 10 times	0
Variance V(S)	2551.333333

Trend Evaluation	
Z 95%	Sample Z
1.645	-5.780950489
Trend	Decreasing

Messenger Well #1:

	Time:Quarters	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
# Quarters	Concentration	###	2820	2700	##	##	##	##	##	##	##	##	##	###	###	###	###	##	4	##	##	##	##	##	##	##	98	##	##	Sum
1	3,300		-1	-1	-1	-1	-1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-26
2	2,820			-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-24
3	2,700				-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-23
4	2,300					-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-22
5	2,000						-1	1	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-17
6	1,800							1	1	-1	1	1	-1	-1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-13
7	3,300								-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-21
8	1,900									-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-16
9	1,400										1	1	1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-9
10	2,270											-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-18
11	2,200												-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-17
12	1,600													-1	1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-13
13	1,100														1	1	1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-7
14	1,800															-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-14
15	1,600																-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-13
16	1,200																	-1	-1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-11
17	810																		-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-9
18	4.4																			1	1	1	1	1	1	1	1	1	1	10
19	1,200																				-1	-1	-1	-1	-1	-1	-1	-1	-1	-9
20	310																					1	-1	1	-1	-1	-1	-1	-1	-4
21	470																						-1	1	-1	-1	-1	-1	-1	-5
22	300																							1	0	-1	-1	-1	-1	-3
23	650																								-1	-1	-1	-1	-1	-5
24	300																									-1	-1	-1	-1	-4
25	240																										-1	1	1	1
26	98																											1	1	2
27	280																												-1	-1
28	255																													



Mann-Kendall "S" -291

(# plus - # minus)

7 Year Mann-Kendall Analysis

Contaminant: MW-165D VC

Concentration or variance inputs (don't touch white cells)

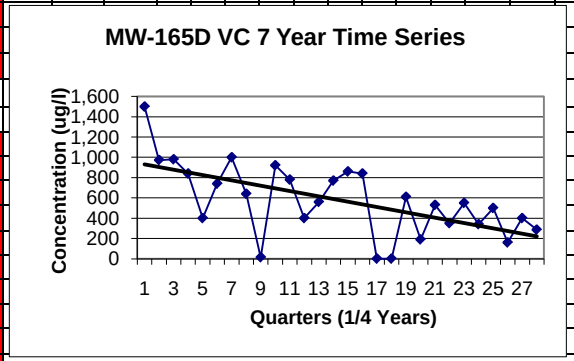
Mann-Kendall "S"	
"S" Value	-177

Variance of "S"	
	Number of
	tied groups
# 2 times	2
# 3 times	0
# 4 times	1
# 5 times	0
# 6 times	0
# 7 times	0
# 8 times	0
# 9 times	0
# 10 times	0
Variance V(S)	2551.333333

Trend Evaluation	
Z 95%	Sample Z
1.645	-3.524004065
Trend	Decreasing

Messenger Well #1:

	Time:Quarters	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
# Quarters	Concentration	###	973	980	##	##	##	##	##	14	##	##	##	560	770	860	840	1	1	##	##	##	##	##	##	##	##	##	##	Sum
1	1,500		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-27
2	973			1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-22
3	980				-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-23
4	840					-1	-1	1	-1	-1	1	-1	-1	-1	-1	1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-17
5	400						1	1	1	-1	1	1	0	1	1	1	1	-1	-1	1	-1	1	-1	1	-1	1	-1	0	-1	5
6	740							1	-1	-1	1	1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-10
7	1,000								-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-21
8	640									-1	1	1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-10
9	14										1	1	1	1	1	1	1	-1	-1	1	1	1	1	1	1	1	1	1	1	15
10	921											-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-18
11	780												-1	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-13
12	400													1	1	1	1	-1	-1	1	-1	1	-1	1	-1	1	-1	0	-1	1
13	560														1	1	1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-7
14	770															1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-10
15	860																-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-13
16	840																	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-12
17	0.5																		0	1	1	1	1	1	1	1	1	1	1	10
18	0.5																			1	1	1	1	1	1	1	1	1	1	10
19	610																				-1	-1	-1	-1	-1	-1	-1	-1	-1	-9
20	190																					1	1	1	1	1	-1	1	1	6
21	530																						-1	1	-1	-1	-1	-1	-1	-5
22	350																							1	-1	1	-1	1	-1	0
23	550																								-1	-1	-1	-1	-1	-5
24	340																									1	-1	1	-1	0
25	500																										-1	-1	-1	-3
26	160																											1	1	2
27	400																												-1	-1
28	286																													



Mann-Kendall "S" -177

(# plus - # minus)

7 Year Mann-Kendall Analysis

Contaminant: cis-1,2-DCE MW-166S

Concentration or variance inputs (don't touch white cells)

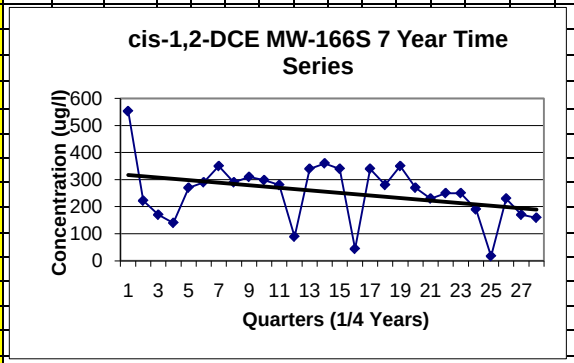
Mann-Kendall "S"	
"S" Value	-94

Variance of "S"	
	Number of
	tied groups
# 2 times	2
# 3 times	0
# 4 times	1
# 5 times	0
# 6 times	0
# 7 times	0
# 8 times	0
# 9 times	0
# 10 times	0
Variance V(S)	2551.333333

Trend Evaluation	
Z 95%	Sample Z
1.645	-1.880788686
Trend	Decreasing

Messenger Well #1:

	Time:Quarters	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
# Quarters	Concentration	553	222	170	##	##	##	##	##	##	##	##	89	340	360	340	44	##	##	##	##	##	##	##	##	17	##	##	##	Sum
1	553		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-27
2	222			-1	-1	1	1	1	1	1	1	1	-1	1	1	1	-1	1	1	1	1	1	1	1	-1	-1	1	-1	-1	10
3	170				-1	1	1	1	1	1	1	1	-1	1	1	1	-1	1	1	1	1	1	1	1	1	-1	1	0	-1	14
4	140					1	1	1	1	1	1	1	-1	1	1	1	-1	1	1	1	1	1	1	1	1	-1	1	1	1	18
5	270						1	1	1	1	1	1	-1	1	1	1	-1	1	1	1	0	-1	-1	-1	-1	-1	-1	-1	-1	2
6	290							1	0	1	1	-1	-1	1	1	1	-1	1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-5
7	350								-1	-1	-1	-1	-1	-1	1	-1	-1	-1	-1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-18
8	290									1	1	-1	-1	1	1	1	-1	1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-6
9	310										-1	-1	-1	1	1	1	-1	1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-9
10	298											-1	-1	1	1	1	-1	1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-8
11	280												-1	1	1	1	-1	1	0	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-6
12	89													1	1	1	-1	1	1	1	1	1	1	1	1	-1	1	1	1	12
13	340														1	0	-1	0	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-9
14	360															-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-14
15	340																-1	0	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-10
16	44																	1	1	1	1	1	1	1	1	-1	1	1	1	10
17	340																		-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-9
18	280																			1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-8
19	350																				-1	-1	-1	-1	-1	-1	-1	-1	-1	-9
20	270																					-1	-1	-1	-1	-1	-1	-1	-1	-8
21	230																						1	1	-1	-1	0	-1	-1	-2
22	250																							0	-1	-1	-1	-1	-1	-5
23	250																								-1	-1	-1	-1	-1	-5
24	190																									-1	1	-1	-1	-2
25	17																										1	1	1	3
26	230																											-1	-1	-2
27	170																												-1	-1
28	159																													



Mann-Kendall "S" -94

(# plus - # minus)

7 Year Mann-Kendall Analysis

Contaminant: Vinyl chloride MW-166S

Concentration or variance inputs (don't touch white cells)

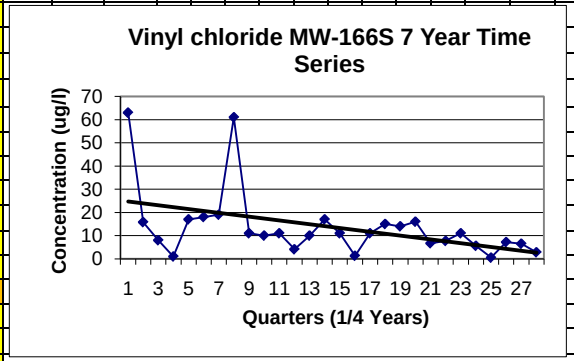
Mann-Kendall "S"	
"S" Value	-138

Variance of "S"	
	Number of
	tied groups
# 2 times	2
# 3 times	0
# 4 times	1
# 5 times	0
# 6 times	0
# 7 times	0
# 8 times	0
# 9 times	0
# 10 times	0
Variance V(S)	2551.333333

Trend Evaluation	
Z 95%	Sample Z
1.645	-2.751890815
Trend	Decreasing

Messenger Well #1:

	Time:Quarters	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
# Quarters	Concentration	63	15.8	8	1	17	18	19	61	11	10	11	4	10	17	11	1.3	11	15	14	16	7	8	11	6	1	7	7	3	Sum
1	63		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-27
2	15.8			-1	-1	1	1	1	1	-1	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-14
3	8				-1	1	1	1	1	1	1	1	-1	1	1	1	-1	1	1	1	1	-1	-1	1	-1	-1	-1	-1	-1	5
4	1					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	1	1	1	22
5	17						1	1	1	-1	-1	-1	-1	-1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-16
6	18							1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-18
7	19								1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-19
8	61									-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-20
9	11										-1	0	-1	-1	1	0	-1	0	1	1	1	-1	-1	0	-1	-1	-1	-1	-1	-7
10	10											1	-1	0	1	1	-1	1	1	1	1	-1	-1	1	-1	-1	-1	-1	-1	-1
11	11												-1	-1	1	0	-1	0	1	1	1	-1	-1	0	-1	-1	-1	-1	-1	-6
12	4.1													1	1	1	-1	1	1	1	1	1	1	1	1	-1	1	1	-1	10
13	10														1	1	-1	1	1	1	1	-1	-1	1	-1	-1	-1	-1	-1	-1
14	17															-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-14
15	11																-1	0	1	1	1	-1	-1	0	-1	-1	-1	-1	-1	-5
16	1.3																	1	1	1	1	1	1	1	1	-1	1	1	1	10
17	11																		1	1	1	-1	-1	0	-1	-1	-1	-1	-1	-4
18	15																			-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-8
19	14																				1	-1	-1	-1	-1	-1	-1	-1	-1	-7
20	16																					-1	-1	-1	-1	-1	-1	-1	-1	-8
21	6.7																						1	1	-1	-1	1	-1	-1	-1
22	7.7																							1	-1	-1	-1	-1	-1	-4
23	11																								-1	-1	-1	-1	-1	-5
24	5.6																									-1	1	1	-1	0
25	0.5																										1	1	1	3
26	7.2																											-1	-1	-2
27	6.5																												-1	-1
28	2.8																													



Mann-Kendall "S" -138

(# plus - # minus)

7 Year Mann-Kendall Analysis

Contaminant: MW-166D Cis-1,2-DCE

Concentration or variance inputs (don't touch white cells)

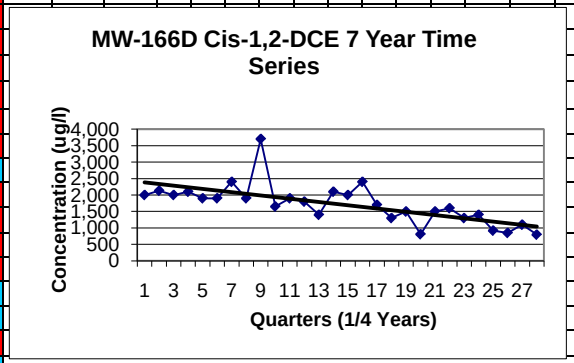
Mann-Kendall "S"	
"S" Value	-226

Variance of "S"	
	Number of
	tied groups
# 2 times	2
# 3 times	0
# 4 times	1
# 5 times	0
# 6 times	0
# 7 times	0
# 8 times	0
# 9 times	0
# 10 times	0
Variance V(S)	2551.333333

Trend Evaluation	
Z 95%	Sample Z
1.645	-4.494095072
Trend	Decreasing

Messenger Well #1:

	Time:Quarters	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
# Quarters	Concentration	###	2130	2000	##	##	##	##	##	##	##	##	##	###	###	###	###	##	##	##	##	##	##	##	##	##	##	##	##	Sum
1	2,000		1	0	1	-1	-1	1	-1	1	-1	-1	-1	-1	1	0	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-13
2	2,130			-1	-1	-1	-1	1	-1	1	-1	-1	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-20
3	2,000				1	-1	-1	1	-1	1	-1	-1	-1	-1	1	0	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-14
4	2,100					-1	-1	1	-1	1	-1	-1	-1	-1	0	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-17
5	1,900						0	1	0	1	-1	0	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-10
6	1,900							1	0	1	-1	0	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-10
7	2,400								-1	1	-1	-1	-1	-1	-1	-1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-18
8	1,900									1	-1	0	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-11
9	3,700										-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-19
10	1,650											1	1	-1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-6
11	1,900												-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-11
12	1,800													-1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-10
13	1,400														1	1	1	1	-1	1	-1	1	1	-1	0	-1	-1	-1	-1	0
14	2,100															-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-12
15	2,000																1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-11
16	2,400																	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-12
17	1,700																		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-11
18	1,300																			1	-1	1	1	0	1	-1	-1	-1	-1	-1
19	1,500																				-1	0	1	-1	-1	-1	-1	-1	-1	-6
20	810																					1	1	1	1	1	1	1	-1	6
21	1,500																						1	-1	-1	-1	-1	-1	-1	-5
22	1,600																							-1	-1	-1	-1	-1	-1	-6
23	1,300																								1	-1	-1	-1	-1	-3
24	1,400																									-1	-1	-1	-1	-4
25	920																										-1	1	-1	-1
26	850																											1	-1	0
27	1,100																												-1	-1
28	797																													



Mann-Kendall "S" -226

(# plus - # minus)

7 Year Mann-Kendall Analysis

Contaminant: MW-166D VC

Concentration or variance inputs (don't touch white cells)

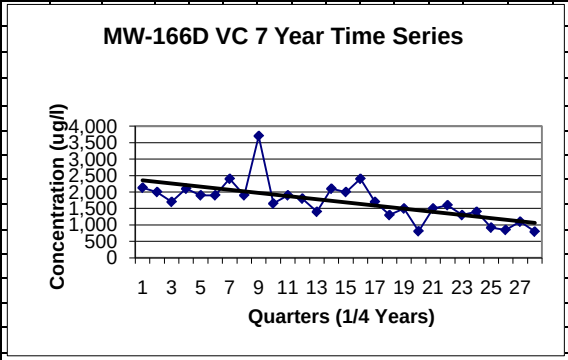
Mann-Kendall "S"	
"S" Value	-217

Variance of "S"	
	Number of
	tied groups
# 2 times	2
# 3 times	0
# 4 times	1
# 5 times	0
# 6 times	0
# 7 times	0
# 8 times	0
# 9 times	0
# 10 times	0
Variance V(S)	2551.333333

Trend Evaluation	
Z 95%	Sample Z
1.645	-4.315915091
Trend	Decreasing

Messenger Well #1:

	Time:Quarters	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
# Quarters	Concentration	###	2000	1700	##	##	##	##	##	##	##	##	##	###	###	###	###	##	##	##	##	##	##	##	##	##	##	##	##	Sum
1	2,130		-1	-1	-1	-1	-1	1	-1	1	-1	-1	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-21
2	2,000			-1	1	-1	-1	1	-1	1	-1	-1	-1	-1	1	0	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-15
3	1,700				1	1	1	1	1	1	-1	1	1	-1	1	1	1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-2
4	2,100					-1	-1	1	-1	1	-1	-1	-1	-1	0	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-17
5	1,900						0	1	0	1	-1	0	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-10
6	1,900							1	0	1	-1	0	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-10
7	2,400								-1	1	-1	-1	-1	-1	-1	-1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-18
8	1,900									1	-1	0	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-11
9	3,700										-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-19
10	1,650											1	1	-1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-6
11	1,900												-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-11
12	1,800													-1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-10
13	1,400														1	1	1	1	-1	1	-1	1	1	-1	0	-1	-1	-1	-1	0
14	2,100															-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-12
15	2,000																1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-11
16	2,400																	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-12
17	1,700																		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-11
18	1,300																			1	-1	1	1	0	1	-1	-1	-1	-1	-1
19	1,500																				-1	0	1	-1	-1	-1	-1	-1	-1	-6
20	810																					1	1	1	1	1	1	1	-1	6
21	1,500																						1	-1	-1	-1	-1	-1	-1	-5
22	1,600																							-1	-1	-1	-1	-1	-1	-6
23	1,300																								1	-1	-1	-1	-1	-3
24	1,400																									-1	-1	-1	-1	-4
25	920																										-1	1	-1	-1
26	850																											1	-1	0
27	1,100																												-1	-1
28	797																													



Mann-Kendall "S" -217

(# plus - # minus)

7 Year Mann-Kendall Analysis

Contaminant: MW-167D Cis-1,2-DCE

Concentration or variance inputs (don't touch white cells)

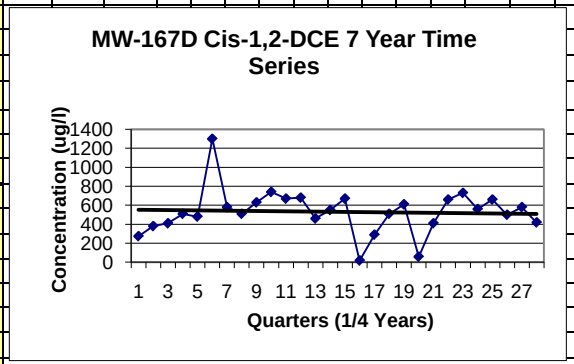
Mann-Kendall "S"	
"S" Value	27

Variance of "S"	
	Number of tied groups
# 2 times	2
# 3 times	0
# 4 times	1
# 5 times	0
# 6 times	0
# 7 times	0
# 8 times	0
# 9 times	0
# 10 times	0
Variance V(S)	2551.333333

Trend Evaluation	
Z 95%	Sample Z
1.645	0.514742167
Trend	Stable/No Trend

Messenger Well #1:

	Time:Quarters	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
# Quarters	Concentration	274	380	410	##	##	##	##	##	##	##	##	##	460	550	670	18	##	##	##	58	##	##	##	##	##	##	##	##	Sum
1	274		1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	1	1	1	-1	1	1	1	1	1	1	1	1	23
2	380			1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	1	1	-1	1	1	1	1	1	1	1	1	20
3	410				1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	1	1	-1	0	1	1	1	1	1	1	1	18
4	510					-1	1	1	0	1	1	1	1	-1	1	1	-1	-1	0	1	-1	-1	1	1	1	1	-1	1	-1	6
5	480						1	1	1	1	1	1	1	-1	1	1	-1	-1	1	1	-1	-1	1	1	1	1	1	1	-1	11
6	1300							-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-22
7	580								-1	1	1	1	1	-1	-1	1	-1	-1	-1	1	-1	-1	1	1	-1	1	-1	0	-1	-2
8	510									1	1	1	1	-1	1	1	-1	-1	0	1	-1	-1	1	1	1	1	-1	1	-1	5
9	630										1	1	1	-1	-1	1	-1	-1	-1	-1	-1	-1	1	1	-1	1	-1	-1	-1	-5
10	740											-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-18
11	670												1	-1	-1	0	-1	-1	-1	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-12
12	680													-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-14
13	460														1	1	-1	-1	1	1	-1	-1	1	1	1	1	1	1	-1	5
14	550															1	-1	-1	-1	1	-1	-1	1	1	1	1	-1	1	-1	0
15	670																-1	-1	-1	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-11
16	18																	1	1	1	1	1	1	1	1	1	1	1	1	12
17	290																		1	1	-1	1	1	1	1	1	1	1	1	9
18	510																			1	-1	-1	1	1	1	1	-1	1	-1	2
19	610																				-1	-1	1	1	-1	1	-1	-1	-1	-3
20	58																					1	1	1	1	1	1	1	1	8
21	410																						1	1	1	1	1	1	1	7
22	660																							1	-1	0	-1	-1	-1	-3
23	730																								-1	-1	-1	-1	-1	-5
24	560																									1	-1	1	-1	0
25	660																										-1	-1	-1	-3
26	500																											1	-1	0
27	580																												-1	-1
28	419																													



Mann-Kendall "S" 27

(# plus - # minus)

7 Year Mann-Kendall Analysis

Contaminant: MW-167D VC

Concentration or variance inputs (don't touch white cells)

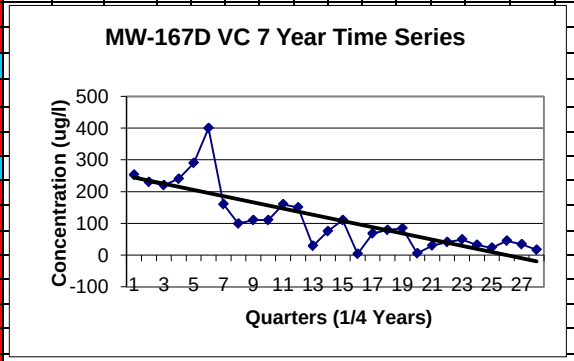
Mann-Kendall "S"	
"S" Value	-238

Variance of "S"	
	Number of
	tied groups
# 2 times	2
# 3 times	0
# 4 times	1
# 5 times	0
# 6 times	0
# 7 times	0
# 8 times	0
# 9 times	0
# 10 times	0
Variance V(S)	2551.333333

Trend Evaluation	
Z 95%	Sample Z
1.645	-4.73166838
Trend	Decreasing

Messenger Well #1:

# Quarters	Time:Quarters / Concentration	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	Sum
1	253		-1	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-23
2	230			-1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-20
3	220				1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-19
4	240					1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-20
5	290						1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-21
6	400							-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-22
7	160								-1	-1	-1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-20
8	99									1	1	1	1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-10
9	110										0	1	1	-1	-1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-13
10	110											1	1	-1	-1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-13
11	160												-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-17
12	150													-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-16
13	29														1	1	-1	1	1	1	-1	1	1	1	1	-1	1	1	-1	7
14	75															1	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-8
15	110																-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-13
16	3.6																	1	1	1	1	1	1	1	1	1	1	1	1	12
17	68																		1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-7
18	79																			1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-8
19	84																				-1	-1	-1	-1	-1	-1	-1	-1	-1	-9
20	5.4																					1	1	1	1	1	1	1	1	8
21	30																						1	1	1	-1	1	1	-1	3
22	41																							1	-1	-1	1	-1	-1	-2
23	49																								-1	-1	-1	-1	-1	-5
24	32																									-1	1	1	-1	0
25	23																										1	1	-1	1
26	45																											-1	-1	-2
27	34																												-1	-1
28	16.5																													



Mann-Kendall "S" -238

(# plus - # minus)

7 Year Mann-Kendall Analysis

Contaminant: Vinyl chloride MW-169D

Concentration or variance inputs (don't touch white cells)

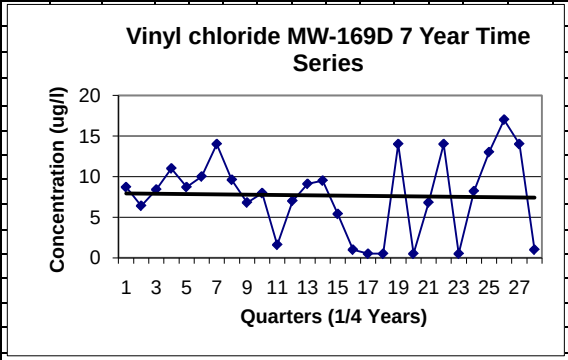
Mann-Kendall "S"	
"S" Value	-21

Variance of "S"	
	Number of
	tied groups
# 2 times	2
# 3 times	0
# 4 times	1
# 5 times	0
# 6 times	0
# 7 times	0
# 8 times	0
# 9 times	0
# 10 times	0
Variance V(S)	2551.333333

Trend Evaluation	
Z 95%	Sample Z
1.645	-0.435551064
Trend	Stable/No Trend

Messenger Well #1:

	Time:Quarters	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
# Quarters	Concentration	8.7	6.4	8.4	11	9	10	14	10	7	8	2	7	9.1	9.5	5.4	1	1	1	14	1	7	14	1	8	13	17	14	1	Sum
1	8.7		-1	-1	1	0	1	1	1	-1	-1	-1	-1	1	1	-1	-1	-1	-1	1	-1	-1	1	-1	-1	1	1	1	-1	-4
2	6.4			1	1	1	1	1	1	1	1	-1	1	1	1	-1	-1	-1	-1	1	-1	1	1	-1	1	1	1	1	-1	10
3	8.4				1	1	1	1	1	-1	-1	-1	-1	1	1	-1	-1	-1	-1	1	-1	-1	1	-1	-1	1	1	1	-1	-1
4	11					-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1	-1	1	-1	-1	1	1	1	-1	-12
5	8.7						1	1	1	-1	-1	-1	-1	1	1	-1	-1	-1	-1	1	-1	-1	1	-1	-1	1	1	1	-1	-3
6	10							1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1	-1	1	-1	-1	1	1	1	-1	-10
7	14								-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	-1	-1	0	-1	-1	-1	1	0	-1	-16
8	9.6									-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1	-1	1	-1	-1	1	1	1	-1	-10
9	6.8										1	-1	1	1	1	-1	-1	-1	-1	1	-1	0	1	-1	1	1	1	1	-1	2
10	7.97											-1	-1	1	1	-1	-1	-1	-1	1	-1	-1	1	-1	1	1	1	1	-1	-2
11	1.6												1	1	1	1	-1	-1	-1	1	-1	1	1	-1	1	1	1	1	-1	5
12	7.0													1	1	-1	-1	-1	-1	1	-1	-1	1	-1	1	1	1	1	-1	0
13	9.1														1	-1	-1	-1	-1	1	-1	-1	1	-1	-1	1	1	1	-1	-3
14	9.5															-1	-1	-1	-1	1	-1	-1	1	-1	-1	1	1	1	-1	-4
15	5.4																-1	-1	-1	1	-1	1	1	-1	1	1	1	1	-1	1
16	1.0																	-1	-1	1	-1	1	1	-1	1	1	1	1	0	3
17	0.5																		0	1	0	1	1	0	1	1	1	1	1	8
18	0.5																			1	0	1	1	0	1	1	1	1	1	8
19	14																				-1	-1	0	-1	-1	-1	1	0	-1	-5
20	0.5																					1	1	0	1	1	1	1	1	7
21	6.8																						1	-1	1	1	1	1	-1	3
22	14																							-1	-1	-1	1	0	-1	-3
23	0.5																								1	1	1	1	1	5
24	8.2																									1	1	1	-1	2
25	13																										1	1	-1	1
26	17																											-1	-1	-2
27	14																												-1	-1
28	1																													



Mann-Kendall "S" -21

(# plus - # minus)

Mann Kendall Trend Evaluation

Contaminant: cis-1,2-DCE

Monitoring Inputs

Quarter	MW-173				
	ug/l	ug/l	ug/l	ug/l	ug/l
1	36				
2	30				
3	39				
4	25				
5	23				
6	14				
7	9.5				
8	75				
9	160				
10	140				
11	20				
12	8.3				
13	71				
14	15				
15	11				
16	10				

Data Entry Cell

Mann-Kendall Results

0-8 Quarter Evaluation

MW-173	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

12 Quarter Evaluation

MW-173	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

5-12 Quarter Evaluation

MW-173	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

16 Quarter Evaluation

MW-173	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

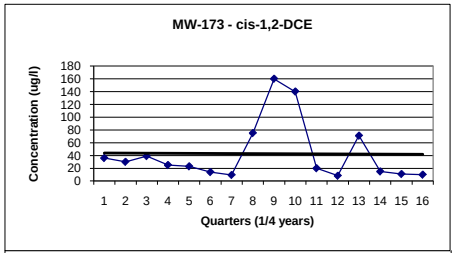
9-16 Quarter Evaluation

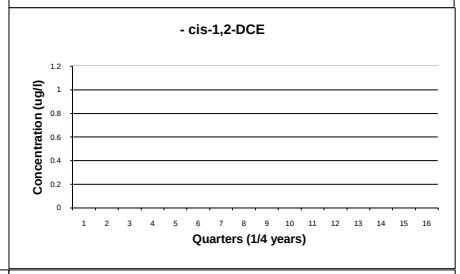
MW-173	Decreasing
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

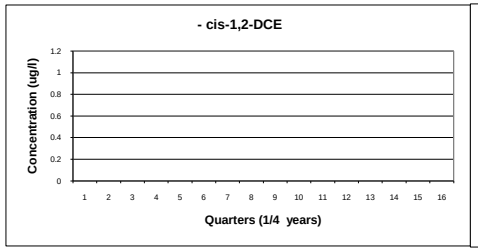
7 Year Evaluation

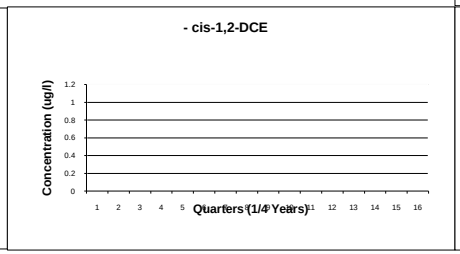
Mess1	Stable/No Trend

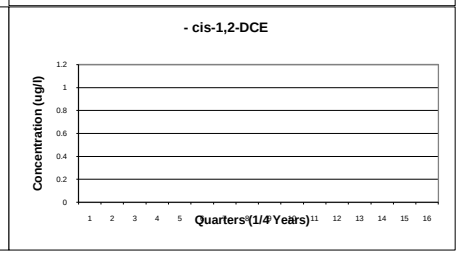
(See 7 year sheet for chart)











Mann Kendall Trend Evaluation

Contaminant: TCE

Monitoring Inputs

Quarter	MW-173				
	ug/l	ug/l	ug/l	ug/l	ug/l
1	290				
2	210				
3	270				
4	300				
5	260				
6	180				
7	120				
8	160				
9	190				
10	320				
11	150				
12	89				
13	230				
14	140				
15	110				
16	148				

Data Entry Cell

Mann-Kendall Results

0-8 Quarter Evaluation

MW-173	Decreasing
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

5-12 Quarter Evaluation

MW-173	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

9-16 Quarter Evaluation

MW-173	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

12 Quarter Evaluation

MW-173	Decreasing
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

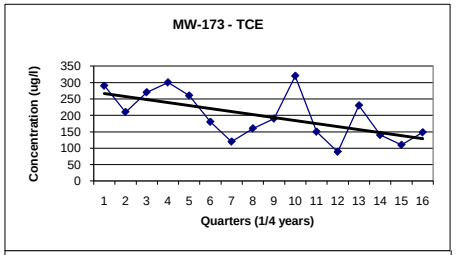
16 Quarter Evaluation

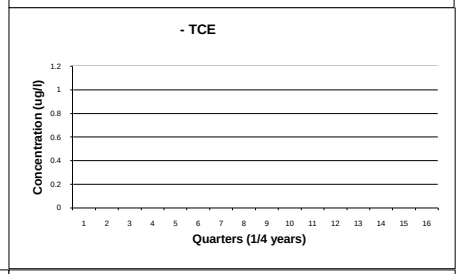
MW-173	Decreasing
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

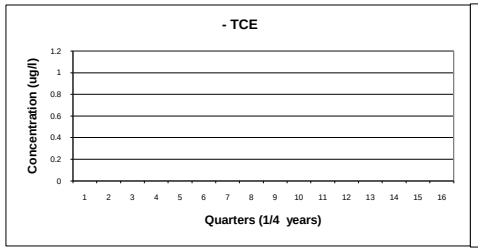
7 Year Evaluation

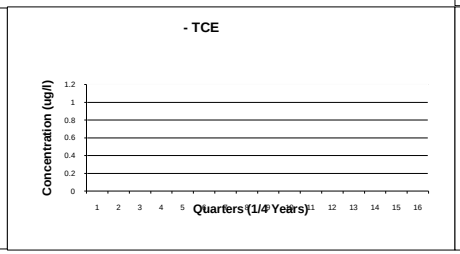
Mess1	Stable/No Trend

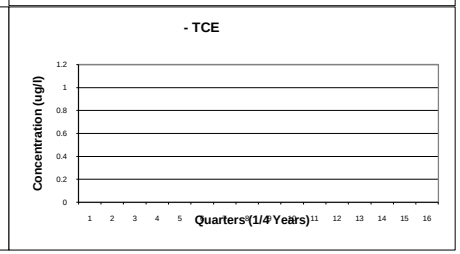
(See 7 year sheet for chart)











Mann Kendall Trend Evaluation

Contaminant: Vinyl chloride

Monitoring Inputs

Quarter	IW-1				
	ug/l	ug/l	ug/l	ug/l	ug/l
1	83				
2	61				
3	170				
4	200				
5	0.5				
6	82				
7	7.2				
8	47				
9	1.3				
10	6.4				
11	6.7				
12	0.5				
13	25				
14	0.5				
15	4.9				
16	1				

Data Entry Cell

Mann-Kendall Results

0-8 Quarter Evaluation

IW-1	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

12 Quarter Evaluation

IW-1	Decreasing
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

5-12 Quarter Evaluation

IW-1	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

16 Quarter Evaluation

IW-1	Decreasing
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

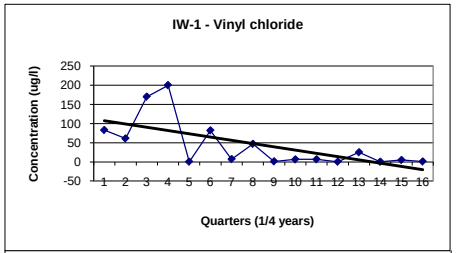
9-16 Quarter Evaluation

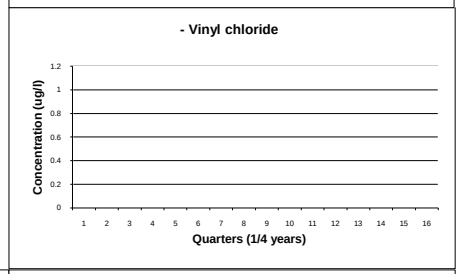
IW-1	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

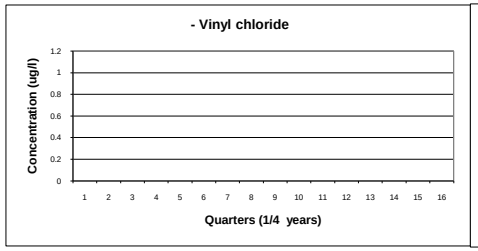
7 Year Evaluation

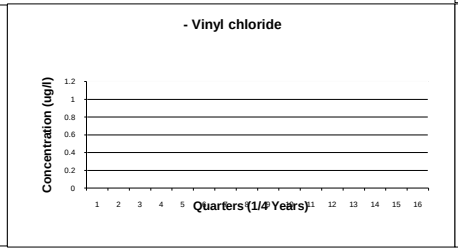
Mess1	Stable/No Trend

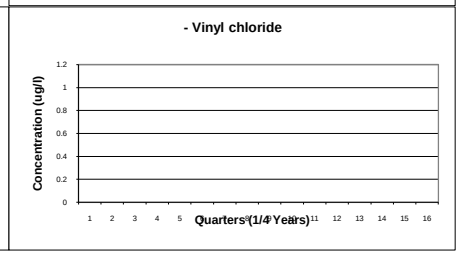
(See 7 year sheet for chart)











Mann Kendall Trend Evaluation

Contaminant: TCE

Monitoring Inputs

Quarter	IW-2				
	ug/l	ug/l	ug/l	ug/l	ug/l
1	110				
2	110				
3	100				
4	100				
5	130				
6	130				
7	110				
8	100				
9	75				
10	190				
11	110				
12	85				
13	60				
14	89				
15	90				
16	67				

Data Entry Cell

Mann-Kendall Results

0-8 Quarter Evaluation

IW-2	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

12 Quarter Evaluation

IW-2	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

5-12 Quarter Evaluation

IW-2	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

16 Quarter Evaluation

IW-2	Decreasing
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

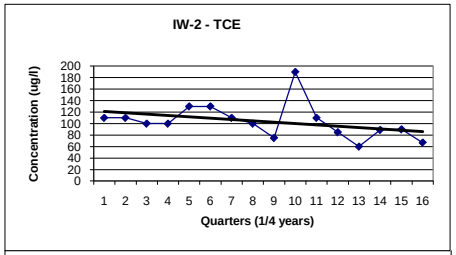
9-16 Quarter Evaluation

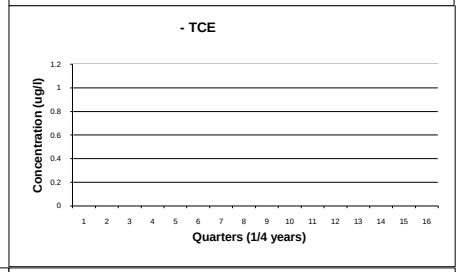
IW-2	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

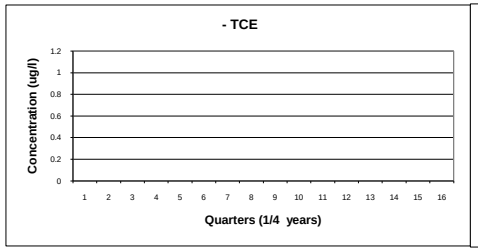
7 Year Evaluation

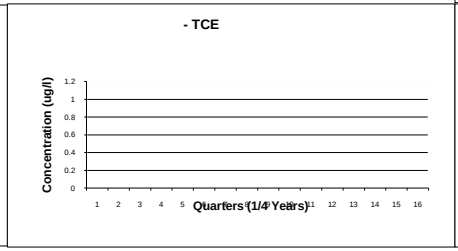
Mess1	Stable/No Trend

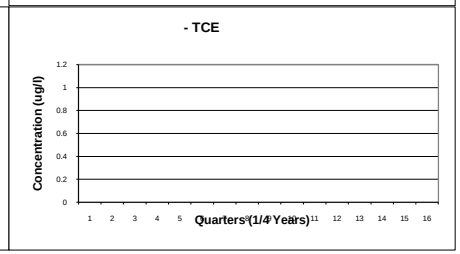
(See 7 year sheet for chart)











Mann Kendall Trend Evaluation

Contaminant: Vinyl chloride

Monitoring Inputs

Quarter	IW-2				
	ug/l	ug/l	ug/l	ug/l	ug/l
1	0.5				
2	0.5				
3	5				
4	3.3				
5	2.9				
6	0.5				
7	0.5				
8	4.5				
9	0.5				
10	0.5				
11	13				
12	11				
13	0.5				
14	0.5				
15	4.0				
16	1				

Data Entry Cell

Mann-Kendall Results

0-8 Quarter Evaluation

IW-2	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

12 Quarter Evaluation

IW-2	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

5-12 Quarter Evaluation

IW-2	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

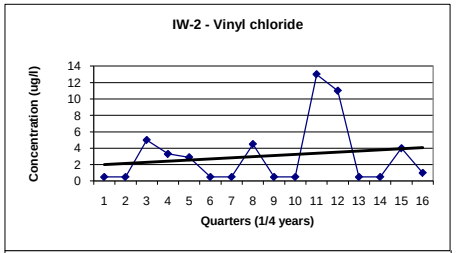
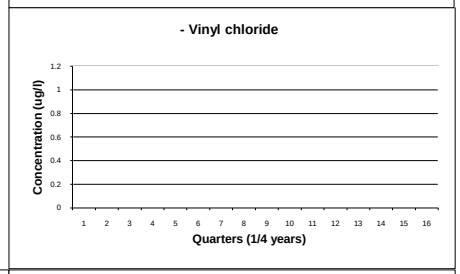
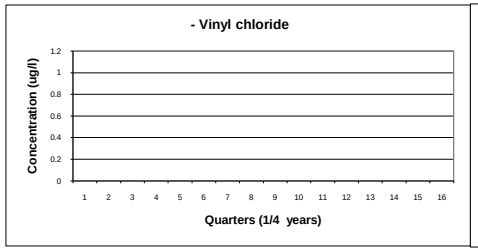
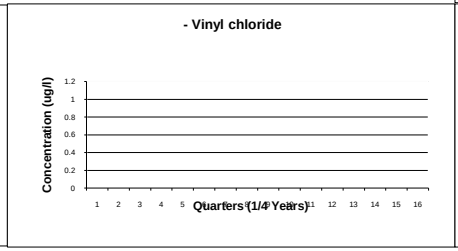
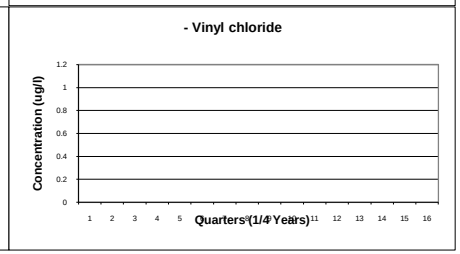
16 Quarter Evaluation

IW-2	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

9-16 Quarter Evaluation

IW-2	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend
0	Stable/No Trend

7 Year Evaluation

Mess1	Stable/No Trend

(See 7 year sheet for chart)