Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

RCRA FACILITY GROUNDWATER, LEACHATE AND GAS REPORTING FORM

This form must be used as a cover sheet for the notices and reports, identified below as required by: (1) a facility's RCRA interim status closure plan; (2) the RCRA interim status regulations; or (3) a facility's RCRA permit. All reports must be submitted to the Illinois EPA's Bureau of Land Permit Section. This form is for use by Hazardous Waste facilities only. Reporting for Solid Waste facilities should be submitted on a separate form. All reports submitted to the Illinois EPA's Bureau of Land Permit Section must contain an original, plus a minimum of two copies.

Note: This form is not to be used with permit or closure plan modification requests. The facility's approved permit or closure plan will state whether the document you are submitting is required as a report or a modification request.

Facility Name: Equilon Enterprises LLC dba Shell Oil Products US

Facility Address: 900 South Central Ave., Roxana, IL 62048

Site ID #: 1191150002 Fed ID #: ILD 080 012 305

Check the appropriate heading. Only one heading may be checked for each corresponding submittal. Check the appropriate sub-heading, where applicable. Attach the original and all copies behind this form.

☐ LPC-160 Forms

Groundwater	Leachate
___ Quarterly - Enter: 1, 2, 3, or 4	___ Quarterly - Enter: 1, 2, 3, or 4
☐ Semi-Annual	☐ Semi-Annual
☐ Annual	☐ Annual
☐ Biennial	☐ Biennial

☒ Groundwater Data (without LPC-160 Forms)

4 Quarterly - Enter: 1, 2, 3, or 4 ☐ Annual ☐ Semi-Annual ☐ Biennial

☐ Well Construction Information

- ☐ Well Construction Forms, Boring Logs and/or Abandonment Forms
- ☐ Well Survey Data (e.g., Stick-up Elevation Data)

☐ Notice of Statistically Significant Evidence of Groundwater Contamination (35 Ill. Adm. Code 724.198)

☐ Notice of Exceedence of Groundwater Concentration Limit (35 Ill. Adm. Code 724.199(h))

☐ Notice of Alternate Source or Error in Sampling Analysis or Evaluation of Groundwater (35 Ill. Adm. Code 724.199(i))

☐ Gas Monitoring Reports

☐ Other (identify)

_____

_____

AECOM
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January 13, 2015

Ms. Joyce Munie, P.E.
Manager, Permit Section
Illinois Environmental Protection Agency
Bureau of Land
1021 North Grand Avenue East
Springfield, Illinois 62794

Groundwater Monitoring Report – 4th Quarter 2015
Roxana, Illinois
119115002 – Madison County
Equilon Enterprises LLC d/b/a Shell Oil Products US
Log No. B-43-CA-21

Dear Ms. Munie:

On behalf of Shell Oil Products US (SOPUS), AECOM (formerly URS Corporation) is submitting the enclosed report for your review. This sampling was required by Condition 7 of the Agency's letter dated August 5, 2010.

If you have any questions during your review, please contact Kevin Dyer, SOPUS Senior Principal Program Manager, at kevin.dyer@shell.com (618/288-7237), or Bob Billman at bob.billman@aecom.com (314/743-4108).

Sincerely,

AECOM, on behalf of Shell Oil Products US





Robert B. Billman
Senior Project Manager

Robert E. Mooshegian, CHMM
Senior Project Manager

Enclosures: RCRA Facility Groundwater, Leachate and Gas Reporting Form, Report (original plus 1 copy)

cc: Kevin Dyer, SOPUS
Eric Petersen, Phillips 66
Amy Boley, IEPA, Springfield
Gina Search, IEPA, Collinsville
Thomas Tunnicliff, Atlantic Richfield Company
Shannon Haney, Greensfelder, Hemker & Gale P.C.
Repositories – Village Hall, Roxana Public Library, website

AECOM

Design and Consulting Services Environment

Submitted to:
Illinois Environmental Protection Agency - Bureau of Land
1021 North Grand Ave. East
Springfield, IL 62794

Submitted by:
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4th Quarter 2015 Report Roxana Interim Groundwater Monitoring Program

Prepared for:
Shell Oil Products US
Roxana, Illinois

January 2016
Project 60400249

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1 Introduction

AECOM Technical Services Inc. (AECOM) (formerly URS Corporation (URS)) is submitting this report on behalf of Shell Oil Products US (SOPUS) for the 4th Quarter 2015 (4Q15) groundwater monitoring well gauging and sampling conducted in the Village of Roxana, Illinois (**Figure 1**). The study area within the Village of Roxana (Village) is generally bounded by the alley north of First Street, Illinois Route 111, the West Fenceline of the WRB Refining, LP (WRB)[1] Wood River Refinery (WRR), and the Roxana Public Works Yard. Some groundwater monitoring wells within the WRR were also sampled as part of this event; this was conducted in cooperation with WRB/Phillips 66 (P66)[2]. For purposes of presentation in this report only, the combined area is collectively referred to as the "Investigation Area."

In an August 5, 2010 letter from the Illinois Environmental Protection Agency (IEPA) to SOPUS (IEPA, 2010), IEPA requested various site characterization and monitoring activities, along with initiation of the Interim Groundwater Monitoring Program. This program began in 4th Quarter 2010 (4Q10), and the first report was submitted on January 14, 2011. On March 3, 2011, a conference call was held among representatives of SOPUS, IEPA, and URS to discuss the groundwater monitoring program and IEPA's general comments on the 4Q10 report. Subsequent modifications were incorporated during the 1st Quarter 2011 (1Q11) and 2nd Quarter 2011 (2Q11) Interim Groundwater Monitoring Program. Additional items and comments regarding the Interim Groundwater Monitoring Program were presented by IEPA in June 16, 2011 (IEPA, 2011a) and August 31, 2011 (IEPA, 2011b) letters. These items and comments were addressed in the 3rd Quarter 2011 (3Q11) and 4th Quarter 2011 (4Q11) reports.

In a March 14, 2012 letter (CA-24) from IEPA to SOPUS (IEPA, 2012a), IEPA requested groundwater piezometer ROST-3-PZ and groundwater monitoring well ROST-4-PZ(C) be added to the program. These monitoring locations were added to the program in 2nd Quarter 2012 (2Q12), and the results are incorporated into this report.

In a second letter (CA-25), dated March 14, 2012, from IEPA to SOPUS (IEPA, 2012b), IEPA requested that perched groundwater be evaluated at the following existing groundwater monitoring piezometers: P-60-12S, P-60-13S, ROST-5-PZ, ROST-7-PZ, ROST-10-PZ, and ROST-21-PZ. These perched groundwater monitoring piezometers were incorporated into the program beginning in 2Q12 and continue to be evaluated. In a letter dated August 16, 2013, URS, on behalf of SOPUS, informed the IEPA of the determination that the perched groundwater monitoring piezometers are either dry, based on the criteria given in their March 14, 2012 letter, or not able to be sampled per the groundwater sampling standard operating procedure (SOP) due to slow recharge. The IEPA, during phone conversations, requested that certain piezometers remain in the program. In response to this request, a letter dated January 14, 2014 was submitted to IEPA (URS, 2014b), stating that these piezometers will remain in the program. A separate letter dated January 14, 2014 was submitted to the IEPA (URS, 2014a), requesting removal of ROST-5-PZ and ROST-10-PZ based on Condition 8(a) of the March 14, 2012 IEPA letter (CA-25), which states that ROST-5-PZ and ROST-10-PZ must remain within the program for one year before the determination is made that these wells are dry.

In the same March 14, 2012 letter (CA-25), IEPA also requested the installation of groundwater monitoring wells in the Village to evaluate potential light non-aqueous phase liquid (LNAPL). These groundwater monitoring wells were

[1] WRB, formed January 1, 2007, is a 50/50 joint venture between ConocoPhillips (COP) and EnCana US Refineries, LLC (now known as Cenovus Energy, Inc.).

[2] ConocoPhillips Company announced the separation of the Refining and Marketing business from the Exploration & Production business on July 14, 2011. The separation included an ownership change as well as a name change that became effective May 1, 2012. Phillips 66 is now the operator of the WRB WRR.

installed during 4th Quarter 2012 (4Q12), with the last well being completed on December 8, 2012. These groundwater monitoring wells were incorporated into the program beginning in 1st Quarter 2013 (1Q13).

On May 31, 2012, IEPA verbally requested the following be incorporated into the 2Q12 report:

- The ROST-4 series of groundwater monitoring wells and piezometers in the groundwater elevation contour maps;
- A groundwater contour map focusing on the West Fenceline area in the Village; and
- A Roxana site and WRR LNAPL map.

In an April 8, 2013 letter from IEPA to SOPUS (IEPA, 2013b), IEPA requested a discussion of irregular potentiometric contours in the ROST-4-PZ area and P-60 area wells. This response was submitted to the IEPA in a letter dated July 29, 2013 (URS, 2013a).

In a July 18, 2013 letter from IEPA to SOPUS (IEPA, 2013c), IEPA approved a change in gauging frequencies for wells in the Interim Groundwater Monitoring Program. The list of wells to be gauged on a weekly basis was reduced and a new list of wells to be gauged on a monthly basis was initiated. This letter also requested that any free phase hydrocarbon (FPH) and photoionization detector (PID) data collected at the well heads be included in the quarterly groundwater monitoring reports. The modified gauging frequencies for wells began the week of July 22, 2013. The list of wells gauged during each routine event is reviewed on a regular basis and modified to meet the conditions requested by the IEPA. The additional reporting requirements were first incorporated in the 3rd Quarter 2013 (3Q13) report.

In a June 13, 2014 letter from IEPA to SOPUS (IEPA, 2014a), IEPA requested the installation of four groundwater monitoring wells in the Village to monitor the extent and effectiveness of corrective action efforts within the residential area. The access agreement with the Village was signed on August 12, 2014, and well installation began in September 2014 and was completed in October 2014.

In an October 9, 2014 letter from IEPA to SOPUS (IEPA, 2014b), IEPA approved the installation plan for a groundwater monitoring well located on BP property with certain conditions and modifications. This well was installed during January 2015 and was added to the Interim Groundwater Monitoring Program in 1st Quarter 2015 (1Q15).

In a letter dated November 25, 2014 (IEPA, 2014c), IEPA approved the proposed plan for groundwater corrective action (submitted to IEPA on November 14, 2013), with the following conditions:

- The 1Q15 groundwater samples obtained from: (1) the current monitoring well network; (2) the four new wells required by the modified Resource Conservation and Recovery Act (RCRA) Post-Closure Permit (Permit) at the WRR issued June 13, 2014; and (3) the new well required by the October 9, 2014, letter must be used in a demonstration to verify the extent of groundwater contamination has been delineated; or
- If SOPUS cannot define the extent of contamination, a proposal for additional investigation must be submitted.

On April 16, 2015, a letter was submitted to IEPA by AECOM, on behalf of SOPUS, delineating the extent of groundwater contamination (AECOM, 2015a). A response to this demonstration is pending as of the date of this report.

On December 5, 2014, a letter was submitted to IEPA by URS (URS, 2014c), on behalf of SOPUS, requesting a reduction in the routine gauging performed as part of the Interim Groundwater Monitoring Program. A response to this request is pending as of the date of this report.

In a letter dated May 22, 2015, IEPA provided approval for the April 3, 2013, Groundwater Monitoring Well and Vapor Monitoring Point Installation Report (IEPA, 2015a).

Groundwater samples were collected and analyzed during 4Q15 to meet the requirements of the Interim Groundwater Monitoring Program, as specified in the above guidance. **Figure 2** shows the groundwater monitoring wells that were sampled during 4Q15 as part of the interim monitoring well network.

2 Groundwater Sampling and Analytical Procedures

The groundwater monitoring well gauging, sample collection, and analytical procedures are discussed in this section. Gauging and sampling procedures are based on the Interim Groundwater Monitoring Program, as outlined in the IEPA's letter dated August 5, 2010 (IEPA, 2010), and as modified based on other correspondence outlined in **Section 1**.

2.1 Additional Activities or Modifications

The following additional work activities or modifications were conducted during 4Q15:

- Groundwater monitoring well P-114, located on the WRR West Property, was replaced by Roberts Environmental Drilling Inc. on September 14 and 15, 2015. This well required replacement because the dedicated pump was stuck within the well and the well was unable to be gauged. The replacement well is designated as P-114R. Documentation, including the boring log and well construction diagram, was submitted to the Illinois Department of Public Health (IDPH) separately, in accordance with the Permit. The analytical results for soil samples collected during installation of well P-114R are provided in **Appendix A**.
- Monitoring well P-114 was abandoned in November 2015, after AECOM reviewed the analytical data for the groundwater sample collected from P-114R for the 4Q15 Roxana Interim Groundwater Monitoring Program. Documentation of this well abandonment was submitted to the IEPA in a letter dated December 11, 2015 (AECOM, 2015b).

2.2 Groundwater Monitoring Well Gauging and Sampling

Groundwater Monitoring Well Gauging

The comprehensive quarterly groundwater monitoring well gauging event was conducted between October 1 and 5, 2015. The 4Q15 gauging activities were conducted in conjunction with the 4Q15 gauging event for the WRR to evaluate groundwater flow direction and identify possible LNAPL in the Investigation Area. Depth to LNAPL (if present) and depth to water were noted in electronic format using Panasonic Toughbook® technology (Toughbook®), or similar, and on groundwater field gauging sheets. Quarterly groundwater monitoring well gauging results can be found in **Table 1a**. Weekly and monthly gauging data are collected from a subset of the quarterly program wells to assess the absence or presence of LNAPL. Monthly and weekly gauging results for 4Q15 can be found in **Table 1b**. The groundwater gauging data tables also include well-head PID results.

Low-Flow Groundwater Purging and Sampling

Groundwater samples were collected from groundwater monitoring wells from October 5 through October 19, 2015. Data are included in this report and discussed in **Section 3**.

Groundwater samples were collected via low-flow groundwater purging and sampling procedures. Prior to groundwater monitoring well sampling, the initial water level was measured and recorded in the Toughbook® and on groundwater field data sheets.

Groundwater monitoring wells MW-1 through MW-14, MW-16, MW-22 through MW-28, P-54, P-56 through P-59, P-66, P-74, P-93A, P-93C, P-114R, ROST-3-MW, ROST-4-PZ(C), and T-12 were purged and sampled using a stainless steel submersible pump, low-flow controller, and designated polyethylene tubing[3]. The submersible pump,

[3] All designated tubing is stored in a sealed bag designated for a particular groundwater monitoring well between sampling events.

with the proper length of designated polyethylene tubing, was slowly lowered into the groundwater monitoring well to be sampled and the pump intake was set near the midpoint of the groundwater monitoring well screen.

Groundwater monitoring wells P-93B and P-93D were purged and sampled using dedicated submersible stainless steel QED Well Wizard® sampling pumps and dedicated bonded polyethylene tubing. The dedicated pump intake is positioned near the midpoint of the well screen and the pump is operated using a QED MP50 Micropurge Controller/Compressor.

For both sampling methods, the tubing from the sampling pump was connected to a flow-through cell, which discharged into a 5-gallon plastic container. Pumping was performed at a low flow rate (≤400 mL/minute) to minimize drawdown of the water level within the groundwater monitoring well. During groundwater purging, water quality parameters (pH, temperature, specific conductivity, turbidity, dissolved oxygen (DO), and oxidation-reduction potential (ORP)) were measured and recorded on the groundwater field data sheets after every flow-through cell volume. Purging continued until a minimum of three flow-through cell volumes of water were removed and the groundwater quality parameters stabilized, or a maximum purge time of two hours was reached. The final water quality parameters were recorded in the Toughbook® and on groundwater field data sheets. Once stabilization was achieved or a maximum purge time of 2 hours was reached, the groundwater flow was diverted from the flow-through cell and groundwater samples were collected for volatile organic compound (VOC) and semi-volatile organic compound (SVOC) analysis by TestAmerica Laboratories in Pensacola, FL (TestAmerica)[4].

Perched groundwater monitoring piezometers ROST-5-PZ, ROST-7-PZ, ROST-10-PZ, and ROST-21-PZ in the Village, and P-60-12S and P-60-13S in the WRR, could not be sampled according to the Standard Operating Procedure (SOP), due to slow recharge rates or lack of water. Groundwater monitoring wells P-55R and P-68, located inside the WRR, contained LNAPL and, therefore, were not sampled. Groundwater sampling field parameters can be found in **Tables 2a and 2b**, and groundwater sampling data sheets are included in **Appendix B**.

2.3 Health & Safety, Decontamination, and Investigative Derived Waste

Health & Safety

The quarterly sampling activities were performed in accordance with the project-specific Health and Safety Plan (HASP), dated January 1, 2015 – December 31, 2015 (URS, 2014d).

Prior to beginning site work and at the start of work each day, a daily safety meeting was held. The purpose of this meeting was to discuss the day's planned activities and to address any potential health and safety concerns. As a part of the daily safety meeting, job safety analyses (JSAs) were reviewed to address task specific safety concerns.

AECOM field personnel wore U.S. Environmental Protection Agency (USEPA) modified Level D personal protective equipment (PPE), which included hard hat, steel-toed boots, safety glasses, etc. In addition, work within the WRR was performed wearing flame retardant clothing (FRCs) per WRR requirements (in areas where required).

A PID with a 10.6 electron volt (eV) lamp, combustible gas indicator (CGI), and individual hydrogen sulfide gas detectors (for locations inside WRR) were used during the field activities to monitor air quality. A benzene gas monitor with a 9.8 eV lamp was available during field activities to monitor benzene levels, if necessary. Field instruments were calibrated prior to use each day in accordance with the manufacturer's specifications.

Decontamination

Field personnel and equipment underwent decontamination procedures to ensure the health and safety of those present, to maintain sample integrity, and to minimize cross contamination. Reusable sampling equipment (e.g., groundwater pump) was decontaminated after each sample location by spraying and/or wiping down with isopropyl

[4] AECOM was awarded a contract with Shell Oil Products US, effective October 1, 2015, to provide environmental consulting services. During the procurement process, AECOM obtained proposals for analytical services from several laboratories. TestAmerica Laboratories was selected as AECOM's primary laboratory.

alcohol, then washing with LiquiNox® and distilled water, and finishing with a distilled water rinse. The wash and rinse water are replaced periodically throughout the day, at least at mid-day. Interface probes were decontaminated by wiping down with isopropyl alcohol and LiquiNox® followed by a distilled water rinse. Personnel and small equipment decontamination were performed at the sample locations.

Investigative Derived Waste

Investigative derived waste (IDW), such as purge water and decontamination fluid generated during groundwater sampling activities, was collected, stored, and disposed in accordance with the RCRA and United States Department of Transportation (DOT) regulations. Expendable materials (e.g., disposable sampling equipment such as gloves and tubing) were decontaminated, if necessary, collected in trash bags, and disposed as municipal waste.

Decontamination fluid and purge water from groundwater monitoring wells MW-4, MW-7, MW-8, and MW-25 were initially collected in 5-gallon buckets, then transferred to a 55-gallon steel drum, which was staged at the Public Works Yard (satellite accumulation area), and removed by Heritage Environmental Services, LLC (Heritage) within 48 hours. This material is managed as hazardous waste based on prior characterization and was disposed at the Heritage facility in Indianapolis, Indiana.

Decontamination fluid and purge water from other groundwater monitoring wells in the Village were initially collected in 5-gallon buckets then transferred to 55-gallon steel drums located near the northeastern portion of the former Tannery Property. This material is managed as non-hazardous waste based on prior characterization and was disposed at the Heritage facility in Indianapolis, Indiana.

Decontamination fluid and purge water related to, or generated from, work within the WRR was collected and discharged through the WRR's National Pollutant Discharge Elimination System (NPDES)-permitted Wastewater Treatment Plant (WWTP).

2.4 Groundwater Sample Handling and Laboratory Testing

Samples were collected in pre-preserved laboratory-supplied containers and labeled in the field. Sample information was recorded on a chain of custody (COC) form at the time of collection. The sample identification data (ID) format is "well ID-ROX-date". COCs are included with laboratory analytical reports in **Appendix C**.

Upon collection and labeling, sample containers were immediately placed inside an iced cooler and packed in such a way as to help prevent breakage and maintain sample temperature within 0-6°C without freezing. The samples were then delivered via overnight courier, under the proper COC documentation, to the laboratory for analysis.

Samples were analyzed by TestAmerica for VOCs via USEPA Methods 8260B and 8011, for SVOCs via USEPA Method 8270C, and for Polycyclic Aromatic Hydrocarbons (PAHs) via USEPA Method 8270C Low Level (LL). USEPA Method 8011 was used for select VOCs (1,2-dibromoethane and 1,2-dibromo-3-chloropropane) in order to achieve lower reporting limits specified in the WRR RCRA Part B Permit (IEPA, 2013a). Per direction from IEPA, the Interim Groundwater Monitoring Program concentration limits need to be consistent with those in the Permit.

2.5 Data Quality Review and Data Management

Laboratory data were provided in electronic form and included data qualifiers on the basis of the laboratory's quality control or to indicate sample analysis information. The data were independently reviewed and qualified by AECOM. One hundred percent of the data were subjected to a data quality review (Level III data review). Evaluation of the data followed procedures outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2014). Data qualifiers were also added by AECOM, as appropriate, and are included on **Table 3** and in the laboratory results in **Appendix C**. The results of the data quality review are discussed in **Section 3.2**.

Field data and documentation collected as part of this scope of work became part of the project file. AECOM maintains the files for the site and the database management system.

The following documentation was completed and supplements the COC records:

- Field logbooks;
- Equipment calibration forms;
- Groundwater field gauging sheets;
- Groundwater field data sheets;
- Field sample collection data via electronic Toughbook®; and
- Safety documentation.

3 Groundwater Sampling Results

This section presents the results of the 4Q15 groundwater gauging and sampling event.

3.1 Groundwater Monitoring Well Gauging Results

The comprehensive quarterly groundwater monitoring well gauging for the 4Q15 event was conducted between October 1 and 5, 2015. This groundwater monitoring well gauging was conducted in accordance with the Interim Groundwater Monitoring Program, and the results can be found in **Table 1a**. Groundwater levels in the vicinity of the West Fenceline have risen approximately 2 to 3 feet since 3rd Quarter 2015 (3Q15). Groundwater levels in most wells in the WRR have risen approximately 0.5 to 1.5 feet since 3Q15. Water levels are above the top of the screens in the majority of the wells gauged during the 4Q15 event. Water levels are within the screened intervals for approximately half of the wells along the West Fenceline. The potentiometric surface observed during the 4Q15 groundwater monitoring well gauging (**Figures 3a and 3b**) illustrates groundwater flow toward the WRR groundwater production wells. P66 began operating new groundwater production well W-89 on November 17, 2014. This well is shown on **Figures 3a** and **b**, east of the Public Works Yard. The effect this well has on groundwater elevations can continue to be seen in the 4Q15 gauging event.
Perched groundwater was evaluated in the Village and in the WRR along the West Fenceline during 4Q15. During the 4Q15 event, groundwater was encountered in P-60-13S, ROST-7-PZ, and ROST-21-PZ; and groundwater was not encountered in P-60-12S, ROST-5-PZ, or ROST-10-PZ. P-60-12S has been dry for three consecutive quarters, ROST-5-PZ has been dry for nine consecutive quarters, and ROST-10-PZ has been dry for at least twelve consecutive quarters. The 4Q15 gauging results for perched groundwater monitoring wells and piezometers can be found in **Table 1a**.

During the 4Q15 quarterly groundwater monitoring well gauging event, LNAPL was detected in four Interim Groundwater Monitoring Program groundwater monitoring wells. All of these monitoring wells (P-55R, P-60, P-68, and T-24) are located in the WRR **(Table 1a)**. In these wells, LNAPL thicknesses ranged from 0.01 to 0.12 feet. LNAPL was observed within the screened intervals of P-55R, P-60, and T-24. LNAPL was observed above the screened interval of P-68. During 4Q15 weekly and monthly gauging events, LNAPL was detected in five groundwater monitoring wells. Three of these wells are located in the WRR (P-55R, P-60, and P-68) and two are located in the Village (ROST-4-PZ(D) and ROST-4-PZ(E)). This routine gauging data can be found in **Table 1b** and is summarized below.

Monitoring Well	Range of LNAPL Thickness (feet)	Comments
P-55R	0.01-0.38	Observed in 13 of 14 weeks
P-60	0.05-0.08	Observed in 13 of 14 weeks
P-68	0.04-0.11	Observed in 13 of 14 weeks
ROST-4-PZ(D)	0.01	Observed in 1 of 13 weeks
ROST-4-PZ(E)	0.01	Observed in 1 of 13 weeks

LNAPL observed in groundwater monitoring wells located on the WRR property was removed and placed in a double-walled lube cube, which is staged on WRR North Property, prior to being taken to the WRR oil-water separators for reprocessing. Removal of LNAPL, if observed exceeding the minimum thickness for recovery (0.10 feet) in the Village and WRR, is conducted during quarterly, monthly, and weekly gauging events. **Figures 4a and 4b** illustrate the measured LNAPL thickness observed along the West Fenceline and inside the refinery, respectively, during the 4Q15 gauging event.

3.2 Data Quality Review Results

A total of fifteen sample delivery groups (SDGs) were prepared and sent to TestAmerica for the 4Q15 event. Forty-eight different groundwater sample sets were prepared and analyzed for VOCs and SVOCs (including PAHs). This included forty different investigative sample sets, four field duplicate sets, and two matrix spike/matrix spike duplicate (MS/MSD) sets. SDGs for 4Q15 are presented in **Appendix C**.

Trip blanks (TBs), equipment blanks (EBs), and laboratory method blanks were analyzed to evaluate for the existence and magnitude of any contamination resulting from field and laboratory activities. Four different EB sets were collected for this quarter. A TB set was included in every cooler that contained samples for VOC analysis. A total of fifteen TB sets were analyzed for groundwater VOCs. Laboratory method blanks were analyzed with every analytical batch.

Based on laboratory control sample (LCS), matrix spike/matrix spike duplicate (MS/MSD), surrogate, holding time, and field duplicate criteria, the groundwater analytical results reported were accepted for their intended use. Analytical results qualified by AECOM are specified in the data reviews presented in **Appendix C**.

3.3 Analytical Results and Discussion

Tables 2a and 2b present cumulative information on groundwater sampling field parameters for main aquifer and perched wells, respectively. These results are consistent with those observed in the 3Q15 sampling event. The laboratory analytical results for the groundwater samples collected during this event are presented in **Table 3**.

Analytical detections were compared to the concentration limits as provided in Condition IV(E) of the Permit for the WRB Refining LP Wood River Refinery[5]. These concentration limits include the Groundwater Quality Standards for Class I: Potable Resource Groundwater (35 IAC 620, Subpart D, Section 410) (Part 620), the IEPA Tiered Approach to Corrective Action Objectives (TACO) Tier 1 Groundwater Remediation Objectives for the Groundwater Component of the Groundwater Ingestion Route (35 IAC 742 Appendix B, Table E), and the IEPA Toxicity Assessment Unit (Chemicals not in TACO, Tier 1 Tables). Where screening values were available from multiple sources from the ones mentioned above, screening values from Part 620 were used preferentially over the screening values found in TACO and Chemicals not in TACO sources. All three sources are checked on a quarterly basis to ensure the most current published screening values are being used. The results of this screening comparison are presented in **Table 3**.

Samples from nineteen groundwater monitoring wells in the Interim Groundwater Monitoring Program (eight in the Village, eleven in the WRR along the West Fenceline) exhibited exceedances of the groundwater screening criteria for one or more of the following constituents:

- Benzene
- Naphthalene
- 1,3,5-Trimethylbenzene
- Phenol
- Ethylbenzene
- Toluene
- bis(2-Ethylhexyl)phthalate

Figure 5 presents concentrations of analytes that exceeded the indicated screening criteria for 4Q15. **Figure 6** presents a plan view depiction of benzene analytical results in groundwater across the site. **Figure 7** presents a cross-section along Chaffer Street with a vertical distribution of the benzene concentrations in groundwater superimposed. **Figure 8** presents a cross-section across the Roxana Public Works Yard with a vertical distribution of the benzene analytical results in groundwater superimposed.

AECOM conducted the 4Q15 Interim Groundwater Monitoring Program, and the following conclusions are based on the data and information collected as part of this program:

[5] IEPA requested that the Interim Groundwater Monitoring Program be consistent with the RCRA Part B Permit.

- During 4Q15, groundwater level data indicates groundwater flow from the Investigation Area is moving toward groundwater production wells at the WRR. Groundwater levels observed in the vicinity of the West Fenceline were approximately 2 to 3 feet higher than in the previous quarter. Groundwater levels observed in most monitoring wells in the WRR were approximately 0.5 to 1.5 feet higher than in the previous quarter.
- Perched groundwater was evaluated at groundwater monitoring wells P-60-12S, P-60-13S, ROST-5-PZ, ROST-7-PZ, ROST-10-PZ, and ROST-21-PZ. During the evaluation, groundwater sampling could not be performed per the SOP due to slow recharge or lack of water.
- The analytical results from 4Q15 are generally similar to those from previous quarters.

3.4 Limitations

SOPUS shall have the right to make and retain copies of and use all Work Product provided. However, such use shall be limited to the particular Site and project for which the Work Product is provided. SOPUS and its agents may release the Work Product to third parties at its sole risk and discretion. This report is based on data, site conditions, and other information that is generally applicable as of the date of this report, and the conclusions and recommendations herein are therefore applicable only to that time frame and to the report in its entirety.

Historic data has been furnished to AECOM by SOPUS or SOPUS' contractors, which AECOM has used in preparing this report. AECOM has relied on this information as furnished, and is neither responsible for, nor has confirmed the accuracy of this information.

4 References

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Tables

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	WELL HEAD PID[3] (ppm)	COMMENTS
MW-01											
1Q13	442.65	1/3/2013	NE	41.95	NA	NA	NA	400.70	393.85 - 383.85 (48.80 - 58.80)	0.0	*
2Q13		4/1/2013	NE	42.63	NA	NA	NA	400.02		54.0	*
3Q13		7/1/2013	NE	39.80	NA	NA	NA	402.85		8.7	*
4Q13		10/1/2013	NE	40.23	NA	NA	NA	402.42		0.0	*
1Q14		2/10/2014	NE	42.77	NA	NA	NA	399.88		5.8	*
2Q14		4/1/2014	NE	43.17	NA	NA	NA	399.48		18.9	*
3Q14		7/1/2014	NE	42.22	NA	NA	NA	400.43		1.3	*
4Q14		10/1/2014	NE	41.11	NA	NA	NA	401.54		0.0	*
1Q15		1/6/2015	NE	42.64	NA	NA	NA	400.01		43.9	*
2Q15		4/2/2015	NM	44.11	NA	NA	NA	398.54		0.0	*
3Q15		7/6/2015	NE	43.39	NA	NA	NA	399.26		0.0	*
4Q15		10/1/2015	NE	40.92	NA	NA	NA	401.73		0.1	*
MW-02											
1Q13	443.77	1/3/2013	NE	43.10	NA	NA	NA	400.67	393.90 - 383.90 (49.87 - 59.87)	54.7	*
2Q13		4/1/2013	NE	43.81	NA	NA	NA	399.96		232.0	*
3Q13		7/1/2013	NE	41.15	NA	NA	NA	402.62		208.0	*
4Q13		10/1/2013	NE	41.56	NA	NA	NA	402.21		109.7	*
1Q14		2/10/2014	NE	44.00	NA	NA	NA	399.77		98.7	*
2Q14		4/1/2014	NE	44.45	NA	NA	NA	399.32		50.0	*
3Q14		7/1/2014	NE	43.45	NA	NA	NA	400.32		119.0	*
4Q14		10/1/2014	NE	42.37	NA	NA	NA	401.40		130.1	*
1Q15		1/6/2015	NE	44.05	NA	NA	NA	399.72		91.1	*
2Q15		4/2/2015	NE	45.45	NA	NA	NA	398.32		147.3	*
3Q15		7/6/2015	NE	44.85	NA	NA	NA	398.92		124.0	*
4Q15		10/1/2015	NE	42.31	NA	NA	NA	401.46		12.3	*
MW-03											
1Q13	430.08	1/3/2013	NE	29.22	NA	NA	NA	400.86	395.41 - 385.41 (34.67 - 44.67)	0.0	*
2Q13		4/1/2013	NE	29.88	NA	NA	NA	400.20		3.5	*
3Q13		7/1/2013	NE	26.65	NA	NA	NA	403.43		0.4	*
4Q13		10/2/2013	NE	27.21	NA	NA	NA	402.87		0.0	*
1Q14		2/10/2014	NE	29.91	NA	NA	NA	400.17		2.5	*
2Q14		4/1/2014	NE	30.30	NA	NA	NA	399.78		0.3	*
3Q14		7/1/2014	NE	29.26	NA	NA	NA	400.82		1.2	*
4Q14		10/1/2014	NE	28.14	NA	NA	NA	401.94		0.0	*
1Q15		1/6/2015	NE	29.57	NA	NA	NA	400.51		3.6	*
2Q15		4/2/2015	NE	31.16	NA	NA	NA	398.92		0.2	*
3Q15		7/6/2015	NE	30.15	NA	NA	NA	399.93		0.0	*
4Q15		10/1/2015	NE	27.88	NA	NA	NA	402.20		0.2	*
MW-04											
1Q13	441.14	1/3/2013	NE	40.27	NA	NA	NA	400.87	395.08 - 385.08 (46.06 - 56.06)	35.3	*
2Q13		4/1/2013	NE	41.00	NA	NA	NA	400.14		104.0	*
3Q13		7/1/2013	NE	38.07	NA	NA	NA	403.07		131.6	*
4Q13		10/2/2013	NE	38.49	NA	NA	NA	402.65		39.4	*
1Q14		2/10/2014	NE	41.09	NA	NA	NA	400.05		52.3	*
2Q14		4/1/2014	NE	41.52	NA	NA	NA	399.62		75.0	*
3Q14		7/1/2014	NE	40.50	NA	NA	NA	400.64		97.2	*
4Q14		10/1/2014	NE	39.44	NA	NA	NA	401.70		27.4	*
1Q15		1/6/2015	NE	41.01	NA	NA	NA	400.13		69.0	*
2Q15		4/2/2015	NE	42.58	NA	NA	NA	398.56	396.08 - 386.08 (45.06 - 55.06)	12.5	*
3Q15		7/6/2015	NE	41.25	NA	NA	NA	399.89		56.1	*
4Q15		10/1/2015	NE	39.28	NA	NA	NA	401.86		11.5	*
MW-05											
1Q13	429.80	1/3/2013	NE	28.86	NA	NA	NA	400.94	395.83 - 385.83 (33.97 - 43.97)	0.0	*
2Q13		4/1/2013	NE	29.53	NA	NA	NA	400.27		0.1	*
3Q13		7/1/2013	NE	26.37	NA	NA	NA	403.43		1.0	*
4Q13		10/2/2013	NE	26.85	NA	NA	NA	402.95		0.0	*
1Q14		2/10/2014	NE	29.59	NA	NA	NA	400.21		1.4	*
2Q14		4/1/2014	NE	29.96	NA	NA	NA	399.84		0.0	*
3Q14		7/2/2014	NE	28.93	NA	NA	NA	400.87		0.3	*
4Q14		10/2/2014	NE	27.74	NA	NA	NA	402.06		0.0	*
1Q15		1/6/2015	NE	29.34	NA	NA	NA	400.46		0.5	*
2Q15		4/2/2015	NE	30.91	NA	NA	NA	398.89		0.0	*
3Q15		7/6/2015	NE	28.88	NA	NA	NA	400.92		0.3	*
4Q15		10/1/2015	NE	27.61	NA	NA	NA	402.19		0.4	*
MW-06A											
1Q13	432.14	1/3/2013	NE	30.80	NA	NA	NA	401.34	397.31 - 387.31 (34.83 - 44.83)	0.0	*
2Q13		4/1/2013	NE	31.57	NA	NA	NA	400.57		0.1	*
3Q13		7/1/2013	NE	28.48	NA	NA	NA	403.66		0.6	*
4Q13		10/2/2013	NE	28.75	NA	NA	NA	403.39		0.0	*
1Q14		2/10/2014	NE	31.62	NA	NA	NA	400.52		2.3	*
2Q14		4/1/2014	NE	32.03	NA	NA	NA	400.11		10.4	*
3Q14		7/1/2014	NE	30.90	NA	NA	NA	401.24		1.4	*
4Q14		10/2/2014	NE	29.74	NA	NA	NA	402.40		0.0	*
1Q15		1/6/2015	NE	31.48	NA	NA	NA	400.66		0.3	*
2Q15		4/2/2015	NE	33.05	NA	NA	NA	399.09		0.0	*
3Q15		7/6/2015	NE	31.98	NA	NA	NA	400.16		0.1	*
4Q15		10/1/2015	NE	29.72	NA	NA	NA	402.42		0.1	*

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	WELL HEAD PID[3] (ppm)	COMMENTS
MW-06B											
1Q13	432.29	1/3/2013	NE	30.87	NA	NA	NA	401.42	368.24 - 363.24 (64.05 - 69.05)	0.0	*
2Q13		4/1/2013	NE	31.63	NA	NA	NA	400.66		2.7	*
3Q13		7/1/2013	NE	28.53	NA	NA	NA	403.76		0.0	*
4Q13		10/2/2013	NE	28.80	NA	NA	NA	403.49		0.5	*
1Q14		2/10/2014	NE	31.67	NA	NA	NA	400.62		6.0	*
2Q14		4/1/2014	NE	32.10	NA	NA	NA	400.19		4.8	*
3Q14		7/1/2014	NE	30.93	NA	NA	NA	401.36		2.1	*
4Q14		10/2/2014	NE	29.78	NA	NA	NA	402.51		0.0	*
1Q15		1/6/2015	NE	31.52	NA	NA	NA	400.77		5.6	*
2Q15		4/2/2015	NE	33.10	NA	NA	NA	399.19		29.1	*
3Q15		7/6/2015	NE	32.01	NA	NA	NA	400.28		0.2	*
4Q15		10/1/2015	NE	29.76	NA	NA	NA	402.53		0.4	*
MW-06C											
1Q13	432.11	1/3/2013	NE	30.65	NA	NA	NA	401.46	347.16 - 342.16 (84.95 - 89.95)	0.0	*
2Q13		4/1/2013	NE	31.40	NA	NA	NA	400.71		1.1	*
3Q13		7/1/2013	NE	28.32	NA	NA	NA	403.79		0.2	*
4Q13		10/2/2013	NE	28.58	NA	NA	NA	403.53		0.0	*
1Q14		2/10/2014	NE	31.48	NA	NA	NA	400.63		3.8	*
2Q14		4/1/2014	NE	31.89	NA	NA	NA	400.22		2.5	*
3Q14		7/1/2014	NE	30.74	NA	NA	NA	401.37		2.1	*
4Q14		10/2/2014	NE	29.58	NA	NA	NA	402.53		0.0	*
1Q15		1/6/2015	NE	31.31	NA	NA	NA	400.80		42.0	*
2Q15		4/2/2015	NE	32.89	NA	NA	NA	399.22		0.0	*
3Q15		7/6/2015	NE	31.79	NA	NA	NA	400.32		0.0	*
4Q15		10/1/2015	NE	29.55	NA	NA	NA	402.56		2.3	*
MW-06D											
1Q13	431.99	1/3/2013	NE	30.51	NA	NA	NA	401.48	327.27 - 322.27 (104.72 - 109.72)	0.0	*
2Q13		4/1/2013	NE	31.26	NA	NA	NA	400.73		4.2	*
3Q13		7/1/2013	NE	28.17	NA	NA	NA	403.82		0.7	*
4Q13		10/2/2013	NE	28.45	NA	NA	NA	403.54		0.0	*
1Q14		2/10/2014	NE	31.33	NA	NA	NA	400.66		1.3	*
2Q14		4/1/2014	NE	31.73	NA	NA	NA	400.26		1.6	*
3Q14		7/1/2014	NE	30.58	NA	NA	NA	401.41		13.3	*
4Q14		10/2/2014	NE	29.43	NA	NA	NA	402.56		0.0	*
1Q15		1/6/2015	NE	31.16	NA	NA	NA	400.83		5.9	*
2Q15		4/2/2015	NE	32.74	NA	NA	NA	399.25		43.0	*
3Q15		7/6/2015	NE	31.83	NA	NA	NA	400.16		0.1	*
4Q15		10/1/2015	NE	29.40	NA	NA	NA	402.59		0.7	*
MW-07											
1Q13	443.10	1/3/2013	NE	42.10	NA	NA	NA	401.00	400.18 - 390.18 (42.92 - 52.92)	0.0	*
2Q13		4/1/2013	NE	42.90	NA	NA	NA	400.20		0.0	*
3Q13		7/1/2013	NE	40.08	NA	NA	NA	403.02		357.0	*
4Q13		10/2/2013	NE	40.33	NA	NA	NA	402.77		OVR	*
1Q14		2/10/2014	NE	42.94	NA	NA	NA	400.16		720.3	
2Q14		4/3/2014	NE	43.41	NA	NA	NA	399.69		6.2	
3Q14		7/1/2014	NE	42.39	NA	NA	NA	400.71		170.1	*
4Q14		10/1/2014	NE	41.32	NA	NA	NA	401.78		4259	*
1Q15		1/6/2015	NE	43.18	NA	NA	NA	399.92		9.7	
2Q15		4/2/2015	NE	44.68	NA	NA	NA	398.42		0.0	
3Q15		7/6/2015	NE	43.90	NA	NA	NA	399.20		0.0	
4Q15		10/1/2015	NE	41.35	NA	NA	NA	401.75		384.0	*
MW-08											
1Q13	434.11	1/3/2013	NE	33.21	NA	NA	NA	400.90	400.51 - 390.51 (33.60 - 43.60)	11.2	*
2Q13		4/1/2013	NE	33.94	NA	NA	NA	400.17		0.2	
3Q13		7/1/2013	NE	30.90	NA	NA	NA	403.21		883.0	*
4Q13		10/2/2013	NE	31.26	NA	NA	NA	402.85		684.6	*
1Q14		2/10/2014	NE	34.02	NA	NA	NA	400.09		7.2	
2Q14		4/3/2014	NE	34.36	NA	NA	NA	399.75		2.8	
3Q14		7/2/2014	NE	33.35	NA	NA	NA	400.76		13.2	*
4Q14		10/2/2014	NE	32.19	NA	NA	NA	401.92		102.7	*
1Q15		1/6/2015	NE	33.91	NA	NA	NA	400.20		101.0	
2Q15		4/2/2015	NE	35.46	NA	NA	NA	398.65		0.0	
3Q15		7/7/2015	NE	34.51	NA	NA	NA	399.60		0.0	
4Q15		10/1/2015	NE	32.15	NA	NA	NA	401.96		663.0	*
MW-09											
1Q13	445.20	1/2/2013	NE	43.92	NA	NA	NA	401.28	398.75 - 388.75 (46.45 - 56.45)	0.0	*
2Q13		4/1/2013	NE	44.76	NA	NA	NA	400.44		0.8	*
3Q13		7/1/2013	NE	42.35	NA	NA	NA	402.85		0.8	*
4Q13		10/1/2013	NE	42.29	NA	NA	NA	402.91		0.0	*
1Q14		2/10/2014	NE	44.47	NA	NA	NA	400.73		0.6	*
2Q14		4/1/2014	NE	44.95	NA	NA	NA	400.25		1.7	*
3Q14		7/1/2014	NE	44.49	NA	NA	NA	400.71		0.0	*
4Q14		10/1/2014	NE	43.54	NA	NA	NA	401.66		0.3	*
1Q15		1/5/2015	NE	44.16	NA	NA	NA	401.04		12.8	*
2Q15		4/2/2015	NE	45.45	NA	NA	NA	399.75		0.0	*
3Q15		7/6/2015	NE	44.83	NA	NA	NA	400.37		0.0	*
4Q15		10/1/2015	NE	42.75	NA	NA	NA	402.45		0.6	*

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	WELL HEAD PID[3] (ppm)	COMMENTS
MW-10											
1Q13	445.03	1/2/2013	NE	43.81	NA	NA	NA	401.22	400.60 - 390.60 (44.43 - 54.43)	0.0	*
2Q13		4/1/2013	NE	44.72	NA	NA	NA	400.31		0.0	
3Q13		7/1/2013	NE	42.55	NA	NA	NA	402.48		13.4	*
4Q13		10/1/2013	NE	42.45	NA	NA	NA	402.58		0.0	*
1Q14		2/10/2014	NE	44.42	NA	NA	NA	400.61		0.4	*
2Q14		4/1/2014	NE	44.99	NA	NA	NA	400.04		177.6	
3Q14		7/1/2014	NE	44.55	NA	NA	NA	400.48		0.0	
4Q14		10/1/2014	NE	43.65	NA	NA	NA	401.38		0.2	*
1Q15		1/5/2015	NE	44.19	NA	NA	NA	400.84		0.0	*
2Q15		4/2/2015	NE	45.38	NA	NA	NA	399.65		0.0	
3Q15		7/6/2015	NE	44.92	NA	NA	NA	400.11		169.6	
4Q15		10/1/2015	NE	42.85	NA	NA	NA	402.18		0.6	*
MW-11											
1Q13	442.33	1/2/2013	NE	41.49	NA	NA	NA	400.84	400.67 - 390.67 (41.66 - 51.66)	0.0	*
2Q13		4/1/2013	NE	42.18	NA	NA	NA	400.15		2.3	
3Q13		7/1/2013	NE	39.49	NA	NA	NA	402.84		0.3	*
4Q13		10/1/2013	NE	39.84	NA	NA	NA	402.49		0.0	*
1Q14		2/10/2014	NE	42.16	NA	NA	NA	400.17		0.3	
2Q14		4/1/2014	NE	42.55	NA	NA	NA	399.78		0.0	
3Q14		7/1/2014	NE	41.92	NA	NA	NA	400.41		0.0	
4Q14		10/1/2014	NE	39.93	NA	NA	NA	402.40		0.0	*
1Q15		1/5/2015	NE	41.72	NA	NA	NA	400.61		2.0	
2Q15		4/2/2015	NE	43.16	NA	NA	NA	399.17		0.0	
3Q15		7/6/2015	NE	42.52	NA	NA	NA	399.81		0.0	
4Q15		10/1/2015	NE	40.26	NA	NA	NA	402.07		0.2	*
MW-12											
1Q13	442.60	1/3/2013	NE	41.86	NA	NA	NA	400.74	400.68 - 390.68 (41.92 - 51.92)	0.0	*
2Q13		4/1/2013	NE	42.46	NA	NA	NA	400.14		0.0	
3Q13		7/1/2013	NE	39.57	NA	NA	NA	403.03		1.2	*
4Q13		10/1/2013	NE	40.05	NA	NA	NA	402.55		0.0	*
1Q14		2/10/2014	NE	42.54	NA	NA	NA	400.06		1.5	
2Q14		4/2/2014	NE	42.97	NA	NA	NA	399.63		0.7	
3Q14		7/1/2014	NE	42.10	NA	NA	NA	400.50		1.1	
4Q14		10/1/2014	NE	41.02	NA	NA	NA	401.58		0.0	*
1Q15		1/5/2015	NE	42.13	NA	NA	NA	400.47		33.2	
2Q15		4/2/2015	NE	43.71	NA	NA	NA	398.89		0.2	
3Q15		7/6/2015	NE	42.92	NA	NA	NA	399.68		0.0	
4Q15		10/1/2015	NE	40.60	NA	NA	NA	402.00		0.1	*
MW-13											
1Q13	430.27	1/7/2013	NE	29.07	NA	NA	NA	401.20	404.70 - 394.70 (25.57 - 35.57)	24.0	
2Q13		4/2/2013	NE	29.62	NA	NA	NA	400.65		0.0	
3Q13		7/2/2013	NE	25.97	NA	NA	NA	404.30		2.9	
4Q13		10/2/2013	NE	26.69	NA	NA	NA	403.58		54.8	
1Q14		2/11/2014	NE	29.63	NA	NA	NA	400.64		10.1	
2Q14		4/4/2014	NE	30.11	NA	NA	NA	400.16		0.2	
3Q14		7/2/2014	NE	28.72	NA	NA	NA	401.55		1.1	
4Q14		10/3/2014	NE	27.66	NA	NA	NA	402.61		0.4	
1Q15		1/12/2015	NE	29.23	NA	NA	NA	401.04		0.0	
2Q15		4/3/2015	NE	30.83	NA	NA	NA	399.44		1.7	
3Q15		7/8/2015	NE	29.16	NA	NA	NA	401.11		254.3	
4Q15		10/2/2015	NE	27.36	NA	NA	NA	402.91		90.2	
MW-14											
1Q13	434.44	1/7/2013	NE	32.71	NA	NA	NA	401.73	401.02 - 391.02 (33.42 - 43.42)	26.0	*
2Q13		4/2/2013	NE	33.68	NA	NA	NA	400.76		44.3	
3Q13		7/2/2013	NE	30.69	NA	NA	NA	403.75		7.4	*
4Q13		10/2/2013	NE	30.58	NA	NA	NA	403.86		20.5	*
1Q14		2/11/2014	NE	33.67	NA	NA	NA	400.77		45.1	
2Q14		4/4/2014	NE	34.21	NA	NA	NA	400.23		50.2	
3Q14		7/2/2014	NE	33.03	NA	NA	NA	401.41		52.0	*
4Q14		10/3/2014	NE	31.93	NA	NA	NA	402.51		83.3	*
1Q15		1/9/2015	NE	33.64	NA	NA	NA	400.80		41.8	
2Q15		4/3/2015	NE	35.20	NA	NA	NA	399.24		78.2	
3Q15		7/7/2015	NE	34.11	NA	NA	NA	400.33		207.7	
4Q15		10/2/2015	NE	31.88	NA	NA	NA	402.56		42.4	*
MW-16											
1Q13	443.39	1/23/2013	NE	43.05	NA	NA	NA	400.34	406.33 - 396.33 (37.06 - 47.06)	0.0	Installed during 4Q12
2Q13		4/1/2013	NE	43.55	NA	NA	NA	399.84		0.0	
3Q13		7/1/2013	NE	40.86	NA	NA	NA	402.53		0.0	
4Q13		10/1/2013	NE	41.43	NA	NA	NA	401.96		0.0	
1Q14		2/10/2014	NE	43.76	NA	NA	NA	399.63		0.5	
2Q14		4/1/2014	NE	44.19	NA	NA	NA	399.20		0.6	
3Q14		7/1/2014	NE	43.45	NA	NA	NA	399.94		0.0	
4Q14		10/1/2014	NE	42.35	NA	NA	NA	401.04		0.0	
1Q15		1/5/2015	NE	43.45	NA	NA	NA	399.94		0.0	
2Q15		4/2/2015	NE	44.93	NA	NA	NA	398.46		0.0	
3Q15		7/6/2015	NE	44.31	NA	NA	NA	399.08		0.0	
4Q15		10/1/2015	NE	41.89	NA	NA	NA	401.50		0.1	

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	WELL HEAD PID[3] (ppm)	COMMENTS
MW-17											
1Q13	441.57	2/11/2013	NE	41.75	NA	NA	NA	399.82	407.28 - 392.28 (34.29 - 49.29)	0.2	Installed during 4Q12
2Q13		4/1/2013	NE	41.85	NA	NA	NA	399.72		0.5	
3Q13		7/1/2013	NE	39.42	NA	NA	NA	402.15		0.0	
4Q13		10/1/2013	NE	40.18	NA	NA	NA	401.39		0.0	
1Q14		2/10/2014	NE	42.25	NA	NA	NA	399.32		0.0	
2Q14		4/3/2014	NE	42.76	NA	NA	NA	398.81		2.1	
3Q14		7/1/2014	NE	41.92	NA	NA	NA	399.65		0.0	
4Q14		10/1/2014	NE	41.07	NA	NA	NA	400.50		0.0	
1Q15		1/5/2015	NE	41.86	NA	NA	NA	399.71		1.9	
2Q15		4/2/2015	NE	43.20	NA	NA	NA	398.37		0.0	
3Q15		7/6/2015	NE	42.73	NA	NA	NA	398.84		0.0	
4Q15		10/1/2015	NE	40.33	NA	NA	NA	401.24		0.1	
MW-18											
1Q13	442.04	2/11/2013	NE	42.25	NA	NA	NA	399.79	407.12 - 392.12 (34.92 - 49.92)	0.0	Installed during 4Q12
2Q13		4/1/2013	NE	42.38	NA	NA	NA	399.66		0.0	
3Q13		7/1/2013	NE	39.89	NA	NA	NA	402.15		0.0	
4Q13		10/1/2013	NE	40.85	NA	NA	NA	401.19		0.0	
1Q14		2/11/2014	NE	42.85	NA	NA	NA	399.19		0.0	
2Q14		4/1/2014	NE	43.41	NA	NA	NA	398.63		0.0	
3Q14		7/1/2014	NE	42.49	NA	NA	NA	399.55		0.9	
4Q14		10/1/2014	NE	41.67	NA	NA	NA	400.37		0.0	
1Q15		1/5/2015	NE	42.55	NA	NA	NA	399.49		0.3	
2Q15		4/2/2015	NE	44.53	NA	NA	NA	397.51		0.0	
3Q15		7/6/2015	NE	43.44	NA	NA	NA	398.60		0.0	
4Q15		10/1/2015	NE	40.97	NA	NA	NA	401.07		0.1	
MW-19											
1Q13	442.77	2/11/2013	NE	42.88	NA	NA	NA	399.89	406.43 - 391.43 (36.34 - 51.34)	0.9	Installed during 4Q12
2Q13		4/1/2013	NE	43.04	NA	NA	NA	399.73		10.3	
3Q13		7/1/2013	NE	40.50	NA	NA	NA	402.27		0.0	
4Q13		10/2/2013	NE	41.24	NA	NA	NA	401.53		0.0	
1Q14		2/10/2014	NE	43.41	NA	NA	NA	399.36		0.9	
2Q14		4/1/2014	NE	43.92	NA	NA	NA	398.85		0.0	
3Q14		7/1/2014	NE	42.92	NA	NA	NA	399.85		0.6	
4Q14		10/1/2014	NE	42.02	NA	NA	NA	400.75		0.0	
1Q15		1/5/2015	NE	43.13	NA	NA	NA	399.64		0.0	
2Q15		4/2/2015	NE	43.94	NA	NA	NA	398.83		0.0	
3Q15		7/6/2015	NE	43.99	NA	NA	NA	398.78		0.0	
4Q15		10/1/2015	NE	41.48	NA	NA	NA	401.29		0.2	
MW-20											
1Q13	443.67	2/11/2013	NE	43.66	NA	NA	NA	400.01	407.79 - 392.79 (35.88 - 50.88)	0.0	Installed during 4Q12
2Q13		4/1/2013	NE	43.89	NA	NA	NA	399.78		0.1	
3Q13		7/1/2013	NE	41.23	NA	NA	NA	402.44		0.0	
4Q13		10/1/2013	NE	41.77	NA	NA	NA	401.90		0.0	
1Q14		2/10/2014	NE	44.09	NA	NA	NA	399.58		1.4	
2Q14		4/2/2014	NE	44.65	NA	NA	NA	399.02		0.0	
3Q14		7/1/2014	NE	43.64	NA	NA	NA	400.03		1.3	
4Q14		10/1/2014	NE	42.63	NA	NA	NA	401.04		0.0	
1Q15		1/5/2015	NE	43.93	NA	NA	NA	399.74		0.0	
2Q15		4/2/2015	NE	45.39	NA	NA	NA	398.28		0.0	
3Q15		7/6/2015	NE	44.83	NA	NA	NA	398.84		0.0	
4Q15		10/1/2015	NE	42.33	NA	NA	NA	401.34		0.2	
MW-21											
1Q13	443.81	2/11/2013	NE	43.53	NA	NA	NA	400.28	408.80 - 393.80 (35.01 - 50.01)	0.1	Installed during 4Q12
2Q13		4/1/2013	NE	43.79	NA	NA	NA	400.02		0.3	
3Q13		7/1/2013	NE	41.05	NA	NA	NA	402.76		0.0	
4Q13		10/2/2013	NE	41.40	NA	NA	NA	402.41		0.0	
1Q14		2/10/2014	NE	43.91	NA	NA	NA	399.90		32.5	
2Q14		4/3/2014	NE	44.38	NA	NA	NA	399.43		1.8	
3Q14		7/2/2014	NE	43.38	NA	NA	NA	400.43		0.0	
4Q14		10/1/2014	NE	42.28	NA	NA	NA	401.53		0.0	
1Q15		1/6/2015	NE	44.15	NA	NA	NA	399.66		13.8	
2Q15		4/2/2015	NE	45.58	NA	NA	NA	398.23		0.0	
3Q15		7/6/2015	NE	44.96	NA	NA	NA	398.85		0.0	
4Q15		10/1/2015	NE	42.33	NA	NA	NA	401.48		0.1	
MW-22											
1Q13	442.16	1/23/2013	NE	41.80	NA	NA	NA	400.36	404.28 - 394.28 (37.88 - 47.88)	2.0	Installed during 4Q12
2Q13		4/1/2013	NE	42.31	NA	NA	NA	399.85		2.8	
3Q13		7/5/2013	NE	39.60	NA	NA	NA	402.56		0.6	
4Q13		10/1/2013	NE	40.23	NA	NA	NA	401.93		0.0	
1Q14		2/10/2014	NE	42.49	NA	NA	NA	399.67		0.3	
2Q14		4/3/2014	NE	42.90	NA	NA	NA	399.26		0.2	
3Q14		7/1/2014	NE	42.18	NA	NA	NA	399.98		0.1	
4Q14		10/1/2014	NE	41.20	NA	NA	NA	400.96		0.0	
1Q15		1/6/2015	NE	42.13	NA	NA	NA	400.03		0.0	
2Q15		4/2/2015	NE	43.53	NA	NA	NA	398.63		0.2	
3Q15		7/6/2015	NE	42.94	NA	NA	NA	399.22		0.0	
4Q15		10/1/2015	NE	40.56	NA	NA	NA	401.60		0.1	

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	WELL HEAD PID[3] (ppm)	COMMENTS
MW-23											
2Q15	431.41	4/2/2015	NE	32.21	NA	NA	NA	399.20	402.39 - 392.39 (29.02 - 39.02)	0.0	Installed during 1Q15
3Q15		7/7/2015	NE	30.74	NA	NA	NA	400.67		8.3	
4Q15		10/1/2015	NE	28.80	NA	NA	NA	402.61		0.5	*
MW-24											
2Q13	443.42	4/1/2013	NE	43.44	NA	NA	NA	399.98	404.53 - 394.53 (38.89 - 48.89)	0.5	Installed during 1Q13
3Q13		7/3/2013	NE	40.59	NA	NA	NA	402.83		0.0	
4Q13		10/1/2013	NE	41.08	NA	NA	NA	402.34		134.4	
1Q14		2/10/2014	NE	43.47	NA	NA	NA	399.95		14.2	
2Q14		4/1/2014	NE	43.86	NA	NA	NA	399.56		4.9	
3Q14		7/1/2014	NE	43.15	NA	NA	NA	400.27		0.0	
4Q14		10/1/2014	NE	42.13	NA	NA	NA	401.29		13.8	
1Q15		1/5/2015	NE	43.00	NA	NA	NA	400.42		120.0	
2Q15		4/2/2015	NE	44.50	NA	NA	NA	398.92		0.3	
3Q15		7/6/2015	NE	43.76	NA	NA	NA	399.66		1.2	
4Q15		10/1/2015	NE	41.52	NA	NA	NA	401.90		0.1	
MW-25											
4Q14	438.35	10/1/2014	NE	36.50	NA	NA	NA	401.85	402.76 - 392.76 (35.59 - 45.59)	0.0	Installed during 3Q14
1Q15		1/6/2015	NE	38.16	NA	NA	NA	400.19		1.3	
2Q15		4/2/2015	NE	39.69	NA	NA	NA	398.66		1.2	
3Q15		7/6/2015	NE	38.84	NA	NA	NA	399.51		0.1	
4Q15		10/1/2015	NE	36.39	NA	NA	NA	401.96		0.5	
MW-26											
4Q14	441.02	10/2/2014	NE	39.41	NA	NA	NA	401.61	402.87 - 392.87 (38.15 - 48.15)	8.2	Installed during 3Q14
1Q15		1/6/2015	NE	40.99	NA	NA	NA	400.03		0.0	
2Q15		4/2/2015	NE	42.48	NA	NA	NA	398.54		22.9	
3Q15		7/6/2015	NE	41.77	NA	NA	NA	399.25		0.8	
4Q15		10/1/2015	NE	39.25	NA	NA	NA	401.77		0.6	
MW-27											
1Q15	443.40	1/5/2015	NE	41.95	NA	NA	NA	401.45	403.61 - 393.61 (39.79 - 49.79)	0.0	Installed during 4Q14
2Q15		4/2/2015	NE	43.28	NA	NA	NA	400.12		10.9	
3Q15		7/6/2015	NE	43.07	NA	NA	NA	400.33		0.0	
4Q15		10/1/2015	NE	40.50	NA	NA	NA	402.90		0.6	
MW-28											
4Q14	443.34	10/1/2014	NE	41.10	NA	NA	NA	402.24	409.73 - 399.73 (33.61 - 43.61)	0.0	Installed during 3Q14
1Q15		1/5/2015	NE	41.05	NA	NA	NA	402.29		0.0	
2Q15		4/2/2015	NE	42.12	NA	NA	NA	401.22		0.0	
3Q15		7/7/2015	NE	42.39	NA	NA	NA	400.95		0.0	
4Q15		10/1/2015	NE	40.23	NA	NA	NA	403.11		0.6	
P-01											
1Q13	442.56	1/3/2013	NE	33.96	NA	NA	NA	408.60	380.61 - 375.61 (61.95 - 66.95)	0.0	*
2Q13		4/1/2013	NE	33.68	NA	NA	NA	408.88		0.4	*
3Q13		7/3/2013	NE	30.60	NA	NA	NA	411.96		0.0	*
4Q13		10/1/2013	NE	33.13	NA	NA	NA	409.43		0.6	*
1Q14		2/12/2014	NE	35.21	NA	NA	NA	407.35		0.1	*
2Q14		4/2/2014	NE	35.61	NA	NA	NA	406.95		0.0	*
3Q14		7/3/2014	NE	34.33	NA	NA	NA	408.23		0.2	*
4Q14		10/1/2014	NE	33.96	NA	NA	NA	408.60		0.0	*
1Q15	442.73	1/5/2015	NM	NM	NA	NA	NA	NA	380.78 - 375.78 (61.95 - 66.95)	NM	Unsafe condition
2Q15		4/6/2015	NE	34.46	NA	NA	NA	408.27		0.2	*
3Q15		7/6/2015	NE	31.98	NA	NA	NA	410.75		0.1	*
4Q15		10/1/2015	NE	32.22	NA	NA	NA	410.51		0.0	*
P-4U											
1Q13	442.50	1/3/2013	NE	35.10	NA	NA	NA	407.40	361.35 - 359.35 (81.15 - 83.15)	0.0	*
2Q13		4/1/2013	NE	35.95	NA	NA	NA	406.55		0.5	*
3Q13		7/3/2013	NE	32.80	NA	NA	NA	409.70		0.0	*
4Q13		10/1/2013	NE	34.72	NA	NA	NA	407.78		0.2	*
1Q14		2/12/2014	NE	36.76	NA	NA	NA	405.74		51.0	*
2Q14		4/4/2014	NE	39.91	NA	NA	NA	402.59		0.2	*
3Q14		7/3/2014	NE	36.64	NA	NA	NA	405.86		0.0	*
4Q14		10/1/2014	NE	36.22	NA	NA	NA	406.28		0.0	*
1Q15	442.54	1/5/2015	NE	36.01	NA	NA	NA	406.53	361.39 - 359.39 (81.15 - 83.15)	0.0	*
2Q15		4/6/2015	NE	35.88	NA	NA	NA	406.66		0.4	*
3Q15		7/6/2015	NE	34.58	NA	NA	NA	407.96		0.2	*
4Q15		10/1/2015	NE	33.65	NA	NA	NA	408.89		0.0	*
P-5L											
1Q13	443.79	1/3/2013	NE	35.17	NA	NA	NA	408.62	303.39 - 301.39 (140.40 - 142.40)	0.0	*
2Q13		4/1/2013	NE	35.84	NA	NA	NA	407.95		0.0	*
3Q13		7/3/2013	NE	31.51	NA	NA	NA	412.28		0.0	*
4Q13		10/1/2013	NE	34.35	NA	NA	NA	409.44		0.4	*
1Q14		2/12/2014	NE	36.88	NA	NA	NA	406.91		0.2	*
2Q14		4/4/2014	NE	41.40	NA	NA	NA	402.39		2.0	*
3Q14		7/3/2014	NE	36.65	NA	NA	NA	407.14		0.0	*
4Q14		10/1/2014	NE	36.38	NA	NA	NA	407.41		0.0	*
1Q15	443.84	1/5/2015	NE	36.83	NA	NA	NA	407.01	303.44 - 301.44 (140.40 - 142.40)	0.0	*
2Q15		4/6/2015	NE	36.21	NA	NA	NA	407.63		0.1	*
3Q15		7/7/2015	NE	34.32	NA	NA	NA	409.52		0.0	*
4Q15		10/1/2015	NE	33.87	NA	NA	NA	409.97		0.0	*

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	WELL HEAD PID[3] (ppm)	COMMENTS
P-5U											
1Q13	444.15	1/3/2013	NE	36.41	NA	NA	NA	407.74	313.52 - 311.52 (130.63 - 132.63)	0.0	*
2Q13		4/1/2013	NE	37.24	NA	NA	NA	406.91		0.0	*
3Q13		7/3/2013	NE	33.53	NA	NA	NA	410.62		0.0	*
4Q13		10/1/2013	NE	35.88	NA	NA	NA	408.27		0.0	*
1Q14		2/12/2014	NE	38.00	NA	NA	NA	406.15		0.5	*
2Q14		4/4/2014	NE	50.04	NA	NA	NA	394.11		0.2	*
3Q14		7/3/2014	NE	37.95	NA	NA	NA	406.20		0.0	*
4Q14		10/1/2014	NE	37.56	NA	NA	NA	406.59		0.0	*
1Q15	444.24	1/5/2015	NE	46.14	NA	NA	NA	398.10	313.61 - 311.61 (130.63 - 132.63)	0.1	*
2Q15		4/6/2015	NE	37.23	NA	NA	NA	407.01		0.1	*
3Q15		7/7/2015	NE	35.71	NA	NA	NA	408.53		0.0	*
4Q15		10/1/2015	NE	35.03	NA	NA	NA	409.21		0.0	*
P-6U											
1Q13	443.35	1/3/2013	NE	35.86	NA	NA	NA	407.49	362.85 - 360.85 (80.50 - 82.50)	0.0	*
2Q13		4/1/2013	NE	36.88	NA	NA	NA	406.47		0.0	*
3Q13		7/3/2013	NE	33.17	NA	NA	NA	410.18		0.0	*
4Q13		10/1/2013	NE	35.31	NA	NA	NA	408.04		0.1	*
1Q14		2/12/2014	NE	37.45	NA	NA	NA	405.90		0.7	*
2Q14		4/4/2014	NE	42.10	NA	NA	NA	401.25		1.5	*
3Q14		7/3/2014	NE	37.52	NA	NA	NA	405.83		0.1	*
4Q14		10/1/2014	NE	37.17	NA	NA	NA	406.18		0.0	*
1Q15	443.45	1/5/2015	NE	37.12	NA	NA	NA	406.33	362.95 - 360.95 (80.50 - 82.50)	0.0	*
2Q15		4/6/2015	NE	36.85	NA	NA	NA	406.60		0.1	*
3Q15		7/7/2015	NE	35.43	NA	NA	NA	408.02		0.0	*
4Q15		10/1/2015	NE	34.54	NA	NA	NA	408.91		0.0	*
P-7U											
1Q13	443.80	1/3/2013	NE	36.12	NA	NA	NA	407.68	382.72 - 380.72 (61.08 - 63.08)	0.0	*
2Q13		4/1/2013	NE	37.12	NA	NA	NA	406.68		0.0	*
3Q13		7/3/2013	NE	33.11	NA	NA	NA	410.69		0.0	*
4Q13		10/1/2013	NE	35.54	NA	NA	NA	408.26		0.1	*
1Q14		2/12/2014	NE	37.76	NA	NA	NA	406.04		2.0	*
2Q14		4/2/2014	NE	43.67	NA	NA	NA	400.13		0.2	*
3Q14		7/3/2014	NE	37.81	NA	NA	NA	405.99		0.3	*
4Q14		10/1/2014	NE	37.52	NA	NA	NA	406.28		0.0	*
1Q15	443.91	1/6/2015	NE	37.49	NA	NA	NA	406.42	382.83 - 380.83 (61.08 - 63.08)	0.0	*
2Q15		4/6/2015	NE	37.22	NA	NA	NA	406.69		0.5	*
3Q15		7/6/2015	NE	35.66	NA	NA	NA	408.25		0.1	*
4Q15		10/1/2015	NE	34.86	NA	NA	NA	409.05		0.0	*
P-8U											
1Q13	441.87	1/3/2013	NE	35.97	NA	NA	NA	405.90	382.35 - 380.35 (59.52 - 61.52)	0.0	*
2Q13		4/1/2013	NE	37.30	NA	NA	NA	404.57		0.0	*
3Q13		7/3/2013	NE	34.48	NA	NA	NA	407.39		0.0	*
4Q13		10/1/2013	NE	35.70	NA	NA	NA	406.17		0.0	*
1Q14		2/12/2014	NE	37.54	NA	NA	NA	404.33		0.4	*
2Q14		4/1/2014	NE	38.43	NA	NA	NA	403.44		0.0	*
3Q14		7/1/2014	NE	38.00	NA	NA	NA	403.87		0.0	*
4Q14		10/3/2014	NE	37.73	NA	NA	NA	404.14		0.0	*
1Q15	441.85	1/5/2015	NE	37.08	NA	NA	NA	404.77	382.33 - 380.33 (59.52 - 61.52)	0.0	*
2Q15		4/6/2015	NE	37.06	NA	NA	NA	404.79		0.1	*
3Q15		7/6/2015	NE	36.24	NA	NA	NA	405.61		0.1	*
4Q15		10/1/2015	NE	34.97	NA	NA	NA	406.88		0.0	*
P-9U											
1Q13	444.91	1/3/2013	NE	40.11	NA	NA	NA	404.80	344.32 - 342.32 (100.59 - 102.59)	0.0	*
2Q13		4/1/2013	NE	41.20	NA	NA	NA	403.71		0.0	*
3Q13		7/3/2013	NE	39.74	NA	NA	NA	405.17		0.5	*
4Q13		10/1/2013	NE	39.93	NA	NA	NA	404.98		0.0	*
1Q14		2/12/2014	NE	41.36	NA	NA	NA	403.55		0.1	*
2Q14		4/1/2014	NE	42.28	NA	NA	NA	402.63		0.0	*
3Q14		7/2/2014	NE	42.07	NA	NA	NA	402.84		0.0	*
4Q14		10/3/2014	NE	41.81	NA	NA	NA	403.10		0.0	*
1Q15	445.04	1/6/2015	NE	41.41	NA	NA	NA	403.63	344.45 - 342.45 (100.59 - 102.59)	0.0	*
2Q15		4/6/2015	NE	41.60	NA	NA	NA	403.44		0.1	*
3Q15		7/6/2015	NE	40.70	NA	NA	NA	404.34		0.1	*
4Q15		10/1/2015	NE	39.69	NA	NA	NA	405.35		0.0	*
P-11L											
1Q13	442.80	1/3/2013	NE	37.20	NA	NA	NA	405.60	332.59 - 330.59 (110.21 - 112.21)	0.0	*
2Q13		4/1/2013	NE	37.97	NA	NA	NA	404.83		0.0	*
3Q13		7/3/2013	NE	37.85	NA	NA	NA	404.95		0.0	*
4Q13		10/1/2013	NE	36.60	NA	NA	NA	406.20		1.0	*
1Q14		2/12/2014	NE	38.37	NA	NA	NA	404.43		8.9	*
2Q14		4/4/2014	NE	42.89	NA	NA	NA	399.91		7.1	*
3Q14		7/1/2014	NE	38.58	NA	NA	NA	404.22		0.0	*
4Q14		10/2/2014	NE	38.10	NA	NA	NA	404.70		0.0	*
1Q15	442.55	1/6/2015	NE	37.70	NA	NA	NA	404.85	332.34 - 330.34 (110.21 - 112.21)	0.0	*
2Q15		4/6/2015	NE	37.51	NA	NA	NA	405.04		0.2	*
3Q15		7/7/2015	NE	36.88	NA	NA	NA	405.67		0.0	*
4Q15		10/1/2015	NE	35.54	NA	NA	NA	407.01		0.0	*

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	WELL HEAD PID[3] (ppm)	COMMENTS
P-11U											
1Q13	443.09	1/3/2013	NE	37.80	NA	NA	NA	405.29	343.17 - 341.17 (99.92 - 101.92)	0.0	*
2Q13		4/1/2013	NE	38.62	NA	NA	NA	404.47		0.0	*
3Q13		7/3/2013	NE	36.40	NA	NA	NA	406.69		0.0	*
4Q13		10/1/2013	NE	37.20	NA	NA	NA	405.89		0.0	*
1Q14		2/12/2014	NE	38.98	NA	NA	NA	404.11		0.9	*
2Q14		4/4/2014	NE	39.74	NA	NA	NA	403.35		0.2	*
3Q14		7/1/2014	NE	39.18	NA	NA	NA	403.91		0.0	*
4Q14		10/2/2014	NE	38.74	NA	NA	NA	404.35		0.0	*
1Q15	443.17	1/6/2015	NE	37.32	NA	NA	NA	405.85	343.25 - 341.25 (99.92 - 101.92)	0.1	*
2Q15		4/6/2015	NE	38.13	NA	NA	NA	405.04		0.2	*
3Q15		7/7/2015	NE	37.51	NA	NA	NA	405.66		0.1	*
4Q15		10/1/2015	NE	36.14	NA	NA	NA	407.03		0.0	*
P-14											
1Q13	442.65	1/3/2013	NE	34.01	NA	NA	NA	408.64	395.32 - 385.32 (47.33 - 57.33)	0.0	*
2Q13		4/1/2013	NE	33.74	NA	NA	NA	408.91		0.0	*
3Q13		7/3/2013	NE	30.67	NA	NA	NA	411.98		0.0	*
4Q13		10/1/2013	NE	33.18	NA	NA	NA	409.47		4.6	*
1Q14		2/12/2014	NE	35.26	NA	NA	NA	407.39		12.8	*
2Q14		4/2/2014	NE	35.67	NA	NA	NA	406.98		0.0	*
3Q14		7/3/2014	NE	34.40	NA	NA	NA	408.25		25.7	*
4Q14		10/1/2014	NE	34.05	NA	NA	NA	408.60		0.0	*
1Q15	442.74	1/5/2015	NM	NM	NA	NA	NA	NA	395.41 - 385.41 (47.33 - 57.33)	NM	Unsafe condition
2Q15		4/6/2015	NE	34.49	NA	NA	NA	408.25		0.7	*
3Q15		7/6/2015	NE	32.06	NA	NA	NA	410.68		0.2	*
4Q15		10/1/2015	NE	32.24	NA	NA	NA	410.50		0.0	*
P-15											
1Q13	443.35	1/3/2013	NE	35.81	NA	NA	NA	407.54	397.90 - 387.90 (45.45 - 55.45)	0.0	*
2Q13		4/1/2013	NE	36.46	NA	NA	NA	406.89		0.0	*
3Q13		7/3/2013	NE	33.48	NA	NA	NA	409.87		0.0	*
4Q13		10/1/2013	NE	35.03	NA	NA	NA	408.32		0.2	*
1Q14		2/12/2014	NE	37.08	NA	NA	NA	406.27		1.5	*
2Q14		4/4/2014	NE	39.02	NA	NA	NA	404.33		0.3	*
3Q14		7/3/2014	NE	37.04	NA	NA	NA	406.31		0.0	*
4Q14		10/1/2014	NE	36.57	NA	NA	NA	406.78		0.0	*
1Q15	443.69	1/5/2015	NE	36.49	NA	NA	NA	407.20	398.24 - 388.24 (45.45 - 55.45)	0.0	*
2Q15		4/6/2015	NE	36.56	NA	NA	NA	407.13		1.4	*
3Q15		7/6/2015	NE	35.09	NA	NA	NA	408.60		1.8	*
4Q15		10/1/2015	NE	34.29	NA	NA	NA	409.40		0.0	*
P-16											
1Q13	442.31	1/3/2013	NE	34.80	NA	NA	NA	407.51	396.57 - 386.57 (45.74 - 55.74)	0.0	*
2Q13		4/1/2013	NE	35.55	NA	NA	NA	406.76		0.0	*
3Q13		7/3/2013	NE	32.10	NA	NA	NA	410.21		0.0	*
4Q13		10/1/2013	NE	33.96	NA	NA	NA	408.35		0.3	*
1Q14		2/12/2014	NE	36.08	NA	NA	NA	406.23		10.1	*
2Q14		4/3/2014	NE	37.82	NA	NA	NA	404.49		42.2	*
3Q14		7/3/2014	NE	36.15	NA	NA	NA	406.16		0.7	*
4Q14		10/1/2014	NE	35.77	NA	NA	NA	406.54		0.0	*
1Q15	442.68	1/5/2015	NE	35.72	NA	NA	NA	406.96	396.94 - 386.94 (45.74 - 55.74)	0.0	*
2Q15		4/6/2015	NE	35.78	NA	NA	NA	406.90		0.3	*
3Q15		7/7/2015	NE	33.98	NA	NA	NA	408.70		0.0	*
4Q15		10/1/2015	NE	33.54	NA	NA	NA	409.14		0.0	*
P-43											
1Q13	444.07	1/3/2013	NE	38.21	NA	NA	NA	405.86	380.51 - 370.51 (63.56 - 73.56)	0.0	*
2Q13		4/1/2013	NE	39.10	NA	NA	NA	404.97		0.0	*
3Q13		7/3/2013	NE	37.04	NA	NA	NA	407.03		0.0	*
4Q13		10/1/2013	NE	37.73	NA	NA	NA	406.34		0.1	*
1Q14		2/12/2014	NE	39.52	NA	NA	NA	404.55		1.2	*
2Q14		4/4/2014	NE	41.35	NA	NA	NA	402.72		0.2	*
3Q14		7/1/2014	NE	39.73	NA	NA	NA	404.34		0.0	*
4Q14		10/2/2014	NE	39.31	NA	NA	NA	404.76		8.5	*
1Q15	444.44	1/6/2015	NE	38.78	NA	NA	NA	405.66	380.88 - 370.88 (63.56 - 73.56)	0.0	*
2Q15		4/6/2015	NE	39.01	NA	NA	NA	405.43		0.3	*
3Q15		7/7/2015	NE	38.03	NA	NA	NA	406.41		0.1	*
4Q15		10/1/2015	NE	37.03	NA	NA	NA	407.41		1.0	*
P-53											
1Q13	446.23	1/2/2013	NE	43.06	NA	NA	NA	403.17	407.73 - 382.73 (38.50 - 63.50)	0.0	
2Q13		4/1/2013	NE	44.29	NA	NA	NA	401.94		0.1	
3Q13		7/2/2013	NE	42.84	NA	NA	NA	403.39		0.4	
4Q13		10/2/2013	NE	42.20	NA	NA	NA	404.03		0.0	
1Q14		2/10/2014	NE	43.66	NA	NA	NA	402.57		0.0	
2Q14		4/1/2014	NE	44.32	NA	NA	NA	401.91		0.3	
3Q14		7/1/2014	NE	44.49	NA	NA	NA	401.74		0.0	
4Q14		10/2/2014	NE	43.81	NA	NA	NA	402.42		0.0	
1Q15	446.41	1/8/2015	NE	43.82	NA	NA	NA	402.59	407.91 - 382.91 (38.50 - 63.50)	0.0	
2Q15		4/2/2015	NE	44.65	NA	NA	NA	401.76		0.0	
3Q15		7/7/2015	NE	44.16	NA	NA	NA	402.25		0.0	
4Q15		10/1/2015	NE	42.69	NA	NA	NA	403.72		0.1	

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TABLE 1a
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WELL ID & EVENT	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	WELL HEAD PID[3] (ppm)	COMMENTS
P-54											
1Q13	442.18	1/3/2013	NE	41.62	NA	NA	NA	400.56	404.18 - 379.18 (38.00 - 63.00)	0.0	
2Q13		4/1/2013	NE	42.26	NA	NA	NA	399.92		0.0	
3Q13		7/1/2013	NE	39.40	NA	NA	NA	402.78		0.8	
4Q13		10/1/2013	NE	39.74	NA	NA	NA	402.44		0.0	
1Q14		2/10/2014	NE	42.20	NA	NA	NA	399.98		0.2	
2Q14		4/3/2014	NE	42.59	NA	NA	NA	399.59		0.2	
3Q14		7/1/2014	NE	41.88	NA	NA	NA	400.30		0.0	
4Q14		10/1/2014	NE	40.82	NA	NA	NA	401.36		0.0	
1Q15	442.32	1/5/2015	NE	41.69	NA	NA	NA	400.63	404.32 - 379.32 (38.00 - 63.00)	0.0	
2Q15		4/2/2015	NE	43.20	NA	NA	NA	399.12		0.0	
3Q15		7/6/2015	NE	42.40	NA	NA	NA	399.92		0.0	
4Q15		10/1/2015	NE	40.21	NA	NA	NA	402.11		0.1	
P-55 (P-55R)											
1Q13	445.95	1/8/2013	NE	45.24	NA	NA	NA	400.71	406.13 - 381.13 (39.82 - 64.82)	0.0	
2Q13	443.78	4/2/2013	NE	43.87	NA	NA	NA	399.91	403.35 - 393.35 (40.43 - 50.43)	202.0	Replaced during 4Q12
3Q13		7/5/2013	NE	41.43	NA	NA	NA	402.35		136.4	
4Q13		10/2/2013	NE	41.58	NA	NA	NA	402.20		52.4	
1Q14		2/13/2014	43.24	43.37	400.41	400.54	0.13	400.51		93.3	
2Q14		4/4/2014	44.32	44.37	399.41	399.46	0.05	399.45		29.1	
3Q14		7/1/2014	43.63	43.76	400.02	400.15	0.13	400.12		192.0	
4Q14		10/3/2014	42.81	43.02	400.76	400.97	0.21	400.93		53.8	
1Q15	443.79	1/8/2015	42.94	43.19	400.60	400.85	0.25	400.80	403.36 - 393.36 (40.43 - 50.43)	93.9	
2Q15		4/1/2015	44.63	44.76	399.03	399.16	0.13	399.13		51.6	
3Q15		7/9/2015	44.16	44.27	399.52	399.63	0.11	399.61		0.3	
4Q15		10/1/2015	42.04	42.05	401.74	401.75	0.01	401.75		379.0	
P-56											
1Q13	446.02	1/4/2013	NE	45.65	NA	NA	NA	400.37	405.20 - 380.20 (40.82 - 65.82)	0.6	
2Q13		4/2/2013	NE	46.40	NA	NA	NA	399.62		0.0	
3Q13		7/5/2013	NE	43.60	NA	NA	NA	402.42		0.0	
4Q13		10/2/2013	NE	44.29	NA	NA	NA	401.73		0.1	
1Q14		2/13/2014	NE	46.35	NA	NA	NA	399.67		0.0	
2Q14		4/4/2014	NE	47.32	NA	NA	NA	398.70		0.3	
3Q14		7/1/2014	NE	46.14	NA	NA	NA	399.88		0.0	
4Q14		10/3/2014	NE	45.20	NA	NA	NA	400.82		0.0	
1Q15	446.14	1/8/2015	NE	46.24	NA	NA	NA	399.90	405.32 - 380.32 (40.82 - 65.82)	0.2	
2Q15		4/1/2015	NE	48.02	NA	NA	NA	398.12		0.0	
3Q15		7/9/2015	NE	47.46	NA	NA	NA	398.68		0.0	
4Q15		10/1/2015	NE	44.89	NA	NA	NA	401.25		0.0	
P-57											
1Q13	446.53	1/4/2013	NE	45.82	NA	NA	NA	400.71	406.07 - 381.07 (40.46 - 65.46)	0.0	
2Q13		4/2/2013	NE	46.63	NA	NA	NA	399.90		0.0	
3Q13		7/5/2013	NE	43.70	NA	NA	NA	402.83		0.0	
4Q13		10/2/2013	NE	44.12	NA	NA	NA	402.41		1.8	
1Q14		2/12/2014	NE	46.57	NA	NA	NA	399.96		2.0	
2Q14		4/7/2014	NE	47.27	NA	NA	NA	399.26		4.1	
3Q14		7/1/2014	NE	46.12	NA	NA	NA	400.41		0.0	
4Q14		10/3/2014	NE	45.25	NA	NA	NA	401.28		0.0	
1Q15	446.96	1/5/2015	NE	47.37	NA	NA	NA	399.59	402.77 - 392.77 (44.19 - 54.19)	0.0	Replaced during 4Q14
2Q15		4/1/2015	NE	45.87	NA	NA	NA	401.09		0.0	
3Q15		7/9/2015	NE	48.22	NA	NA	NA	398.74		0.0	
4Q15		10/1/2015	NE	45.50	NA	NA	NA	401.46		0.1	
P-58											
1Q13	444.92	1/4/2013	NE	43.80	NA	NA	NA	401.12	404.70 - 379.70 (40.21 - 65.21)	0.0	
2Q13		4/2/2013	NE	44.75	NA	NA	NA	400.17		0.0	
3Q13		7/5/2013	NE	41.85	NA	NA	NA	403.07		0.0	
4Q13		10/2/2013	NE	41.97	NA	NA	NA	402.95		4.9	
1Q14		2/12/2014	NE	44.66	NA	NA	NA	400.26		3.6	
2Q14		4/4/2014	NE	45.39	NA	NA	NA	399.53		0.3	
3Q14		7/2/2014	NE	44.25	NA	NA	NA	400.67		0.0	
4Q14		10/3/2014	NE	43.13	NA	NA	NA	401.79		0.0	
1Q15	444.94	1/8/2015	NE	44.98	NA	NA	NA	399.96	404.73 - 379.73 (40.21 - 65.21)	6.3	
2Q15		4/1/2015	NE	46.79	NA	NA	NA	398.15		0.0	
3Q15		7/9/2015	NE	46.01	NA	NA	NA	398.93		0.0	
4Q15		10/1/2015	NE	43.27	NA	NA	NA	401.67		1.3	
P-59											
1Q13	446.78	1/4/2013	NE	46.54	NA	NA	NA	400.24	398.87 - 373.87 (47.91 - 72.91)	417.0	*
2Q13		4/2/2013	NE	47.20	NA	NA	NA	399.58		116.0	*
3Q13		7/5/2013	NE	44.47	NA	NA	NA	402.31		186.4	*
4Q13		10/2/2013	NE	45.37	NA	NA	NA	401.41		131.4	*
1Q14		2/13/2014	NE	47.35	NA	NA	NA	399.43		111.4	*
2Q14		4/4/2014	NE	49.04	NA	NA	NA	397.74		0.3	
3Q14		7/1/2014	NE	47.17	NA	NA	NA	399.61		292.1	*
4Q14		10/3/2014	NE	46.39	NA	NA	NA	400.39		397.3	*
1Q15	446.86	1/8/2015	NE	47.00	NA	NA	NA	399.86	398.95 - 373.95 (47.91 - 72.91)	377.9	*
2Q15		4/1/2015	NE	48.86	NA	NA	NA	398.00		0.0	
3Q15		7/9/2015	NE	46.50	NA	NA	NA	400.36		0.0	* Gauging result anomalous
4Q15		10/1/2015	NE	45.81	NA	NA	NA	401.05		349.0	*

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	WELL HEAD PID[3] (ppm)	COMMENTS
P-60											
1Q13	446.57	1/4/2013	NE	46.19	NA	NA	NA	400.38	403.12 - 383.12 (43.45 - 63.45)	9.9	
2Q13		4/2/2013	46.96	47.04	399.53	399.61	0.08	399.60		8.8	
3Q13		7/5/2013	44.41	44.46	402.11	402.16	0.05	402.15		42.7	
4Q13		10/2/2013	44.91	44.99	401.58	401.66	0.08	401.65		28.3	
1Q14		2/13/2014	46.68	46.79	399.78	399.89	0.11	399.87		2.4	
2Q14		4/4/2014	47.74	47.77	398.80	398.83	0.03	398.83		25.1	
3Q14		7/1/2014	46.85	46.93	399.64	399.72	0.08	399.71		309.3	
4Q14		10/3/2014	46.09	46.17	400.40	400.48	0.08	400.47		127.9	
1Q15	446.69	1/8/2015	46.29	46.49	400.20	400.40	0.20	400.36	403.24 - 383.24 (43.45 - 63.45)	6.1	
2Q15		4/1/2015	48.04	48.07	398.62	398.65	0.03	398.64		20.0	
3Q15		7/9/2015	47.61	47.75	398.94	399.08	0.14	399.05		0.0	
4Q15		10/1/2015	45.28	45.35	401.34	401.41	0.07	401.40		362.0	
P-60-11											
1Q13	446.18	1/4/2013	NE	45.06	NA	NA	NA	401.12	413.03 - 383.03 (33.15 - 63.15)	2.0	
2Q13		4/2/2013	NE	45.72	NA	NA	NA	400.46		0.0	
3Q13		7/5/2013	NE	43.81	NA	NA	NA	402.37		0.0	
4Q13		10/2/2013	NE	43.43	NA	NA	NA	402.75		0.0	
1Q14		2/13/2014	NE	44.99	NA	NA	NA	401.19		0.0	
2Q14		4/4/2014	NE	45.58	NA	NA	NA	400.60		0.2	
3Q14		7/1/2014	NE	45.74	NA	NA	NA	400.44		1.3	
4Q14		10/3/2014	NE	44.62	NA	NA	NA	401.56		0.0	
1Q15	446.26	1/8/2015	NE	44.85	NA	NA	NA	401.41	413.11 - 383.11 (33.15 - 63.15)	0.0	
2Q15		4/1/2015	NE	46.22	NA	NA	NA	400.04		0.0	
3Q15		7/8/2015	NE	46.16	NA	NA	NA	400.10		0.7	
4Q15		10/1/2015	NE	44.01	NA	NA	NA	402.25		0.0	
P-60-12											
1Q13	443.31	1/4/2013	NE	42.97	NA	NA	NA	400.34	383.31 - 373.31 (60.00 - 70.00)	2.4	*
2Q13		4/2/2013	NE	43.77	NA	NA	NA	399.54		0.0	*
3Q13		7/5/2013	NE	41.20	NA	NA	NA	402.11		0.0	*
4Q13		10/2/2013	NE	41.72	NA	NA	NA	401.59		1.1	*
1Q14		2/13/2014	NE	43.45	NA	NA	NA	399.86		72.6	*
2Q14		4/4/2014	NE	44.54	NA	NA	NA	398.77		43.5	*
3Q14		7/1/2014	NE	43.66	NA	NA	NA	399.65		46.2	*
4Q14		10/3/2014	NE	42.93	NA	NA	NA	400.38		0.6	*
1Q15	443.43	1/8/2015	NE	43.16	NA	NA	NA	400.27	383.43 - 373.43 (60.00 - 70.00)	28.1	*
2Q15		4/1/2015	NE	44.83	NA	NA	NA	398.60		86.9	*
3Q15		7/9/2015	NE	45.42	NA	NA	NA	398.01		0.0	*
4Q15		10/1/2015	NE	42.10	NA	NA	NA	401.33		0.0	*
P-60-12S											
1Q13	443.33	1/4/2013	NE	19.35	NA	NA	NA	423.98	429.49 - 419.49 (13.84 - 23.84)	3.5	
2Q13		4/2/2013	NM	NM	NA	NA	NA	NA		NM	
3Q13		7/5/2013	NE	17.73	NA	NA	NA	425.60		0.0	
4Q13		10/2/2013	NE	19.03	NA	NA	NA	424.30		0.3	
1Q14		2/13/2014	NE	19.02	NA	NA	NA	424.31		0.0	
2Q14		4/4/2014	NE	19.03	NA	NA	NA	424.30		0.5	
3Q14		7/1/2014	NE	18.00	NA	NA	NA	425.33		1.6	
4Q14		10/3/2014	NE	18.95	NA	NA	NA	424.38		0.3	
1Q15	443.43	1/8/2015	NE	20.50	NA	NA	NA	422.93	429.59 - 419.59 (13.84 - 23.84)	1.1	
2Q15		4/1/2015	NE	NE	NA	NA	NA	NA		0.0	Well Dry
3Q15		7/9/2015	NE	NE	NA	NA	NA	NA		0.0	Well Dry
4Q15		10/1/2015	NE	NE	NA	NA	NA	NA		0.2	Well Dry
P-60-13											
1Q13	442.43	1/4/2013	NE	41.55	NA	NA	NA	400.88	402.43 - 382.43 (40.00 - 60.00)	0.7	
2Q13		4/2/2013	NM	NM	NA	NA	NA	NA		NM	
3Q13		7/5/2013	NE	40.53	NA	NA	NA	401.90		0.0	
4Q13		10/2/2013	NE	39.98	NA	NA	NA	402.45		0.6	*
1Q14		2/13/2014	NM	NM	NA	NA	NA	NA		NM	
2Q14		4/4/2014	NE	42.81	NA	NA	NA	399.62		0.7	
3Q14		7/1/2014	NE	42.31	NA	NA	NA	400.12		0.0	
4Q14		10/3/2014	NE	40.78	NA	NA	NA	401.65		15.0	
1Q15	442.92	1/8/2015	NE	40.61	NA	NA	NA	402.31	402.92 - 382.92 (40.00 - 60.00)	4.5	
2Q15		4/1/2015	NE	41.22	NA	NA	NA	401.70		0.0	
3Q15		7/9/2015	NE	41.20	NA	NA	NA	401.72		0.0	
4Q15		10/1/2015	NE	40.19	NA	NA	NA	402.73		8.5	
P-60-13S											
1Q13	442.39	1/4/2013	NM	NM	NA	NA	NA	NA	432.39 - 422.39 (10.00 - 20.00)	NM	
2Q13		4/2/2013	NM	NM	NA	NA	NA	NA		NM	
3Q13		7/5/2013	NE	15.66	NA	NA	NA	426.73		8.2	
4Q13		10/2/2013	NE	17.60	NA	NA	NA	424.79		2.8	
1Q14		2/13/2014	NM	NM	NA	NA	NA	NA		NM	
2Q14		4/4/2014	NE	17.16	NA	NA	NA	425.23		0.3	
3Q14		7/1/2014	NE	17.16	NA	NA	NA	425.23		0.0	
4Q14		10/3/2014	NE	17.44	NA	NA	NA	424.95		0.0	
1Q15	442.90	1/8/2015	NE	17.81	NA	NA	NA	425.09	432.90 - 422.90 (10.00 - 20.00)	0.2	
2Q15		4/1/2015	NE	18.80	NA	NA	NA	424.10		0.7	
3Q15		7/9/2015	NE	16.90	NA	NA	NA	426.00		0.0	
4Q15		10/1/2015	NE	18.73	NA	NA	NA	424.17		0.0	

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	WELL HEAD PID[3] (ppm)	COMMENTS
P-60-S											
1Q13	446.98	1/4/2013	45.34	45.95	401.03	401.64	0.61	401.52	410.50 - 395.50 (36.48 - 51.48)	0.0	
2Q13		4/2/2013	46.33	46.39	400.59	400.65	0.06	400.64		0.1	
3Q13		7/5/2013	NE	44.45	NA	NA	NA	402.53		0.0	
4Q13		10/2/2013	43.56	44.49	402.49	403.42	0.93	403.23		0.2	
1Q14		2/13/2014	45.48	45.86	401.12	401.50	0.38	401.42		0.3	
2Q14		4/4/2014	46.38	46.57	400.41	400.60	0.19	400.56		0.2	
3Q14		7/1/2014	46.35	46.37	400.61	400.63	0.02	400.63		0.1	
4Q14		10/3/2014	NE	45.38	NA	NA	NA	401.60		0.9	
1Q15	446.84	1/8/2015	45.08	45.70	401.14	401.76	0.62	401.64	410.36 - 395.36 (36.48 - 51.48)	9.1	
2Q15		4/1/2015	46.62	47.07	399.77	400.22	0.45	400.13		0.1	
3Q15		7/9/2015	46.84	46.90	399.94	400.00	0.06	399.99		0.0	
4Q15		10/1/2015	NE	44.76	NA	NA	NA	402.08		0.0	
P-61											
1Q13	444.27	1/4/2013	43.82	45.95	398.32	400.45	2.13	400.02	398.59 - 373.59 (45.68 - 70.68)	38.8	*
2Q13		4/2/2013	44.78	46.64	397.63	399.49	1.86	399.12		23.1	*
3Q13		7/5/2013	42.52	42.56	401.71	401.75	0.04	401.74		186.4	*
4Q13		10/2/2013	43.08	43.14	401.13	401.19	0.06	401.18		10.9	*
1Q14		2/12/2014	44.62	46.17	398.10	399.65	1.55	399.34		410.7	*
2Q14		4/4/2014	45.80	45.81	398.46	398.47	0.01	398.47		13.0	
3Q14		7/2/2014	44.75	45.49	398.78	399.52	0.74	399.37		150.6	*
4Q14		10/2/2014	43.47	44.23	400.04	400.80	0.76	400.64		269.9	*
1Q15	444.47	1/5/2015	44.62	46.14	398.33	399.85	1.52	399.55	398.80 - 373.80 (45.68 - 70.68)	431.0	*
2Q15		4/1/2015	46.06	48.03	396.44	398.41	1.97	398.02		0.0	
3Q15		7/9/2015	45.99	47.05	397.42	398.48	1.06	398.27		0.1	
4Q15		10/1/2015	43.27	43.93	400.54	401.20	0.66	401.07		20.7	*
P-62											
1Q13	442.32	1/8/2013	NE	30.39	NA	NA	NA	411.93	400.85 - 375.85 (41.47 - 66.47)	0.0	*
2Q13		4/2/2013	42.81	44.32	398.00	399.51	1.51	399.21		0.0	
3Q13		7/1/2013	40.77	41.88	400.44	401.55	1.11	401.33		32.6	*
4Q13		10/2/2013	40.61	42.26	400.06	401.71	1.65	401.38		62.6	*
1Q14		2/12/2014	42.35	43.85	398.47	399.97	1.50	399.67		198.1	
2Q14		4/4/2014	43.51	45.28	397.04	398.81	1.77	398.46		0.8	
3Q14		7/2/2014	42.58	43.69	398.63	399.74	1.11	399.52		0.0	
4Q14		10/3/2014	41.64	42.89	399.43	400.68	1.25	400.43		0.9	
1Q15	442.43	1/9/2015	42.48	43.96	398.47	399.95	1.48	399.65	400.96 - 375.96 (41.47 - 66.47)	0.4	
2Q15		4/1/2015	43.65	45.18	397.25	398.78	1.53	398.47		0.0	
3Q15		7/8/2015	43.49	44.42	398.01	398.94	0.93	398.75		0.3	
4Q15		10/2/2015	41.17	42.06	400.37	401.26	0.89	401.08		0.2	*
P-63											
1Q13	445.75	1/4/2013	NE	46.03	NA	NA	NA	399.72	398.46 - 373.46 (47.29 - 72.29)	0.0	*
2Q13		4/1/2013	NE	46.98	NA	NA	NA	398.77		0.0	*
3Q13		7/5/2013	NE	45.41	NA	NA	NA	400.34		142.0	*
4Q13		10/2/2013	44.98	45.01	400.74	400.77	0.03	400.76		33.4	*
1Q14		2/12/2014	NE	45.06	NA	NA	NA	400.69		22.9	*
2Q14		4/4/2014	47.98	48.14	397.61	397.77	0.16	397.74		0.3	
3Q14		7/2/2014	46.80	46.82	398.93	398.95	0.02	398.95		47.5	*
4Q14		10/2/2014	45.90	45.94	399.81	399.85	0.04	399.84		70.3	*
1Q15	445.85	1/9/2015	46.23	46.25	399.60	399.62	0.02	399.62	398.56 - 373.56 (47.29 - 72.29)	14.6	*
2Q15		4/1/2015	47.30	47.70	398.15	398.55	0.40	398.47		12.8	
3Q15		7/7/2015	47.18	47.54	398.31	398.67	0.36	398.60		13.8	*
4Q15		10/2/2015	45.26	45.31	400.54	400.59	0.05	400.58		52.8	*
P-64											
1Q13	446.52	1/4/2013	NE	47.84	NA	NA	NA	398.68	399.29 - 374.29 (47.23 - 72.23)	103.0	
2Q13		4/1/2013	NE	48.23	NA	NA	NA	398.29		0.0	
3Q13		7/5/2013	46.95	46.97	399.55	399.57	0.02	399.57		96.5	*
4Q13		10/2/2013	46.25	46.31	400.21	400.27	0.06	400.26		41.4	*
1Q14		2/12/2014	47.93	47.94	398.58	398.59	0.01	398.59		114.2	
2Q14		4/4/2014	49.60	49.68	396.84	396.92	0.08	396.90		6.8	
3Q14		7/2/2014	48.08	48.36	398.16	398.44	0.28	398.38		0.0	
4Q14		10/2/2014	47.30	47.62	398.90	399.22	0.32	399.16		336.2	
1Q15	446.89	1/9/2015	47.29	47.51	399.38	399.60	0.22	399.56	399.66 - 374.66 (47.23 - 72.23)	12.6	
2Q15		4/1/2015	48.44	49.20	397.69	398.45	0.76	398.30		79.7	
3Q15		7/7/2015	48.38	48.62	398.27	398.51	0.24	398.46		171.4	
4Q15		10/2/2015	46.50	46.85	400.04	400.39	0.35	400.32		59.2	*
P-65											
1Q13	444.53	1/4/2013	NE	44.61	NA	NA	NA	399.92	396.91 - 371.91 (47.62 - 72.62)	0.0	*
2Q13		4/1/2013	NM	NM	NA	NA	NA	NA		NM	Well damaged
3Q13		7/3/2013	NM	NM	NA	NA	NA	NA		NM	Well damaged
4Q13	444.60	10/2/2013	NE	43.11	NA	NA	NA	401.49	397.58 - 372.58 (47.02 - 72.02)	21.2	** Well repaired during 3Q13; Well surveyed during 4Q13
1Q14		2/12/2014	NE	44.91	NA	NA	NA	399.69		2.3	*
2Q14		4/4/2014	NE	46.68	NA	NA	NA	397.92		0.6	*
3Q14		7/2/2014	NE	45.37	NA	NA	NA	399.23		0.0	*
4Q14		10/2/2014	NE	44.44	NA	NA	NA	400.16		16.5	*
1Q15		1/5/2015	NE	44.46	NA	NA	NA	400.14		5.5	*
2Q15		4/3/2015	NE	46.27	NA	NA	NA	398.33		7.6	*
3Q15		7/7/2015	NE	46.08	NA	NA	NA	398.52		2.9	*
4Q15		10/1/2015	43.83	43.84	400.76	400.77	0.01	400.77		35.8	*

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	WELL HEAD PID[3] (ppm)	COMMENTS
P-66											
1Q13	436.70	1/2/2013	NE	35.40	NA	NA	NA	401.30	401.98 - 376.98 (34.72 - 59.72)	66.2	
2Q13		4/2/2013	NE	36.41	NA	NA	NA	400.29		0.6	
3Q13		7/2/2013	NE	33.55	NA	NA	NA	403.15		3.5	*
4Q13		10/2/2013	NE	33.44	NA	NA	NA	403.26		54.0	*
1Q14		2/11/2014	NE	36.39	NA	NA	NA	400.31		13.1	
2Q14		4/4/2014	NE	36.99	NA	NA	NA	399.71		0.2	
3Q14		7/2/2014	NE	35.80	NA	NA	NA	400.90		0.9	
4Q14		10/3/2014	NE	34.77	NA	NA	NA	401.93		0.4	
1Q15	436.81	1/9/2015	NE	36.73	NA	NA	NA	400.08	402.09 - 377.09 (34.72 - 59.72)	52.6	
2Q15		4/3/2015	NE	38.26	NA	NA	NA	398.55		0.0	
3Q15		7/7/2015	NE	37.34	NA	NA	NA	399.47		0.2	
4Q15		10/2/2015	NE	34.83	NA	NA	NA	401.98		425.0	
P-67											
1Q13	444.13	1/2/2013	NE	41.69	NA	NA	NA	402.44	402.16 - 377.16 (41.98 - 66.98)	11.1	*
2Q13		4/2/2013	42.79	42.80	401.33	401.34	0.01	401.34		46.5	
3Q13		7/2/2013	NE	40.29	NA	NA	NA	403.84		0.0	*
4Q13		10/2/2013	39.78	39.80	404.33	404.35	0.02	404.35		17.3	*
1Q14		2/11/2014	42.60	42.63	401.50	401.53	0.03	401.52		60.9	
2Q14		4/4/2014	NE	43.35	NA	NA	NA	400.78		1.2	
3Q14		7/3/2014	NE	42.39	NA	NA	NA	401.74		1.8	
4Q14		10/3/2014	NE	41.37	NA	NA	NA	402.76		45.9	*
1Q15	444.10	1/9/2015	42.59	42.61	401.49	401.51	0.02	401.51	402.12 - 377.12 (41.98 - 66.98)	23.0	
2Q15		4/3/2015	NE	44.16	NA	NA	NA	399.94		0.1	
3Q15		7/7/2015	NE	43.27	NA	NA	NA	400.83		0.0	
4Q15		10/2/2015	NE	41.09	NA	NA	NA	403.01		30.1	*
P-68											
1Q13	445.07	1/4/2013	NM	NM	NA	NA	NA	NA	399.81 - 374.81 (45.26 - 70.26)	NM	
2Q13		4/2/2013	45.40	45.54	399.53	399.67	0.14	399.64		74.3	
3Q13		7/5/2013	43.05	43.12	401.95	402.02	0.07	402.01		197.0	*
4Q13		10/2/2013	43.42	43.52	401.55	401.65	0.10	401.63		101.6	*
1Q14		2/13/2014	45.18	45.29	399.78	399.89	0.11	399.87		172.6	*
2Q14		4/7/2014	45.94	46.28	398.79	399.13	0.34	399.06		9.3	
3Q14		7/2/2014	45.27	45.32	399.75	399.80	0.05	399.79		215.5	
4Q14		10/3/2014	44.56	44.67	400.40	400.51	0.11	400.49		254.8	*
1Q15	445.18	1/8/2015	44.80	44.85	400.33	400.38	0.05	400.37	399.92 - 374.92 (45.26 - 70.26)	277.7	*
2Q15		4/1/2015	46.52	46.63	398.55	398.66	0.11	398.64		206.4	
3Q15		7/9/2015	46.33	46.41	398.77	398.85	0.08	398.83		6.9	
4Q15		10/1/2015	43.89	43.96	401.22	401.29	0.07	401.28		246.0	*
P-69											
1Q13	443.18	1/4/2013	NE	43.85	NA	NA	NA	399.33	402.36 - 377.36 (40.82 - 65.82)	0.0	
2Q13		4/2/2013	NE	43.94	NA	NA	NA	399.24		0.0	
3Q13		7/5/2013	NE	41.36	NA	NA	NA	401.82		0.0	
4Q13		10/2/2013	NE	42.17	NA	NA	NA	401.01		0.5	
1Q14		2/13/2014	NE	43.85	NA	NA	NA	399.33		79.9	
2Q14		4/7/2014	NE	44.88	NA	NA	NA	398.30		0.2	
3Q14		7/2/2014	NE	44.00	NA	NA	NA	399.18		0.0	
4Q14		10/2/2014	NE	43.01	NA	NA	NA	400.17		0.0	
1Q15	443.40	1/9/2015	NE	44.05	NA	NA	NA	399.35	402.58 - 377.58 (40.82 - 65.82)	0.9	
2Q15		4/3/2015	NE	45.51	NA	NA	NA	397.89		0.0	
3Q15		7/9/2015	NE	45.08	NA	NA	NA	398.32		0.1	
4Q15		10/1/2015	NE	42.51	NA	NA	NA	400.89		2.2	
P-70											
1Q13	442.83	1/4/2013	NE	42.72	NA	NA	NA	400.11	398.16 - 373.16 (44.67 - 69.67)	1.7	*
2Q13		4/2/2013	NE	43.59	NA	NA	NA	399.24		211.0	*
3Q13		7/5/2013	NE	41.06	NA	NA	NA	401.77		134.2	*
4Q13		10/2/2013	NE	41.52	NA	NA	NA	401.31		99.1	*
1Q14		2/12/2014	NE	43.28	NA	NA	NA	399.55		85.0	*
2Q14		4/4/2014	44.21	45.35	397.48	398.62	1.14	398.39		200.7	*
3Q14		7/2/2014	43.22	43.88	398.95	399.61	0.66	399.48		319.6	*
4Q14		10/2/2014	42.08	42.72	400.11	400.75	0.64	400.62		299.6	*
1Q15	442.95	1/8/2015	42.79	43.42	399.53	400.16	0.63	400.03	398.28 - 373.28 (44.67 - 69.67)	208.3	*
2Q15		4/1/2015	44.42	45.77	397.18	398.53	1.35	398.26		180.4	
3Q15		7/7/2015	44.34	44.95	398.00	398.61	0.61	398.49		270.4	*
4Q15		10/1/2015	41.70	42.35	400.60	401.25	0.65	401.12		315.2	*
P-71											
1Q13	444.83	1/4/2013	NE	43.83	NA	NA	NA	401.00	402.22 - 377.22 (42.61 - 67.61)	1.1	
2Q13		4/2/2013	NE	44.54	NA	NA	NA	400.29		1.2	
3Q13		7/5/2013	NE	42.65	NA	NA	NA	402.18		82.5	
4Q13		10/2/2013	NE	42.53	NA	NA	NA	402.30		53.0	*
1Q14		2/13/2014	NE	44.35	NA	NA	NA	400.48		0.0	
2Q14		4/4/2014	NE	45.48	NA	NA	NA	399.35		0.8	
3Q14		7/3/2014	NE	44.61	NA	NA	NA	400.22		3.9	
4Q14		10/2/2014	NE	43.43	NA	NA	NA	401.40		185.5	
1Q15	444.94	1/5/2015	NE	4.28	NA	NA	NA	440.66	402.33 - 377.33 (42.61 - 67.61)	72.6	*
2Q15		4/1/2015	NE	45.83	NA	NA	NA	399.11		0.4	
3Q15		7/7/2015	NE	45.02	NA	NA	NA	399.92		0.0	Gauging result anomalous
4Q15		10/1/2015	NE	43.59	NA	NA	NA	401.35		2.5	

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	WELL HEAD PID[3] (ppm)	COMMENTS
P-72											
1Q13	444.43	1/4/2013	NE	43.27	NA	NA	NA	401.16	398.66 - 373.66 (45.77 - 70.77)	2.2	*
2Q13		4/1/2013	NE	44.23	NA	NA	NA	400.20		0.3	*
3Q13		7/5/2013	NE	42.36	NA	NA	NA	402.07		2.0	*
4Q13		10/2/2013	NE	41.88	NA	NA	NA	402.55		2.7	*
1Q14		2/12/2014	NE	43.86	NA	NA	NA	400.57		37.2	*
2Q14		4/4/2014	NE	45.12	NA	NA	NA	399.31		2.2	*
3Q14		7/2/2014	NE	44.19	NA	NA	NA	400.24		6.5	*
4Q14		10/2/2014	NE	43.02	NA	NA	NA	401.41		16.2	*
1Q15	444.49	1/8/2015	NE	43.63	NA	NA	NA	400.86	398.72 - 373.72 (45.77 - 70.77)	23.1	*
2Q15		4/1/2015	NE	45.72	NA	NA	NA	398.77		12.8	*
3Q15		7/7/2015	NE	45.56	NA	NA	NA	398.93		1.6	*
4Q15		10/1/2015	43.11	43.12	401.37	401.38	0.01	401.38		3.8	*
P-73											
1Q13	443.76	1/4/2013	NE	43.04	NA	NA	NA	400.72	402.16 - 377.16 (41.59 - 66.59)	0.0	
2Q13		4/1/2013	NE	43.93	NA	NA	NA	399.83		0.0	
3Q13		7/5/2013	NE	41.48	NA	NA	NA	402.28		18.3	*
4Q13		10/2/2013	NE	41.68	NA	NA	NA	402.08		50.3	
1Q14		2/12/2014	NE	43.98	NA	NA	NA	399.78		70.1	
2Q14		4/7/2014	NE	44.82	NA	NA	NA	398.94		0.4	
3Q14		7/2/2014	NE	43.54	NA	NA	NA	400.22		0.0	
4Q14		10/3/2014	NE	42.69	NA	NA	NA	401.07		0.7	
1Q15	443.86	1/5/2015	NE	45.24	NA	NA	NA	398.62	402.27 - 377.27 (41.59 - 66.59)	8.0	
2Q15		4/3/2015	NE	46.59	NA	NA	NA	397.27		0.0	
3Q15		7/9/2015	NE	46.16	NA	NA	NA	397.70		0.1	
4Q15		10/1/2015	NE	43.05	NA	NA	NA	400.81		0.4	
P-74											
1Q13	442.63	1/4/2013	NE	42.55	NA	NA	NA	400.08	398.20 - 373.20 (44.43 - 69.43)	0.2	*
2Q13		4/2/2013	NE	43.23	NA	NA	NA	399.40		0.0	*
3Q13		7/5/2013	NE	40.55	NA	NA	NA	402.08		0.0	*
4Q13		10/2/2013	NE	41.49	NA	NA	NA	401.14		0.5	*
1Q14		1/14/2014	NE	43.18	NA	NA	NA	399.45		2.8	*
2Q14		4/7/2014	NE	43.86	NA	NA	NA	398.77		7.5	*
3Q14		7/2/2014	NE	43.25	NA	NA	NA	399.38		0.1	*
4Q14		10/2/2014	NE	42.21	NA	NA	NA	400.42		0.0	*
1Q15	442.72	1/9/2015	NE	43.63	NA	NA	NA	399.09	398.29 - 373.29 (44.43 - 69.43)	0.1	*
2Q15		4/3/2015	NE	44.85	NA	NA	NA	397.87		0.0	
3Q15		7/9/2015	NE	48.03	NA	NA	NA	394.69		0.1	Gauging result anomalous
4Q15		10/1/2015	NE	41.79	NA	NA	NA	400.93		0.0	*
P-75											
1Q13	446.32	1/2/2013	NE	44.87	NA	NA	NA	401.45	403.19 - 378.19 (43.13 - 68.13)	3.1	
2Q13		4/2/2013	NE	46.03	NA	NA	NA	400.29		0.7	
3Q13		7/2/2013	NE	43.43	NA	NA	NA	402.89		0.0	
4Q13		10/2/2013	NE	42.92	NA	NA	NA	403.40		3.7	*
1Q14		2/11/2014	NE	46.05	NA	NA	NA	400.27		4.1	
2Q14		4/4/2014	NE	46.69	NA	NA	NA	399.63		0.3	
3Q14		7/3/2014	NE	45.59	NA	NA	NA	400.73		0.0	
4Q14		10/3/2014	NE	44.52	NA	NA	NA	401.80		0.1	
1Q15	446.42	1/9/2015	NE	46.74	NA	NA	NA	399.68	403.29 - 378.29 (43.13 - 68.13)	0.1	
2Q15		4/3/2015	48.23	48.25	398.17	398.19	0.02	398.19		0.0	
3Q15		7/7/2015	NE	47.44	NA	NA	NA	398.98		0.0	
4Q15		10/2/2015	NE	44.74	NA	NA	NA	401.68		0.0	
P-82A											
1Q13	434.69	1/3/2013	NE	30.09	NA	NA	NA	404.60	401.48 - 386.48 (33.21 - 48.21)	0.0	*
2Q13		4/2/2013	NE	30.77	NA	NA	NA	403.92		0.2	*
3Q13		7/2/2013	NE	27.75	NA	NA	NA	406.94		0.0	*
4Q13		10/2/2013	NE	28.20	NA	NA	NA	406.49		0.0	*
1Q14		2/10/2014	NE	30.47	NA	NA	NA	404.22		8.9	*
2Q14		4/4/2014	NE	32.21	NA	NA	NA	402.48		0.0	*
3Q14		7/2/2014	NE	30.08	NA	NA	NA	404.61		0.6	*
4Q14		10/2/2014	NE	29.25	NA	NA	NA	405.44		0.0	*
1Q15	435.02	1/8/2015	NE	29.59	NA	NA	NA	405.43	401.81 - 386.81 (33.21 - 48.21)	0.1	*
2Q15		4/3/2015	NE	30.99	NA	NA	NA	404.03		0.0	*
3Q15		7/6/2015	NE	29.31	NA	NA	NA	405.71		0.3	*
4Q15		10/2/2015	NE	28.65	NA	NA	NA	406.37		0.2	*
P-82B											
1Q13	434.44	1/3/2013	NE	29.82	NA	NA	NA	404.62	370.84 - 368.84 (63.60 - 65.60)	0.0	*
2Q13		4/2/2013	NE	30.50	NA	NA	NA	403.94		0.4	*
3Q13		7/2/2013	NE	27.49	NA	NA	NA	406.95		0.0	*
4Q13		10/2/2013	NE	27.94	NA	NA	NA	406.50		0.0	*
1Q14		2/10/2014	NE	30.20	NA	NA	NA	404.24		0.3	*
2Q14		4/4/2014	NE	32.93	NA	NA	NA	401.51		0.0	*
3Q14		7/2/2014	NE	29.79	NA	NA	NA	404.65		0.7	*
4Q14		10/2/2014	NE	28.94	NA	NA	NA	405.50		0.0	*
1Q15	434.48	1/8/2015	NE	29.32	NA	NA	NA	405.16	370.88 - 368.88 (63.60 - 65.60)	0.2	*
2Q15		4/3/2015	NE	30.73	NA	NA	NA	403.75		0.0	*
3Q15		7/6/2015	NE	29.60	NA	NA	NA	404.88		0.2	*
4Q15		10/2/2015	NE	28.40	NA	NA	NA	406.08		0.3	*

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	WELL HEAD PID[3] (ppm)	COMMENTS
P-82C											
1Q13	434.16	1/3/2013	NE	29.86	NA	NA	NA	404.30	351.39 - 349.39 (82.77 - 84.77)	0.0	*
2Q13		4/2/2013	NE	30.54	NA	NA	NA	403.62		0.8	*
3Q13		7/2/2013	NE	27.51	NA	NA	NA	406.65		0.0	*
4Q13		10/2/2013	NE	27.95	NA	NA	NA	406.21		0.0	*
1Q14		2/10/2014	NE	30.23	NA	NA	NA	403.93		0.2	*
2Q14		4/4/2014	NE	28.42	NA	NA	NA	405.74		0.1	*
3Q14		7/2/2014	NE	29.65	NA	NA	NA	404.51		0.7	*
4Q14		10/2/2014	NE	29.09	NA	NA	NA	405.07		0.0	*
1Q15	434.21	1/8/2015	NE	29.02	NA	NA	NA	405.19	351.44 - 349.44 (82.77 - 84.77)	0.2	*
2Q15		4/3/2015	NE	30.44	NA	NA	NA	403.77		0.4	*
3Q15		7/6/2015	NE	29.32	NA	NA	NA	404.89		0.2	*
4Q15		10/2/2015	NE	27.93	NA	NA	NA	406.28		0.1	*
P-82D											
1Q13	434.85	1/3/2013	NE	30.65	NA	NA	NA	404.20	323.43 - 321.43 (111.42 - 113.42)	0.0	*
2Q13		4/2/2013	NE	31.31	NA	NA	NA	403.54		0.2	*
3Q13		7/2/2013	NE	28.24	NA	NA	NA	406.61		0.0	*
4Q13		10/2/2013	NE	28.74	NA	NA	NA	406.11		0.0	*
1Q14		2/10/2014	NE	31.00	NA	NA	NA	403.85		14.5	*
2Q14		4/4/2014	NE	35.40	NA	NA	NA	399.45		0.2	*
3Q14		7/2/2014	NE	30.61	NA	NA	NA	404.24		0.4	*
4Q14		10/2/2014	NE	29.74	NA	NA	NA	405.11		0.0	*
1Q15	434.89	1/6/2015	NE	29.80	NA	NA	NA	405.09	323.47 - 321.47 (111.42 - 113.42)	0.1	*
2Q15		4/3/2015	NE	31.24	NA	NA	NA	403.65		0.4	*
3Q15		7/6/2015	NE	30.02	NA	NA	NA	404.87		0.2	*
4Q15		10/2/2015	NE	28.69	NA	NA	NA	406.20		0.3	*
P-83A											
1Q13	445.23	1/3/2013	NE	43.85	NA	NA	NA	401.38	398.58 - 383.58 (46.65 - 61.65)	0.0	*
2Q13		4/2/2013	NE	44.75	NA	NA	NA	400.48		0.0	*
3Q13		7/3/2013	NE	43.44	NA	NA	NA	401.79		0.0	*
4Q13		10/1/2013	NE	43.55	NA	NA	NA	401.68		0.2	*
1Q14		2/11/2014	NE	44.72	NA	NA	NA	400.51		0.6	*
2Q14		4/1/2014	NE	45.74	NA	NA	NA	399.49		0.0	*
3Q14		7/1/2014	NE	45.12	NA	NA	NA	400.11		0.0	*
4Q14		10/1/2014	NE	44.60	NA	NA	NA	400.63		0.0	*
1Q15	445.36	1/6/2015	NE	44.80	NA	NA	NA	400.56	398.71 - 383.71 (46.65 - 61.65)	0.0	*
2Q15		4/6/2015	NE	45.02	NA	NA	NA	400.34		0.1	*
3Q15		7/6/2015	NE	44.22	NA	NA	NA	401.14		0.7	*
4Q15		10/1/2015	NE	43.33	NA	NA	NA	402.03		0.1	*
P-83B											
1Q13	445.47	1/3/2013	NE	44.13	NA	NA	NA	401.34	375.82 - 373.82 (69.65 - 71.65)	0.0	*
2Q13		4/2/2013	NE	44.99	NA	NA	NA	400.48		0.0	*
3Q13		7/3/2013	NE	43.71	NA	NA	NA	401.76		0.0	*
4Q13		10/1/2013	NE	43.80	NA	NA	NA	401.67		0.2	*
1Q14		2/11/2014	NE	44.97	NA	NA	NA	400.50		0.3	*
2Q14		4/1/2014	NE	46.01	NA	NA	NA	399.46		0.0	*
3Q14		7/1/2014	NE	45.39	NA	NA	NA	400.08		0.0	*
4Q14		10/1/2014	NE	44.87	NA	NA	NA	400.60		0.0	*
1Q15	445.55	1/6/2015	NE	44.94	NA	NA	NA	400.61	375.90 - 373.90 (69.65 - 71.65)	0.0	*
2Q15		4/6/2015	NE	45.43	NA	NA	NA	400.12		0.1	*
3Q15		7/6/2015	NE	44.48	NA	NA	NA	401.07		2.7	*
4Q15		10/1/2015	NE	43.58	NA	NA	NA	401.97		0.0	*
P-83C											
1Q13	445.64	1/3/2013	NE	44.59	NA	NA	NA	401.05	353.25 - 351.25 (92.39 - 94.39)	0.0	*
2Q13		4/2/2013	NE	45.41	NA	NA	NA	400.23		0.0	*
3Q13		7/3/2013	NE	44.17	NA	NA	NA	401.47		0.0	*
4Q13		10/1/2013	NE	44.27	NA	NA	NA	401.37		0.6	*
1Q14		2/11/2014	NE	45.43	NA	NA	NA	400.21		13.7	*
2Q14		4/1/2014	NE	46.40	NA	NA	NA	399.24		0.0	*
3Q14		7/1/2014	NE	45.84	NA	NA	NA	399.80		0.0	*
4Q14		10/1/2014	NE	45.00	NA	NA	NA	400.64		0.4	*
1Q15	445.78	1/6/2015	NE	45.53	NA	NA	NA	400.25	353.39 - 351.39 (92.39 - 94.39)	0.0	*
2Q15		4/6/2015	NE	45.42	NA	NA	NA	400.36		0.1	*
3Q15		7/6/2015	NE	44.93	NA	NA	NA	400.85		0.6	*
4Q15		10/1/2015	NE	43.70	NA	NA	NA	402.08		0.5	*
P-83D											
1Q13	445.55	1/3/2013	NE	44.54	NA	NA	NA	401.01	311.84 - 309.84 (133.71 - 135.71)	0.0	*
2Q13		4/2/2013	NE	45.38	NA	NA	NA	400.17		0.0	*
3Q13		7/3/2013	NE	44.12	NA	NA	NA	401.43		0.0	*
4Q13		10/1/2013	NE	44.21	NA	NA	NA	401.34		0.1	*
1Q14		2/11/2014	NE	45.40	NA	NA	NA	400.15		0.4	*
2Q14		4/1/2014	NE	46.36	NA	NA	NA	399.19		0.0	*
3Q14		7/1/2014	NE	45.79	NA	NA	NA	399.76		0.0	*
4Q14		10/1/2014	NE	45.05	NA	NA	NA	400.50		0.1	*
1Q15	445.70	1/6/2015	NE	45.32	NA	NA	NA	400.38	311.99 - 309.99 (133.71 - 135.71)	0.0	*
2Q15		4/6/2015	NE	45.38	NA	NA	NA	400.32		0.1	*
3Q15		7/6/2015	NE	44.88	NA	NA	NA	400.82		4.0	*
4Q15		10/1/2015	NE	43.66	NA	NA	NA	402.04		0.1	*

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	WELL HEAD PID[3] (ppm)	COMMENTS
P-84A											
1Q13	446.39	1/4/2013	NE	44.20	NA	NA	NA	402.19	397.89 - 382.89 (48.50 - 63.50)	0.0	*
2Q13		4/3/2013	NE	45.51	NA	NA	NA	400.88		0.0	*
3Q13		7/5/2013	NE	43.85	NA	NA	NA	402.54		0.0	*
4Q13		10/4/2013	NE	43.56	NA	NA	NA	402.83		0.2	*
1Q14		2/13/2014	NE	44.73	NA	NA	NA	401.66		0.0	*
2Q14		4/4/2014	NE	46.73	NA	NA	NA	399.66		0.3	*
3Q14		7/3/2014	NE	45.55	NA	NA	NA	400.84		0.0	*
4Q14		10/3/2014	NE	44.95	NA	NA	NA	401.44		0.0	*
1Q15	446.49	1/12/2015	NE	44.96	NA	NA	NA	401.53	397.99 - 382.99 (48.50 - 63.50)	0.0	*
2Q15		4/6/2015	NE	45.65	NA	NA	NA	400.84		0.2	*
3Q15		7/7/2015	NE	45.11	NA	NA	NA	401.38		0.0	*
4Q15		10/1/2015	NE	43.91	NA	NA	NA	402.58		0.0	*
P-84B											
1Q13	446.10	1/4/2013	NE	43.92	NA	NA	NA	402.18	372.60 - 370.60 (73.50 - 75.50)	0.0	*
2Q13		4/3/2013	NE	45.24	NA	NA	NA	400.86		0.0	*
3Q13		7/5/2013	NE	43.59	NA	NA	NA	402.51		0.0	*
4Q13		10/4/2013	NE	43.30	NA	NA	NA	402.80		0.0	*
1Q14		2/13/2014	NE	44.33	NA	NA	NA	401.77		0.0	*
2Q14		4/4/2014	NE	46.45	NA	NA	NA	399.65		0.0	*
3Q14		7/3/2014	NE	45.31	NA	NA	NA	400.79		0.0	*
4Q14		10/3/2014	NE	44.73	NA	NA	NA	401.37		0.0	*
1Q15	446.21	1/12/2015	NE	44.68	NA	NA	NA	401.53	372.71 - 370.71 (73.50 - 75.50)	0.0	*
2Q15		4/6/2015	NE	45.38	NA	NA	NA	400.83		0.5	*
3Q15		7/7/2015	NE	44.90	NA	NA	NA	401.31		0.0	*
4Q15		10/1/2015	NE	43.66	NA	NA	NA	402.55		0.0	*
P-84C											
1Q13	446.13	1/4/2013	NE	44.39	NA	NA	NA	401.74	352.08 - 350.08 (94.05 - 96.05)	0.0	*
2Q13		4/3/2013	NE	45.52	NA	NA	NA	400.61		0.0	*
3Q13		7/5/2013	NE	43.85	NA	NA	NA	402.28		0.0	*
4Q13		10/4/2013	NE	43.62	NA	NA	NA	402.51		0.0	*
1Q14		2/13/2014	NE	44.80	NA	NA	NA	401.33		0.0	*
2Q14		4/4/2014	NE	49.46	NA	NA	NA	396.67		0.7	*
3Q14		7/3/2014	NE	45.63	NA	NA	NA	400.50		0.0	*
4Q14		10/3/2014	NE	45.03	NA	NA	NA	401.10		1.1	*
1Q15	446.22	1/12/2015	NE	44.69	NA	NA	NA	401.53	352.17 - 350.17 (94.05 - 96.05)	0.0	*
2Q15		4/6/2015	NE	45.38	NA	NA	NA	400.84		0.2	*
3Q15		7/7/2015	NE	44.93	NA	NA	NA	401.29		0.0	*
4Q15		10/1/2015	NE	43.99	NA	NA	NA	402.23		0.0	*
P-84D											
1Q13	446.14	1/4/2013	NE	44.41	NA	NA	NA	401.73	324.99 - 322.99 (121.15 - 123.15)	0.0	*
2Q13		4/3/2013	NE	45.52	NA	NA	NA	400.62		0.0	*
3Q13		7/5/2013	NE	44.00	NA	NA	NA	402.14		0.0	*
4Q13		10/4/2013	NE	43.62	NA	NA	NA	402.52		0.0	*
1Q14		2/13/2014	NE	44.80	NA	NA	NA	401.34		0.0	*
2Q14		4/4/2014	NE	49.46	NA	NA	NA	396.68		0.0	*
3Q14		7/3/2014	NE	45.62	NA	NA	NA	400.52		0.0	*
4Q14		10/3/2014	NE	45.02	NA	NA	NA	401.12		0.0	*
1Q15	446.24	1/12/2015	NE	44.70	NA	NA	NA	401.54	325.09 - 323.09 (121.15 - 123.15)	0.0	*
2Q15		4/6/2015	NE	45.38	NA	NA	NA	400.86		0.2	*
3Q15		7/7/2015	NE	44.92	NA	NA	NA	401.32		0.0	*
4Q15		10/1/2015	NE	43.97	NA	NA	NA	402.27		0.0	*
P-88A											
1Q13	443.12	1/2/2013	NE	35.80	NA	NA	NA	407.32	404.72 - 389.72 (38.40 - 53.40)	0.0	*
2Q13		4/2/2013	NE	36.74	NA	NA	NA	406.38		0.0	*
3Q13		7/2/2013	NE	35.05	NA	NA	NA	408.07		0.0	*
4Q13		10/2/2013	NE	34.33	NA	NA	NA	408.79		0.0	*
1Q14		2/11/2014	NE	36.13	NA	NA	NA	406.99		0.2	*
2Q14		4/4/2014	NE	37.98	NA	NA	NA	405.14		0.1	*
3Q14		7/3/2014	NE	36.62	NA	NA	NA	406.50		0.0	*
4Q14		10/3/2014	NE	36.04	NA	NA	NA	407.08		0.1	*
1Q15	443.09	1/9/2015	NE	35.54	NA	NA	NA	407.55	404.69 - 389.69 (38.40 - 53.40)	0.0	*
2Q15		4/3/2015	NE	36.41	NA	NA	NA	406.68		0.0	*
3Q15		7/7/2015	NE	35.93	NA	NA	NA	407.16		0.0	*
4Q15		10/2/2015	NE	34.26	NA	NA	NA	408.83		0.2	*
P-88B											
1Q13	443.17	1/2/2013	NE	35.82	NA	NA	NA	407.35	371.17 - 369.17 (72.00 - 74.00)	0.0	*
2Q13		4/2/2013	NE	36.79	NA	NA	NA	406.38		0.0	*
3Q13		7/2/2013	NE	35.15	NA	NA	NA	408.02		0.0	*
4Q13		10/2/2013	NE	34.33	NA	NA	NA	408.84		0.0	*
1Q14		2/11/2014	NE	36.19	NA	NA	NA	406.98		0.3	*
2Q14		4/4/2014	NE	38.04	NA	NA	NA	405.13		0.5	*
3Q14		7/3/2014	NE	36.58	NA	NA	NA	406.59		0.0	*
4Q14		10/3/2014	NE	36.09	NA	NA	NA	407.08		0.1	*
1Q15	443.16	1/9/2015	NE	35.61	NA	NA	NA	407.55	371.16 - 369.16 (72.00 - 74.00)	0.0	*
2Q15		4/3/2015	NE	36.48	NA	NA	NA	406.68		0.0	*
3Q15		7/7/2015	NE	35.94	NA	NA	NA	407.22		0.0	*
4Q15		10/2/2015	NE	34.50	NA	NA	NA	408.66		0.4	*

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	WELL HEAD PID[3] (ppm)	COMMENTS
P-88C											
1Q13	443.16	1/2/2013	NE	36.10	NA	NA	NA	407.06	350.86 - 348.86 (92.30 - 94.30)	0.0	*
2Q13		4/2/2013	NE	37.07	NA	NA	NA	406.09		0.5	*
3Q13		7/2/2013	NE	35.44	NA	NA	NA	407.72		0.0	*
4Q13		10/2/2013	NE	34.61	NA	NA	NA	408.55		0.0	*
1Q14		2/11/2014	NE	36.45	NA	NA	NA	406.71		0.2	*
2Q14		4/4/2014	NE	41.00	NA	NA	NA	402.16		0.2	*
3Q14		7/3/2014	NE	36.87	NA	NA	NA	406.29		0.0	*
4Q14		10/3/2014	NE	35.74	NA	NA	NA	407.42		0.3	*
1Q15	443.13	1/9/2015	NE	35.59	NA	NA	NA	407.54	350.83 - 348.83 (92.30 - 94.30)	0.0	*
2Q15		4/3/2015	NE	36.42	NA	NA	NA	406.71		3.2	*
3Q15		7/7/2015	NE	36.21	NA	NA	NA	406.92		0.0	*
4Q15		10/2/2015	NE	34.28	NA	NA	NA	408.85		2.7	*
P-88D											
1Q13	443.23	1/2/2013	NE	36.23	NA	NA	NA	407.00	329.53 - 327.53 (113.70 - 115.70)	0.0	*
2Q13		4/2/2013	NE	37.21	NA	NA	NA	406.02		1.6	*
3Q13		7/2/2013	NE	35.51	NA	NA	NA	407.72		0.0	*
4Q13		10/2/2013	NE	34.72	NA	NA	NA	408.51		0.0	*
1Q14		2/11/2014	NE	36.59	NA	NA	NA	406.64		1.7	*
2Q14		4/4/2014	NE	41.45	NA	NA	NA	401.78		0.1	*
3Q14		7/3/2014	NE	36.95	NA	NA	NA	406.28		0.6	*
4Q14		10/3/2014	NE	36.43	NA	NA	NA	406.80		0.0	*
1Q15	443.20	1/9/2015	NE	35.78	NA	NA	NA	407.42	329.50 - 327.50 (113.70 - 115.70)	0.0	*
2Q15		4/3/2015	NE	36.57	NA	NA	NA	406.63		0.0	*
3Q15		7/7/2015	NE	36.30	NA	NA	NA	406.90		0.0	*
4Q15		10/2/2015	NE	34.85	NA	NA	NA	408.35		1.4	*
T-37											
1Q13	447.15	1/3/2013	NE	43.07	NA	NA	NA	404.08	398.30 - 378.30 (48.85 - 68.85)	0.0	*
2Q13		4/1/2013	NE	43.79	NA	NA	NA	403.36		0.0	*
3Q13		7/3/2013	NE	42.66	NA	NA	NA	404.49		0.0	*
4Q13		10/1/2013	NE	42.51	NA	NA	NA	404.64		0.1	*
1Q14		2/12/2014	NE	44.08	NA	NA	NA	403.07		4.1	*
2Q14		4/1/2014	NE	44.91	NA	NA	NA	402.24		0.0	*
3Q14		7/1/2014	NE	44.44	NA	NA	NA	402.71		0.0	*
4Q14		10/2/2014	NE	44.03	NA	NA	NA	403.12		17.4	*
1Q15	447.25	1/9/2015	NE	43.17	NA	NA	NA	404.08	398.40 - 378.40 (48.85 - 68.85)	1.4	*
2Q15		4/3/2015	NE	43.93	NA	NA	NA	403.32		0.0	*
3Q15		7/7/2015	NE	43.21	NA	NA	NA	404.04		0.0	*
4Q15		10/1/2015	NE	42.03	NA	NA	NA	405.22		0.0	*
P-89B											
1Q13	447.35	1/3/2013	NE	43.23	NA	NA	NA	404.12	369.99 - 367.99 (77.36 - 79.36)	0.0	*
2Q13		4/1/2013	NE	43.96	NA	NA	NA	403.39		0.0	*
3Q13		7/3/2013	NE	42.83	NA	NA	NA	404.52		0.0	*
4Q13		10/1/2013	NE	42.67	NA	NA	NA	404.68		25.2	*
1Q14		2/12/2014	NE	44.24	NA	NA	NA	403.11		0.2	*
2Q14		4/1/2014	NE	45.09	NA	NA	NA	402.26		0.0	*
3Q14		7/1/2014	NE	44.59	NA	NA	NA	402.76		0.0	*
4Q14		10/2/2014	NE	44.19	NA	NA	NA	403.16		0.0	*
1Q15	447.44	1/9/2015	NE	43.31	NA	NA	NA	404.13	370.08 - 368.08 (77.36 - 79.36)	0.0	*
2Q15		4/3/2015	NE	44.10	NA	NA	NA	403.34		0.0	*
3Q15		7/7/2015	NE	43.36	NA	NA	NA	404.08		0.0	*
4Q15		10/1/2015	NE	42.17	NA	NA	NA	405.27		0.0	*
P-89C											
1Q13	447.68	1/3/2013	NE	43.58	NA	NA	NA	404.10	350.05 - 348.05 (97.63 - 99.63)	0.0	*
2Q13		4/2/2013	NE	44.28	NA	NA	NA	403.40		1.7	*
3Q13		7/3/2013	NE	43.20	NA	NA	NA	404.48		2.3	*
4Q13		10/1/2013	NE	43.02	NA	NA	NA	404.66		0.1	*
1Q14		2/12/2014	NE	44.58	NA	NA	NA	403.10		186.4	*
2Q14		4/1/2014	NE	45.47	NA	NA	NA	402.21		0.0	*
3Q14		7/1/2014	NE	44.94	NA	NA	NA	402.74		0.0	*
4Q14		10/2/2014	NE	44.53	NA	NA	NA	403.15		0.0	*
1Q15	447.76	1/9/2015	NE	43.68	NA	NA	NA	404.08	350.13 - 348.13 (97.63 - 99.63)	0.7	*
2Q15		4/3/2015	NE	44.45	NA	NA	NA	403.31		0.0	*
3Q15		7/7/2015	NE	43.73	NA	NA	NA	404.03		0.0	*
4Q15		10/1/2015	NE	42.54	NA	NA	NA	405.22		0.1	*
P-89D											
1Q13	447.54	1/3/2013	NE	43.52	NA	NA	NA	404.02	307.20 - 305.20 (140.34 - 142.34)	0.0	*
2Q13		4/1/2013	NE	44.20	NA	NA	NA	403.34		0.0	*
3Q13		7/3/2013	NE	43.20	NA	NA	NA	404.34		0.0	*
4Q13		10/1/2013	NE	43.01	NA	NA	NA	404.53		0.2	*
1Q14		2/12/2014	NE	44.68	NA	NA	NA	402.86		7.4	*
2Q14		4/1/2014	NE	45.45	NA	NA	NA	402.09		0.0	*
3Q14		7/1/2014	NE	44.92	NA	NA	NA	402.62		0.0	*
4Q14		10/2/2014	NE	44.55	NA	NA	NA	402.99		0.0	*
1Q15	447.63	1/9/2015	NE	43.67	NA	NA	NA	403.96	307.29 - 305.29 (140.34 - 142.34)	0.0	*
2Q15		4/3/2015	NE	44.32	NA	NA	NA	403.31		0.0	*
3Q15		7/7/2015	NE	43.73	NA	NA	NA	403.90		0.0	*
4Q15		10/1/2015	NE	42.56	NA	NA	NA	405.07		0.1	*

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	WELL HEAD PID[3] (ppm)	COMMENTS
P-91A											
1Q13	447.19	1/4/2013	NE	48.92	NA	NA	NA	398.27	395.68 - 380.68 (51.51 - 66.51)	0.0	*
2Q13		4/1/2013	NE	49.58	NA	NA	NA	397.61		0.4	*
3Q13		7/3/2013	NE	48.64	NA	NA	NA	398.55		182.3	*
4Q13		10/2/2013	NE	47.88	NA	NA	NA	399.31		14.8	*
1Q14		2/12/2014	48.21	54.71	392.48	398.98	6.50	397.68		178.7	*
2Q14		4/4/2014	50.20	55.10	392.09	396.99	4.90	396.01		15.9	*
3Q14		7/2/2014	48.74	52.68	394.51	398.45	3.94	397.66		295.2	*
4Q14		10/2/2014	48.10	51.99	395.20	399.09	3.89	398.31		22.9	*
1Q15	447.24	1/9/2015	47.98	51.84	395.40	399.26	3.86	398.49	395.72 - 380.72 (51.51 - 66.51)	15.0	*
2Q15		4/3/2015	50.02	50.12	397.12	397.22	0.10	397.20		45.5	*
3Q15		7/7/2015	49.55	49.59	397.65	397.69	0.04	397.68		17.6	*
4Q15		10/2/2015	47.95	47.97	399.27	399.29	0.02	399.29		28.2	*
P-91B											
1Q13	447.26	1/4/2013	NE	49.10	NA	NA	NA	398.16	372.57 - 370.57 (74.69 - 76.69)	0.0	*
2Q13		4/1/2013	NE	49.70	NA	NA	NA	397.56		0.0	*
3Q13		7/3/2013	NE	48.72	NA	NA	NA	398.54		2.5	*
4Q13		10/2/2013	NE	48.04	NA	NA	NA	399.22		0.0	*
1Q14		2/12/2014	NE	49.61	NA	NA	NA	397.65		9.5	*
2Q14		4/4/2014	NE	51.19	NA	NA	NA	396.07		0.4	*
3Q14		7/2/2014	NE	49.64	NA	NA	NA	397.62		17.5	*
4Q14		10/2/2014	NE	48.96	NA	NA	NA	398.30		29.1	*
1Q15	447.28	1/9/2015	NE	48.86	NA	NA	NA	398.42	372.59 - 370.59 (74.69 - 76.69)	1.9	*
2Q15		4/3/2015	NE	50.08	NA	NA	NA	397.20		2.1	*
3Q15		7/7/2015	NE	49.62	NA	NA	NA	397.66		2.2	*
4Q15		10/2/2015	NE	48.03	NA	NA	NA	399.25		10.1	*
P-91C											
1Q13	447.02	1/4/2013	NE	48.84	NA	NA	NA	398.18	352.29 - 350.29 (94.73 - 96.73)	0.0	*
2Q13		4/2/2013	NE	49.40	NA	NA	NA	397.62		0.2	*
3Q13		7/3/2013	NE	48.46	NA	NA	NA	398.56		0.0	*
4Q13		10/2/2013	NE	47.77	NA	NA	NA	399.25		0.6	*
1Q14		2/12/2014	NE	49.36	NA	NA	NA	397.66		2.7	*
2Q14		4/4/2014	NE	51.00	NA	NA	NA	396.02		0.2	*
3Q14		7/2/2014	NE	49.39	NA	NA	NA	397.63		0.3	*
4Q14		10/2/2014	NE	48.71	NA	NA	NA	398.31		0.1	*
1Q15	447.07	1/9/2015	NE	48.61	NA	NA	NA	398.46	352.34 - 350.34 (94.73 - 96.73)	0.1	*
2Q15		4/3/2015	NE	49.88	NA	NA	NA	397.19		0.0	*
3Q15		7/7/2015	NE	49.39	NA	NA	NA	397.68		0.0	*
4Q15		10/2/2015	NE	47.79	NA	NA	NA	399.28		0.2	*
P-91D											
1Q13	447.02	1/4/2013	NE	48.82	NA	NA	NA	398.20	278.70 - 276.70 (168.32 - 170.32)	0.0	*
2Q13		4/1/2013	NE	49.42	NA	NA	NA	397.60		0.0	*
3Q13		7/3/2013	NE	48.46	NA	NA	NA	398.56		6.6	*
4Q13		10/2/2013	NE	47.76	NA	NA	NA	399.26		1.9	*
1Q14		2/12/2014	NE	49.35	NA	NA	NA	397.67		6.2	*
2Q14		4/4/2014	NE	51.02	NA	NA	NA	396.00		6.9	*
3Q14		7/2/2014	NE	49.37	NA	NA	NA	397.65		0.4	*
4Q14		10/2/2014	NE	48.71	NA	NA	NA	398.31		0.0	*
1Q15	447.06	1/9/2015	NE	48.60	NA	NA	NA	398.46	278.74 - 276.74 (168.32 - 170.32)	0.1	*
2Q15		4/3/2015	NE	49.87	NA	NA	NA	397.19		1.0	*
3Q15		7/7/2015	NE	49.39	NA	NA	NA	397.67		0.0	*
4Q15		10/2/2015	NE	47.78	NA	NA	NA	399.28		0.5	*
P-92A											
1Q13	446.12	1/4/2013	46.83	46.84	399.28	399.29	0.01	399.29	398.55 - 383.55 (47.57 - 62.57)	0.0	*
2Q13		4/1/2013	47.59	47.71	398.41	398.53	0.12	398.51		105.0	
3Q13		7/5/2013	46.31	46.40	399.72	399.81	0.09	399.79		17.0	*
4Q13		10/2/2013	45.36	45.42	400.70	400.76	0.06	400.75		55.1	*
1Q14		2/12/2014	47.20	47.28	398.84	398.92	0.08	398.90		153.9	*
2Q14		4/4/2014	49.06	49.16	396.96	397.06	0.10	397.04		0.9	
3Q14		7/2/2014	47.55	47.57	398.55	398.57	0.02	398.57		17.5	*
4Q14		10/2/2014	46.73	46.76	399.36	399.39	0.03	399.38		130.2	*
1Q15	446.24	1/9/2015	46.31	46.35	399.89	399.93	0.04	399.92	398.67 - 383.67 (47.57 - 62.57)	34.9	*
2Q15		4/1/2015	48.06	48.08	398.16	398.18	0.02	398.18		12.8	
3Q15		7/7/2015	NE	48.05	NA	NA	NA	398.19		72.5	
4Q15		10/1/2015	45.90	45.91	400.33	400.34	0.01	400.34		63.4	*
P-92B											
1Q13	446.07	1/4/2013	NE	46.80	NA	NA	NA	399.27	372.42 - 370.42 (73.65 - 75.65)	0.0	*
2Q13		4/1/2013	NE	47.57	NA	NA	NA	398.50		1.9	*
3Q13		7/5/2013	NE	46.29	NA	NA	NA	399.78		0.0	*
4Q13		10/2/2013	NE	45.31	NA	NA	NA	400.76		0.3	*
1Q14		2/12/2014	NE	47.12	NA	NA	NA	398.95		1.7	*
2Q14		4/4/2014	NE	49.03	NA	NA	NA	397.04		0.2	*
3Q14		7/2/2014	NE	47.52	NA	NA	NA	398.55		0.0	*
4Q14		10/2/2014	NE	46.70	NA	NA	NA	399.37		0.6	*
1Q15	446.18	1/9/2015	NE	46.28	NA	NA	NA	399.90	372.53 - 370.53 (73.65 - 75.65)	0.0	*
2Q15		4/1/2015	NE	48.03	NA	NA	NA	398.15		0.0	*
3Q15		7/7/2015	NE	48.02	NA	NA	NA	398.16		0.5	*
4Q15		10/1/2015	NE	45.89	NA	NA	NA	400.29		0.6	*

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	WELL HEAD PID[3] (ppm)	COMMENTS
P-92C											
1Q13	445.98	1/4/2013	NE	46.83	NA	NA	NA	399.15	352.54 - 350.54 (93.44 - 95.44)	0.0	*
2Q13		4/1/2013	NE	47.47	NA	NA	NA	398.51		0.0	*
3Q13		7/5/2013	NE	46.31	NA	NA	NA	399.67		0.4	*
4Q13		10/2/2013	NE	45.33	NA	NA	NA	400.65		0.8	*
1Q14		2/12/2014	NE	47.29	NA	NA	NA	398.69		0.2	*
2Q14		4/4/2014	NE	48.80	NA	NA	NA	397.18		0.4	*
3Q14		7/2/2014	NM	NM	NA	NA	NA	NA		NM	Well damaged
4Q14		10/2/2014	NM	NM	NA	NA	NA	NA		NM	Well damaged
1Q15	446.17	1/9/2015	NE	46.25	NA	NA	NA	399.92	353.21 - 348.21 (92.96 - 97.96)	4.4	* Replaced during 4Q14
2Q15		4/1/2015	NE	48.02	NA	NA	NA	398.15		2.9	*
3Q15		7/7/2015	NE	48.02	NA	NA	NA	398.15		0.7	*
4Q15		10/1/2015	NE	45.90	NA	NA	NA	400.27		44.0	*
P-92D											
1Q13	445.90	1/4/2013	NE	46.72	NA	NA	NA	399.18	304.90 - 302.90 (141.00 - 143.00)	0.0	*
2Q13		4/1/2013	NE	47.47	NA	NA	NA	398.43		0.0	*
3Q13		7/5/2013	NE	46.22	NA	NA	NA	399.68		0.0	*
4Q13		10/2/2013	NE	45.21	NA	NA	NA	400.69		0.1	*
1Q14		2/12/2014	NE	47.07	NA	NA	NA	398.83		0.4	*
2Q14		4/4/2014	NE	48.94	NA	NA	NA	396.96		0.3	*
3Q14		7/2/2014	NE	47.42	NA	NA	NA	398.48		0.0	*
4Q14		10/2/2014	NE	46.62	NA	NA	NA	399.28		0.2	*
1Q15	446.00	1/9/2015	NE	46.10	NA	NA	NA	399.90	305.00 - 303.00 (141.00 - 143.00)	0.4	*
2Q15		4/1/2015	NE	47.91	NA	NA	NA	398.09		0.0	*
3Q15		7/7/2015	NE	47.88	NA	NA	NA	398.12		2.2	*
4Q15		10/1/2015	NE	45.78	NA	NA	NA	400.22		0.0	*
P-93A											
1Q13	446.58	1/8/2013	NE	45.73	NA	NA	NA	400.84	398.41 - 383.41 (48.17 - 63.17)	0.0	*
2Q13		4/2/2013	NE	46.58	NA	NA	NA	400.00		0.0	*
3Q13		7/5/2013	NE	43.68	NA	NA	NA	402.90		0.0	*
4Q13		10/2/2013	NE	44.00	NA	NA	NA	402.58		0.1	*
1Q14		2/12/2014	NE	46.53	NA	NA	NA	400.04		3.6	*
2Q14		4/4/2014	NE	47.28	NA	NA	NA	399.29		1.3	*
3Q14		7/1/2014	NE	46.10	NA	NA	NA	400.48		0.0	*
4Q14		10/3/2014	NE	45.09	NA	NA	NA	401.48		2.2	*
1Q15	445.12	1/8/2015	NE	46.84	NA	NA	NA	398.28	402.05 - 392.05 (43.07 - 53.07)	0.0	Replaced during 4Q14
2Q15		4/1/2015	NE	47.05	NA	NA	NA	398.07		0.0	
3Q15		7/9/2015	NE	46.39	NA	NA	NA	398.73		0.0	
4Q15		10/1/2015	NE	43.64	NA	NA	NA	401.48		0.0	
P-93B											
1Q13	446.46	1/8/2013	NE	45.77	NA	NA	NA	400.69	371.86 - 369.86 (74.60 - 76.60)	0.0	*
2Q13		4/2/2013	NE	46.70	NA	NA	NA	399.76		0.0	*
3Q13		7/5/2013	NE	43.71	NA	NA	NA	402.75		0.0	*
4Q13		10/2/2013	NE	44.09	NA	NA	NA	402.37		18.4	*
1Q14		2/12/2014	NE	46.58	NA	NA	NA	399.88		70.0	*
2Q14		4/4/2014	NE	47.33	NA	NA	NA	399.13		0.5	*
3Q14		7/1/2014	NE	46.15	NA	NA	NA	400.31		0.0	*
4Q14		10/3/2014	NE	45.13	NA	NA	NA	401.33		1.0	*
1Q15	446.52	1/9/2015	NE	47.10	NA	NA	NA	399.42	371.92 - 369.92 (74.60 - 76.60)	0.1	*
2Q15		4/1/2015	NE	48.44	NA	NA	NA	398.08		51.9	*
3Q15		7/9/2015	NE	47.76	NA	NA	NA	398.76		0.1	*
4Q15		10/1/2015	NE	45.18	NA	NA	NA	401.34		0.1	*
P-93C											
1Q13	446.51	1/8/2013	NE	45.66	NA	NA	NA	400.85	352.26 - 350.26 (94.26 - 96.26)	0.0	*
2Q13		4/2/2013	NE	46.51	NA	NA	NA	400.00		0.0	*
3Q13		7/5/2013	NE	43.59	NA	NA	NA	402.92		0.0	*
4Q13		10/2/2013	NE	43.94	NA	NA	NA	402.57		0.3	*
1Q14		2/12/2014	NE	46.44	NA	NA	NA	400.07		1.3	*
2Q14		4/4/2014	NE	47.20	NA	NA	NA	399.31		0.0	*
3Q14		7/1/2014	NE	46.03	NA	NA	NA	400.48		0.0	*
4Q14		10/3/2014	NE	45.01	NA	NA	NA	401.50		0.4	*
1Q15	446.28	1/8/2015	NE	46.36	NA	NA	NA	399.92	353.81 - 348.81 (92.47 - 97.47)	2.3	* Replaced during 4Q14
2Q15		4/1/2015	NE	48.24	NA	NA	NA	398.04		12.8	*
3Q15		7/9/2015	NE	47.55	NA	NA	NA	398.73		0.1	*
4Q15		10/1/2015	NE	44.83	NA	NA	NA	401.45		64.3	*
P-93D											
1Q13	446.89	1/8/2013	NE	45.84	NA	NA	NA	401.05	321.14 - 319.14 (125.75 - 127.75)	0.0	*
2Q13		4/2/2013	NE	46.67	NA	NA	NA	400.22		0.0	*
3Q13		7/5/2013	NE	43.75	NA	NA	NA	403.14		0.0	*
4Q13		10/2/2013	NE	44.06	NA	NA	NA	402.83		0.2	*
1Q14		2/12/2014	NE	46.62	NA	NA	NA	400.27		4.1	*
2Q14		4/4/2014	NE	47.36	NA	NA	NA	399.53		3.1	*
3Q14		7/1/2014	NE	46.17	NA	NA	NA	400.72		0.0	*
4Q14		10/3/2014	NE	45.16	NA	NA	NA	401.73		14.4	*
1Q15	446.73	1/8/2015	NE	46.82	NA	NA	NA	399.91	320.98 - 318.98 (125.75 - 127.75)	10.8	*
2Q15		4/1/2015	NE	48.64	NA	NA	NA	398.09		13.7	*
3Q15		7/9/2015	NE	47.96	NA	NA	NA	398.77		0.0	*
4Q15		10/1/2015	NE	45.27	NA	NA	NA	401.46		0.1	*

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	WELL HEAD PID[3] (ppm)	COMMENTS
P-94											
1Q13	444.65	1/3/2013	NE	39.75	NA	NA	NA	404.90	398.80 - 383.80 (45.85 - 60.85)	0.0	*
2Q13		4/2/2013	NE	40.64	NA	NA	NA	404.01		0.0	*
3Q13		7/3/2013	NE	38.49	NA	NA	NA	406.16		0.0	*
4Q13		10/1/2013	NE	39.17	NA	NA	NA	405.48		2.6	*
1Q14		2/11/2014	NE	40.93	NA	NA	NA	403.72		0.4	*
2Q14		4/1/2014	NE	41.85	NA	NA	NA	402.80		0.0	*
3Q14		7/1/2014	NE	41.46	NA	NA	NA	403.19		0.0	*
4Q14		10/1/2014	NE	41.10	NA	NA	NA	403.55		0.0	*
1Q15	445.14	1/6/2015	NE	41.09	NA	NA	NA	404.05	399.29 - 384.29 (45.85 - 60.85)	0.0	*
2Q15		4/6/2015	NE	41.00	NA	NA	NA	404.14		0.1	*
3Q15		7/6/2015	NE	39.97	NA	NA	NA	405.17		0.2	*
4Q15		10/1/2015	NE	39.08	NA	NA	NA	406.06		0.0	*
P-95											
1Q13	443.44	1/2/2013	NE	33.87	NA	NA	NA	409.57	406.92 - 391.92 (36.52 - 51.52)	0.0	*
2Q13		4/2/2013	NE	34.91	NA	NA	NA	408.53		0.2	*
3Q13		7/2/2013	NE	33.31	NA	NA	NA	410.13		0.0	*
4Q13		10/2/2013	NE	32.59	NA	NA	NA	410.85		0.0	*
1Q14		2/10/2014	NE	34.28	NA	NA	NA	409.16		1.2	*
2Q14		4/4/2014	NE	36.19	NA	NA	NA	407.25		0.0	*
3Q14		7/3/2014	NE	34.73	NA	NA	NA	408.71		0.0	*
4Q14		10/3/2014	NE	34.39	NA	NA	NA	409.05		0.0	*
1Q15	443.42	1/12/2015	NE	34.16	NA	NA	NA	409.26	406.90 - 391.90 (36.52 - 51.52)	0.2	*
2Q15		4/3/2015	NE	34.52	NA	NA	NA	408.90		0.0	*
3Q15		7/7/2015	NE	33.83	NA	NA	NA	409.59		0.0	*
4Q15		10/2/2015	NE	32.55	NA	NA	NA	410.87		0.3	*
P-102											
1Q13	444.91	1/2/2013	NE	36.98	NA	NA	NA	407.93	402.16 - 382.16 (42.75 - 62.75)	0.0	*
2Q13		4/2/2013	NE	37.95	NA	NA	NA	406.96		0.2	*
3Q13		7/2/2013	NE	36.53	NA	NA	NA	408.38		0.0	*
4Q13		10/2/2013	NE	36.24	NA	NA	NA	408.67		20.0	*
1Q14		2/11/2014	NE	37.81	NA	NA	NA	407.10		2.9	*
2Q14		4/4/2014	NE	38.55	NA	NA	NA	406.36		7.5	*
3Q14		7/3/2014	NE	38.25	NA	NA	NA	406.66		0.0	*
4Q14		10/3/2014	NE	37.87	NA	NA	NA	407.04		6.8	*
1Q15	444.97	1/9/2015	NE	37.20	NA	NA	NA	407.77	402.22 - 382.22 (42.75 - 62.75)	0.0	*
2Q15		4/3/2015	NE	37.85	NA	NA	NA	407.12		0.1	*
3Q15		7/7/2015	NE	37.02	NA	NA	NA	407.95		0.2	*
4Q15		10/2/2015	NE	35.85	NA	NA	NA	409.12		16.6	*
P-114 (P-114R)											
1Q13	432.40	1/7/2013	NE	30.22	NA	NA	NA	402.18	399.73 - 379.73 (32.67 - 52.67)	0.0	*
2Q13		4/2/2013	NE	31.99	NA	NA	NA	400.42		0.9	*
3Q13		7/2/2013	NE	27.65	NA	NA	NA	404.76		0.3	*
4Q13		10/2/2013	NE	29.03	NA	NA	NA	403.38		0.0	*
1Q14		2/11/2014	NE	32.11	NA	NA	NA	400.29		0.5	*
2Q14		4/4/2014	NM	NM	NA	NA	NA	NA		NM	
3Q14		7/2/2014	NE	30.87	NA	NA	NA	401.54		3.5	*
4Q14		10/3/2014	NE	29.83	NA	NA	NA	402.58		0.4	*
1Q15	432.45	1/12/2015	NM	NM	NA	NA	NA	NA	399.78 - 379.78 (32.67 - 52.67)	NM	Well damaged
2Q15		4/3/2015	NM	NM	NA	NA	NA	NA		NM	Well damaged
3Q15		7/8/2015	NM	NM	NA	NA	NA	NA		NM	Well damaged
4Q15	429.26	10/2/2015	NE	28.15	NA	NA	NA	401.11	406.25 - 396.25 (23.01 - 33.01)	71.9	Replaced during 3Q15
P-115											
1Q13	433.31	1/7/2013	NE	32.60	NA	NA	NA	400.71	401.01 - 381.01 (32.30 - 52.30)	0.0	
2Q13		4/2/2013	NE	32.92	NA	NA	NA	400.39		0.5	
3Q13		7/2/2013	NE	28.30	NA	NA	NA	405.01		0.5	*
4Q13		10/2/2013	NE	29.99	NA	NA	NA	403.32		0.0	*
1Q14		2/11/2014	NE	33.07	NA	NA	NA	400.24		0.6	
2Q14		4/7/2014	NE	33.10	NA	NA	NA	400.21		57.2	
3Q14		7/2/2014	NE	31.61	NA	NA	NA	401.70		0.9	*
4Q14		10/3/2014	NE	30.52	NA	NA	NA	402.79		0.2	*
1Q15	433.36	1/12/2015	NE	32.17	NA	NA	NA	401.19	401.06 - 381.06 (32.30 - 52.30)	0.0	*
2Q15		4/3/2015	NE	33.81	NA	NA	NA	399.55		0.3	
3Q15		7/8/2015	NE	30.94	NA	NA	NA	402.42		4.8	*
4Q15		10/2/2015	NE	30.13	NA	NA	NA	403.23		0.6	*
P-116											
1Q13	436.45	1/7/2013	NE	36.10	NA	NA	NA	400.35	399.01 - 379.01 (37.44 - 57.44)	0.0	*
2Q13		4/2/2013	NE	36.32	NA	NA	NA	400.13		3.9	*
3Q13		7/2/2013	NE	31.49	NA	NA	NA	404.96		0.0	*
4Q13		10/2/2013	NE	33.43	NA	NA	NA	403.02		18.3	*
1Q14		2/11/2014	NE	36.50	NA	NA	NA	399.95		0.9	*
2Q14		4/4/2014	NE	36.91	NA	NA	NA	399.54		0.1	*
3Q14		7/2/2014	NE	34.94	NA	NA	NA	401.51		0.8	*
4Q14		10/3/2014	NE	33.85	NA	NA	NA	402.60		0.2	*
1Q15	436.63	1/12/2015	NE	35.54	NA	NA	NA	401.09	399.19 - 379.19 (37.44 - 57.44)	0.0	*
2Q15		4/3/2015	NE	37.15	NA	NA	NA	399.48		2.3	*
3Q15		7/8/2015	NE	34.11	NA	NA	NA	402.52		1.6	*
4Q15		10/2/2015	NE	33.45	NA	NA	NA	403.18		1.3	*

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	WELL HEAD PID[3] (ppm)	COMMENTS
P-117											
1Q13	432.67	1/7/2013	NE	32.45	NA	NA	NA	400.22	399.74 - 379.74 (32.93 - 52.93)	0.0	*
2Q13		4/2/2013	NE	32.51	NA	NA	NA	400.16		75.8	*
3Q13		7/2/2013	NE	27.61	NA	NA	NA	405.06		0.0	*
4Q13		10/2/2013	NE	29.63	NA	NA	NA	403.04		0.0	*
1Q14		2/11/2014	NE	32.77	NA	NA	NA	399.90		0.6	*
2Q14		4/4/2014	NE	33.14	NA	NA	NA	399.53		0.0	
3Q14		7/2/2014	NE	31.10	NA	NA	NA	401.57		1.0	*
4Q14		10/3/2014	NE	30.03	NA	NA	NA	402.64		0.0	*
1Q15	432.71	1/12/2015	NE	35.54	NA	NA	NA	397.17	399.78 - 379.78 (32.93 - 52.93)	0.0	
2Q15		4/3/2015	NE	33.39	NA	NA	NA	399.32		2.8	
3Q15		7/8/2015	NE	30.16	NA	NA	NA	402.55		1.6	*
4Q15		10/2/2015	NE	29.64	NA	NA	NA	403.07		4.7	*
P-118											
1Q13	431.32	1/7/2013	NE	31.60	NA	NA	NA	399.72	400.20 - 384.27 (31.12 - 47.05)	0.0	
2Q13		4/2/2013	NE	31.53	NA	NA	NA	399.79		0.2	
3Q13		7/2/2013	NE	26.10	NA	NA	NA	405.22		0.0	*
4Q13		10/2/2013	NE	28.82	NA	NA	NA	402.50		0.0	*
1Q14		2/11/2014	NE	31.91	NA	NA	NA	399.41		5.3	
2Q14		4/4/2014	NE	32.11	NA	NA	NA	399.21		0.0	
3Q14		7/2/2014	NE	29.78	NA	NA	NA	401.54		0.8	*
4Q14		10/3/2014	NE	28.71	NA	NA	NA	402.61		0.5	*
1Q15	431.31	1/12/2015	NE	30.73	NA	NA	NA	400.58	400.19 - 384.26 (31.12 - 47.05)	0.0	*
2Q15		4/3/2015	NE	32.22	NA	NA	NA	399.09		0.0	
3Q15		7/8/2015	NE	28.19	NA	NA	NA	403.12		1.5	*
4Q15		10/2/2015	NE	28.59	NA	NA	NA	402.72		0.3	*
P-119											
1Q13	431.92	1/7/2013	NE	30.46	NA	NA	NA	401.46	401.25 - 385.32 (30.67 - 46.60)	0.0	*
2Q13		4/2/2013	NE	31.10	NA	NA	NA	400.82		0.4	
3Q13		7/2/2013	NE	27.48	NA	NA	NA	404.44		0.0	*
4Q13		10/2/2013	NE	28.09	NA	NA	NA	403.83		0.0	*
1Q14		2/11/2014	NE	31.03	NA	NA	NA	400.89		1.0	
2Q14		4/4/2014	NE	31.55	NA	NA	NA	400.37		0.0	
3Q14		7/2/2014	NE	30.06	NA	NA	NA	401.86		1.1	*
4Q14		10/3/2014	NE	29.14	NA	NA	NA	402.78		0.0	*
1Q15	431.90	1/12/2015	NE	30.61	NA	NA	NA	401.29	401.23 - 385.30 (30.67 - 46.60)	0.0	*
2Q15		4/3/2015	NE	32.15	NA	NA	NA	399.75		0.0	
3Q15		7/8/2015	NE	30.41	NA	NA	NA	401.49		0.2	*
4Q15		10/2/2015	NE	28.77	NA	NA	NA	403.13		0.0	*
P-120											
1Q13	432.78	1/7/2013	NE	31.00	NA	NA	NA	401.78	401.40 - 385.47 (31.38 - 47.31)	0.0	*
2Q13		4/2/2013	NE	31.42	NA	NA	NA	401.36		0.0	
3Q13		7/2/2013	NE	27.26	NA	NA	NA	405.52		0.0	*
4Q13		10/2/2013	NE	28.43	NA	NA	NA	404.35		0.0	*
1Q14		2/11/2014	NE	31.38	NA	NA	NA	401.40		1.0	
2Q14		4/4/2014	NE	32.01	NA	NA	NA	400.77		0.0	
3Q14		7/2/2014	NE	30.11	NA	NA	NA	402.67		1.0	*
4Q14		10/3/2014	NE	29.22	NA	NA	NA	403.56		0.9	*
1Q15	432.82	1/12/2015	NE	30.70	NA	NA	NA	402.12	401.44 - 385.51 (31.38 - 47.31)	0.0	*
2Q15		4/3/2015	NE	32.26	NA	NA	NA	400.56		0.0	
3Q15		7/8/2015	NE	29.79	NA	NA	NA	403.03		0.2	*
4Q15		10/2/2015	NE	28.85	NA	NA	NA	403.97		0.0	*
P-129											
1Q13	432.46	1/7/2013	NE	34.12	NA	NA	NA	398.34	400.49 - 384.56 (31.97 - 47.90)	0.0	
2Q13		4/2/2013	NE	33.30	NA	NA	NA	399.16		3.5	
3Q13		7/2/2013	NE	26.81	NA	NA	NA	405.65		0.0	*
4Q13		10/2/2013	NE	31.35	NA	NA	NA	401.11		0.0	*
1Q14		2/11/2014	NE	34.37	NA	NA	NA	398.09		1.6	
2Q14		4/4/2014	NE	34.27	NA	NA	NA	398.19		0.0	
3Q14		7/2/2014	NE	30.93	NA	NA	NA	401.53		0.7	*
4Q14		10/3/2014	NE	30.31	NA	NA	NA	402.15		0.0	*
1Q15	432.43	1/12/2015	NE	33.06	NA	NA	NA	399.37	400.46 - 384.53 (31.97 - 47.90)	0.0	
2Q15		4/3/2015	NE	34.38	NA	NA	NA	398.05		0.0	
3Q15		7/8/2015	NE	27.81	NA	NA	NA	404.62		0.0	*
4Q15		10/2/2015	NE	30.38	NA	NA	NA	402.05		0.0	*
GP-9-PZ											
1Q13	442.41	1/4/2013	NE	42.21	NA	NA	NA	400.20	404.81 - 394.81 (37.60 - 47.60)	0.0	
2Q13		4/2/2013	NE	42.90	NA	NA	NA	399.51		0.0	
3Q13		7/5/2013	NE	40.22	NA	NA	NA	402.19		0.0	
4Q13		10/2/2013	NE	40.98	NA	NA	NA	401.43		1.1	
1Q14		2/13/2014	NM	NM	NA	NA	NA	NA		NM	
2Q14		4/4/2014	NE	44.86	NA	NA	NA	397.55		0.5	
3Q14		7/2/2014	NE	42.66	NA	NA	NA	399.75		0.0	
4Q14		10/3/2014	NE	41.85	NA	NA	NA	400.56		0.0	
1Q15	442.56	1/8/2015	NE	42.76	NA	NA	NA	399.80	404.96 - 394.96 (37.60 - 47.60)	217.3	
2Q15		4/1/2015	NE	44.24	NA	NA	NA	398.32		0.0	
3Q15		7/9/2015	NE	43.69	NA	NA	NA	398.87		0.1	
4Q15		10/1/2015	NE	41.41	NA	NA	NA	401.15		0.0	

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	WELL HEAD PID[3] (ppm)	COMMENTS
ROST-3-MW											
1Q13	442.29	1/2/2013	NE	41.50	NA	NA	NA	400.79	404.48 - 394.48 (37.81 - 47.81)	0.0	2" Well Installed to replace ROST-3-PZ
2Q13		4/1/2013	NE	42.26	NA	NA	NA	400.03		5.6	
3Q13		7/1/2013	NE	39.83	NA	NA	NA	402.46		147.0	
4Q13		10/1/2013	NE	39.98	NA	NA	NA	402.31		267.2	
1Q14		2/10/2014	NE	42.20	NA	NA	NA	400.09		2.6	
2Q14		4/1/2014	NE	42.68	NA	NA	NA	399.61		1.2	
3Q14		7/1/2014	NE	42.10	NA	NA	NA	400.19		0.1	
4Q14		10/1/2014	NE	41.16	NA	NA	NA	401.13		0.0	
1Q15		1/5/2015	NE	41.82	NA	NA	NA	400.47		167.7	
2Q15		4/2/2015	NE	43.23	NA	NA	NA	399.06		0.0	
3Q15		7/6/2015	NE	42.69	NA	NA	NA	399.60		5.7	
4Q15		10/1/2015	NE	40.45	NA	NA	NA	401.84		0.1	
ROST-4-PZ											
1Q13	442.13	1/2/2013	NE	40.52	NA	NA	NA	401.61	407.20 - 397.20 (34.93 - 44.93)	0.0	
2Q13		4/1/2013	41.38	41.46	400.67	400.75	0.08	400.73		0.3	
3Q13		7/1/2013	NE	39.60	NA	NA	NA	402.53		0.0	
4Q13		10/1/2013	NE	38.88	NA	NA	NA	403.25		38.9	
1Q14		2/10/2014	NE	40.97	NA	NA	NA	401.16		1.2	
2Q14		4/1/2014	NE	41.22	NA	NA	NA	400.91		0.3	
3Q14		7/1/2014	NE	41.42	NA	NA	NA	400.71		0.0	
4Q14		10/1/2014	NE	40.25	NA	NA	NA	401.88		4.4	
1Q15		1/5/2015	NE	40.80	NA	NA	NA	401.33		10.3	
2Q15		4/2/2015	NE	41.75	NA	NA	NA	400.38		0.0	
3Q15		7/6/2015	NE	41.86	NA	NA	NA	400.27		0.0	
4Q15		10/1/2015	NE	39.70	NA	NA	NA	402.43		0.6	
ROST-4-PZ(A)											
1Q13	442.11	1/2/2013	NE	40.60	NA	NA	NA	401.51	407.34 - 397.34 (34.77 - 44.77)	0.0	
2Q13		4/1/2013	NE	41.86	NA	NA	NA	400.25		0.7	
3Q13		7/1/2013	NE	39.66	NA	NA	NA	402.45		0.2	
4Q13		10/1/2013	NE	38.76	NA	NA	NA	403.35		0.0	
1Q14		2/10/2014	NE	41.29	NA	NA	NA	400.82		0.6	
2Q14		4/1/2014	NE	41.81	NA	NA	NA	400.30		0.4	
3Q14		7/1/2014	NE	39.69	NA	NA	NA	402.42		0.0	
4Q14		10/1/2014	NE	39.74	NA	NA	NA	402.37		0.0	
1Q15		1/5/2015	NE	41.26	NA	NA	NA	400.85		0.0	
2Q15		4/2/2015	NE	42.45	NA	NA	NA	399.66		0.0	
3Q15		7/6/2015	NE	42.07	NA	NA	NA	400.04		0.0	
4Q15		10/1/2015	NE	39.82	NA	NA	NA	402.29		0.6	
ROST-4-PZ(B)											
1Q13	442.38	1/2/2013	NE	40.61	NA	NA	NA	401.77	407.33 - 397.33 (35.05 - 45.05)	0.0	
2Q13		4/1/2013	NE	41.55	NA	NA	NA	400.83		0.5	
3Q13		7/1/2013	NE	39.52	NA	NA	NA	402.86		0.0	
4Q13		10/1/2013	NE	38.58	NA	NA	NA	403.80		1.1	
1Q14		2/10/2014	NE	40.84	NA	NA	NA	401.54		0.3	
2Q14		4/1/2014	NE	41.18	NA	NA	NA	401.20		0.0	
3Q14		7/1/2014	NE	41.38	NA	NA	NA	401.00		0.0	
4Q14		10/1/2014	NE	40.00	NA	NA	NA	402.38		0.0	
1Q15		1/5/2015	NE	40.55	NA	NA	NA	401.83		0.0	
2Q15		4/2/2015	NE	42.22	NA	NA	NA	400.16		6.1	
3Q15		7/6/2015	NE	41.84	NA	NA	NA	400.54		0.0	
4Q15		10/1/2015	NE	39.36	NA	NA	NA	403.02		0.6	
ROST-4-PZ(C)											
1Q13	442.66	1/2/2013	NE	41.42	NA	NA	NA	401.24	407.71 - 397.71 (34.95 - 44.95)	0.0	
2Q13		4/1/2013	NE	42.34	NA	NA	NA	400.32		0.0	
3Q13		7/1/2013	NE	40.57	NA	NA	NA	402.09		0.2	
4Q13		10/1/2013	NE	39.77	NA	NA	NA	402.89		0.0	
1Q14		2/10/2014	NE	41.92	NA	NA	NA	400.74		0.2	
2Q14		4/1/2014	NE	42.19	NA	NA	NA	400.47		0.0	
3Q14		7/1/2014	NE	42.38	NA	NA	NA	400.28		0.0	
4Q14		10/1/2014	NE	41.28	NA	NA	NA	401.38		0.0	
1Q15		1/5/2015	NE	41.74	NA	NA	NA	400.92		0.0	
2Q15		4/2/2015	NE	42.80	NA	NA	NA	399.86		0.0	
3Q15		7/6/2015	NE	42.78	NA	NA	NA	399.88		1.1	
4Q15		10/1/2015	NE	40.63	NA	NA	NA	402.03		0.6	
ROST-4-PZ(D)											
1Q13	442.98	1/2/2013	NE	NE	NA	NA	NA	NA	408.01 - 398.01 (34.97 - 44.97)	0.0	Well Dry
2Q13		4/1/2013	NE	NE	NA	NA	NA	NA		3.4	Well Dry
3Q13		7/1/2013	NE	NE	NA	NA	NA	NA		0.0	Well Dry
4Q13		10/1/2013	NE	39.63	NA	NA	NA	403.35		0.0	
1Q14		2/10/2014	NE	41.78	NA	NA	NA	401.20		0.6	
2Q14		4/1/2014	NE	42.10	NA	NA	NA	400.88		0.6	
3Q14		7/1/2014	NE	42.22	NA	NA	NA	400.76		0.0	
4Q14		10/1/2014	NE	41.06	NA	NA	NA	401.92		0.0	
1Q15		1/5/2015	NE	41.54	NA	NA	NA	401.44		43.0	
2Q15		4/2/2015	42.59	42.65	400.33	400.39	0.06	400.38		0.0	
3Q15		7/6/2015	NE	42.65	NA	NA	NA	400.33		0.3	
4Q15		10/1/2015	NE	40.48	NA	NA	NA	402.50		0.6	

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	WELL HEAD PID[3] (ppm)	COMMENTS
ROST-4-PZ(E)											
1Q13	441.96	1/2/2013	NE	40.02	NA	NA	NA	401.94	407.21 - 397.21 (34.75 - 44.75)	0.0	
2Q13		4/1/2013	NE	40.80	NA	NA	NA	401.16		1.2	
3Q13		7/1/2013	NE	39.58	NA	NA	NA	402.38		0.0	
4Q13		10/1/2013	NE	38.70	NA	NA	NA	403.26		1.9	
1Q14		2/10/2014	40.60	40.62	401.34	401.36	0.02	401.36		0.3	
2Q14		4/1/2014	NE	40.38	NA	NA	NA	401.58		0.0	
3Q14		7/1/2014	NE	40.59	NA	NA	NA	401.37		1.1	
4Q14		10/1/2014	NE	39.71	NA	NA	NA	402.25		0.0	
1Q15		1/5/2015	NE	39.95	NA	NA	NA	402.01		1.9	
2Q15		4/2/2015	NE	41.22	NA	NA	NA	400.74		0.0	
3Q15		7/6/2015	41.41	41.44	400.52	400.55	0.03	400.54		0.0	
4Q15		10/1/2015	NE	39.41	NA	NA	NA	402.55		0.6	
ROST-4-PZ(F)											
1Q13	442.12	1/2/2013	NE	40.30	NA	NA	NA	401.82	407.59 - 397.59 (34.53 - 44.53)	0.0	
2Q13		4/1/2013	NE	41.12	NA	NA	NA	401.00		0.8	
3Q13		7/1/2013	NE	39.67	NA	NA	NA	402.45		0.0	
4Q13		10/1/2013	NE	38.83	NA	NA	NA	403.29		1.0	
1Q14		2/10/2014	NE	40.22	NA	NA	NA	401.90		0.3	
2Q14		4/1/2014	NE	40.45	NA	NA	NA	401.67		1.0	
3Q14		7/1/2014	NE	40.51	NA	NA	NA	401.61		2.4	
4Q14		10/1/2014	NE	39.79	NA	NA	NA	402.33		0.0	
1Q15		1/5/2015	39.92	39.93	402.19	402.20	0.01	402.20		0.0	
2Q15		4/2/2015	NE	40.54	NA	NA	NA	401.58		0.0	
3Q15		7/6/2015	NE	40.81	NA	NA	NA	401.31		0.0	
4Q15		10/1/2015	NE	39.46	NA	NA	NA	402.66		0.5	
ROST-4-PZ(G)											
1Q13	442.13	1/2/2013	NE	41.49	NA	NA	NA	400.64	407.85 - 397.85 (34.28 - 44.28)	0.0	
2Q13		4/1/2013	NE	42.14	NA	NA	NA	399.99		0.0	
3Q13		7/1/2013	NE	39.68	NA	NA	NA	402.45		49.3	
4Q13		10/1/2013	NE	40.22	NA	NA	NA	401.91		40.6	
1Q14		2/10/2014	NE	42.35	NA	NA	NA	399.78		0.1	
2Q14		4/1/2014	NE	42.79	NA	NA	NA	399.34		0.5	
3Q14		7/1/2014	NE	42.08	NA	NA	NA	400.05		0.2	
4Q14		10/1/2014	NE	41.26	NA	NA	NA	400.87		0.0	
1Q15		1/5/2015	NE	41.97	NA	NA	NA	400.16		3.3	
2Q15		4/2/2015	NE	43.29	NA	NA	NA	398.84		0.0	
3Q15		7/6/2015	NE	42.80	NA	NA	NA	399.33		0.0	
4Q15		10/1/2015	NE	40.55	NA	NA	NA	401.58		0.1	
ROST-5-PZ											
1Q13	442.22	1/2/2013	NE	NE	NA	NA	NA	NA	429.02 - 419.02 (13.20 - 23.20)	0.0	Well Dry
2Q13		4/1/2013	NE	NE	NA	NA	NA	NA		0.0	Well Dry
3Q13		7/1/2013	NE	22.98	NA	NA	NA	419.24		0.6	
4Q13		10/1/2013	NE	NE	NA	NA	NA	NA		0.0	Well Dry
1Q14		2/10/2014	NE	NE	NA	NA	NA	NA		0.2	Well Dry
2Q14		4/3/2014	NE	NE	NA	NA	NA	NA		5.1	Well Dry
3Q14		7/2/2014	NE	NE	NA	NA	NA	NA		0.0	Well Dry
4Q14		10/1/2014	NE	NE	NA	NA	NA	NA		0.0	Well Dry
1Q15		1/5/2015	NE	NE	NA	NA	NA	NA		3.3	Well Dry
2Q15		4/2/2015	NE	NE	NA	NA	NA	NA		0.0	Well Dry
3Q15		7/6/2015	NE	NE	NA	NA	NA	NA		0.0	Well Dry
4Q15		10/1/2015	NE	NE	NA	NA	NA	NA		0.1	Well Dry
ROST-7-PZ											
1Q13	442.19	1/3/2013	NM	NM	NA	NA	NA	NA	422.19 - 412.19 (20.00 - 30.00)	NM	
2Q13		4/1/2013	NE	25.51	NA	NA	NA	416.68		15.0	
3Q13		7/5/2013	NE	22.28	NA	NA	NA	419.91		12.5	
4Q13		10/1/2013	NE	22.41	NA	NA	NA	419.78		0.0	
1Q14		2/10/2014	NE	23.49	NA	NA	NA	418.70		0.3	
2Q14		4/3/2014	NE	23.88	NA	NA	NA	418.31		1.4	
3Q14		7/1/2014	NE	22.88	NA	NA	NA	419.31		0.0	
4Q14		10/1/2014	NE	21.81	NA	NA	NA	420.38		0.0	
1Q15		1/6/2015	NE	NE	NA	NA	NA	NA		0.0	Well Dry
2Q15		4/2/2015	NE	21.71	NA	NA	NA	420.48		0.0	
3Q15		7/6/2015	NE	20.54	NA	NA	NA	421.65		0.1	
4Q15		10/1/2015	NE	20.59	NA	NA	NA	421.60		0.3	
ROST-10-PZ											
1Q13	444.51	1/3/2013	NE	NE	NA	NA	NA	NA	434.51 - 424.51 (10.00 - 20.00)	0.0	Well Dry
2Q13		4/1/2013	NE	NE	NA	NA	NA	NA		1.5	Well Dry
3Q13		7/1/2013	NE	NE	NA	NA	NA	NA		0.5	Well Dry
4Q13		10/1/2013	NE	NE	NA	NA	NA	NA		0.0	Well Dry
1Q14		2/10/2014	NE	NE	NA	NA	NA	NA		0.7	Well Dry
2Q14		4/2/2014	NE	NE	NA	NA	NA	NA		0.1	Well Dry
3Q14		7/1/2014	NE	NE	NA	NA	NA	NA		0.0	Well Dry
4Q14		10/1/2014	NE	NE	NA	NA	NA	NA		0.0	Well Dry
1Q15		1/5/2015	NE	NE	NA	NA	NA	NA		0.0	Well Dry
2Q15		4/2/2015	NE	NE	NA	NA	NA	NA		0.0	Well Dry
3Q15		7/6/2015	NE	NE	NA	NA	NA	NA		0.0	Well Dry
4Q15		10/1/2015	NE	NE	NA	NA	NA	NA		0.1	Well Dry

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	WELL HEAD PID[3] (ppm)	COMMENTS
ROST-21-PZ											
1Q13	443.72	1/3/2013	NE	NE	NA	NA	NA	NA	433.72 - 423.72 (10.00 - 20.00)	0.0	Well Dry
2Q13		4/1/2013	NE	NE	NA	NA	NA	NA		4.6	Well Dry
3Q13		7/1/2013	NE	18.42	NA	NA	NA	425.30		0.2	
4Q13		10/1/2013	NE	19.38	NA	NA	NA	424.34		1.9	
1Q14		2/10/2014	NE	NE	NA	NA	NA	NA		4.9	Well Dry
2Q14		4/1/2014	NE	NE	NA	NA	NA	NA		0.5	Well Dry
3Q14		7/1/2014	NE	19.13	NA	NA	NA	424.59		0.0	
4Q14		10/1/2014	NE	19.38	NA	NA	NA	424.34		0.0	
1Q15		1/5/2015	NE	19.62	NA	NA	NA	424.10		0.0	
2Q15		4/2/2015	NE	19.70	NA	NA	NA	424.02		0.0	
3Q15		7/6/2015	NE	18.88	NA	NA	NA	424.84		0.0	
4Q15		10/1/2015	NE	19.44	NA	NA	NA	424.28		0.2	
S-1											
1Q13	443.79	1/4/2013	NE	43.35	NA	NA	NA	400.44	Unknown	0.0	
2Q13		4/1/2013	NE	44.20	NA	NA	NA	399.59		15.1	
3Q13		7/5/2013	NE	42.12	NA	NA	NA	401.67		126.0	
4Q13		10/2/2013	NE	41.99	NA	NA	NA	401.80		52.0	
1Q14		2/12/2014	43.95	43.96	399.83	399.84	0.01	399.84		123.9	
2Q14		4/4/2014	NE	45.28	NA	NA	NA	398.51		0.2	
3Q14		7/2/2014	44.00	44.01	399.78	399.79	0.01	399.79		195.7	
4Q14		10/2/2014	42.80	42.82	400.97	400.99	0.02	400.99		256.4	
1Q15	443.90	1/5/2015	43.77	45.18	398.72	400.13	1.41	399.85		225.8	
2Q15		4/1/2015	45.40	46.07	397.83	398.50	0.67	398.37		201.5	
3Q15		7/7/2015	45.37	45.68	398.22	398.53	0.31	398.47		30.5	
4Q15		10/1/2015	42.82	42.90	401.00	401.08	0.08	401.06		138.0	
T-1											
1Q13	445.40	1/3/2013	NE	44.17	NA	NA	NA	401.23	398.40 - 388.40 (47.00 - 57.00)	0.0	*
2Q13		4/2/2013	NE	44.94	NA	NA	NA	400.46		0.3	*
3Q13		7/3/2013	NE	42.85	NA	NA	NA	402.55		4.2	*
4Q13		10/1/2013	NE	42.61	NA	NA	NA	402.79		1.5	*
1Q14		2/11/2014	NE	44.35	NA	NA	NA	401.05		1.1	*
2Q14		4/1/2014	NE	44.84	NA	NA	NA	400.56		0.0	*
3Q14		7/1/2014	NE	44.87	NA	NA	NA	400.53		0.0	*
4Q14		10/2/2014	NE	43.94	NA	NA	NA	401.46		0.2	*
1Q15		1/6/2015	NE	44.51	NA	NA	NA	400.89		0.2	*
2Q15		4/3/2015	NE	45.35	NA	NA	NA	400.05		0.0	*
3Q15		7/7/2015	NE	44.86	NA	NA	NA	400.54		0.0	*
4Q15		10/1/2015	NE	42.89	NA	NA	NA	402.51		0.0	*
T-2											
1Q13	443.12	1/3/2013	NE	43.39	NA	NA	NA	399.74	392.63 - 372.48 (50.49 - 70.64)	0.0	*
2Q13		4/2/2013	NE	43.35	NA	NA	NA	399.78		0.7	*
3Q13		7/3/2013	NE	41.48	NA	NA	NA	401.64		0.0	*
4Q13		10/1/2013	NE	41.34	NA	NA	NA	401.78		0.0	*
1Q14		2/11/2014	NE	42.83	NA	NA	NA	400.30		0.7	*
2Q14		4/1/2014	NE	43.69	NA	NA	NA	399.44		0.0	*
3Q14		7/1/2014	NE	43.11	NA	NA	NA	400.02		0.0	*
4Q14		10/2/2014	NE	42.36	NA	NA	NA	400.76		0.0	*
1Q15	443.21	1/6/2015	NE	42.77	NA	NA	NA	400.44	392.72 - 372.56 (50.49 - 70.64)	0.2	*
2Q15		4/3/2015	NE	43.78	NA	NA	NA	399.43		0.0	*
3Q15		7/7/2015	NE	43.32	NA	NA	NA	399.89		0.0	*
4Q15		10/1/2015	NE	41.55	NA	NA	NA	401.66		0.0	*
T-3											
1Q13	450.91	1/4/2013	NE	51.55	NA	NA	NA	399.36	403.65 - 388.65 (47.26 - 62.26)	2.1	
2Q13		4/1/2013	NE	52.35	NA	NA	NA	398.56		0.0	
3Q13		7/3/2013	NE	50.95	NA	NA	NA	399.96		4.8	
4Q13		10/1/2013	NE	50.78	NA	NA	NA	400.13		10.2	
1Q14		2/12/2014	NE	52.01	NA	NA	NA	398.90		56.2	
2Q14		4/1/2014	NE	53.18	NA	NA	NA	397.73		0.0	
3Q14		7/2/2014	NE	52.21	NA	NA	NA	398.70		0.8	
4Q14		10/2/2014	NE	51.58	NA	NA	NA	399.33		3.4	
1Q15	451.07	1/9/2015	NE	51.44	NA	NA	NA	399.63	403.81 - 388.81 (47.26 - 62.26)	2.5	
2Q15	449.03	4/3/2015	NE	50.57	NA	NA	NA	398.46	403.81 - 388.81 (45.22 - 60.22)	0.1	Well casing trimmed to make well more accessible
3Q15		7/7/2015	NE	50.18	NA	NA	NA	398.85		0.0	
4Q15		10/2/2015	NE	48.64	NA	NA	NA	400.39		0.2	
T-4											
1Q13	447.95	1/4/2013	NE	48.60	NA	NA	NA	399.35	398.24 - 383.24 (49.71 - 64.71)	0.0	*
2Q13		4/1/2013	NE	49.26	NA	NA	NA	398.69		0.0	*
3Q13		7/3/2013	NE	49.33	NA	NA	NA	398.62		1.1	*
4Q13		10/1/2013	NE	47.84	NA	NA	NA	400.11		0.1	*
1Q14		2/12/2014	NE	49.97	NA	NA	NA	397.98		4.5	
2Q14		4/4/2014	NE	52.42	NA	NA	NA	395.53		0.3	
3Q14		7/1/2014	NE	49.71	NA	NA	NA	398.24		0.0	
4Q14		10/2/2014	NE	49.63	NA	NA	NA	398.32		0.1	*
1Q15	448.03	1/9/2015	NE	49.11	NA	NA	NA	398.92	398.32 - 383.32 (49.71 - 64.71)	1.1	*
2Q15	446.63	4/6/2015	NE	49.83	NA	NA	NA	396.80	398.32 - 383.32 (48.31 - 63.31)	0.3	Well casing trimmed to make well more accessible
3Q15		7/7/2015	NE	48.26	NA	NA	NA	398.37		0.0	*
4Q15		10/2/2015	NE	46.91	NA	NA	NA	399.72		0.0	*

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	WELL HEAD PID[3] (ppm)	COMMENTS
T-5											
1Q13	443.46	1/4/2013	NE	42.57	NA	NA	NA	400.89	395.13 - 378.58 (48.33 - 64.88)	0.0	*
2Q13		4/1/2013	NE	43.42	NA	NA	NA	400.04		0.0	*
3Q13		7/5/2013	NE	41.67	NA	NA	NA	401.79		0.0	*
4Q13		10/1/2013	NE	41.14	NA	NA	NA	402.32		18.2	*
1Q14		2/13/2014	NE	42.96	NA	NA	NA	400.50		174.5	*
2Q14		4/4/2014	NE	44.53	NA	NA	NA	398.93		8.0	*
3Q14		7/2/2014	NE	43.47	NA	NA	NA	399.99		5.4	*
4Q14		10/2/2014	NE	42.44	NA	NA	NA	401.02		0.5	*
1Q15	443.47	1/9/2015	NE	42.54	NA	NA	NA	400.93	395.14 - 378.59 (48.33 - 64.88)	1.9	*
2Q15		4/1/2015	NE	44.23	NA	NA	NA	399.24		0.8	*
3Q15		7/7/2015	NE	44.19	NA	NA	NA	399.28		20.0	*
4Q15		10/1/2015	NE	41.89	NA	NA	NA	401.58		5.9	*
T-6											
1Q13	446.55	1/4/2013	NE	45.84	NA	NA	NA	400.71	394.79 - 380.54 (51.76 - 66.01)	0.0	*
2Q13		4/2/2013	NE	46.69	NA	NA	NA	399.86		0.0	*
3Q13		7/5/2013	NE	43.81	NA	NA	NA	402.74		0.0	*
4Q13		10/1/2013	NE	44.28	NA	NA	NA	402.27		10.0	*
1Q14		2/12/2014	NE	46.63	NA	NA	NA	399.92		6.1	*
2Q14		4/4/2014	NE	47.43	NA	NA	NA	399.12		2.3	*
3Q14		7/1/2014	NE	46.23	NA	NA	NA	400.32		0.0	*
4Q14		10/3/2014	NE	45.18	NA	NA	NA	401.37		0.6	*
1Q15	446.61	1/8/2015	NE	46.78	NA	NA	NA	399.83	394.85 - 380.60 (51.76 - 66.01)	0.2	*
2Q15		4/1/2015	NE	48.56	NA	NA	NA	398.05		0.0	*
3Q15		7/9/2015	NE	47.97	NA	NA	NA	398.64		0.3	*
4Q15		10/1/2015	NE	45.20	NA	NA	NA	401.41		0.2	*
T-7											
1Q13	444.01	1/2/2013	41.66	41.67	402.34	402.35	0.01	402.35	395.29 - 380.29 (48.72 - 63.72)	2.4	*
2Q13		4/2/2013	NE	42.78	NA	NA	NA	401.23		9.2	*
3Q13		7/2/2013	NE	40.21	NA	NA	NA	403.80		0.0	*
4Q13		10/2/2013	NE	39.72	NA	NA	NA	404.29		5.1	*
1Q14		2/11/2014	NE	42.60	NA	NA	NA	401.41		4.7	*
2Q14		4/4/2014	NE	43.34	NA	NA	NA	400.67		2.5	*
3Q14		7/3/2014	NE	42.36	NA	NA	NA	401.65		2.4	*
4Q14		10/3/2014	NE	41.33	NA	NA	NA	402.68		6.9	*
1Q15	444.04	1/9/2015	NE	42.58	NA	NA	NA	401.46	395.32 - 380.32 (48.72 - 63.72)	1.8	*
2Q15		4/3/2015	NE	44.17	NA	NA	NA	399.87		5.7	*
3Q15		7/7/2015	NE	43.24	NA	NA	NA	400.80		3.8	*
4Q15		10/2/2015	NE	41.09	NA	NA	NA	402.95		15.6	*
T-12											
1Q13	444.69	1/4/2013	NE	44.65	NA	NA	NA	400.04	397.86 - 371.86 (46.83 - 72.83)	0.2	*
2Q13		4/2/2013	NE	45.19	NA	NA	NA	399.50		0.0	*
3Q13		7/5/2013	NE	43.59	NA	NA	NA	401.10		1.4	*
4Q13		10/1/2013	NE	43.64	NA	NA	NA	401.05		5.5	*
1Q14		2/13/2014	NE	45.26	NA	NA	NA	399.43		0.5	*
2Q14		4/4/2014	NE	46.38	NA	NA	NA	398.31		5.1	*
3Q14		7/1/2014	NE	45.31	NA	NA	NA	399.38		0.0	*
4Q14		10/3/2014	NE	44.63	NA	NA	NA	400.06		2.7	*
1Q15	444.80	1/8/2015	NE	44.92	NA	NA	NA	399.88	397.97 - 371.97 (46.83 - 72.83)	2.0	*
2Q15		4/1/2015	NE	46.73	NA	NA	NA	398.07		0.5	*
3Q15		7/9/2015	NE	46.20	NA	NA	NA	398.60		4.4	*
4Q15		10/1/2015	NE	43.79	NA	NA	NA	401.01		3.1	*
T-13											
1Q13	443.46	1/2/2013	NE	41.96	NA	NA	NA	401.50	395.96 - 369.96 (47.50 - 73.50)	0.0	*
2Q13		4/3/2013	NE	42.96	NA	NA	NA	400.50		0.0	*
3Q13		7/5/2013	NE	40.79	NA	NA	NA	402.67		0.0	*
4Q13		10/3/2013	NE	40.72	NA	NA	NA	402.74		0.0	*
1Q14		2/10/2014	NE	42.54	NA	NA	NA	400.92		0.0	*
2Q14		4/4/2014	NE	43.19	NA	NA	NA	400.27		0.4	*
3Q14		7/1/2014	NE	42.79	NA	NA	NA	400.67		0.0	*
4Q14		10/1/2014	NE	41.98	NA	NA	NA	401.48		0.0	*
1Q15	443.96	1/5/2015	NE	42.41	NA	NA	NA	401.55	396.46 - 370.46 (47.50 - 73.50)	0.0	*
2Q15		4/2/2015	NE	43.45	NA	NA	NA	400.51		0.0	*
3Q15		7/8/2015	NE	42.90	NA	NA	NA	401.06		0.1	*
4Q15		10/1/2015	NE	41.15	NA	NA	NA	402.81		0.0	*
T-15											
1Q13	445.03	1/3/2013	NE	44.24	NA	NA	NA	400.79	396.99 - 370.99 (48.04 - 74.04)	0.0	*
2Q13		4/2/2013	NE	45.11	NA	NA	NA	399.92		0.0	*
3Q13		7/3/2013	NE	43.58	NA	NA	NA	401.45		0.2	*
4Q13		10/1/2013	NE	43.48	NA	NA	NA	401.55		11.5	*
1Q14		2/11/2014	NE	44.75	NA	NA	NA	400.28		0.5	*
2Q14		4/1/2014	NE	45.69	NA	NA	NA	399.34		0.0	*
3Q14		7/1/2014	NE	45.12	NA	NA	NA	399.91		0.0	*
4Q14		10/1/2014	NE	44.41	NA	NA	NA	400.62		0.0	*
1Q15	445.14	1/6/2015	NE	44.68	NA	NA	NA	400.46	397.10 - 371.10 (48.04 - 74.04)	0.1	*
2Q15		4/3/2015	NE	45.58	NA	NA	NA	399.56		0.0	*
3Q15		7/7/2015	NE	44.93	NA	NA	NA	400.21		0.0	*
4Q15		10/2/2015	NE	43.54	NA	NA	NA	401.60		0.0	*

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	WELL HEAD PID[3] (ppm)	COMMENTS
T-17											
1Q13	445.90	1/3/2013	NE	42.70	NA	NA	NA	403.20	401.80 - 375.80 (44.10 - 70.10)	0.0	*
2Q13		4/2/2013	NE	43.61	NA	NA	NA	402.29		0.0	*
3Q13		7/3/2013	NE	42.34	NA	NA	NA	403.56		1.3	*
4Q13		10/1/2013	NE	42.46	NA	NA	NA	403.44		0.0	*
1Q14		2/11/2014	NE	43.93	NA	NA	NA	401.97		2.1	*
2Q14		4/1/2014	NE	45.04	NA	NA	NA	400.86		0.0	
3Q14		7/3/2014	NE	44.50	NA	NA	NA	401.40		0.0	
4Q14		10/1/2014	NE	44.00	NA	NA	NA	401.90		0.0	*
1Q15	446.01	1/6/2015	NE	43.75	NA	NA	NA	402.26	401.91 - 375.91 (44.10 - 70.10)	0.1	*
2Q15		4/3/2015	NE	44.17	NA	NA	NA	401.84		0.6	
3Q15		7/7/2015	NE	43.22	NA	NA	NA	402.79		0.0	*
4Q15		10/2/2015	NE	42.29	NA	NA	NA	403.72		0.1	*
T-19											
1Q13	446.71	1/4/2013	NE	47.44	NA	NA	NA	399.27	395.94 - 369.94 (50.77 - 76.77)	0.0	*
2Q13		4/1/2013	NE	48.09	NA	NA	NA	398.62		0.7	*
3Q13		7/3/2013	NE	48.04	NA	NA	NA	398.67		37.2	*
4Q13		10/1/2013	NE	46.40	NA	NA	NA	400.31		0.8	*
1Q14		2/12/2014	NE	48.54	NA	NA	NA	398.17		24.3	*
2Q14		4/4/2014	NE	50.98	NA	NA	NA	395.73		11.7	
3Q14		7/1/2014	NE	48.42	NA	NA	NA	398.29		4.6	*
4Q14		10/2/2014	NE	48.28	NA	NA	NA	398.43		20.1	*
1Q15	446.79	1/9/2015	NE	47.58	NA	NA	NA	399.21	396.02 - 370.02 (50.77 - 76.77)	1.4	*
2Q15		4/6/2015	NE	48.84	NA	NA	NA	397.95		51.2	*
3Q15		7/7/2015	NE	48.40	NA	NA	NA	398.39		21.6	*
4Q15		10/2/2015	NE	46.97	NA	NA	NA	399.82		8.1	*
T-21											
1Q13	444.00	1/2/2013	NE	33.96	NA	NA	NA	410.04	412.04 - 386.04 (31.96 - 57.96)	0.0	
2Q13		4/2/2013	NE	34.98	NA	NA	NA	409.02		0.4	
3Q13		7/2/2013	NE	33.45	NA	NA	NA	410.55		0.0	
4Q13		10/2/2013	NE	32.82	NA	NA	NA	411.18		0.0	
1Q14		2/11/2014	NE	34.47	NA	NA	NA	409.53		0.2	
2Q14		4/4/2014	NE	35.28	NA	NA	NA	408.72		0.2	
3Q14		7/3/2014	NE	34.83	NA	NA	NA	409.17		0.0	
4Q14		10/3/2014	NE	34.47	NA	NA	NA	409.53		0.1	
1Q15	443.99	1/9/2015	NE	34.26	NA	NA	NA	409.73	412.03 - 386.03 (31.96 - 57.96)	0.0	
2Q15		4/3/2015	NE	34.80	NA	NA	NA	409.19		0.0	
3Q15		7/7/2015	NE	33.88	NA	NA	NA	410.11		0.0	
4Q15		10/2/2015	NE	32.70	NA	NA	NA	411.29		0.9	
T-22											
1Q13	442.21	1/2/2013	NE	35.62	NA	NA	NA	406.59	410.66 - 384.96 (31.55 - 57.25)	0.0	
2Q13		4/2/2013	NE	36.44	NA	NA	NA	405.77		0.1	
3Q13		7/2/2013	NE	34.04	NA	NA	NA	408.17		0.0	
4Q13		10/2/2013	NE	33.85	NA	NA	NA	408.36		0.0	
1Q14		2/11/2014	NE	35.93	NA	NA	NA	406.28		0.7	
2Q14		4/4/2014	NE	36.61	NA	NA	NA	405.60		0.2	
3Q14		7/3/2014	NE	35.96	NA	NA	NA	406.25		0.0	
4Q14		10/3/2014	NE	35.19	NA	NA	NA	407.02		0.1	
1Q15	442.19	1/9/2015	NE	35.29	NA	NA	NA	406.90	410.64 - 384.94 (31.55 - 57.25)	0.0	
2Q15		4/3/2015	NE	36.38	NA	NA	NA	405.81		0.2	
3Q15		7/7/2015	NE	35.51	NA	NA	NA	406.68		10.7	
4Q15		10/2/2015	NE	34.08	NA	NA	NA	408.11		0.0	
T-23											
1Q13	432.64	1/3/2013	NE	28.35	NA	NA	NA	404.29	405.41 - 379.41 (27.23 - 53.23)	0.0	
2Q13		4/2/2013	NE	29.04	NA	NA	NA	403.60		0.2	
3Q13		7/2/2013	NE	26.95	NA	NA	NA	405.69		0.0	*
4Q13		10/2/2013	NE	26.40	NA	NA	NA	406.24		0.0	*
1Q14		2/10/2014	NE	28.80	NA	NA	NA	403.84		0.1	
2Q14		4/4/2014	NE	29.45	NA	NA	NA	403.19		0.0	
3Q14		7/2/2014	NE	28.37	NA	NA	NA	404.27		0.8	
4Q14		10/2/2014	NE	27.29	NA	NA	NA	405.35		0.0	
1Q15	432.69	1/8/2015	NE	28.04	NA	NA	NA	404.65	405.46 - 379.46 (27.23 - 53.23)	0.9	
2Q15		4/6/2015	NM	NM	NA	NA	NA	NA		NM	Unable to locate well due to landscaping
3Q15		7/6/2015	NE	27.93	NA	NA	NA	404.76		0.3	
4Q15		10/2/2015	NE	26.97	NA	NA	NA	405.72		1.0	*
T-24											
1Q13	443.72	1/4/2013	NE	43.20	NA	NA	NA	400.52	402.22 - 376.57 (41.50 - 67.15)	4.3	
2Q13		4/2/2013	44.58	44.64	399.08	399.14	0.06	399.13		0.0	
3Q13		7/2/2013	42.16	42.55	401.17	401.56	0.39	401.48		10.0	
4Q13		10/2/2013	42.20	42.22	401.50	401.52	0.02	401.51		0.8	
1Q14		2/12/2014	43.35	45.60	398.12	400.37	2.25	399.92		8.2	
2Q14		4/4/2014	44.95	45.44	398.28	398.77	0.49	398.67		0.4	
3Q14		7/2/2014	44.09	44.26	399.46	399.63	0.17	399.59		0.0	
4Q14		10/3/2014	43.12	44.01	399.71	400.60	0.89	400.42		1.6	
1Q15	443.81	1/9/2015	43.75	45.39	398.42	400.06	1.64	399.73	402.31 - 376.66 (41.50 - 67.15)	3.4	
2Q15		4/1/2015	45.02	46.10	397.71	398.79	1.08	398.57		0.0	
3Q15		7/8/2015	NM	NM	NA	NA	NA	NA		NM	Unsafe condition
4Q15		10/1/2015	42.51	42.63	401.18	401.30	0.12	401.28		1.4	

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TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	WELL HEAD PID[3] (ppm)	COMMENTS
T-28											
1Q13	444.22	1/3/2013	NE	42.56	NA	NA	NA	401.66	Unknown	0.0	
2Q13		4/2/2013	NE	43.42	NA	NA	NA	400.80		0.0	
3Q13		7/3/2013	NE	42.40	NA	NA	NA	401.82		0.0	
4Q13		10/1/2013	NE	39.17	NA	NA	NA	405.05		2.1	
1Q14		2/11/2014	NE	43.72	NA	NA	NA	400.50		0.8	
2Q14		4/1/2014	NE	44.84	NA	NA	NA	399.38		0.0	
3Q14		7/1/2014	NE	44.05	NA	NA	NA	400.17		0.0	
4Q14		10/1/2014	NE	43.60	NA	NA	NA	400.62		0.0	
1Q15	444.43	1/6/2015	NE	43.46	NA	NA	NA	400.97		0.0	
2Q15		4/6/2015	NE	43.93	NA	NA	NA	400.50		1.1	
3Q15		7/8/2015	NE	NM	NA	NA	NA	NA		NM	Unsafe condition
4Q15		10/1/2015	NE	42.23	NA	NA	NA	402.20		0.3	
T-38											
1Q13	445.62	1/3/2013	NE	40.06	NA	NA	NA	405.56	396.48 - 376.48 (49.14 - 69.14)	0.0	*
2Q13		4/1/2013	NM	NM	NA	NA	NA	NA		NM	Unsafe condition
3Q13		7/3/2013	NM	NM	NA	NA	NA	NA		NM	Unsafe condition
4Q13		10/1/2013	NM	NM	NA	NA	NA	NA		NM	Unsafe condition
1Q14		2/12/2014	NE	41.21	NA	NA	NA	404.41		0.3	*
2Q14		4/3/2014	NE	41.38	NA	NA	NA	404.24		0.0	*
3Q14		7/1/2014	NE	41.39	NA	NA	NA	404.23		0.0	*
4Q14		10/2/2014	NE	40.96	NA	NA	NA	404.66		0.0	*
1Q15	445.67	1/9/2015	NE	39.96	NA	NA	NA	405.71	396.53 - 376.53 (49.14 - 69.14)	0.0	*
2Q15		4/3/2015	NE	40.64	NA	NA	NA	405.03		0.0	*
3Q15		7/7/2015	NE	39.66	NA	NA	NA	406.01		0.0	*
4Q15		10/1/2015	NE	38.67	NA	NA	NA	407.00		0.0	*
T-62											
1Q13	431.73	1/7/2013	NE	30.39	NA	NA	NA	401.34	412.02 - 382.02 (19.71 - 49.71)	0.0	
2Q13		4/2/2013	NE	30.80	NA	NA	NA	400.93		0.0	
3Q13		7/2/2013	NE	26.91	NA	NA	NA	404.82		0.0	
4Q13		10/2/2013	NE	27.81	NA	NA	NA	403.92		0.0	
1Q14		2/11/2014	NE	30.81	NA	NA	NA	400.92		31.0	
2Q14		4/7/2014	NE	31.37	NA	NA	NA	400.36		0.0	
3Q14		7/2/2014	NM	NM	NA	NA	NA	NA		NM	
4Q14		10/3/2014	NE	28.62	NA	NA	NA	403.11		0.1	
1Q15	431.99	1/12/2015	NE	30.15	NA	NA	NA	401.84	412.28 - 382.28 (19.71 - 49.71)	0.0	
2Q15		4/3/2015	NE	31.72	NA	NA	NA	400.27		0.0	
3Q15		7/8/2015	NE	29.43	NA	NA	NA	402.56		35.4	
4Q15		10/2/2015	NE	28.22	NA	NA	NA	403.77		0.0	
T-63											
1Q13	431.24	1/7/2013	NE	30.45	NA	NA	NA	400.79	411.26 - 381.26 (19.98 - 49.98)	0.0	
2Q13		4/2/2013	NE	30.61	NA	NA	NA	400.63		0.0	
3Q13		7/2/2013	NE	25.92	NA	NA	NA	405.32		0.0	
4Q13		10/2/2013	NE	27.63	NA	NA	NA	403.61		0.0	
1Q14		2/11/2014	NE	30.74	NA	NA	NA	400.50		0.5	
2Q14		4/7/2014	NE	30.80	NA	NA	NA	400.44		0.1	
3Q14		7/2/2014	NE	29.21	NA	NA	NA	402.03		1.0	
4Q14		10/3/2014	NE	28.11	NA	NA	NA	403.13		0.0	
1Q15	431.43	1/5/2015	NM	NM	NA	NA	NA	NA	411.45 - 381.45 (19.98 - 49.98)	NM	Unsafe condition
2Q15		4/3/2015	NE	31.52	NA	NA	NA	399.91		0.5	
3Q15		7/8/2015	NM	NM	NA	NA	NA	NA		NM	Unsafe condition
4Q15		10/2/2015	NE	27.78	NA	NA	NA	403.65		0.8	
T-64											
1Q13	428.80	1/7/2013	NE	28.89	NA	NA	NA	399.91	408.99 - 378.99 (19.81 - 49.81)	0.0	
2Q13		4/2/2013	NE	28.63	NA	NA	NA	400.17		0.1	
3Q13		7/2/2013	NE	23.15	NA	NA	NA	405.65		0.2	
4Q13		10/2/2013	NE	25.86	NA	NA	NA	402.94		0.0	
1Q14		2/11/2014	NE	29.03	NA	NA	NA	399.77		0.4	
2Q14		4/4/2014	NE	29.29	NA	NA	NA	399.51		0.0	
3Q14		7/2/2014	NE	26.90	NA	NA	NA	401.90		0.8	
4Q14		10/3/2014	NE	25.81	NA	NA	NA	402.99		0.0	
1Q15	428.93	1/12/2015	NE	27.96	NA	NA	NA	400.97	409.12 - 379.12 (19.81 - 49.81)	0.9	
2Q15		4/3/2015	NE	29.46	NA	NA	NA	399.47		1.6	
3Q15		7/8/2015	NE	25.37	NA	NA	NA	403.56		172.1	
4Q15		10/2/2015	NE	25.61	NA	NA	NA	403.32		1.2	
PZ-1-85											
1Q13	445.50	1/3/2013	NE	44.35	NA	NA	NA	401.15	369.70 - 359.70 (75.80 - 85.80)	0.0	*
2Q13		4/1/2013	NE	45.12	NA	NA	NA	400.38		0.6	*
3Q13		7/1/2013	NE	42.68	NA	NA	NA	402.82		0.0	*
4Q13		10/1/2013	NE	42.63	NA	NA	NA	402.87		1.5	*
1Q14		2/10/2014	NE	44.82	NA	NA	NA	400.68		1.9	*
2Q14		4/1/2014	NE	45.30	NA	NA	NA	400.20		3.3	*
3Q14		7/1/2014	NE	44.82	NA	NA	NA	400.68		4.4	*
4Q14	445.48	10/1/2014	NE	43.88	NA	NA	NA	401.60	369.70 - 359.70 (75.78 - 85.78)	0.1	*
1Q15		1/5/2015	NE	44.48	NA	NA	NA	401.00		0.0	*
2Q15		4/2/2015	NE	45.81	NA	NA	NA	399.67		0.6	*
3Q15		7/6/2015	NE	45.17	NA	NA	NA	400.31		0.0	*
4Q15		10/1/2015	NE	43.09	NA	NA	NA	402.39		0.6	*

TABLE 1a
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	WELL HEAD PID[3] (ppm)	COMMENTS
PZ-1-101											
1Q13	445.52	1/3/2013	NE	44.21	NA	NA	NA	401.31	354.52 - 344.52 (91.00 - 101.00)	0.0	*
2Q13		4/1/2013	NE	45.04	NA	NA	NA	400.48		0.1	*
3Q13		7/1/2013	NE	42.50	NA	NA	NA	403.02		0.0	*
4Q13		10/1/2013	NE	42.50	NA	NA	NA	403.02		0.6	*
1Q14		2/10/2014	NE	44.69	NA	NA	NA	400.83		0.4	*
2Q14		4/1/2014	NE	45.17	NA	NA	NA	400.35		0.0	*
3Q14		7/1/2014	NE	44.69	NA	NA	NA	400.83		3.6	*
4Q14	445.49	10/1/2014	NE	43.74	NA	NA	NA	401.75	354.52 - 344.52 (90.97 - 100.97)	0.1	*
1Q15		1/5/2015	NE	44.36	NA	NA	NA	401.13		0.0	*
2Q15		4/2/2015	NE	45.67	NA	NA	NA	399.82		0.0	*
3Q15		7/6/2015	NE	45.04	NA	NA	NA	400.45		0.0	*
4Q15		10/1/2015	NE	42.98	NA	NA	NA	402.51		0.6	*
PZ-2-70.5											
1Q13	443.15	1/3/2013	NE	42.40	NA	NA	NA	400.75	382.65 - 372.65 (60.50 - 70.50)	0.0	*
2Q13		4/1/2013	NE	43.03	NA	NA	NA	400.12		8.4	*
3Q13		7/1/2013	NE	40.13	NA	NA	NA	403.02		0.0	*
4Q13		10/1/2013	NE	40.22	NA	NA	NA	402.93		212.2	*
1Q14		2/10/2014	NE	43.11	NA	NA	NA	400.04		12.5	*
2Q14		4/2/2014	NE	43.53	NA	NA	NA	399.62		44.6	*
3Q14		7/1/2014	NE	42.58	NA	NA	NA	400.57		1.1	*
4Q14	443.06	10/1/2014	NE	41.50	NA	NA	NA	401.56	382.65 - 372.65 (60.41 - 70.41)	143.5	*
1Q15		1/5/2015	NE	42.60	NA	NA	NA	400.46		66.0	*
2Q15		4/2/2015	NE	44.18	NA	NA	NA	398.88		3.7	*
3Q15		7/6/2015	NE	43.43	NA	NA	NA	399.63		41.8	*
4Q15		10/1/2015	NE	41.07	NA	NA	NA	401.99		0.4	*
PZ-2-84											
1Q13	443.12	1/3/2013	NE	42.32	NA	NA	NA	400.80	371.12 - 359.12 (72.00 - 84.00)	0.0	*
2Q13		4/1/2013	NE	42.95	NA	NA	NA	400.17		0.0	*
3Q13		7/1/2013	NE	40.03	NA	NA	NA	403.09		0.4	*
4Q13		10/1/2013	NE	40.55	NA	NA	NA	402.57		0.0	*
1Q14		2/10/2014	NE	43.02	NA	NA	NA	400.10		0.5	*
2Q14		4/2/2014	NE	43.47	NA	NA	NA	399.65		0.0	*
3Q14		7/1/2014	NE	42.45	NA	NA	NA	400.67		1.2	*
4Q14	443.00	10/1/2014	NE	41.39	NA	NA	NA	401.61	371.12 - 359.12 (71.88 - 83.88)	0.0	*
1Q15		1/5/2015	NE	42.50	NA	NA	NA	400.50		85.5	*
2Q15		4/2/2015	NE	44.08	NA	NA	NA	398.92		5.2	*
3Q15		7/6/2015	NE	43.28	NA	NA	NA	399.72		44.7	*
4Q15		10/1/2015	NE	40.97	NA	NA	NA	402.03		0.2	*

NOTES:
1) Elevations presented in this table are relative to the NAVD 88 datum.
2) The corrected water level elevations presented in this table were corrected by a specific gravity of 0.80 for the wells in which LNAPL was identified.
3) PID values measured with a 10.6 electron volt (eV) lamp photoionization detector.
4) NA = Not Applicable; NE = Not Encountered; NM = Not Measured; BTOC = Below Top of Casing
5) * Indicates that the LNAPL and/or water level is above the top of the screened interval of the well.
6) Table includes comprehensive groundwater monitoring well gauging data from the combined Village of Roxana Interim Groundwater Monitoring Program and the WRB Refining LP Wood River Refinery Program.
7) Wells in the WRR were resurveyed during 4Q14.

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TABLE 1b
4Q15 WEEKLY/MONTHLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	WELL HEAD PID[3] (ppm)	COMMENTS
MW-01											
Monthly	442.65	11/3/2015	NE	41.34	NA	NA	NA	401.31	393.85 - 383.85 (48.80 - 58.80)	0.0	*
		12/2/2015	NE	41.83	NA	NA	NA	400.82		0.2	*
MW-02											
Monthly	443.77	11/3/2015	NE	42.78	NA	NA	NA	400.99	393.90 - 383.90 (49.87 - 59.87)	103.6	*
		12/2/2015	NE	43.18	NA	NA	NA	400.59		187.7	*
MW-03											
Monthly	430.08	11/3/2015	NE	28.46	NA	NA	NA	401.62	395.41 - 385.41 (34.67 - 44.67)	0.0	*
		12/2/2015	NE	28.82	NA	NA	NA	401.26		0.0	*
MW-04											
Monthly	441.14	11/3/2015	NE	39.78	NA	NA	NA	401.36	396.08 - 386.08 (45.06 - 55.06)	81.1	*
		12/2/2015	NE	40.21	NA	NA	NA	400.93		110.8	*
MW-05											
Monthly	429.80	11/3/2015	NE	28.12	NA	NA	NA	401.68	395.83 - 385.83 (33.97 - 43.97)	0.2	*
		12/2/2015	NE	28.54	NA	NA	NA	401.26		0.0	*
MW-06A											
Monthly	432.14	11/3/2015	NE	30.22	NA	NA	NA	401.92	397.31 - 387.31 (34.83 - 44.83)	0.0	*
		12/2/2015	NE	30.65	NA	NA	NA	401.49		0.0	*
MW-06B											
Monthly	432.29	11/3/2015	NE	30.25	NA	NA	NA	402.04	368.24 - 363.24 (64.05 - 69.05)	0.0	*
		12/2/2015	NE	30.68	NA	NA	NA	401.61		0.0	*
MW-06C											
Monthly	432.11	11/3/2015	NE	30.11	NA	NA	NA	402.00	347.16 - 342.16 (84.95 - 89.95)	0.0	*
		12/2/2015	NE	30.47	NA	NA	NA	401.64		0.3	*
MW-06D											
Monthly	431.99	11/3/2015	NE	29.89	NA	NA	NA	402.10	327.27 - 322.27 (104.72 - 109.72)	0.0	*
		12/2/2015	NE	30.34	NA	NA	NA	401.65		0.0	*
MW-07											
Monthly	443.10	11/3/2015	NE	41.74	NA	NA	NA	401.36	400.18 - 390.18 (42.92 - 52.92)	3641	*
		12/2/2015	NE	42.28	NA	NA	NA	400.82		5063	*
MW-08											
Monthly	434.11	11/3/2015	NE	32.62	NA	NA	NA	401.49	400.51 - 390.51 (33.60 - 43.60)	2508	*
		12/2/2015	NE	33.08	NA	NA	NA	401.03		129.5	*
MW-09											
Monthly	445.20	11/2/2015	NE	42.95	NA	NA	NA	402.25	398.75 - 388.75 (46.45 - 56.45)	0.0	*
		12/2/2015	NE	43.23	NA	NA	NA	401.97		0.1	*
MW-10											
Monthly	445.03	11/2/2015	NE	43.00	NA	NA	NA	402.03	400.60 - 390.60 (44.43 - 54.43)	0.0	*
		12/2/2015	NE	43.30	NA	NA	NA	401.73		0.1	*
MW-11											
Monthly	442.33	11/3/2015	NE	40.70	NA	NA	NA	401.63	400.67 - 390.67 (41.66 - 51.66)	0.0	*
		12/2/2015	NE	40.98	NA	NA	NA	401.35		0.1	*
MW-12											
Monthly	442.60	11/3/2015	NE	41.07	NA	NA	NA	401.53	400.68 - 390.68 (41.92 - 51.92)	0.0	*
		12/2/2015	NE	41.47	NA	NA	NA	401.13		0.0	*
MW-14											
Monthly	434.44	11/2/2015	NE	32.25	NA	NA	NA	402.19	401.02 - 391.02 (33.42 - 43.42)	45.2	*
		12/1/2015	NE	32.68	NA	NA	NA	401.76		37.2	*
MW-16											
Monthly	443.39	11/3/2015	NE	42.41	NA	NA	NA	400.98	406.33 - 396.33 (37.06 - 47.06)	0.0	
		12/2/2015	NE	42.71	NA	NA	NA	400.68		0.1	
MW-17											
Monthly	441.57	11/3/2015	NE	39.99	NA	NA	NA	401.58	407.28 - 392.28 (34.29 - 49.29)	0.0	
		12/2/2015	NE	41.14	NA	NA	NA	400.43		0.1	
MW-18											
Monthly	442.04	11/3/2015	NE	41.66	NA	NA	NA	400.38	407.12 - 392.12 (34.92 - 49.92)	0.0	
		12/2/2015	NE	41.92	NA	NA	NA	400.12		0.1	
MW-19											
Weekly	442.77	10/6/2015	NE	41.45	NA	NA	NA	401.32	406.43 - 391.43 (36.34 - 51.34)	0.0	
		10/13/2015	NE	41.33	NA	NA	NA	401.44		0.0	
		10/19/2015	NE	41.45	NA	NA	NA	401.32		1.2	
		10/28/2015	NE	41.51	NA	NA	NA	401.26		0.0	
Monthly		11/2/2015	NE	41.99	NA	NA	NA	400.78		0.1	
Weekly		11/9/2015	NE	42.05	NA	NA	NA	400.72		2.0	
		11/17/2015	NE	42.12	NA	NA	NA	400.65		0.3	
		11/25/2015	NE	42.38	NA	NA	NA	400.39		0.0	
Monthly		12/2/2015	NE	42.36	NA	NA	NA	400.41		0.2	
Weekly		12/8/2015	NE	42.27	NA	NA	NA	400.50		0.0	
		12/15/2015	NE	42.39	NA	NA	NA	400.38		0.0	
		12/22/2015	NE	42.28	NA	NA	NA	400.49		0.0	
		12/31/2015	NE	42.30	NA	NA	NA	400.47		0.4	
MW-20											
Monthly	443.67	11/3/2015	NE	42.77	NA	NA	NA	400.90	407.79 - 392.79 (35.88 - 50.88)	0.0	
		12/2/2015	NE	43.18	NA	NA	NA	400.49		0.0	
MW-21											
Monthly	443.81	11/3/2015	NE	42.75	NA	NA	NA	401.06	408.80 - 393.80 (35.01 - 50.01)	0.0	
		12/2/2015	NE	43.23	NA	NA	NA	400.58		13.7	

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TABLE 1b
4Q15 WEEKLY/MONTHLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	WELL HEAD PID[3] (ppm)	COMMENTS
MW-22											
Weekly	442.16	10/6/2015	NE	40.52	NA	NA	NA	401.64	404.28 - 394.28 (37.88 - 47.88)	0.0	
		10/13/2015	NE	40.51	NA	NA	NA	401.65		9.2	
		10/19/2015	NE	40.59	NA	NA	NA	401.57		1.3	
		10/28/2015	NE	40.64	NA	NA	NA	401.52		0.0	
Monthly		11/2/2015	NE	41.00	NA	NA	NA	401.16		0.1	
Weekly		11/9/2015	NE	41.08	NA	NA	NA	401.08		0.1	
		11/17/2015	NE	41.16	NA	NA	NA	401.00		0.0	
		11/25/2015	NE	41.44	NA	NA	NA	400.72		0.0	
Monthly		12/2/2015	NE	41.41	NA	NA	NA	400.75		13.1	
Weekly		12/8/2015	NE	41.27	NA	NA	NA	400.89		0.0	
		12/15/2015	NM	NM	NA	NA	NA	NA		NM	
		12/22/2015	NM	NM	NA	NA	NA	NA		NM	
		12/31/2015	NE	41.28	NA	NA	NA	400.88		0.0	
MW-23											
Monthly	431.41	11/9/2015	NE	29.49	NA	NA	NA	401.92	402.39 - 392.39 (29.02 - 39.02)	1.0	
		12/2/2015	NE	29.84	NA	NA	NA	401.57		2.0	
MW-24											
Monthly	443.42	11/3/2015	NE	41.96	NA	NA	NA	401.46	404.53 - 394.53 (38.89 - 48.89)	0.0	
		12/2/2015	NE	42.27	NA	NA	NA	401.15		0.6	
MW-25											
Monthly	438.35	11/9/2015	NE	36.92	NA	NA	NA	401.43	402.76 - 392.76 (35.59 - 45.59)	0.8	
		12/2/2015	NE	37.32	NA	NA	NA	401.03		0.1	
MW-26											
Monthly	441.02	11/2/2015	NM	NM	NA	NA	NA	NA	402.87 - 392.87 (38.15 - 48.15)	NM	Unable to locate well
		12/2/2015	NE	40.17	NA	NA	NA	400.85		0.8	
MW-27											
Monthly	443.40	11/10/2015	NE	40.53	NA	NA	NA	402.87	403.61 - 393.61 (39.79 - 49.79)	0.3	
		12/2/2015	NE	40.88	NA	NA	NA	402.52		0.4	
MW-28											
Monthly	443.34	11/9/2015	NE	40.02	NA	NA	NA	403.32	409.73 - 399.73 (33.61 - 43.61)	2.8	
		12/2/2015	NE	40.06	NA	NA	NA	403.28		0.1	
P-54											
Monthly	442.32	11/3/2015	NE	40.62	NA	NA	NA	401.70	404.32 - 379.32 (38.00 - 63.00)	0.0	
		12/2/2015	NE	40.97	NA	NA	NA	401.35		0.1	
P-55R											
Weekly	443.79	10/6/2015	41.85	41.89	401.90	401.94	0.04	401.93	403.36 - 393.36 (40.43 - 50.43)	382.6	
		10/13/2015	41.84	41.85	401.94	401.95	0.01	401.95		266.8	
		10/19/2015	41.80	42.18	401.61	401.99	0.38	401.91		86.5	
		10/28/2015	41.91	41.94	401.85	401.88	0.03	401.87		162.1	
Monthly		11/2/2015	42.25	42.26	401.53	401.54	0.01	401.54		118.3	
Weekly		11/9/2015	42.29	42.45	401.34	401.50	0.16	401.47		104.1	
		11/17/2015	42.21	42.24	401.55	401.58	0.03	401.57		108.2	
		11/25/2015	42.57	42.65	401.14	401.22	0.08	401.20		74.5	
Monthly		12/1/2015	42.47	42.76	401.03	401.32	0.29	401.26		186.5	
Weekly		12/8/2015	NE	42.39	NA	NA	NA	401.40		191.4	
		12/15/2015	42.68	42.74	401.05	401.11	0.06	401.10		245.7	
		12/22/2015	42.41	42.68	401.11	401.38	0.27	401.33		135.1	
		12/29/2015	42.58	42.78	401.01	401.21	0.20	401.17		211.3	
P-56											
Monthly	446.14	11/2/2015	NE	45.30	NA	NA	NA	400.84	405.32 - 380.32 (40.82 - 65.82)	0.4	
		12/1/2015	NE	45.64	NA	NA	NA	400.50		1.5	
P-57											
Monthly	446.96	11/2/2015	NE	45.88	NA	NA	NA	401.08	402.77 - 392.77 (44.19 - 54.19)	0.0	
		12/1/2015	NE	46.36	NA	NA	NA	400.60		0.7	
P-58											
Monthly	444.94	11/2/2015	NE	43.97	NA	NA	NA	400.97	404.73 - 379.73 (40.21 - 65.21)	0.0	
		12/1/2015	NE	44.12	NA	NA	NA	400.82		0.0	
P-59											
Monthly	446.86	11/2/2015	NE	46.29	NA	NA	NA	400.57	398.95 - 373.95 (47.91 - 72.91)	188.6	*
		12/1/2015	NE	46.49	NA	NA	NA	400.37		81.6	*
P-60											
Weekly	446.69	10/6/2015	45.08	45.15	401.54	401.61	0.07	401.60	403.24 - 383.24 (43.45 - 63.45)	167.7	
		10/13/2015	45.11	45.16	401.53	401.58	0.05	401.57		397.6	
		10/19/2015	45.15	45.23	401.46	401.54	0.08	401.52		204.6	
		10/28/2015	45.20	45.27	401.42	401.49	0.07	401.48		325.9	
Monthly		11/2/2015	45.60	45.67	401.02	401.09	0.07	401.08		288.8	
Weekly		11/9/2015	45.68	45.75	400.94	401.01	0.07	401.00		179.3	
		11/17/2015	45.58	45.63	401.06	401.11	0.05	401.10		158.5	
		11/25/2015	46.00	46.06	400.63	400.69	0.06	400.68		180.5	
Monthly		12/1/2015	NE	45.92	NA	NA	NA	400.77		234.4	
Weekly		12/8/2015	45.81	45.88	400.81	400.88	0.07	400.87		272.4	
		12/15/2015	46.02	46.08	400.61	400.67	0.06	400.66		106.8	
		12/22/2015	45.82	45.90	400.79	400.87	0.08	400.85		264.5	
		12/29/2015	46.07	46.12	400.57	400.62	0.05	400.61		129.8	
P-60-11											
Monthly	446.26	11/2/2015	NE	43.97	NA	NA	NA	402.29	413.11 - 383.11 (33.15 - 63.15)	0.1	
		12/1/2015	NE	44.28	NA	NA	NA	401.98		1.4	

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TABLE 1b
4Q15 WEEKLY/MONTHLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	WELL HEAD PID[3] (ppm)	COMMENTS
P-60-12											
Monthly	443.43	11/2/2015	NE	42.49	NA	NA	NA	400.94	383.43 - 373.43 (60.00 - 70.00)	50.0	*
		12/1/2015	NE	42.81	NA	NA	NA	400.62		43.7	*
P-60-12S											
Monthly	443.43	11/2/2015	NE	NE	NA	NA	NA	NA	429.59 - 419.59 (13.84 - 23.84)	0.6	Well dry
		12/1/2015	NE	NE	NA	NA	NA	NA		0.2	Well dry
P-60-13											
Monthly	442.92	11/2/2015	NE	40.13	NA	NA	NA	402.79	402.92 - 382.92 (40.00 - 60.00)	0.1	
		12/1/2015	NE	39.44	NA	NA	NA	403.48		0.3	*
P-60-13S											
Monthly	442.90	11/2/2015	NE	NE	NA	NA	NA	NA	432.90 - 422.90 (10.00 - 20.00)	0.2	Well dry
		12/1/2015	NE	17.33	NA	NA	NA	425.57		1.8	
P-60-S											
Weekly	446.84	10/6/2015	NE	44.57	NA	NA	NA	402.27	410.36 - 395.36 (36.48 - 51.48)	0.0	
Monthly		11/2/2015	NE	44.69	NA	NA	NA	402.15		0.0	
		12/1/2015	NE	45.03	NA	NA	NA	401.81		0.2	
P-66											
Monthly	436.81	11/2/2015	NE	35.16	NA	NA	NA	401.65	402.09 - 377.09 (34.72 - 59.72)	0.1	
		12/1/2015	NE	35.68	NA	NA	NA	401.13		9.8	
P-68											
Weekly	445.18	10/6/2015	43.72	43.79	401.39	401.46	0.07	401.45	399.92 - 374.92 (45.26 - 70.26)	214.4	*
		10/13/2015	43.72	43.79	401.39	401.46	0.07	401.45		181.1	*
		10/19/2015	43.75	43.83	401.35	401.43	0.08	401.41		173.1	*
		10/28/2015	43.81	43.89	401.29	401.37	0.08	401.35		127.1	*
Monthly		11/2/2015	44.22	44.30	400.88	400.96	0.08	400.94		74.6	*
Weekly		11/9/2015	44.29	44.40	400.78	400.89	0.11	400.87		140.1	*
		11/17/2015	44.25	44.29	400.89	400.93	0.04	400.92		189.9	*
		11/25/2015	44.66	44.70	400.48	400.52	0.04	400.51		162.8	*
Monthly		12/1/2015	44.57	44.63	400.55	400.61	0.06	400.60		138.4	*
Weekly		12/8/2015	44.45	44.51	400.67	400.73	0.06	400.72		154.1	*
		12/15/2015	45.69	45.73	399.45	399.49	0.04	399.48		209.6	
		12/22/2015	44.56	44.63	400.55	400.62	0.07	400.61		262.2	*
		12/29/2015	NM	NM	NA	NA	NA	NA		NM	Unsafe condition
P-74											
Monthly	442.72	11/2/2015	NE	42.29	NA	NA	NA	400.43	398.29 - 373.29 (44.43 - 69.43)	0.8	*
		12/1/2015	NE	42.44	NA	NA	NA	400.28		0.3	*
P-93A											
Monthly	445.12	11/2/2015	NE	43.95	NA	NA	NA	401.17	402.05 - 392.05 (43.07 - 53.07)	0.1	
		12/1/2015	NE	44.48	NA	NA	NA	400.64		0.9	
P-93B											
Monthly	446.52	11/2/2015	NE	45.54	NA	NA	NA	400.98	371.92 - 369.92 (74.60 - 76.60)	45.3	*
		12/1/2015	NE	46.18	NA	NA	NA	400.34		1.6	*
P-93C											
Monthly	446.28	11/2/2015	NE	45.19	NA	NA	NA	401.09	353.81 - 348.81 (92.47 - 97.47)	1.5	*
		12/1/2015	NE	45.67	NA	NA	NA	400.61		1.1	*
P-93D											
Monthly	446.73	11/2/2015	NE	45.59	NA	NA	NA	401.14	320.98 - 318.98 (125.75 - 127.75)	0.3	*
		12/1/2015	NE	46.18	NA	NA	NA	400.55		0.4	*
PZ-1-85											
Monthly	445.48	11/2/2015	NE	43.18	NA	NA	NA	402.30	369.70 - 359.70 (75.78 - 85.78)	0.0	*
		12/2/2015	NE	43.58	NA	NA	NA	401.90		7.2	*
PZ-1-101											
Monthly	445.49	11/2/2015	NE	43.16	NA	NA	NA	402.33	354.52 - 344.52 (90.97 - 100.97)	0.0	*
		12/2/2015	NE	43.46	NA	NA	NA	402.03		5.9	*
PZ-2-70.5											
Monthly	443.06	11/3/2015	NE	41.55	NA	NA	NA	401.51	382.65 - 372.65 (60.41 - 70.41)	5.2	*
		12/2/2015	NE	41.66	NA	NA	NA	401.40		0.8	*
PZ-2-84											
Monthly	443.00	11/3/2015	NE	41.44	NA	NA	NA	401.56	371.12 - 359.12 (71.88 - 83.88)	0.0	*
		12/2/2015	NE	41.86	NA	NA	NA	401.14		2.1	*
GP-9-PZ											
Monthly	442.56	11/2/2015	NE	41.78	NA	NA	NA	400.78	404.96 - 394.96 (37.60 - 47.60)	0.0	
		12/1/2015	NE	42.06	NA	NA	NA	400.50		0.4	
ROST-3-MW											
Weekly	442.29	10/6/2015	NE	40.36	NA	NA	NA	401.93	404.48 - 394.48 (37.81 - 47.81)	2.1	
		10/13/2015	NE	40.34	NA	NA	NA	401.95		0.1	
		10/19/2015	NE	40.44	NA	NA	NA	401.85		1.5	
		10/28/2015	NE	40.46	NA	NA	NA	401.83		0.0	
Monthly		11/2/2015	NE	40.69	NA	NA	NA	401.60		0.0	
Weekly		11/9/2015	NE	40.84	NA	NA	NA	401.45		0.1	
		11/17/2015	NE	40.89	NA	NA	NA	401.40		0.0	
		11/25/2015	NE	41.12	NA	NA	NA	401.17		0.0	
Monthly		12/2/2015	NE	41.03	NA	NA	NA	401.26		0.2	
Weekly		12/8/2015	NE	41.01	NA	NA	NA	401.28		18.7	
		12/15/2015	NE	41.11	NA	NA	NA	401.18		6.8	
		12/22/2015	NE	41.03	NA	NA	NA	401.26		268.9	
		12/31/2015	NE	41.06	NA	NA	NA	401.23		0.2	

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TABLE 1b
4Q15 WEEKLY/MONTHLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	WELL HEAD PID[3] (ppm)	COMMENTS
ROST-4-PZ											
Weekly	442.13	10/6/2015	NE	39.53	NA	NA	NA	402.60	407.20 - 397.20 (34.93 - 44.93)	0.0	
		10/13/2015	NE	39.51	NA	NA	NA	402.62		1.2	
		10/19/2015	NE	39.44	NA	NA	NA	402.69		0.7	
		10/28/2015	NE	39.39	NA	NA	NA	402.74		0.0	
Monthly		11/2/2015	NE	39.59	NA	NA	NA	402.54		0.0	
Weekly		11/9/2015	NE	39.61	NA	NA	NA	402.52		0.1	
		11/17/2015	NE	39.58	NA	NA	NA	402.55		0.0	
		11/25/2015	NE	39.83	NA	NA	NA	402.30		0.5	
Monthly		12/2/2015	NE	39.83	NA	NA	NA	402.30		0.1	
Weekly		12/8/2015	NE	39.84	NA	NA	NA	402.29		0.0	
		12/15/2015	NE	39.95	NA	NA	NA	402.18		0.0	
		12/22/2015	NE	40.01	NA	NA	NA	402.12		0.0	
		12/31/2015	NE	40.13	NA	NA	NA	402.00		0.5	
ROST-4-PZ(A)											
Weekly	442.11	10/6/2015	NE	39.68	NA	NA	NA	402.43	407.34 - 397.34 (34.77 - 44.77)	0.0	
		10/13/2015	NE	39.59	NA	NA	NA	402.52		0.0	
		10/19/2015	NE	39.53	NA	NA	NA	402.58		0.5	
		10/28/2015	NE	39.41	NA	NA	NA	402.70		0.0	
Monthly		11/2/2015	NE	39.50	NA	NA	NA	402.61		0.3	
Weekly		11/9/2015	NE	39.45	NA	NA	NA	402.66		0.1	
		11/17/2015	NE	39.42	NA	NA	NA	402.69		0.0	
		11/25/2015	NE	39.71	NA	NA	NA	402.40		0.1	
Monthly		12/2/2015	NE	39.65	NA	NA	NA	402.46		0.1	
Weekly		12/8/2015	NE	39.63	NA	NA	NA	402.48		0.0	
		12/15/2015	NE	39.86	NA	NA	NA	402.25		9.2	
		12/22/2015	NE	39.70	NA	NA	NA	402.41		0.0	
		12/31/2015	NE	39.83	NA	NA	NA	402.28		0.0	
ROST-4-PZ(B)											
Weekly	442.38	10/6/2015	NE	39.25	NA	NA	NA	403.13	407.33 - 397.33 (35.05 - 45.05)	0.0	
		10/13/2015	NE	39.21	NA	NA	NA	403.17		0.0	
		10/19/2015	NE	39.23	NA	NA	NA	403.15		0.9	
		10/28/2015	NE	39.14	NA	NA	NA	403.24		0.0	
Monthly		11/2/2015	NE	39.31	NA	NA	NA	403.07		0.0	
Weekly		11/9/2015	NE	39.43	NA	NA	NA	402.95		0.5	
		11/17/2015	NE	39.49	NA	NA	NA	402.89		0.0	
		11/25/2015	NE	39.77	NA	NA	NA	402.61		0.0	
Monthly		12/2/2015	NE	39.77	NA	NA	NA	402.61		1.9	
Weekly		12/8/2015	NE	39.80	NA	NA	NA	402.58		0.0	
		12/15/2015	NE	39.95	NA	NA	NA	402.43		1.0	
		12/22/2015	NE	39.97	NA	NA	NA	402.41		1.9	
		12/31/2015	NE	40.11	NA	NA	NA	402.27		0.0	
ROST-4-PZ(C)											
Weekly	442.66	10/6/2015	NE	40.50	NA	NA	NA	402.16	407.71 - 397.71 (34.95 - 44.95)	1.4	
		10/13/2015	NE	40.45	NA	NA	NA	402.21		1.1	
		10/19/2015	NE	40.40	NA	NA	NA	402.26		0.7	
		10/28/2015	NE	40.36	NA	NA	NA	402.30		0.0	
Monthly		11/2/2015	NE	40.57	NA	NA	NA	402.09		0.0	
Weekly		11/9/2015	NE	40.67	NA	NA	NA	401.99		0.1	
		11/17/2015	NE	40.56	NA	NA	NA	402.10		0.0	
		11/25/2015	NE	40.98	NA	NA	NA	401.68		0.1	
Monthly		12/2/2015	NE	40.93	NA	NA	NA	401.73		0.2	
Weekly		12/8/2015	NE	40.90	NA	NA	NA	401.76		4.7	
		12/15/2015	NE	41.06	NA	NA	NA	401.60		0.0	
		12/22/2015	NE	41.02	NA	NA	NA	401.64		0.5	
		12/31/2015	NE	41.16	NA	NA	NA	401.50		0.4	
ROST-4-PZ(D)											
Weekly	442.98	10/6/2015	40.30	40.31	402.67	402.68	0.01	402.68	408.01 - 398.01 (34.97 - 44.97)	0.0	
		10/13/2015	NE	40.23	NA	NA	NA	402.75		0.3	
		10/19/2015	NE	40.23	NA	NA	NA	402.75		1.5	
		10/28/2015	NE	40.19	NA	NA	NA	402.79		0.0	
Monthly		11/2/2015	NE	40.40	NA	NA	NA	402.58		0.0	
Weekly		11/9/2015	NE	40.50	NA	NA	NA	402.48		0.1	
		11/17/2015	NE	40.45	NA	NA	NA	402.53		0.0	
		11/25/2015	NE	40.83	NA	NA	NA	402.15		0.1	
Monthly		12/2/2015	NE	40.74	NA	NA	NA	402.24		0.2	
Weekly		12/8/2015	NE	40.70	NA	NA	NA	402.28		0.0	
		12/15/2015	NE	40.95	NA	NA	NA	402.03		0.2	
		12/22/2015	NE	40.86	NA	NA	NA	402.12		0.4	
		12/31/2015	NE	41.07	NA	NA	NA	401.91		1.8	

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TABLE 1b
4Q15 WEEKLY/MONTHLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	WELL HEAD PID[3] (ppm)	COMMENTS
ROST-4-PZ(E)											
Weekly	441.96	10/6/2015	39.30	39.31	402.65	402.66	0.01	402.66	407.21 - 397.21 (34.75 - 44.75)	0.1	
		10/13/2015	NE	39.26	NA	NA	NA	402.70		0.2	
		10/19/2015	NE	39.32	NA	NA	NA	402.64		1.4	
		10/28/2015	NE	39.22	NA	NA	NA	402.74		0.0	
Monthly		11/2/2015	NE	39.27	NA	NA	NA	402.69		0.2	
Weekly		11/9/2015	NE	39.31	NA	NA	NA	402.65		5.5	
		11/17/2015	NE	39.39	NA	NA	NA	402.57		0.0	
		11/25/2015	NE	39.51	NA	NA	NA	402.45		0.0	
Monthly		12/2/2015	NE	39.52	NA	NA	NA	402.44		0.1	
Weekly		12/8/2015	NE	39.55	NA	NA	NA	402.41		0.0	
		12/15/2015	NE	39.61	NA	NA	NA	402.35		0.0	
		12/22/2015	NE	39.64	NA	NA	NA	402.32		0.6	
		12/31/2015	NE	39.68	NA	NA	NA	402.28		0.3	
ROST-4-PZ(F)											
Weekly	442.12	10/6/2015	NE	39.34	NA	NA	NA	402.78	407.59 - 397.59 (34.53 - 44.53)	0.0	
		10/13/2015	NE	39.32	NA	NA	NA	402.80		0.1	
		10/19/2015	NE	39.34	NA	NA	NA	402.78		1.3	
		10/28/2015	NE	39.32	NA	NA	NA	402.80		0.0	
Monthly		11/2/2015	NE	39.38	NA	NA	NA	402.74		0.0	
Weekly		11/9/2015	NE	39.46	NA	NA	NA	402.66		11.3	
		11/17/2015	NE	39.49	NA	NA	NA	402.63		0.0	
		11/25/2015	NE	39.61	NA	NA	NA	402.51		0.3	
Monthly		12/2/2015	NE	39.59	NA	NA	NA	402.53		0.1	
Weekly		12/8/2015	NE	39.63	NA	NA	NA	402.49		0.0	
		12/15/2015	NE	39.70	NA	NA	NA	402.42		0.0	
		12/22/2015	NE	39.71	NA	NA	NA	402.41		2.0	
		12/31/2015	NE	39.78	NA	NA	NA	402.34		0.6	
ROST-4-PZ(G)											
Weekly	442.13	10/6/2015	NE	40.41	NA	NA	NA	401.72	407.85 - 397.85 (34.28 - 44.28)	0.4	
		10/13/2015	NE	40.39	NA	NA	NA	401.74		0.1	
		10/19/2015	NE	40.48	NA	NA	NA	401.65		0.8	
		10/28/2015	NE	40.56	NA	NA	NA	401.57		0.0	
Monthly		11/2/2015	NE	40.88	NA	NA	NA	401.25		0.0	
Weekly		11/9/2015	NM	NM	NA	NA	NA	NA		NM	
		11/17/2015	NE	41.06	NA	NA	NA	401.07		0.0	
		11/25/2015	NE	41.33	NA	NA	NA	400.80		0.0	
Monthly		12/2/2015	NE	41.19	NA	NA	NA	400.94		0.1	
Weekly		12/8/2015	NE	40.12	NA	NA	NA	402.01		0.0	
		12/15/2015	NE	41.30	NA	NA	NA	400.83		0.0	
		12/22/2015	NE	41.18	NA	NA	NA	400.95		0.0	
		12/31/2015	NE	41.19	NA	NA	NA	400.94		0.6	
ROST-5-PZ											
Monthly	442.22	11/2/2015	NE	23.12	NA	NA	NA	419.10	429.02 - 419.02 (13.20 - 23.20)	0.0	
		12/2/2015	NE	NE	NA	NA	NA	NA		9.6	
ROST-7-PZ											
Monthly	442.19	11/3/2015	NE	21.61	NA	NA	NA	420.58	422.19 - 412.19 (20.00 - 30.00)	0.0	
		12/2/2015	NE	22.11	NA	NA	NA	420.08		0.6	
ROST-10-PZ											
Monthly	444.51	11/3/2015	NE		NA	NA	NA	NA	434.51 - 424.51 (10.00 - 20.00)	0.0	
		12/2/2015	NE	NE	NA	NA	NA	NA		0.2	
ROST-21-PZ											
Monthly	443.72	11/3/2015	NE	19.67	NA	NA	NA	424.05	433.72 - 423.72 (10.00 - 20.00)	0.0	
		12/2/2015	NE	19.79	NA	NA	NA	423.93		0.1	
T-12											
Monthly	444.80	11/2/2015	NE	44.29	NA	NA	NA	400.51	397.97 - 371.97 (46.83 - 72.83)	11.3	*
		12/1/2015	NE	44.57	NA	NA	NA	400.23		4.9	*

NOTES:
1) Elevations presented in this table are relative to the 1988 NAVD datum.
2) The corrected water level elevations presented in this table were corrected by a specific gravity of 0.80 for the wells in which LNAPL was identified.
3) PID values measured with a 10.6 electron volt (eV) lamp photoionization detector.
4) NA = Not Applicable; NE = Not Encountered; NM = Not Measured; BTOC = Below Top of Casing
5) * Indicates that the LNAPL and/or water level is above the top of the screened zone of the well.

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 2a
SUMMARY OF MAIN AQUIFER GROUNDWATER MONITORING WELL FIELD PARAMETERS

Well ID	pH	Temp (C)	Specific Cond (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	General Notes
MW-01							
1Q13	6.73	18.14	*	8.16	0.20	-0.02	
2Q13	6.70	18.71	1.096	7.39	0.01	-117	
3Q13	6.76	19.26	1.068	28.82	0.90	-35	
4Q13	6.71	19.07	1.332	9.26	0.00	-27	
1Q14	6.77	18.29	1.203	9.97	0.00	-3	
2Q14	6.73	18.29	1.145	4.81	0.07	20	
3Q14	6.76	19.63	1.799	7.12	0.00	-59	
4Q14	6.77	18.93	1.170	8.10	0.02	-36	
1Q15	6.75	17.35	1.127	18.42	0.04	-49	
2Q15	6.78	18.34	1.130	0.59	0.08	-68	
3Q15	6.76	18.63	1.274	8.68	0.13	11	
4Q15	6.92	19.40	1.388	1.57	0.03	35	
MW-02							
1Q13	6.67	18.53	*	12.39	0.05	-0.11	
2Q13	6.64	20.21	1.204	7.15	0.01	-159	
3Q13	6.76	21.55	1.320	9.69	0.00	-105	
4Q13	6.72	20.79	1.279	5.91	0.00	-99	
1Q14	6.61	19.24	1.256	17.36	0.03	-107	
2Q14	6.68	20.81	1.280	16.03	0.09	-105	
3Q14	6.74	21.58	*	8.24	0.00	-99	
4Q14	6.67	20.16	1.438	5.95	0.00	-116	
1Q15	6.80	19.08	1.486	4.72	0.02	-146	
2Q15	6.86	20.39	1.390	0.00	0.07	-115	
3Q15	6.77	21.71	1.317	13.95	0.01	-106	
4Q15	6.74	21.52	1.454	1.20	0.09	-116	
MW-03							
1Q13	6.88	19.17	1.333	2.67	0.01	-243	
2Q13	6.92	19.83	1.078	2.64	0.02	-207	
3Q13	6.99	20.05	1.084	8.73	0.00	-143	
4Q13	6.93	19.92	1.402	9.94	0.00	-123	
1Q14	6.90	18.04	1.689	8.24	0.01	-125	Initial Sample
	6.95	18.63	1.373	6.56	0.24	-143	Confirmation Sample
2Q14	6.85	19.35	1.267	1.91	0.64	-137	
3Q14	6.95	20.06	*	8.43	0.00	-134	
4Q14	6.92	18.95	1.352	3.87	0.00	-142	
1Q15	7.02	16.89	1.153	7.82	0.00	-152	
2Q15	6.94	19.39	1.542	0.87	0.02	-140	
3Q15	7.02	19.81	1.348	3.45	0.04	-157	
4Q15	7.00	19.49	1.277	4.92	0.01	-148	
MW-04							
1Q13	6.83	18.75	*	25.45	0.21	-113	Initial Sample
	7.26	18.37	1.296	6.07	0.04	-108	Confirmation Sample
2Q13	6.81	19.74	1.283	8.50	0.00	-151	
3Q13	6.76	20.36	1.481	8.03	0.00	-105	
4Q13	6.79	18.67	1.505	8.67	0.00	-103	
1Q14	6.84	17.90	1.457	9.36	0.00	-113	
2Q14	6.81	18.59	1.434	7.85	0.00	-99	
3Q14	6.85	19.57	*	8.29	0.00	-116	
4Q14	6.86	18.96	1.315	9.22	0.00	-120	
1Q15	6.92	18.28	1.177	28.46	0.03	-110	
2Q15	7.02	18.60	1.660	16.36	0.00	-77	
3Q15	6.96	20.69	1.230	16.98	0.00	-120	
4Q15	6.75	19.08	1.481	1.79	0.06	-103	
MW-05							
1Q13	6.83	19.18	*	11.85	0.04	-124	
2Q13	6.79	19.64	1.010	8.72	0.00	-166	
3Q13	6.85	20.57	1.113	12.87	0.00	-129	
4Q13	6.86	19.97	1.115	9.55	0.00	-114	
1Q14	6.82	17.75	1.142	28.73	0.00	-119	
2Q14	6.77	20.42	1.165	8.64	0.00	-126	
3Q14	6.79	19.91	*	9.32	0.00	-118	
4Q14	6.83	19.07	1.209	18.04	0.00	-125	
1Q15	6.90	17.89	1.222	17.31	0.00	-132	
2Q15	6.77	19.24	1.410	0.00	0.03	-128	
3Q15	6.76	21.54	1.552	8.31	0.02	-130	
4Q15	6.73	19.70	1.507	0.64	0.01	-119	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 2a
SUMMARY OF MAIN AQUIFER GROUNDWATER MONITORING WELL FIELD PARAMETERS

Well ID	pH	Temp (C)	Specific Cond (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	General Notes
MW-06A							
1Q13	7.00	20.21	0.690	20.50	0.02	-132	
2Q13	6.84	18.96	0.848	7.09	0.00	-255	
3Q13	6.77	20.15	0.928	9.62	0.00	-128	
4Q13	6.67	19.52	1.339	9.08	0.00	-116	
1Q14	6.72	17.88	1.418	8.64	0.00	-114	
2Q14	6.58	19.29	1.852	9.74	0.05	-128	
3Q14	6.69	19.70	*	7.30	0.00	-114	
4Q14	6.69	19.14	1.594	24.72	0.02	-123	
1Q15	6.72	17.00	1.698	151.20	0.00	-117	
2Q15	6.78	18.57	1.548	8.35	0.07	-108	
3Q15	6.50	19.73	1.758	27.24	0.00	-99	
4Q15	6.74	19.47	1.486	5.18	0.03	-110	
MW-06B							
1Q13	6.82	18.11	1.127	7.34	0.00	-79	
2Q13	6.80	18.21	1.557	1.11	0.04	-132	
3Q13	6.92	19.68	1.210	9.92	0.19	-85	
4Q13	6.89	18.56	1.424	7.08	0.00	-88	
1Q14	6.96	17.14	1.221	17.54	0.01	-88	
2Q14	6.93	18.42	1.203	1.60	0.14	-117	
3Q14	6.92	19.60	*	9.10	0.00	-89	
4Q14	6.93	18.62	1.235	9.83	0.09	-94	
1Q15	6.99	16.50	1.150	9.27	0.02	-114	
2Q15	6.98	18.06	1.204	9.72	0.09	-86	
3Q15	6.91	20.80	1.266	4.64	0.00	-92	
4Q15	6.94	20.14	0.961	12.33	0.06	-77	
MW-06C							
1Q13	6.94	17.60	0.828	6.48	0.01	-103	
2Q13	7.70	18.38	1.051	4.91	0.05	-178	
3Q13	7.03	19.24	1.050	6.30	0.10	-124	
4Q13	6.99	17.83	1.168	8.60	0.00	-122	
1Q14	7.03	17.02	1.153	6.78	0.00	-118	
2Q14	7.01	17.94	1.102	11.44	0.17	-136	
3Q14	7.08	18.97	*	4.81	0.00	-125	
4Q14	7.07	18.22	1.040	8.88	0.06	-128	
1Q15	7.08	16.29	0.970	7.72	0.02	-133	
2Q15	7.13	18.33	0.953	3.49	0.06	-131	
3Q15	7.08	20.21	0.977	0.61	0.04	-126	
4Q15	6.99	19.17	1.040	0.00	0.14	-110	
MW-06D							
1Q13	7.07	17.15	0.929	6.69	0.00	-116	
2Q13	8.27	18.20	1.131	7.93	0.00	-172	
3Q13	7.04	18.60	1.373	8.93	0.00	-134	
4Q13	6.98	17.47	1.611	8.40	0.00	-124	
1Q14	7.08	16.88	1.424	6.80	0.00	-127	
2Q14	7.05	17.34	1.424	8.46	0.06	-147	
3Q14	7.01	18.57	*	18.02	0.00	-135	
4Q14	7.04	17.79	1.633	9.39	0.04	-142	
1Q15	7.02	16.32	1.464	93.69	0.00	-139	
2Q15	7.10	17.49	1.270	12.27	0.06	-12	
3Q15	7.03	19.07	1.308	36.17	0.00	-140	
4Q15	6.98	18.86	1.154	4.56	0.16	-118	
MW-07							
1Q13	6.90	18.28	1.056	8.57	0.00	-91	
2Q13	6.86	19.35	1.123	3.37	0.07	-148	
3Q13	6.76	19.76	1.254	21.67	0.09	-91	
4Q13	6.78	18.89	1.442	9.42	0.05	-76	
1Q14	6.88	18.24	1.569	9.44	0.22	-151	
2Q14	6.87	18.98	1.610	8.87	0.07	-89	
3Q14	6.83	20.22	*	9.55	0.05	-93	
4Q14	6.86	19.78	1.606	9.88	0.00	-104	
1Q15	6.91	17.63	1.789	6.77	0.03	-72	
2Q15	6.97	19.00	2.848	8.22	0.06	-64	
3Q15	6.72	20.11	1.585	18.56	0.05	-94	
4Q15	6.66	20.01	1.570	17.35	0.08	-74	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 2a
SUMMARY OF MAIN AQUIFER GROUNDWATER MONITORING WELL FIELD PARAMETERS

Well ID	pH	Temp (C)	Specific Cond (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	General Notes
MW-08							
1Q13	6.58	17.83	0.863	9.84	0.00	-56	
2Q13	6.50	19.71	0.890	7.19	0.05	-124	
3Q13	6.57	19.86	2.092	8.65	0.07	-60	
4Q13	6.52	18.42	2.225	8.90	0.00	-46	
1Q14	6.59	18.12	1.741	8.77	0.11	-130	
2Q14	6.56	18.82	1.777	9.15	0.02	-65	
3Q14	6.72	19.81	*	8.40	0.00	-95	
4Q14	6.76	19.31	1.772	9.39	0.00	-89	
1Q15	6.70	17.67	1.658	9.76	0.00	-84	
2Q15	6.81	19.46	2.652	6.05	0.05	-62	
3Q15	6.62	20.88	1.485	13.30	0.00	-95	
4Q15	6.62	19.72	1.623	9.73	0.12	-74	
MW-09							
1Q13	6.73	17.96	1.367	25.29	0.00	-111	
2Q13	6.69	18.01	1.126	9.51	0.00	-125	
3Q13	6.75	18.84	1.213	9.52	0.13	-76	
4Q13	6.71	18.47	1.440	7.91	0.00	-91	
1Q14	6.82	17.06	1.322	0.19	0.02	-54	
2Q14	6.75	17.34	1.273	1.20	0.42	-48	
3Q14	6.75	19.67	*	7.03	0.11	-67	
4Q14	6.73	18.98	1.408	8.14	0.20	-58	
1Q15	6.72	16.83	1.377	4.68	0.01	-59	
2Q15	6.73	18.21	1.421	1.59	0.04	-82	
3Q15	6.75	18.00	1.478	11.86	0.18	-76	
4Q15	6.67	20.06	1.635	0.47	0.27	-46	
MW-10							
1Q13	6.89	18.36	1.082	9.43	0.00	-173	Initial Sample
	6.88	16.98	6.226	8.89	0.04	-101	Confirmation Sample
2Q13	6.78	18.85	1.210	8.71	0.02	-260	
3Q13	6.90	20.11	1.360	9.57	0.02	-127	
4Q13	6.92	19.56	1.373	8.91	0.00	-129	
1Q14	6.85	17.17	1.632	9.92	0.01	-124	
2Q14	6.83	17.96	1.734	9.43	0.06	-162	
3Q14	6.89	19.54	*	7.27	0.00	-123	
4Q14	6.83	19.57	1.849	9.85	0.05	-121	
1Q15	6.84	15.93	1.465	15.33	0.14	-110	
2Q15	6.86	18.48	1.825	7.06	0.08	-102	
3Q15	6.81	18.67	1.971	13.36	0.09	-110	
4Q15	6.74	18.77	1.802	1.16	0.15	-105	
MW-11							
1Q13	6.76	17.64	1.586	1.94	0.00	-179	
2Q13	6.75	18.16	1.313	5.58	0.01	-310	
3Q13	6.78	19.55	1.336	10.06	0.08	-94	
4Q13	6.73	17.76	1.676	9.66	0.00	-98	
1Q14	6.77	16.61	1.587	9.79	0.02	-100	
2Q14	6.74	17.19	1.677	9.63	0.08	-116	
3Q14	6.78	19.16	*	7.69	0.01	-99	
4Q14	6.76	18.19	1.553	12.87	0.00	-121	
1Q15	6.68	15.59	1.604	17.97	0.01	-85	
2Q15	6.79	17.63	1.442	9.62	0.11	-84	
3Q15	6.72	17.47	1.519	13.78	0.11	-82	
4Q15	6.70	18.95	1.534	0.00	0.31	-82	
MW-12							
1Q13	6.79	17.34	1.006	5.83	0.06	1	
2Q13	6.86	19.24	0.958	1.01	0.09	-285	
3Q13	6.85	19.61	1.003	4.21	0.13	261	
4Q13	6.83	18.87	1.030	7.86	0.01	69	
1Q14	6.79	17.15	0.977	4.91	0.14	56	
2Q14	6.80	18.59	0.969	3.00	0.19	98	
3Q14	6.85	19.68	*	9.27	0.20	103	
4Q14	6.84	19.09	1.035	19.80	0.32	202	
1Q15	6.78	16.62	1.091	6.01	0.39	115	
2Q15	6.88	18.04	1.153	5.13	0.15	126	
3Q15	6.90	18.65	0.959	46.10	1.63	161	
4Q15	6.75	19.59	1.230	0.96	1.62	224	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 2a
SUMMARY OF MAIN AQUIFER GROUNDWATER MONITORING WELL FIELD PARAMETERS

Well ID	pH	Temp (C)	Specific Cond (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	General Notes
MW-13							
1Q13	6.64	18.59	1.019	3.55	0.01	-178	
2Q13	6.60	19.69	1.260	2.35	0.00	-152	
3Q13	6.69	20.60	1.355	9.26	0.04	-122	
4Q13	6.54	19.63	1.527	7.87	0.00	-93	
1Q14	6.75	19.40	1.449	9.22	0.00	-107	
2Q14	6.71	20.02	1.459	3.40	0.00	-115	
3Q14	6.84	20.85	1.494	9.21	0.00	-124	
4Q14	6.72	19.48	1.491	7.92	0.00	-115	
1Q15	6.88	18.38	1.424	84.72	0.05	-110	
2Q15	6.81	20.23	1.415	5.22	0.03	-108	
3Q15	6.82	19.49	1.100	4.91	0.02	-120	
4Q15	6.64	20.13	1.393	2.61	0.04	-113	
MW-14							
1Q13	6.65	18.92	0.804	8.18	0.06	-100	
2Q13	6.48	19.09	1.138	5.68	0.03	-129	
3Q13	6.73	20.30	1.076	4.75	0.24	-113	
4Q13	6.70	19.37	1.262	1.83	0.05	-109	
1Q14	6.66	16.71	1.156	3.11	0.03	-90	
2Q14	6.74	19.27	1.371	2.17	0.65	-107	
3Q14	6.80	21.27	1.093	3.92	0.06	-117	
4Q14	6.74	18.78	1.204	4.11	0.00	-107	
1Q15	6.83	17.81	1.591	2.41	0.03	-92	
2Q15	6.77	19.34	1.490	1.59	0.03	-84	
3Q15	6.80	18.99	0.957	9.92	0.05	-110	
4Q15	6.58	19.70	1.768	18.19	0.08	-49	
MW-16							
1Q13	*	19.17	0.851	7.03	0.00	-98	Added to Interim GW Monitoring Program in 1Q13
2Q13	6.57	19.56	0.826	0.96	0.03	-288	
3Q13	6.56	21.37	0.986	9.33	0.28	-63	
4Q13	6.49	18.69	1.283	8.13	0.00	-42	
1Q14	6.55	16.61	1.579	9.95	0.05	-66	
2Q14	6.47	19.14	1.466	4.29	0.04	-95	
3Q14	6.55	20.83	*	9.79	0.00	-87	
4Q14	6.61	20.95	1.474	12.38	0.05	-99	
1Q15	6.61	16.64	1.627	1.20	0.01	-98	
2Q15	6.63	19.06	1.792	0.00	0.02	-104	
3Q15	6.64	19.49	1.749	8.67	0.14	-108	
4Q15	6.61	20.15	2.005	9.55	0.28	-41	
MW-22							
1Q13	*	17.69	1.096	9.20	0.00	-111	Added to Interim GW Monitoring Program in 1Q13
2Q13	6.76	19.91	1.150	1.64	0.07	-282	
3Q13	6.74	21.40	1.101	21.29	0.01	-105	
4Q13	6.72	20.53	1.171	9.24	0.02	-107	
1Q14	6.78	19.54	1.115	7.57	0.04	-104	
2Q14	6.75	21.83	1.066	8.03	0.05	-108	
3Q14	6.77	23.02	*	7.61	0.00	-106	
4Q14	6.74	20.55	1.242	10.99	0.00	-108	
1Q15	6.86	18.34	1.124	27.97	0.02	-113	
2Q15	6.71	20.51	1.068	7.14	0.05	-102	
3Q15	6.65	23.12	1.030	15.64	0.15	-121	
4Q15	6.62	22.06	1.363	3.05	0.18	-90	
MW-23							
1Q15	6.69	16.88	1.168	20.72	0.00	-92	Added to Interim GW Monitoring Program 1Q15
2Q15	6.82	19.15	0.943	8.16	0.00	-111	
3Q15	6.75	18.81	1.096	20.33	0.00	-115	
4Q15	6.62	19.04	1.211	0.47	0.05	-98	
MW-24							
2Q13	6.73	18.63	1.203	3.04	0.24	-219	Added to Interim GW Monitoring Program in 2Q13
3Q13	6.75	19.12	1.169	9.18	0.34	207	
4Q13	6.75	18.59	1.371	9.32	1.62	74	
1Q14	6.75	16.98	1.338	8.15	0.08	91	
2Q14	6.69	18.35	1.264	1.63	1.34	98	
3Q14	6.79	19.63	*	7.14	1.03	132	
4Q14	6.81	19.40	1.321	7.42	1.89	146	
1Q15	6.88	16.76	1.340	1.60	0.97	67	
2Q15	6.85	18.63	1.374	1.21	0.24	100	
3Q15	6.86	18.93	1.383	17.98	1.00	-107	
4Q15	6.83	22.02	1.398	0.00	4.73	134	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 2a
SUMMARY OF MAIN AQUIFER GROUNDWATER MONITORING WELL FIELD PARAMETERS

Well ID	pH	Temp (C)	Specific Cond (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	General Notes
MW-25							
4Q14	6.73	20.05	1.786	20.33	0.00	-98	Added to Interim GW Monitoring Program in 4Q14
1Q15	6.83	17.88	1.759	9.14	0.00	-86	
2Q15	6.94	18.87	1.945	4.87	0.00	-69	
3Q15	6.79	20.10	1.280	12.85	0.00	-110	
4Q15	6.79	19.39	1.337	12.26	0.02	-96	
MW-26							
4Q14	6.81	19.62	1.023	9.02	0.06	53	Added to Interim GW Monitoring Program in 4Q14
1Q15	6.73	17.24	0.841	8.43	0.16	166	
2Q15	6.90	19.04	1.036	0.00	0.10	89	
3Q15	6.84	18.46	0.947	4.19	0.19	184	
4Q15	7.00	21.58	0.914	0.34	0.84	294	
MW-27							
4Q14	6.74	18.71	1.322	7.04	1.11	-62	Added to Interim GW Monitoring Program in 4Q14
1Q15	6.89	15.73	1.176	8.67	2.45	-22	
2Q15	6.84	18.94	1.130	22.35	0.43	77	
3Q15	6.82	19.25	1.144	26.42	1.49	11	
4Q15	6.70	19.13	1.085	2.26	0.60	34	
MW-28							
4Q14	6.75	18.72	1.420	8.32	0.00	-95	Added to Interim GW Monitoring Program in 4Q14
1Q15	6.70	16.96	2.112	5.76	0.01	-75	
2Q15	6.64	18.28	2.240	1.68	0.00	-100	
3Q15	6.57	20.80	2.785	22.65	0.00	-91	
4Q15	6.62	19.68	2.308	0.00	0.12	69	
P-54							
1Q13	6.75	17.50	1.061	4.97	0.11	-23	
2Q13	6.70	18.08	1.105	2.88	0.11	-96	Initial Sample
	6.73	17.51	1.035	4.36	0.63	165	Confirmation Sample
3Q13	6.80	18.42	1.091	8.66	4.22	293	
4Q13	6.80	18.09	1.475	6.74	2.46	68	
1Q14	6.74	16.08	1.147	7.53	1.40	108	
2Q14	6.69	17.89	1.065	2.80	2.28	140	
3Q14	6.81	19.11	*	1.04	2.50	117	
4Q14	6.76	18.30	1.432	4.50	2.79	173	
1Q15	6.89	15.57	1.339	8.49	3.85	100	
2Q15	6.79	17.29	1.465	11.72	1.96	146	
3Q15	6.87	18.33	1.256	10.69	4.84	135	
4Q15	6.81	17.71	1.193	1.45	3.89	111	
P-55R (P-55)							
1Q13	*	17.37	0.635	7.68	0.00	-125	Well Replaced during 4Q12
2Q13	6.86	21.33	0.799	0.06	0.02	-174	
3Q13	6.91	21.72	0.785	9.58	0.01	-133	
4Q13	6.87	21.40	0.950	3.17	0.03	-115	
1Q14	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
2Q14	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
3Q14	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
4Q14	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
1Q15	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
2Q15	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
3Q15	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
4Q15	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
P-56							
1Q13	*	20.98	1.106	4.56	0.00	-47	
2Q13	6.61	22.69	1.218	3.00	0.00	-122	
3Q13	6.70	25.57	1.395	6.56	0.02	-115	
4Q13	6.63	24.88	1.319	1.79	0.01	-91	
1Q14	6.66	21.79	1.248	1.13	0.05	-100	
2Q14	6.68	20.97	1.227	1.79	0.00	-92	
3Q14	6.66	25.62	1.264	8.34	0.04	-107	
4Q14	6.65	23.68	1.243	6.14	0.00	-110	
1Q15	6.75	21.54	1.445	17.99	0.04	-112	
2Q15	6.65	22.76	1.411	1.42	0.00	-102	
3Q15	6.79	24.25	1.709	6.80	0.05	-180	
4Q15	6.85	23.88	2.067	20.89	0.01	-121	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 2a
SUMMARY OF MAIN AQUIFER GROUNDWATER MONITORING WELL FIELD PARAMETERS

Well ID	pH	Temp (C)	Specific Cond (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	General Notes
P-57							
1Q13	*	20.16	1.116	6.22	0.00	-104	
2Q13	6.53	20.78	1.331	6.97	0.00	-146	
3Q13	6.59	22.45	1.235	8.81	0.00	-109	
4Q13	6.60	21.55	1.284	4.52	0.00	-120	
1Q14	6.66	20.29	1.271	9.67	0.00	-178	
2Q14	6.61	21.26	1.309	19.65	0.04	-106	
3Q14	6.63	23.22	*	9.69	0.00	-108	
4Q14	6.62	21.75	1.414	8.91	0.00	-120	
1Q15	6.65	21.28	1.207	20.64	0.00	-85	
2Q15	6.58	22.71	1.319	1.80	0.08	-93	
3Q15	6.65	23.79	1.693	2.14	0.00	-130	
4Q15	6.52	25.05	1.810	4.08	0.15	-103	
P-58							
1Q13	6.57	16.48	0.964	23.26	0.00	-67	
2Q13	6.50	18.92	1.174	23.19	0.03	-109	
3Q13	6.53	21.63	1.201	9.42	0.05	-87	
4Q13	6.52	19.70	1.430	6.70	0.02	-84	
1Q14	6.55	18.92	1.201	8.00	0.04	-163	
2Q14	6.53	19.72	1.187	11.10	0.11	-65	
3Q14	6.60	22.73	*	7.88	0.02	-86	
4Q14	6.58	21.05	1.441	6.77	0.00	-89	
1Q15	6.47	19.54	1.511	3.21	0.00	-56	
2Q15	6.47	21.90	1.519	4.53	0.09	-48	
3Q15	6.52	26.26	1.719	3.29	0.00	-110	
4Q15	6.47	22.79	1.693	2.59	0.08	-91	
P-59							
1Q13	6.64	16.36	1.208	4.99	0.00	-82	
2Q13	6.54	18.74	1.109	3.91	0.00	-119	
3Q13	6.64	21.34	1.202	3.31	0.05	-107	
4Q13	6.63	20.31	1.318	4.96	0.00	-96	
1Q14	6.57	17.87	1.486	11.88	0.04	-203	
2Q14	6.61	18.96	1.514	17.69	0.18	-92	
3Q14	6.61	23.29	*	6.10	0.00	-105	
4Q14	6.62	21.78	1.361	8.52	0.00	-103	
1Q15	6.58	21.25	1.580	9.89	0.02	-98	
2Q15	6.62	24.48	1.476	9.55	0.05	-87	
3Q15	6.71	29.00	1.723	17.21	0.00	-140	
4Q15	6.54	26.13	1.773	0.96	0.04	-114	
P-66							
1Q13	6.48	19.00	0.943	14.28	0.00	-79	
2Q13	6.40	19.20	1.198	13.65	0.00	-133	
3Q13	6.46	20.78	1.173	8.99	0.04	-81	
4Q13	6.46	20.11	1.429	13.42	0.02	-82	
1Q14	6.44	18.56	1.221	9.76	0.04	-87	
2Q14	6.45	21.06	1.203	7.90	0.00	-83	
3Q14	6.58	22.67	1.065	7.24	0.07	-89	
4Q14	6.50	19.76	1.098	10.97	0.00	-86	
1Q15	6.61	19.11	1.164	35.14	0.03	-74	
2Q15	6.50	20.30	1.058	7.24	0.01	-69	
3Q15	6.50	19.84	0.979	5.92	0.07	-90	
4Q15	6.43	21.10	1.201	4.27	0.16	-83	
P-68							
1Q13	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
2Q13	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
3Q13	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
4Q13	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
1Q14	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
2Q14	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
3Q14	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
4Q14	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
1Q15	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
2Q15	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
3Q15	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
4Q15	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 2a
SUMMARY OF MAIN AQUIFER GROUNDWATER MONITORING WELL FIELD PARAMETERS

Well ID	pH	Temp (C)	Specific Cond (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	General Notes
P-74							
1Q13	*	16.88	0.445	24.29	0.00	-39	
2Q13	6.99	16.19	0.175	14.65	1.42	-93	
3Q13	6.92	20.80	0.318	9.99	0.04	-122	
4Q13	6.68	18.27	0.447	19.33	0.00	-81	
1Q14	6.61	16.61	0.686	14.25	0.00	-103	
2Q14	7.36	16.48	0.316	10.22	4.52	-3	
3Q14	6.84	20.10	0.260	9.50	0.06	-133	
4Q14	7.26	18.44	0.165	9.64	7.10	68	
1Q15	6.60	17.61	0.691	5.70	0.00	-129	
2Q15	7.49	19.23	1.885	5.99	3.60	-15	
3Q15	7.02	22.91	0.145	26.68	7.56	-140	
4Q15	6.37	20.62	0.374	0.00	0.15	-69	
P-93A							
1Q13	6.79	20.25	1.198	36.06	4.26	-66	
2Q13	6.85	19.70	1.433	33.41	5.83	-86	
3Q13	6.99	23.07	1.654	36.18	4.25	-83	
4Q13	7.15	26.33	1.618	72.75	5.89	-50	
1Q14	6.99	19.48	1.872	24.97	4.65	-74	
2Q14	7.02	20.74	2.104	18.21	4.97	-60	
3Q14	6.87	21.30	*	10.96	4.31	-50	
4Q14	6.77	20.15	1.949	9.66	3.50	-56	
1Q15	6.84	18.54	1.953	5.56	0.04	-111	
2Q15	6.73	21.51	1.599	9.30	0.18	-7	
3Q15	6.71	22.11	1.620	16.25	0.01	-60	
4Q15	6.68	20.18	1.677	16.30	0.17	-3	
P-93B							
1Q13	6.80	17.81	1.731	2.92	0.12	-116	
2Q13	6.84	17.21	1.666	3.54	0.97	-99	
3Q13	6.80	20.05	1.644	1.56	0.05	-117	
4Q13	6.85	18.53	1.928	9.70	1.75	-0.10	
1Q14	6.84	15.74	1.605	4.53	1.62	-87	
2Q14	6.93	18.96	1.454	3.43	3.47	-76	
3Q14	6.88	20.02	*	9.67	0.98	-108	
4Q14	6.87	18.71	1.642	2.85	0.18	-115	
1Q15	6.89	15.29	1.583	3.04	0.67	-94	
	6.91	15.48	1.651	4.58	0.02	-105	Initial Sample
2Q15	6.82	18.50	1.399	14.68	2.13	-93	Confirmation Sample
3Q15	6.88	18.65	1.420	0.75	0.04	-120	
4Q15	6.93	19.48	1.397	91.70	0.37	-93	
P-93C							
1Q13	6.91	17.76	0.916	0.83	0.12	-118	
2Q13	6.91	17.09	0.961	0.00	0.89	-74	
3Q13	6.83	20.08	1.550	0.69	0.08	-81	Initial Sample
	6.87	20.60	1.270	0.03	0.08	-111	Confirmation Sample
4Q13	6.91	18.92	1.366	0.28	0.87	-82	
1Q14	6.94	15.83	1.298	0.12	1.88	-67	
2Q14	6.89	18.31	1.308	4.81	0.95	-57	
3Q14	6.92	19.88	*	2.59	2.03	-74	
4Q14	6.91	18.37	1.320	8.93	0.00	-81	
1Q15	6.90	18.02	1.377	73.30	0.00	-104	Initial Sample
	7.04	16.91	1.289	4.15	0.10	-190	Confirmation Sample
2Q15	7.19	20.18	1.144	0.45	0.06	-83	
3Q15	7.02	21.17	1.221	0.41	0.00	-180	
4Q15	6.87	20.38	1.262	0.69	0.20	-93	
P-93D							
1Q13	7.07	16.25	1.187	4.91	0.00	-77	
2Q13	7.08	18.02	1.211	3.37	0.17	-111	
3Q13	7.04	21.16	1.306	1.21	0.12	-120	
4Q13	6.98	20.50	1.467	0.43	0.00	-103	
1Q14	6.93	17.14	1.378	0.58	0.04	-274	
2Q14	6.97	17.61	1.378	4.61	0.00	-103	
3Q14	7.01	20.51	*	5.34	0.00	-127	
4Q14	6.91	18.72	1.725	5.38	0.00	-99	
1Q15	6.92	17.30	1.424	6.10	0.05	-122	Initial Sample
	6.98	17.38	1.573	7.01	0.00	-90	Confirmation Sample
2Q15	6.99	16.10	1.931	48.24	0.82	-89	
3Q15	7.04	18.98	1.405	0.60	0.20	-160	
4Q15	7.08	19.30	1.568	2.17	0.09	-194	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 2a
SUMMARY OF MAIN AQUIFER GROUNDWATER MONITORING WELL FIELD PARAMETERS

Well ID	pH	Temp (C)	Specific Cond (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	General Notes
P-114R							
1Q13	7.25	19.52	0.782	9.14	1.53	-96	
2Q13	7.33	20.80	0.941	31.68	1.83	-144	
3Q13	7.45	22.10	1.095	17.89	3.10	-103	
4Q13	7.16	20.73	1.191	15.82	2.36	-95	
1Q14	7.13	18.07	1.228	47.51	2.25	-86	
2Q14	7.36	20.07	1.245	18.06	1.85	-91	
3Q14	7.98	22.69	*	8.46	3.54	-110	
4Q14	7.30	20.31	1.382	29.21	2.65	-112	
1Q15	7.26	18.07	1.228	384.90	2.94	-94	
2Q15	6.97	20.49	1.224	74.05	2.30	-83	
3Q15	7.31	19.52	1.177	33.39	2.40	-100	
4Q15	6.81	21.19	1.256	4.26	0.03	-146	Well replaced during 3Q15
ROST-3-MW							
1Q13	*	16.92	0.723	6.82	0.00	-124	
2Q13	6.94	18.60	0.751	11.04	0.01	-319	
3Q13	6.95	18.57	0.773	33.57	0.00	-128	
4Q13	6.89	18.00	0.915	8.72	0.00	-111	
1Q14	6.95	16.14	0.939	9.80	0.00	-116	
2Q14	6.89	18.62	0.974	5.54	0.00	-127	
3Q14	6.88	19.20	*	9.54	0.00	-128	
4Q14	6.83	18.00	1.127	7.26	0.00	-117	
1Q15	6.92	16.56	1.151	4.72	0.01	-118	
2Q15	6.82	17.70	1.152	5.33	0.04	-123	
3Q15	6.95	18.83	1.373	12.56	0.00	-130	
4Q15	6.77	18.58	1.219	2.22	0.07	-118	
ROST-4-PZ(C)							
1Q13	6.77	19.35	1.091	7.82	0.00	-173	
2Q13	6.75	19.22	1.334	1.67	0.01	-148	
3Q13	6.85	20.00	1.089	4.00	0.13	-111	
4Q13	6.69	18.87	1.769	5.71	0.00	-119	
1Q14	6.64	17.08	1.888	3.68	0.01	-79	
2Q14	6.61	20.07	2.351	5.94	0.09	-80	
3Q14	6.78	19.88	*	5.00	0.01	-104	
4Q14	6.75	19.09	1.662	5.57	0.00	-114	
1Q15	6.72	16.56	2.578	5.92	0.07	-101	
2Q15	6.77	19.34	2.204	0.00	0.06	-165	
3Q15	6.87	19.64	2.232	11.48	0.00	-125	
4Q15	6.90	19.49	2.211	2.41	0.02	-113	
T-12							
1Q13	6.93	15.73	1.075	2.11	0.00	-117	
2Q13	6.81	18.64	1.177	10.67	0.00	-122	
3Q13	7.06	20.34	1.200	5.39	0.01	-164	
4Q13	6.65	19.39	1.324	6.84	0.00	-97	
1Q14	6.91	16.38	1.183	1.47	0.03	-111	
2Q14	6.94	17.65	1.176	6.70	0.00	-128	
3Q14	6.85	21.13	0.170	3.45	0.01	-128	
4Q14	6.82	20.43	1.123	4.23	0.00	-125	
1Q15	6.78	19.19	1.126	4.19	0.03	-103	
2Q15	6.76	20.42	1.079	1.51	0.00	-107	
3Q15	6.75	22.31	0.943	1.77	0.04	-120	
4Q15	6.64	23.19	1.232	0.91	0.09	-125	

NOTES:
1) Field parameters were collected using and In-Situ Troll 9500.
2) NM = Not Measured
3) * = Equipment malfunction. Results are suspect.
4) Negative parameter readings for Turbidity and DO are recorded as zero.

TABLE 2b
SUMMARY OF PERCHED GROUNDWATER MONITORING WELL FIELD PARAMETERS

Well ID	pH	Temp (C)	Specific Cond (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	General Notes
P-60-12S							
1Q13	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
2Q13	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
3Q13	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
4Q13	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
1Q14	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
2Q14	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
3Q14	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
4Q14	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
1Q15	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
2Q15	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
3Q15	NM	NM	NM	NM	NM	NM	Well is dry
4Q15	NM	NM	NM	NM	NM	NM	Well is dry
P-60-13S							
1Q13	NM	NM	NM	NM	NM	NM	Well is dry.
2Q13	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
3Q13	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
4Q13	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
1Q14	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
2Q14	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
3Q14	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
4Q14	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
1Q15	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
2Q15	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
3Q15	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
4Q15	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
ROST-5-PZ							
1Q13	NM	NM	NM	NM	NM	NM	Well is dry
2Q13	NM	NM	NM	NM	NM	NM	Well is dry
3Q13	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
4Q13	NM	NM	NM	NM	NM	NM	Well is dry
1Q14	NM	NM	NM	NM	NM	NM	Well is dry
2Q14	NM	NM	NM	NM	NM	NM	Well is dry
3Q14	NM	NM	NM	NM	NM	NM	Well is dry
4Q14	NM	NM	NM	NM	NM	NM	Well is dry
1Q15	NM	NM	NM	NM	NM	NM	Well is dry
2Q15	NM	NM	NM	NM	NM	NM	Well is dry
3Q15	NM	NM	NM	NM	NM	NM	Well is dry
4Q15	NM	NM	NM	NM	NM	NM	Well is dry
ROST-7-PZ							
1Q13	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
2Q13	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
3Q13	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
4Q13	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
1Q14	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
2Q14	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
3Q14	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
4Q14	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
1Q15	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
2Q15	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
3Q15	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
4Q15	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
ROST-10-PZ							
1Q13	NM	NM	NM	NM	NM	NM	Well is dry
2Q13	NM	NM	NM	NM	NM	NM	Well is dry
3Q13	NM	NM	NM	NM	NM	NM	Well is dry
4Q13	NM	NM	NM	NM	NM	NM	Well is dry
1Q14	NM	NM	NM	NM	NM	NM	Well is dry
2Q14	NM	NM	NM	NM	NM	NM	Well is dry
3Q14	NM	NM	NM	NM	NM	NM	Well is dry
4Q14	NM	NM	NM	NM	NM	NM	Well is dry
1Q15	NM	NM	NM	NM	NM	NM	Well is dry
2Q15	NM	NM	NM	NM	NM	NM	Well is dry
3Q15	NM	NM	NM	NM	NM	NM	Well is dry
4Q15	NM	NM	NM	NM	NM	NM	Well is dry
ROST-21-PZ							
1Q13	NM	NM	NM	NM	NM	NM	Well is dry
2Q13	NM	NM	NM	NM	NM	NM	Well is dry
3Q13	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
4Q13	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
1Q14	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
2Q14	NM	NM	NM	NM	NM	NM	Well is dry
3Q14	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
4Q14	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
1Q15	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
2Q15	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
3Q15	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
4Q15	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP

NOTES:
1) NM = Not Measured

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																						
						Acetone	Benzene	Bromobenzene	Butane	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	Dichloromethane (Methylene chloride)	1,2-Dichloropropane	trans-1,3-Dichloropropene	1,4-Dioxane	Ethylbenzene
			Screening Values (mg/L)			6.3 [1]	0.005 [1]	0.056 [3]		4.2 [1]	0.35 [3]			0.7 [1]	0.005 [1]	0.100 [1]		0.07 [1]				0.6 [2]		0.075 [2]	1.4 [1]	0.005 [2]	0.005 [2]	0.001 [2]	0.0077 [1]	0.7 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																								
MW-01	MW1-ROX-011013	1/10/2013	48.80 - 58.80	41.89	NE	<0.005	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW1-ROX-040913	4/9/2013		42.55	NE	<0.005	0.0004 J	<0.005		<0.01	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW1-ROX-070813	7/8/2013		39.56	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.00097 U	<0.002	<0.0005	<0.025	<0.001
	MW1-ROX-100313	10/3/2013		40.28	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW1-ROX-011414	1/14/2014		42.77	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW1-ROX-040714	4/7/2014		43.28	NE	<0.01	0.00066	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW1-ROX-070914	7/9/2014		42.09	NE	<0.01 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW1-ROX-100614	10/6/2014		41.1	NE	<0.01 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW1-ROX-011215	1/12/2015		42.73	NE	0.035	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW1-ROX-040615	4/6/2015		44.11	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW1-ROX-070815	7/8/2015		43.35	NE	<0.01 UJ	<0.0005	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025 UJ	<0.001
	MW1-ROX-100615	10/6/2015	48.80 - 58.80	40.83	NE	<0.025	<0.001	<0.001		<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.01	<0.001
MW-02	MW2-ROX-011113	1/11/2013	49.87 - 59.87	42.94	NE	<0.01	0.0192	<0.01		<0.01	0.0176 J	0.0077 J	0.002 J	<0.01	<0.002	<0.002	0.0083	<0.002	<0.004	<0.01	0.0094 J	<0.002	<0.002	<0.002	<0.002	<0.004	<0.004	<0.001	<0.05	0.676
	MW2-ROX-040913	4/9/2013		43.70	NE	<0.05	0.0174	<0.025		<0.025	0.0191 J	0.0085 J	<0.025	<0.025	<0.005	<0.005	<0.01	<0.005	<0.01	<0.025	0.0101 J	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.0025	<0.13	0.91
	MW2-ROX-071113	7/11/2013		40.82	NE	<0.01 UJ	0.006	<0.005		<0.005 UJ	<0.005	0.0073	0.0029 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0075	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005		1.57
	MW2-ROX-100813	10/8/2013		41.73	NE	<0.01	0.0139	<0.005		0.0133	<0.005	0.0082	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0104	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.942
	MW2-ROX-012014	1/20/2014		44.00	NE	<0.01	0.0238	<0.005		<0.005	0.0254	0.0096	0.0015 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0106	<0.001	<0.001	<0.001	0.0043	<0.002	<0.002	<0.0005	<0.025	0.426
	MW2-ROX-041014	4/10/2014		44.66	NE	<0.01	0.0214	<0.005		0.0136	0.0208	0.0077	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.009	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.478
	MW2-ROX-071414	7/14/2014		43.13	NE	<0.01	0.0102 J	<0.005		<0.005	0.0194 J	0.0073 J	0.0013 J J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.008 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.955
	MW2-ROX-101014	10/10/2014		42.49	NE	<0.02 UJ	0.0132	<0.01		<0.01	0.0145	0.0057 J	0.0011 J	<0.01	<0.002	<0.002	<0.004	<0.002	<0.004	<0.01	0.0063 J	<0.002	<0.002	<0.002	<0.002	<0.004	<0.004	<0.001	<0.05	0.386
	MW2-ROX-011615	1/16/2015		44.1	NE	<0.01	0.0278	0.00045 J		<0.005	0.0185	0.0091	0.0016 J	<0.005	<0.001	<0.001	<0.002	<0.001	0.0052	<0.005	0.0109	0.0008 J	0.00084 J	0.00099 J	<0.001	<0.002	<0.002	<0.0005	<0.025	0.358
	MW2-ROX-041315	4/13/2015		45.56	NE	<0.01	0.0283	<0.005		<0.005	<0.005	0.0052	0.00084 J	0.00028 J	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0064	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.547
	MW2-ROX-071315	7/13/2015		44.53	NE	<0.01	0.0204	<0.005		<0.005	<0.005	0.006	0.0012 J	<0.0023 U	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.006	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.984
	MW2-ROX-101215	10/12/2015	49.87 - 59.87	42.15	NE	0.054	0.035	<0.002		0.048 J	<0.002	0.0056	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0065	<0.002	<0.002	<0.002	<0.002	<0.01	<0.002	<0.01	<0.01	0.42
MW-03	MW3-ROX-010913	1/9/2013	34.67 - 44.67	29.35	NE	<0.005	0.0014	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW3-ROX-040813	4/8/2013		29.74	NE	<0.005 UJ	0.008	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW3-ROX-071113	7/11/2013		26.32	NE	<0.01 UJ	0.0059	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005		<0.001
	MW3-ROX-100813	10/8/2013		27.38	NE	<0.01	0.00057	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.0025
	MW3-ROX-011614	1/16/2014		29.91	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW3-ROX-040914	4/9/2014		30.50	NE	<0.01	0.0015	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW3-ROX-071114	7/10/2014		29.05	NE	<0.01	0.00062	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW3-ROX-100914	10/9/2014		28.18	NE	<0.01 UJ	0.0005	<0.005		<0.005	<0.005	<0.005	0.00083 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW3-ROX-011515	1/15/2015		29.65	NE	<0.01	0.00037 J	<0.005		<0.005	<0.005	0.00049 J	0.0009 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.00039 J
	MW3-ROX-041015	4/10/2015		31.16	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW3-ROX-071015	7/10/2015		30.01	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.00039 J
	MW3-ROX-100915	10/9/2015	34.67 - 44.67	27.98	NE	<0.025	<0.001	<0.001		<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.01	0.0011

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																								
						Acetone	Benzene	Bromobenzene	Butane	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	Dichloromethane (Methylene chloride)	1,2-Dichloropropane	trans-1,3-Dichloropropene	1,4-Dioxane	Ethylbenzene
			Screening Values (mg/L)			6.3 [1]	0.005 [1]	0.056 [3]		4.2 [1]	0.35 [3]			0.7 [1]	0.005 [1]	0.100 [1]		0.07 [1]				0.6 [2]		0.075 [2]	1.4 [1]	0.005 [2]	0.005 [2]	0.001 [2]	0.0077 [1]	0.7 [1]
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**Analytical Results (mg/L)**																								
MW-04	MW4-ROX-011113	1/11/2013	46.06 - 56.06	40.20	NE	<0.005	9.04 J	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.00052 J
	MW4-ROX-011113-DUP	1/11/2013		40.20	NE	<0.005	8.96 J	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.00056 J
	MW4-ROX-030413	3/4/2013		40.20	NE	<0.5	21.4	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.05	<2.5	<0.1
	MW4-ROX-040913	4/9/2013		40.90	NE	<0.02	64.2	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<0.002	<0.004	<0.002	<0.004	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.004	<0.004	<0.001	<0.05	<0.002
	MW4-ROX-040913-DUP	4/9/2013		40.90	NE	<0.01	72.9	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.00081 J
	MW4-ROX-071713	7/17/2013		37.61	NE	<0.01	12.2	<0.005		<0.005	<0.005	0.0016 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.05	0.0015
	MW4-ROX-101613	10/16/2013		38.80	NE	<0.1	1.7	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.005	<0.25	<0.01
	MW4-ROX-013014	1/30/2014		41.09	NE	<0.01	2.01	<0.005		<0.005	0.00058 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.00048 J
	MW4-ROX-041614	4/16/2014		41.91	NE	<0.01	0.553	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW4-ROX-071614	7/16/2014		40.18	NE	<0.01	1.88	<0.005		<0.005	<0.005	<0.05	<0.05	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.01
	MW4-ROX-101614	10/16/2014		39.49	NE	<0.05	0.815	<0.025		<0.025	<0.025	<0.025	<0.025	<0.025	<0.005	<0.005	<0.01	<0.005	<0.01	<0.025	<0.025	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.0025	<0.13	<0.005
	MW4-ROX-012115	1/21/2015		41.27	NE	<0.01	0.0902	<0.005		<0.005	<0.005	<0.005	0.00065 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW4-ROX-042115	4/21/2015	45.06 - 55.06	42.58	NE	<0.01	0.0702	<0.005		<0.005	<0.005	<0.005	0.00066 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.00051 J
	MW4-ROX-071415	7/14/2015		41.30	NE	<0.01	0.063	<0.005		<0.005	0.00066 J	0.00051 J	0.00074 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.00057 J
	MW4-ROX-101915	10/19/2015	45.06 - 55.06	39.44	NE	<0.025	0.0036	<0.001		<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.01	<0.001
MW-05	MW5-ROX-011113	1/11/2013	33.97 - 43.97	28.75	NE	<0.005	0.0072	<0.005		<0.005	<0.005	0.0016 J	0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW5-ROX-040913	4/9/2013		29.41	NE	<0.005	0.0018	<0.005		<0.01	<0.005	0.0018 J	0.0063	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW5-ROX-070913	7/9/2013		26.04	NE	<0.01	0.0075	<0.005		<0.005	<0.005	<0.005	0.0085	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005		<0.001
	MW5-ROX-100813	10/8/2013		26.97	NE	<0.01	0.0016	<0.005		<0.005	<0.005	<0.005	0.0064	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW5-ROX-011714	1/17/2014		29.59	NE	<0.01	0.002	<0.005		<0.005	<0.005	0.002 J	0.0064	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW5-ROX-041014	4/10/2014		30.09	NE	0.021 J	0.0037	<0.005		<0.005	<0.005	0.0017 J	0.0062	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW5-ROX-071414	7/14/2014		28.59	NE	<0.01	0.001	<0.005		<0.005	<0.005	0.0011 J	0.0046 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW-5-ROX-100914	10/9/2014		27.75	NE	<0.01 UJ	0.028	<0.005		<0.005	<0.005	0.00083 J	0.0049 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW5-ROX-011515	1/15/2015		29.34	NE	<0.01	0.003	<0.005		<0.005	<0.005	0.0014 J	0.0059	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW5-ROX-041315	4/13/2015		30.97	NE	<0.01	0.0391	<0.005		<0.005	<0.005	0.0014 J	0.0051	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.0005 J
	MW5-ROX-071315	7/13/2015		29.45	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	0.0031 J	<0.00032 U	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW5-ROX-101215	10/12/2015	33.97 - 43.97	27.53	NE	<0.025	0.0088	<0.001		<0.025	<0.001	<0.001	0.0035	<0.001	<0.001	<0.001	<0.001	0.00079 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	0.0012
MW-06A	MW6A-ROX-011413	1/14/2013	34.83 - 44.83	31.00	NE	<0.005	0.0276	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6A-ROX-040313	4/3/2013		31.62	NE	<0.005 UJ	0.0017	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6A-ROX-070913	7/9/2013		28.25	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005		<0.001
	MW6A-ROX-070913-DUP	7/9/2013		28.25	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005		<0.001
	MW6A-ROX-100713	10/7/2013		28.87	NE	<0.01 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6A-ROX-100713-DUP	10/7/2013		28.87	NE	<0.01 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6A-ROX-011614	1/16/2014		31.62	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6A-ROX-011614-DUP	1/16/2014		31.62	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6A-ROX-040814	4/8/2014		32.16	NE	0.11	0.0011	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6A-ROX-040814-DUP	4/8/2014		32.16	NE	0.116	0.001	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6A-ROX-071014	7/10/2014		30.75	NE	<0.01 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002 UJ	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025 UJ	<0.001
	MW6A-ROX-100814	10/8/2014		29.84	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6A-ROX-011415	1/14/2015		31.54	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6A-ROX-040715	4/7/2015		33.08	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6A-ROX-071515	7/15/2015		31.52	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6A-ROX-100715	10/7/2015	34.83 - 44.83	29.77	NE	<0.025	<0.001	<0.001		<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.01	<0.001

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																					
						Acetone	Benzene	Bromobenzene	Butane	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	Dichloromethane (Methylene chloride)	1,2-Dichloropropane	trans-1,3-Dichloropropene	1,4-Dioxane	Ethylbenzene
			Screening Values (mg/L)			6.3 [1]	0.005 [1]	0.056 [3]		4.2 [1]	0.35 [3]			0.7 [1]	0.005 [1]	0.100 [1]		0.07 [1]				0.6 [2]		0.075 [2]	1.4 [1]	0.005 [2]	0.005 [2]	0.001 [2]	0.0077 [1]	0.7 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																								
MW-06B	MW6B-ROX-011713	1/17/2013	64.05 - 69.05	31.11	NE	<0.005	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6B-ROX-040313	4/3/2013		31.68	NE	<0.005 UJ	0.00043 J	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6B-ROX-070913	7/9/2013		28.25	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005		<0.001
	MW6B-ROX-100713	10/7/2013		28.93	NE	<0.01 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6B-ROX-011614	1/16/2014		31.67	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6B-ROX-040814	4/8/2014		32.21	NE	<0.01	0.0009	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6B-ROX-071014	7/10/2014		30.81	NE	<0.01 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002 UJ	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025 UJ	<0.001
	MW6B-ROX-100814	10/8/2014		29.87	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6B-ROX-011415	1/14/2015		31.59	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6B-ROX-040715	4/7/2015		33.10	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6B-ROX-040715-DUP	4/7/2015		33.10	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6B-ROX-071415	7/14/2015		31.56	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6B-ROX-100715	10/7/2015	64.05 - 69.05	29.80	NE	<0.025	<0.001	<0.001		<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.01	<0.001
MW-06C	MW6C-ROX-011713	1/17/2013	84.95 - 89.95	30.88	NE	<0.005 UJ	<0.0005 UJ	<0.005 UJ		<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.002 UJ	<0.0005 UJ	<0.025 UJ	<0.001 UJ
	MW6C-ROX-040313	4/3/2013		31.41	NE	<0.005 UJ	0.00062	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6C-ROX-070913	7/9/2013		28.03	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005		<0.001
	MW6C-ROX-100713	10/7/2013		28.72	NE	<0.01 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6C-ROX-011614	1/16/2014		31.48	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6C-ROX-040814	4/8/2014		32.01	NE	<0.01	0.0021	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6C-ROX-071014	7/10/2014		30.60	NE	<0.01 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002 UJ	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025 UJ	<0.001
	MW6C-ROX-100814	10/8/2014		29.67	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6C-ROX-011415	1/14/2015		31.41	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6C-ROX-040915	4/9/2015		32.80	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6C-ROX-071415	7/14/2015		31.38	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6C-ROX-100715	10/7/2015	84.95 - 89.95	29.60	NE	<0.025	<0.001	<0.001		<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.01	<0.001
MW-06D	MW6D-ROX-011713	1/17/2013	104.72 - 109.72	30.75	NE	<0.005 UJ	0.00053 J	<0.005 UJ		<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.002 UJ	<0.0005 UJ	<0.025 UJ	<0.001 UJ
	MW6D-ROX-040313	4/3/2013		31.27	NE	<0.005 UJ	0.00055	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6D-ROX-070913	7/9/2013		27.91	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005		<0.001
	MW6D-ROX-100713	10/7/2013		28.58	NE	<0.01 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6D-ROX-011614	1/16/2014		31.33	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6D-ROX-040814	4/8/2014		31.85	NE	<0.01	0.0064	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6D-ROX-071014	7/10/2014		31.47	NE	<0.01 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002 UJ	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025 UJ	<0.001
	MW6D-ROX-071014-DUP	7/10/2014		31.47	NE	<0.01 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002 UJ	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025 UJ	<0.001
	MW6D-ROX-100814	10/8/2014		29.53	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6D-ROX-100814-DUP	10/8/2014		29.53	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6D-ROX-011415	1/14/2015		31.26	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6D-ROX-011415-DUP	1/14/2015		31.26	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6D-ROX-040715	4/7/2015		32.74	NE	<0.01	0.00032 J	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6D-ROX-071415	7/14/2015		31.19	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW6D-ROX-100715	10/7/2015	104.72 - 109.72	29.45	NE	<0.025	<0.001	<0.001		<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.01	<0.001

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																						
						Acetone	Benzene	Bromobenzene	Butane	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	Dichloromethane (Methylene chloride)	1,2-Dichloropropane	trans-1,3-Dichloropropene	1,4-Dioxane	Ethylbenzene
			Screening Values (mg/L)			6.3 [1]	0.005 [1]	0.056 [3]		4.2 [1]	0.35 [3]			0.7 [1]	0.005 [1]	0.100 [1]		0.07 [1]				0.6 [2]		0.075 [2]	1.4 [1]	0.005 [2]	0.005 [2]	0.001 [2]	0.0077 [1]	0.7 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																								
MW-07	MW7-ROX-011513	1/15/2013	42.92 - 52.92	42.21	NE	<20	1230	<20		<20	<20	<20	<20	<20	<4	<4	<8	<4	<8	<20	<20	<4	<4	<4	<4	<8	<8	<2	<100	<4
	MW7-ROX-011513-DUP	1/15/2013		42.21	NE	<20	1320	<20		<20	<20	<20	<20	<20	<4	<4	<8	<4	<8	<20	<20	<4	<4	<4	<4	<8	<8	<2	<100	<4
	MW7-ROX-041013	4/10/2013		42.70	NE	<20	475	<10		<20	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<2	<2	<2	<2	<4	<4	<1	<50	<2
	MW7-ROX-041013-DUP	4/10/2013		42.70	NE	<20	499	<10		<20	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<2	<2	<2	<2	<4	<4	<1	<50	<2
	MW7-ROX-071713	7/17/2013		39.60	NE	<0.01	1000 J	<0.005		<0.005	<0.005	0.0023 J J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0016 J J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.05	0.2 J
	MW7-ROX-101613	10/16/2013		40.64	NE	<20	553	<10		<10	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<2	<2	<2	<2	<4	<4	<1	<50	<2
	MW7-ROX-013014	1/30/2014		42.94	NE	<25	1490	<13		<13	<13	<13	<13	<13	<2.5	<2.5	<5	<2.5	<5	<13	<13	<2.5	<2.5	<2.5	<2.5	<5	<5	<1.3	<63	<2.5
	MW7-ROX-041614	4/16/2014		43.79	NE	<50	1390	<25		<25	<25	<25	<25	<25	<5	<5	<10	<5	<10	<25	<25	<5	<5	<5	<5	<10	<10	<2.5	<130	<5
	MW7-ROX-071614	7/16/2014		42.05	NE	<0.01	1290	<0.005		<0.005	0.0036 J J	0.0022 J J	0.0022 J J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0015 J J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.208 J
	MW7-ROX-071614-DUP	7/16/2014		42.05	NE	<0.01	1390	<0.005		<0.005	0.0034 J J	0.0023 J J	0.0022 J J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0015 J J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.206 J
	MW7-ROX-101614	10/16/2014		41.31	NE	<50	1130	<25		<25	<25	<25	<25	<25	<5	<5	<10	<5	<10	<25	<25	<5	<5	<5	<5	<10	<10	<2.5	<130	<5
	MW7-ROX-101614-DUP	10/16/2014		41.31	NE	<50	984	<25		<25	<25	<25	<25	<25	<5	<5	<10	<5	<10	<25	<25	<5	<5	<5	<5	<10	<10	<2.5	<130	<5
	MW7-ROX-012215	1/22/2015		43.45	NE	<10	821	<5		<5	<5	<5	<5	<5	<1	<1	<2	<1	<2	<5	<5	<1	<1	<1	<1	<2	<2	<0.5	<25	<1
	MW7-ROX-012215-DUP	1/22/2015		43.45	NE	<10	799	<5		<5	<5	<5	<5	<5	<1	<1	<2	<1	<2	<5	<5	<1	<1	<1	<1	<2	<2	<0.5	<25	<1
	MW7-ROX-042115	4/21/2015		44.63	NE	<0.5	1110	<0.25		<0.25	<0.25	<0.25	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	<0.025	<1.3	0.0822
	MW7-ROX-042115-DUP	4/21/2015		44.63	NE	<0.5	1160	<0.25		<0.25	<0.25	<0.25	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	<0.025	<1.3	0.081
	MW7-ROX-071515	7/15/2015		43.54	NE	<50	1300	<25		<25	<25	<25	<25	<25	<5	<5	<10	<5	<10	<25	<25	<5	<5	<5	<5	<10	<10	<2.5	<130	<5
	MW7-ROX-071515-DUP	7/15/2015		43.54	NE	<50	1370	<25		<25	<25	<25	<25	<25	<5	<5	<10	<5	<10	<25	<25	<5	<5	<5	<5	<10	<10	<2.5	<130	<5
	MW7-ROX-101915	10/19/2015	42.92 - 52.92	41.43	NE	<250	1000	<10		<250	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<50	<0.01	<10
	MW7-ROX-101915-DUP	10/19/2015		41.43	NE	<250	990	<10		<250	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<50	<0.01	<10
MW-08	MW8-ROX-011513	1/15/2013	33.60 - 43.60	33.30	NE	<10	1120 J	<10		<10	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<2	<2	<2	<2	<4	<4	<1	<50	<2
	MW8-ROX-041013	4/10/2013		33.77	NE	<50	969	<25		<50	<25	<25	<25	<25	<5	<5	<10	<5	<10	<25	<25	<5	<5	<5	<5	<10	<10	<2.5	<130	<5
	MW8-ROX-071713	7/17/2013		30.43	NE	<0.008 U	532	<0.005		<0.005	<0.005	0.0033 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0023 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.05	0.508
	MW8-ROX-071713-DUP	7/17/2013		30.43	NE	<0.01	494	<0.005		<0.005	<0.005	0.0031 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0024 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.05	0.442 J
	MW8-ROX-101613	10/16/2013		31.59	NE	<20	360	<10		<10	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<2	<2	<2	<2	<4	<4	<1	<50	<2
	MW8-ROX-101613-DUP	10/16/2013		31.59	NE	<20	351	<10		<10	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<2	<2	<2	<2	<4	<4	<1	<50	<2
	MW8-ROX-013014	1/30/2014		34.02	NE	<25	721	<13		<13	<13	<13	<13	<13	<2.5	<2.5	<5	<2.5	<5	<13	<13	<2.5	<2.5	<2.5	<2.5	<5	<5	<1.3	<63	<2.5
	MW8-ROX-013014-DUP	1/30/2014		34.02	NE	<25	748	<13		<13	<13	<13	<13	<13	<2.5	<2.5	<5	<2.5	<5	<13	<13	<2.5	<2.5	<2.5	<2.5	<5	<5	<1.3	<63	<2.5
	MW8-ROX-041614	4/16/2014		34.73	NE	<20	862	<10		<10	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<2	<2	<2	<2	<4	<4	<1	<50	<2
	MW8-ROX-041614-DUP	4/16/2014		34.73	NE	<20	1060	<10		<10	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<2	<2	<2	<2	<4	<4	<1	<50	<2
	MW8-ROX-071614	7/16/2014		33.01	NE	<0.01 UJ	280	<0.005 UJ		<0.005 UJ	0.0069 J	0.0042 J J	0.0028 J J	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	<0.005 UJ	0.0032 J J	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.002 UJ	<0.0005 UJ	<0.025 UJ	0.266
	MW8-ROX-101614	10/16/2014		32.23	NE	<10	486	<5		<5	<5	<5	<5	<5	<1	<1	<2	<1	<2	<5	<5	<1	<1	<1	<1	<2	<2	<0.5	<25	0.305 J
	MW8-ROX-012215	1/22/2015		34.22	NE	<10	764	<5		<5	<5	<5	<5	<5	<1	<1	<2	<1	<2	<5	<5	<1	<1	<1	<1	<2	<2	<0.5	<25	0.359 J
	MW8-ROX-042115	4/21/2015		35.41	NE	<0.5	1100	<0.25		<0.25	<0.25	<0.25	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	<0.025	<1.3	0.203
	MW8-ROX-071515	7/15/2015		34.07	NE	<50	879	<25		<25	<25	<25	<25	<25	<5	<5	<10	<5	<10	<25	<25	<5	<5	<5	<5	<10	<10	<2.5	<130	<5
	MW8-ROX-101915	10/19/2015	33.60 - 43.60	32.30	NE	<130	580	<5		<130	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<25	<5	<25	<0.01	<5
MW-09	MW9-ROX-011113	1/11/2013	46.45 - 56.45	43.90	NE	<0.123 U	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW9-ROX-040913	4/9/2013		44.67	NE	<0.005	<0.0005	<0.005		<0.01	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW9-ROX-070813	7/8/2013		42.35	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.0015 U	<0.002	<0.0005	<0.025	<0.001
	MW9-ROX-100313	10/3/2013		42.27	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW9-ROX-011414	1/14/2014		44.47	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW9-ROX-040714	4/7/2014		44.99	NE	<0.01	0.0044	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW9-ROX-070914	7/9/2014		44.35	NE	<0.01 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW9-ROX-100714	10/7/2014		43.52	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW9-ROX-011315	1/13/2015		44.21	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW9-ROX-040915	4/9/2015		45.38	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW9-ROX-070915	7/9/2015		44.81	NE	<0.01 UJ	<0.0005	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025 UJ	<0.001
	MW9-ROX-100815	10/8/2015	46.45 - 56.45	42.64	NE	<0.025	<0.001	<0.001		<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.01	<0.001

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																					
						Acetone	Benzene	Bromobenzene	Butane	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	Dichloromethane (Methylene chloride)	1,2-Dichloropropane	trans-1,3-Dichloropropene	1,4-Dioxane	Ethylbenzene
			Screening Values (mg/L)			6.3 [1]	0.005 [1]	0.056 [3]		4.2 [1]	0.35 [3]			0.7 [1]	0.005 [1]	0.100 [1]		0.07 [1]				0.6 [2]		0.075 [2]	1.4 [1]	0.005 [2]	0.005 [2]	0.001 [2]	0.0077 [1]	0.7 [1]
Location	**Sample ID**	**Sample Date**	**Screened Interval (ft btoc)**	**Depth to Water (ft btoc)**	**Product Thickness (ft)**	**Analytical Results (mg/L)**																								
MW-10	MW10-ROX-011013	1/10/2013	44.43 - 54.43	44.10	NE	<0.101 U	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	0.0074	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW10-ROX-012113	1/21/2013		44.10	NE	<0.025	0.003	<0.005		<0.0051 U	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.001	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001		<0.005
	MW10-ROX-040913	4/9/2013		44.60	NE	<0.005	0.00067	<0.005		<0.01	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW10-ROX-070813	7/8/2013		42.27	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.0016 U	<0.002	<0.0005	<0.025	<0.001
	MW10-ROX-100313	10/3/2013		42.38	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW10-ROX-011514	1/15/2014		44.42	NE	0.0174	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW10-ROX-040714	4/7/2014		45.00	NE	0.0684	0.0018	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	0.0032	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW10-ROX-070914	7/9/2014		44.35	NE	<0.01 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW10-ROX-100714	10/7/2014		43.58	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW10-ROX-011315	1/13/2015		44.27	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW10-ROX-040815	4/8/2015		45.30	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW10-ROX-070915	7/9/2015		44.93	NE	<0.01 UJ	<0.0005	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.00048 U	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025 UJ	<0.001
	MW10-ROX-100915	10/9/2015	44.43 - 54.43	42.79	NE	<0.025	<0.001	<0.001		<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.01	<0.001
MW-11	MW11-ROX-011013	1/10/2013	41.66 - 51.66	41.43	NE	<0.005	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW11-ROX-040813	4/8/2013		42.02	NE	<0.005 UJ	<0.00065 U	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW11-ROX-070813	7/8/2013		39.24	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001 U	<0.002	<0.0005	<0.025	<0.001
	MW11-ROX-100713	10/7/2013		39.95	NE	<0.01 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW11-ROX-011514	1/15/2014		42.16	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW11-ROX-040714	4/7/2014		42.70	NE	<0.01	0.0014	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW11-ROX-070914	7/9/2014		41.75	NE	<0.01 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW11-ROX-100714	10/7/2014		40.89	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW11-ROX-011315	1/13/2015		41.93	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW11-ROX-040815	4/8/2015		43.19	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW11-ROX-070915	7/9/2015		42.45	NE	<0.01 UJ	<0.0005	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.00021 U	<0.001	<0.001	<0.002	<0.001	0.00058 J	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025 UJ	<0.001
	MW11-ROX-100815	10/8/2015	41.66 - 51.66	40.15	NE	<0.025	<0.001	<0.001		<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.01	<0.001
MW-12	MW12-ROX-011013	1/10/2013	41.92 - 51.92	41.83	NE	<0.35 U	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW12-ROX-040813	4/8/2013		42.46	NE	<0.005 UJ	<0.00088 U	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW12-ROX-070913	7/9/2013		39.28	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005		<0.001
	MW12-ROX-100713	10/7/2013		40.22	NE	<0.01 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW12-ROX-011514	1/15/2014		42.54	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW12-ROX-040814	4/8/2014		43.15	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW12-ROX-070914	7/9/2014		41.97	NE	<0.01 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW12-ROX-100614	10/6/2014		40.98	NE	<0.01 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW12-ROX-011215	1/12/2015		42.33	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW12-ROX-040615	4/6/2015		43.75	NE	0.0265	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW12-ROX-070815	7/8/2015		42.86	NE	<0.01 UJ	<0.0005	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025 UJ	<0.001
	MW12-ROX-100815	10/8/2015	41.92 - 51.92	40.54	NE	<0.025	<0.001	<0.001		<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.01	<0.001
	MW12-ROX-100815-DUP	10/8/2015		40.54	NE	<0.025	<0.001	<0.001		<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.01	<0.001
MW-13	MW13-ROX-012313	1/23/2013	25.57 - 35.57	29.26	NE	<0.005	0.0067 J	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025 UJ	<0.001
	MW13-ROX-041213	4/12/2013		29.44	NE	<0.0319 UJ	0.0102 J	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW13-ROX-071213	7/12/2013		25.67	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001 UJ	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW13-ROX-100913	10/9/2013		26.94	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW13-ROX-012914	1/29/2014		29.63	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW13-ROX-041114	4/11/2014		30.15	NE	<0.01	0.00058	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW13-ROX-070714	7/7/2014		28.49	NE	<0.01 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW13-ROX-101014	10/10/2014		27.48	NE	<0.01 UJ	0.00037 J	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW13-ROX-011615	1/16/2015		29.09	NE	<0.01	0.00046 J	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.00097 J
	MW13-ROX-041415	4/14/2015		30.71	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.00033 J
	MW13-ROX-070815	7/8/2015		29.16	NE	<0.01 UJ	<0.0005	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	0.0016 J	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025 UJ	<0.001
	MW13-ROX-100515	10/5/2015	25.57 - 35.57	27.34	NE	<0.025	<0.001	<0.001		<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.01	<0.001

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																								
						Acetone	Benzene	Bromobenzene	Butane	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	Dichloromethane (Methylene chloride)	1,2-Dichloropropane	trans-1,3-Dichloropropene	1,4-Dioxane	Ethylbenzene
			Screening Values (mg/L)			6.3 [1]	0.005 [1]	0.056 [3]		4.2 [1]	0.35 [3]			0.7 [1]	0.005 [1]	0.100 [1]		0.07 [1]				0.6 [2]		0.075 [2]	1.4 [1]	0.005 [2]	0.005 [2]	0.001 [2]	0.0077 [1]	0.7 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																								
MW-14	MW14-ROX-011813	1/18/2013	33.42 - 43.42	33.05	NE	<0.005	0.0017	<0.005		<0.005	0.0014 J	0.0032 J	0.0011 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW14-ROX-041113	4/11/2013		33.31	NE	<0.01	0.0125 J	<0.005		<0.01	0.0021 J	0.0048 J	0.0016 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW14-ROX-071213	7/12/2013		30.36	NE	<0.01	0.00064	<0.005		<0.005	0.00066 J	0.002 J	0.0013 J	<0.005	<0.001 UJ	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW14-ROX-101013	10/10/2013		30.80	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	0.0013 J	0.0012 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0011 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW14-ROX-012914	1/29/2014		33.67	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	0.0013 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW14-ROX-041114	4/11/2014		34.30	NE	<0.01	0.0017	<0.005		<0.005	<0.005	<0.005	0.00046 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW14-ROX-070714	7/7/2014		32.82	NE	<0.01 UJ	<0.0005	<0.005		<0.005	<0.005	0.00042 J	0.00047 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW14-ROX-101414	10/14/2014		31.65	NE	<0.01 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	0.00063 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW14-ROX-011615	1/16/2015		33.58	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	0.00053 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.00036 J
	MW14-ROX-041415	4/14/2015		35.16	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW14-ROX-070915	7/9/2015		34.06	NE	<0.01 UJ	<0.0005	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.00081 U	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025 UJ	<0.001
	MW14-ROX-101315	10/13/2015	33.42 - 43.42	31.88	NE	<0.025	<0.001	<0.001		<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.01	<0.001
MW-16	MW16-ROX-012313	1/23/2013	37.06 - 47.06	43.05	NE	<0.005	0.00057 J	<0.005		0.0029 J	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025 UJ	<0.001
	MW16-ROX-040813	4/8/2013		43.39	NE	<0.005 UJ	<0.00058 U	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW16-ROX-070813	7/8/2013		40.62	NE	<0.01	<0.00062 U	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW16-ROX-100813	10/8/2013		41.62	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW16-ROX-011514	1/15/2014		43.76	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW16-ROX-040914	4/9/2014		44.63	NE	<0.01	0.00034 J	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW16-ROX-071014	7/10/2014		43.15	NE	<0.01 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002 UJ	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025 UJ	<0.001
	MW16-ROX-100714	10/7/2014		42.27	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW16-ROX-011315	1/13/2015		43.59	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW16-ROX-040915	4/9/2015		44.87	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW16-ROX-070915	7/9/2015		44.26	NE	<0.01 UJ	<0.0005	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.0003 U	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025 UJ	<0.001
	MW16-ROX-070915-DUP	7/9/2015		44.26	NE	<0.01 UJ	<0.0005	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025 UJ	0.0004 J
	MW16-ROX-100715	10/7/2015	37.06 - 47.06	41.83	NE	<0.025	<0.001	<0.001		<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.01	<0.001
MW-22	MW22-ROX-012313	1/23/2013	37.88 - 47.88	41.80	NE	<0.25	2.12	<0.25		<0.295 U	<0.25	<0.25	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	<0.025	<1.3 UJ	3.45
	MW22-ROX-012313-DUP	1/23/2013		41.80	NE	<0.25	2.09	<0.25		<0.31 U	<0.25	<0.25	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	<0.025	<1.3 UJ	3.19
	MW22-ROX-040513	4/5/2013		42.23	NE	<0.005 UJ	1.5	<0.005		<0.005	0.0413 J	0.0142 J	0.0171 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0122 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	2.44
	MW22-ROX-071113	7/11/2013		39.35	NE	<0.01 UJ	1.19	<0.005		<0.005 UJ	<0.005	0.0116	0.0142	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0087	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005		2.07
	MW22-ROX-071113-DUP	7/11/2013		39.35	NE	<0.01 UJ	1.11	<0.005		<0.005 UJ	<0.005	0.0116	0.0148	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0087	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005		1.79
	MW22-ROX-100913	10/9/2013		40.39	NE	<0.01	1.33	<0.005		<0.005	0.0286	0.012	0.0167	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.01	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	3.79
	MW22-ROX-100913-DUP	10/9/2013		40.39	NE	<0.01	1.39	<0.005		<0.005	0.0276	0.0118	0.0163	<0.005	<0.001	<0.001	0.0018 J	<0.001	<0.002	<0.005	0.0095	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	3.97
	MW22-ROX-012014	1/20/2014		42.49	NE	<0.01	1.47	<0.005		0.0804	0.0357	0.0128	0.0147	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0094	<0.001	<0.001	<0.001	0.0028	<0.002	<0.002	<0.0005	<0.025	3.17
	MW22-ROX-012014-DUP	1/20/2014		42.49	NE	<0.01	1.58	<0.005		0.0815	0.0355	0.0127	0.0146	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0094	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	3.4
	MW22-ROX-041014	4/10/2014		43.15	NE	0.0911 J	1.7	<0.005		0.0334	0.0331	0.0128	0.0152	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0094	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	3.32
	MW22-ROX-041014-DUP	4/10/2014		43.15	NE	<0.01 UJ	1.56	<0.005		0.0287	0.0319	0.0123	0.0144	<0.005	<0.001	0.00046 J	<0.002	<0.001	<0.002	<0.005	0.0089	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	3.02
	MW22-ROX-071414	7/14/2014		41.85	NE	<0.01	1.76	<0.005		0.0185 J	0.0349 J	0.013 J	0.0137 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0085 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	1.93
	MW22-ROX-101014	10/10/2014		41.43	NE	<0.1 UJ	1.62	<0.05		<0.05	0.0165 J	0.0066 J	0.0096 J	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	0.0045 J	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.005	<0.25	1.88
	MW22-ROX-011615	1/16/2015		42.19	NE	<0.1	1.51	<0.05		<0.05	0.0373 J	0.0133 J	0.0152 J	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	0.0117 J	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.005	<0.25	2.84
	MW22-ROX-041415	4/14/2015		43.71	NE	<0.01	1.62	<0.005		<0.005	0.0112	0.0105	0.0123	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0078	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	3.05
	MW22-ROX-071515	7/15/2015		42.64	NE	<0.2	2.92	<0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.02	<0.02	<0.04	<0.02	<0.04	<0.1	<0.1	<0.02	<0.02	<0.02	<0.02	<0.04	<0.04	<0.001	<0.5	3.21
	MW22-ROX-101415	10/14/2015	37.88 - 47.88	40.54	NE	<0.5	0.8	<0.02		<0.5	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.01	1.6
MW-23	MW23-ROX-012615	1/26/2015	29.02 - 39.02	30.90	NE	<0.025	<0.001	<0.001		<0.005	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.002	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.2	<0.001
	MW23-ROX-040815	4/8/2015		32.24	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW23-ROX-071015-BP	7/10/2015		30.54	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.00029 U	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW23-ROX-100515	10/5/2015	29.02 - 39.02	28.89	NE	<0.025	<0.001	<0.001		<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.01	<0.001

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																						
						Acetone	Benzene	Bromobenzene	Butane	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	Dichloromethane (Methylene chloride)	1,2-Dichloropropane	trans-1,3-Dichloropropene	1,4-Dioxane	Ethylbenzene
			Screening Values (mg/L)			6.3 [1]	0.005 [1]	0.056 [3]		4.2 [1]	0.35 [3]			0.7 [1]	0.005 [1]	0.100 [1]		0.07 [1]				0.6 [2]		0.075 [2]	1.4 [1]	0.005 [2]	0.005 [2]	0.001 [2]	0.0077 [1]	0.7 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																								
MW-24	MW24-ROX-040513	4/5/2013	38.89 - 48.89	43.39	NE	<0.005	0.0029	<0.005		<0.01	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.0012
	MW24-ROX-071113	7/11/2013		40.35	NE	<0.0157 UJ	<0.0005	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005		<0.001
	MW24-ROX-100913	10/9/2013		41.27	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW24-ROX-011514	1/15/2014		43.47	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW24-ROX-040914	4/9/2014		44.13	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW24-ROX-071114	7/10/2014		42.97	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW24-ROX-100814	10/8/2014		42.16	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW24-ROX-011315	1/13/2015		43.17	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW24-ROX-040915	4/9/2015		44.45	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW24-ROX-070915	7/9/2015		44.65	NE	<0.01 UJ	<0.0005	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.00019 U	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025 UJ	<0.001
	MW24-ROX-100715	10/7/2015	38.89 - 48.89	41.45	NE	<0.025	<0.001	<0.001		<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.01	<0.001
MW-25	MW25-ROX-102114	10/21/2014	35.59 - 45.59	36.44	NE	<20	501	<10		<10	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<2	<2	<2	<2	<4	<4	<1	<50	<2
	MW25-ROX-012215	1/22/2015		38.45	NE	<2.5	62.8	<1.3		<1.3	<1.3	<1.3	<1.3	<1.3	<0.25	<0.25	<0.5	<0.25	<0.5	<1.3	<1.3	<0.25	<0.25	<0.25	<0.25	<0.5	<0.5	<0.13	<6.3	<0.25
	MW25-ROX-042115	4/21/2015		39.71	NE	<0.5	78.7	<0.25		<0.25	<0.25	<0.25	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	<0.025	<1.3	<0.05
	MW25-ROX-071515	7/15/2015		38.40	NE	<2	71.9	<1		<1	<1	<1	<1	<1	<0.2	<0.2	<0.4	<0.2	<0.4	<1	<1	<0.2	<0.2	<0.2	<0.2	<0.4	<0.4	<0.1	<5	<0.2
	MW25-ROX-101915	10/19/2015	35.59 - 45.59	36.55	NE	<2.5	11	<0.1		<2.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1	<0.5	<0.01	<0.1
MW-26	MW26-ROX-102114	10/21/2014	38.15 - 48.15	39.43	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW26-ROX-011215	1/12/2015		41.09	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW26-ROX-040815	4/8/2015		42.52	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW26-ROX-070815	7/8/2015		41.76	NE	<0.01 UJ	<0.0005	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025 UJ	<0.001
	MW26-ROX-100615	10/6/2015	38.15 - 48.15	39.19	NE	<0.025	<0.001	<0.001		<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.01	<0.001
MW-27	MW27-ROX-102114	10/21/2014	39.79 - 49.79	41.57	NE	<0.01	0.00033 J	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW27-ROX-011515	1/15/2015		42.06	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW27-ROX-041015	4/10/2015		43.22	NE	0.0027 J	0.00035 J	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW27-ROX-071015	7/10/2015		43.00	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW27-ROX-100815	10/8/2015	39.79 - 49.79	40.32	NE	<0.025	<0.001	<0.001		<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.01	<0.001
MW-28	MW28-ROX-102114	10/21/2014	33.61 - 43.61	36.44	NE	<0.01	0.0081	<0.005		<0.005	<0.005	0.00083 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.00049 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW28-ROX-011515	1/15/2015		41.14	NE	<0.01	0.0541	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW28-ROX-041415	4/14/2015		42.34	NE	<0.01	0.0189	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW28-ROX-071515	7/15/2015		42.19	NE	<0.01	0.0668	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	MW28-ROX-101215	10/12/2015	33.61 - 43.61	40.04	NE	<0.025	<0.001	<0.001		<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.01	0.00066 J
	MW28-ROX-101215-DUP	10/12/2015		40.04	NE	<0.025	<0.001	<0.001		<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.01	<0.001
P-54	P54-ROX-011113	1/11/2013	38.00 - 63.00	41.56	NE	<0.005	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	P54-ROX-041013	4/10/2013		41.80	NE	<0.01	0.172	<0.005		<0.01	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	P54-ROX-050313	5/3/2013		41.80	NE	<0.01 UJ	0.0028	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	P54-ROX-071113	7/11/2013		39.07	NE	<0.01 UJ	<0.0005	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005		<0.001
	P54-ROX-100813	10/8/2013		39.94	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	P54-ROX-011514	1/15/2014		42.20	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	P54-ROX-040914	4/9/2014		42.80	NE	<0.01	0.00081	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	P54-ROX-071114	7/10/2014		41.71	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	P54-ROX-100814	10/8/2014		40.88	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	P54-ROX-011415	1/14/2015		41.79	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	P54-ROX-041015	4/10/2015		43.20	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	P54-ROX-070915	7/9/2015		42.25	NE	<0.01 UJ	<0.0005	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025 UJ	<0.001
	P54-ROX-100915	10/9/2015	38.00 - 63.00	40.20	NE	<0.025	<0.001	<0.001		<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.01	<0.001
P-55	P55-ROX-012113	1/21/2013	39.82 - 64.82	45.24	NE	<0.25	0.571	<0.05		<0.25	0.0533	0.011 J	<0.05	<0.05	<0.05	<0.05	<0.1	<0.01	<0.1	<0.05	<0.05	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.01		0.316
	P55-ROX-012113	1/21/2013		45.24	NE	<0.005	0.538	<0.005		<0.253 U	0.0203	0.0143	0.0013 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0055	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.366
P-55R	P55-ROX-041513	4/15/2013	40.43 - 50.43	43.63	NE	<0.02 UJ	0.434	<0.01		<0.01	0.0052 J	0.0196	<0.01	<0.01	<0.002	<0.002	<0.004	<0.002	<0.004	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.004	<0.004	<0.001	<0.05	0.35
	P55-ROX-071613	7/16/2013		40.06	NE	<0.01	0.573	<0.005	0.88	<0.005	0.0256	0.0155	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0065	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.495
	P55-ROX-101013	10/10/2013		41.67	NE	<0.01	0.757	<0.005		<0.005	0.0239	0.0147	0.0013 J	<0.005	<0.001	<0.001	0.005	<0.001	0.0017 J	<0.005	0.0066	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.602

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TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																								
						Acetone	Benzene	Bromobenzene	Butane	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	Dichloromethane (Methylene chloride)	1,2-Dichloropropane	trans-1,3-Dichloropropene	1,4-Dioxane	Ethylbenzene
			Screening Values (mg/L)			6.3 [1]	0.005 [1]	0.056 [3]		4.2 [1]	0.35 [3]			0.7 [1]	0.005 [1]	0.100 [1]		0.07 [1]				0.6 [2]		0.075 [2]	1.4 [1]	0.005 [2]	0.005 [2]	0.001 [2]	0.0077 [1]	0.7 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																								
P-56	P56-ROX-011713	1/17/2013	40.82 - 65.82	45.65	NE	<0.025	0.191	<0.025		<0.025	0.0031 J	<0.025	<0.025	<0.025	<0.005	<0.005	<0.01	<0.005	<0.01	<0.025	<0.025	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.0025	<0.13	0.0088
	P56-ROX-041213	4/12/2013		46.12	NE	<0.02 U	0.131	<0.01		<0.01	<0.01	0.0142	<0.01	<0.01	<0.002	<0.002	<0.004	<0.002	<0.004	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.004	<0.004	<0.001	<0.05	0.691
	P56-ROX-071513	7/15/2013		43.25	NE	<0.156 U	0.131	<0.005		<0.005	0.0141	0.0072	0.0038 J	<0.005	<0.001	<0.001	0.0047	<0.001	<0.002	<0.005	0.0061	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	2
	P56-ROX-101013	10/10/2013		44.48	NE	<0.01	0.14	<0.005		<0.005	0.0088	0.005	0.0018 J	<0.005	<0.001	<0.001	0.0038	<0.001	<0.002	<0.005	0.0046 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	0.001	<0.025	1.58
	P56-ROX-012214	1/22/2014		46.35	NE	<0.01	0.0895	<0.005		<0.005	0.0033 J	0.0023 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0018 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.305
	P56-ROX-041414	4/14/2014		47.32	NE	<0.01	0.128	<0.005		<0.005	0.0069	0.0046 J	0.0014 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0034 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.608
	P56-ROX-070814	7/8/2014		45.97	NE	0.0626 J	0.127 J	<0.005		0.0132 J	0.0159 J	0.0073 J	0.0034 J J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0058 J	<0.001	<0.001	<0.001	0.0018 J	<0.002	<0.002	<0.0005	<0.025 UJ	1.71 J
	P56-ROX-101314	10/13/2014		45.05	NE	<0.01 UJ	0.107	<0.005		<0.005	0.0062	0.004 J	0.0012 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0035 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.164
	P56-ROX-011915	1/19/2015		46.58	NE	<0.01	0.0991	<0.005		<0.005	0.004 J	0.0037 J	0.00077 J	0.004 J	<0.001	<0.001	<0.002	<0.001	0.0045	<0.005	0.003 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.104
	P56-ROX-041515	4/15/2015		48.05	NE	<0.01	0.0965	<0.005		<0.005	0.0028 J	0.0042 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0033 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.624
	P56-ROX-071015	7/10/2015		47.34	NE	<0.01	0.0683	<0.005		<0.005	<0.005	0.0034 J	0.00068 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0027 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.0297
	P56-ROX-101415	10/14/2015	40.82 - 65.82	44.85	NE	0.15	0.033	<0.001		0.034	0.0012	0.0018	<0.001	0.0011	<0.001	<0.001	<0.001	0.0022	<0.001	<0.001	0.0013	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.01	0.067
P-57	P57-ROX-012913	1/29/2013	40.46 - 65.46	45.92	NE	<2.5	114	<2.5		<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	1.43	<1	<0.5	<1	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.25	<13	1.1
	P57-ROX-041113	4/11/2013		46.29	NE	<5	141	<2.5		<5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.25	<13	1.19
	P57-ROX-071613	7/16/2013		43.38	NE	<0.01	254	<0.005		<0.005	0.0143 J	0.0131 J	0.0103 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0119 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	1.59
	P57-ROX-101413	10/14/2013		44.38	NE	<0.01	288	<0.005		<0.005	0.0129	0.0116	0.0163	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0113	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	1.1
	P57-ROX-020314	2/3/2014		46.57	NE	<10	261	<5		<5	<5	<5	<5	<5	<1	<1	<2	<1	<2	<5	<5	<1	<1	<1	<1	<2	<2	<0.5	<25	0.697 J
	P57-ROX-041514	4/15/2014		46.70	NE	<0.01 UJ	384	<0.005		0.0055	0.0151	0.0131	0.0147	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0114	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	1.08
	P57-ROX-070814	7/8/2014		45.95	NE	0.0497 J	384	<0.005 UJ		<0.005 UJ	0.011 J	0.0091 J	0.0066 J	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	<0.005 UJ	0.0081 J	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.002 UJ	<0.0005 UJ	<0.025 UJ	1.12
	P57-ROX-070814-DUP	7/8/2014		45.95	NE	0.0441 J	377	<0.005 UJ		0.0086 J	0.0114 J	0.0097 J	0.007 J	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	<0.005 UJ	0.0085 J	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.002 UJ	<0.0005 UJ	<0.025 UJ	1.21
	P57-ROX-101414-DUP	10/14/2014		45.00	NE	<20 UJ	220	<10		<10	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<2	<2	<2	<2	<4	<4	<1	<50	1.77 J
	P57-ROX-101414	10/14/2014		45.00	NE	<20 UJ	255	<10		<10	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<2	<2	<2	<2	<4	<4	<1	<50	3.86
	P57-ROX-012315	1/23/2015	44.19 - 54.19	47.52	NE	<5	107	<2.5		<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.25	<13	0.773
	P57-ROX-042015	4/20/2015		48.73	NE	<0.5	134	<0.25		<0.25	<0.25	<0.25	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	<0.025	<1.3	0.487
	P57-ROX-071315	7/13/2015		47.81	NE	<10	138	<5		<5	<5	<5	<5	0.852 J	<1	<1	<2	<1	<2	<5	<5	<1	<1	<1	<1	<2	<2	<0.5	<25	0.44 J
	P57-ROX-101515	10/15/2015	44.19 - 54.19	45.56	NE	<25	140	<1		<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<5	<0.01	<1
P-58	P58-ROX-012213	1/22/2013	40.21 - 65.21	44.21	NE	<5	552	<5		<5	<5	<5	<5	<5	<1	<1	<2	<1	<2	<5	<5	<1	<1	<1	<1	<2	<2	<0.5	<25	1.27
	P58-ROX-041113	4/11/2013		44.40	NE	<20	532	<10		<20	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<2	<2	<2	<2	<4	<4	<1	<50	1.28 J
	P58-ROX-071613	7/16/2013		41.49	NE	<0.01	398	<0.005		<0.005	0.0239	0.0215	0.0532	<0.005	<0.001	0.0017	<0.002	<0.001	<0.002	<0.005	0.0152	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	1.07
	P58-ROX-101413	10/14/2013		42.19	NE	<0.01	647	<0.005		<0.005	0.023	0.0235	0.0483	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0143	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	1.53
	P58-ROX-020314	2/3/2014		44.66	NE	<10	496	<5		<5	<5	<5	<5	<5	<1	<1	<2	<1	<2	<5	<5	<1	<1	<1	<1	<2	<2	<0.5	<25	0.767 J
	P58-ROX-041514	4/15/2014		45.66	NE	<0.01 UJ	782	<0.005		0.0056 J	0.0216 J	0.0185 J	0.0396 J	<0.005	<0.001	0.0013 J	<0.002	<0.001	<0.002	<0.005	0.0116 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.891 J
	P58-ROX-071814	7/18/2014		43.80	NE	<20	406	<10		<10	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<2	<2	<2	<2	<4	<4	<1	<25 UJ	<2
	P58-ROX-101514	10/15/2014		43.14	NE	<5	493	<2.5		<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.25	<13	0.793
	P58-ROX-012315	1/23/2015		45.32	NE	<10	304	<5		<5	<5	<5	<5	<5	<1	<1	<2	<1	<2	<5	<5	<1	<1	<1	<1	<2	<2	<0.5	<25	1.13
	P58-ROX-042015	4/20/2015		46.67	NE	<0.1	325	<0.05		<0.05	0.0087 J	0.0094 J	0.0242 J	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	0.0051 J	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.005	<0.25	0.81
	P58-ROX-071415	7/14/2015		45.54	NE	<10	266	<5		<5	<5	<5	<5	<5	<1	<1	<2	<1	<2	<5	<5	<1	<1	<1	<1	<2	<2	<0.5	<25	0.457 J
	P58-ROX-101615	10/16/2015	40.21 - 65.21	43.45	NE	<50	430	<2		<50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<10	<2	<10	<0.01	<2

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						VOCs																					
						Acetone	Benzene	Bromobenzene	Butane	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	Dichloromethane (Methylene chloride)	1,2-Dichloropropane	trans-1,3-Dichloropropene	1,4-Dioxane	Ethylbenzene
			Screening Values (mg/L)			6.3 [1]	0.005 [1]	0.056 [3]		4.2 [1]	0.35 [3]			0.7 [1]	0.005 [1]	0.100 [1]		0.07 [1]				0.6 [2]		0.075 [2]	1.4 [1]	0.005 [2]	0.005 [2]	0.001 [2]	0.0077 [1]	0.7 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																							
P-59	P59-ROX-013013	1/30/2013	47.91 - 72.91	46.60	NE	<0.25	12.1	<0.25		<0.25	<0.25	<0.25	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	<0.025	<1.3	1.9
	P59-ROX-041213	4/12/2013		46.95	NE	<0.5 UJ	15	<0.25		<0.25	<0.25	0.289	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	<0.025	<1.3	2.85
	P59-ROX-041213-DUP	4/12/2013		46.95	NE	<0.5 UJ	13.4	<0.25		<0.25	<0.25	0.288	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	<0.025	<1.3	2.57
	P59-ROX-071613	7/16/2013		44.13	NE	<0.01	10.2	<0.005		<0.005	0.0213 J	0.0068 J	0.0027 J J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0046 J J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	2.4
	P59-ROX-101013	10/10/2013		45.50	NE	<0.01	14.7	<0.005		<0.005	0.0224	<0.005	0.0024 J	<0.005	<0.001	<0.001	0.0034	<0.001	<0.002	<0.005	0.0051	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	3.19
	P59-ROX-020314	2/3/2014		47.35	NE	<0.2	15.9	<0.1		<0.1	0.0165 J	<0.1	<0.1	<0.1	<0.02	<0.02	<0.04	<0.02	<0.04	<0.1	<0.1	<0.02	<0.02	<0.02	<0.02	<0.04	<0.04	<0.01	<0.5	1.86
	P59-ROX-041514	4/15/2014		48.60	NE	<0.01 UJ	14.8	<0.005		0.0253	0.0181	0.0035 J	0.0014 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0029 J	<0.001	<0.001	<0.001	0.0023	<0.002	<0.002	<0.0005	<0.025	1.69
	P59-ROX-070814	7/8/2014		47.69	NE	0.057 J	12.4	<0.005		0.0169 J	0.0251 J	0.0073 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0046 J J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025 UJ	1.92
	P59-ROX-101414	10/14/2014		46.18	NE	<0.01 UJ	12	<0.005		<0.005	0.0278 J	0.0097 J	0.0024 J J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0043 J J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	2.33
	P59-ROX-011915	1/19/2015		47.42	NE	<1	13.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.05	<2.5	2.2
	P59-ROX-041615	4/16/2015		48.83	NE	<0.1	9.43	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.005	<0.25	2.13
	P59-ROX-071315	7/13/2015		47.85	NE	<0.25	3.08	<0.13		<0.13	<0.13	<0.13	<0.13	<0.13	<0.025	<0.025	<0.05	<0.025	<0.05	<0.13	<0.13	<0.025	<0.025	<0.025	<0.025	<0.05	<0.05	<0.013	<0.63	0.664
	P59-ROX-101515	10/15/2015	47.91 - 72.91	45.75	NE	<1.3	7.2	<0.05		<1.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.25	<0.05	<0.25	<0.01	1.1
P-66	P66-ROX-011813	1/18/2013	34.72 - 59.72	35.70	NE	<0.005	0.0896	<0.005		<0.005	0.0129	0.0227	0.0087	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.0014
	P66-ROX-041113	4/11/2013		36.03	NE	<0.01	0.0444	<0.005		<0.01	0.0199	0.0249	0.0104	<0.005	<0.001	<0.001	0.00065 J	<0.001	<0.002	<0.005	0.0093	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.0036
	P66-ROX-071213	7/12/2013		33.20	NE	<0.01	0.187	<0.005		<0.005	0.0146	0.0221	0.006	<0.005	<0.001 UJ	0.00059 J	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.0022
	P66-ROX-101013	10/10/2013		33.66	NE	0.0095 J	0.0646	<0.005		<0.005	0.0141	0.0186	0.0067	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.0045
	P66-ROX-110713	11/7/2013		33.66	NE	<0.01	0.03	<0.005		<0.005	0.0088	0.0102	0.0071	<0.005	<0.001	0.0007 J	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.0016
	P66-ROX-012914	1/29/2014		36.39	NE	<0.01	0.008	<0.005		<0.005	0.016	0.0205	0.0053	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.0013
	P66-ROX-041114	4/11/2014		37.10	NE	<0.01	0.0052	<0.005		<0.005	0.0129	0.0168	0.0041 J	<0.005	<0.001	0.00052 J	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.0014
	P66-ROX-070714	7/7/2014		35.60	NE	<0.01 UJ	0.0429	<0.005		<0.005	0.0112	0.0147	0.0023 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.0016
	P66-ROX-101414	10/14/2014		34.48	NE	<0.01 UJ	0.0212	<0.005		<0.005	0.0135	0.0173	0.0036 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.0013
	P66-ROX-011615	1/16/2015		36.62	NE	<0.01	0.0083	<0.005		<0.005	0.0162	0.021	0.0048 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.0016
	P66-ROX-011615-DUP	1/16/2015		36.62	NE	<0.01	0.0076	<0.005		<0.005	0.0147	0.0198	0.0045 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.0014
	P66-ROX-041415	4/14/2015		38.27	NE	<0.01	0.0223	<0.005		<0.005	0.0127	0.0181	0.0039 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.003
	P66-ROX-041415-DUP	4/14/2015		38.27	NE	<0.01	0.0214	<0.005		<0.005	0.0124	0.0177	0.004 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.0027
	P66-ROX-070815	7/8/2015		37.24	NE	<0.01 UJ	0.0404	<0.005		<0.005 UJ	0.0124	0.0164	0.0027 J	<0.005	<0.001	0.00035 J	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025 UJ	0.0024
	P66-ROX-070815-DUP	7/8/2015		37.24	NE	<0.01 UJ	0.0424	<0.005		<0.005 UJ	0.0126	0.0167	0.0027 J	<0.005	<0.001	0.00038 J	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025 UJ	0.0022
	P66-ROX-101315	10/13/2015	34.72 - 59.72	34.84	NE	<0.025	0.0094	<0.001		<0.025	<0.001	0.008	0.0023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.01	0.0042
P-74	P74-ROX-011713	1/17/2013	44.43 - 69.43	42.65	NE	<0.1	4.99	<0.1		<0.1	0.0143 J	<0.1	<0.1	<0.1	<0.02	<0.02	<0.04	<0.02	<0.04	<0.1	<0.1	<0.02	<0.02	<0.02	<0.02	<0.04	<0.04	<0.01	<0.5	0.0997
	P74-ROX-041113	4/11/2013		42.83	NE	<0.01	0.144	<0.005		<0.01	0.0026 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.0086
	P74-ROX-071513	7/15/2013		40.11	NE	<0.0046 U	0.117	<0.005		<0.005	0.0088	0.002 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0017 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.0306
	P74-ROX-101413	10/14/2013		41.72	NE	<0.01	1.55	<0.005		<0.005	0.0158	0.003 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0031 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.0653
	P74-ROX-012414	1/24/2014		43.35	NE	<0.01	4.45	<0.005		<0.005	0.0252	0.0031 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0031 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.115
	P74-ROX-041514	4/15/2014		44.74	NE	0.0398 J	0.0349	<0.005		<0.005	0.0013 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.0043
	P74-ROX-070814	7/8/2014		43.02	NE	<0.01 UJ	0.309	<0.005		<0.005	0.0138	0.0014 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0018 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025 UJ	0.0374
	P74-ROX-101414	10/14/2014		41.48	NE	<0.01 UJ	0.00068	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	P74-ROX-011915	1/19/2015		43.47	NE	<0.01	3.13	<0.005		<0.005	0.0163	0.0022 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0029 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.082
	P74-ROX-041515	4/15/2015		44.61	NE	<0.01	0.032	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.00033 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.0058
	P74-ROX-071015	7/10/2015		43.28	NE	0.011	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	P74-ROX-101415	10/14/2015	44.43 - 69.43	41.75	NE	0.31	1.2	<0.005		<0.13	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.025	<0.005	<0.025	<0.01	0.056

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																								
						Acetone	Benzene	Bromobenzene	Butane	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	Dichloromethane (Methylene chloride)	1,2-Dichloropropane	trans-1,3-Dichloropropene	1,4-Dioxane	Ethylbenzene
			Screening Values (mg/L)			6.3 [1]	0.005 [1]	0.056 [3]		4.2 [1]	0.35 [3]			0.7 [1]	0.005 [1]	0.100 [1]		0.07 [1]				0.6 [2]		0.075 [2]	1.4 [1]	0.005 [2]	0.005 [2]	0.001 [2]	0.0077 [1]	0.7 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																								
P-93A	P93A-ROX-012313	1/23/2013	48.17 - 63.17	45.89	NE	<2.5	101	<2.5		<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.25	<13 UJ	<0.5
	P93A-ROX-012313-DUP	1/23/2013		45.89	NE	<2.5	98.5	<2.5		<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.25	<13 UJ	<0.5
	P93A-ROX-041113	4/11/2013		46.29	NE	<5	120	<2.5		<5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.25	<13	0.255 J
	P93A-ROX-041113-DUP	4/11/2013		46.29	NE	<5	120	<2.5		<5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.25	<13	<0.5
	P93A-ROX-071813	7/18/2013		43.25	NE	<0.0053 U	89.1	<0.005		<0.005	<0.005	0.0056	0.0916	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0024 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.05	0.162
	P93A-ROX-101113	10/11/2013		44.18	NE	<0.01 UJ	197	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0025 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.264
	P93A-ROX-012914	1/29/2014		46.53	NE	<5	136	<2.5		<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.25	<13	<0.5
	P93A-ROX-041714	4/17/2014		47.41	NE	<5	132	<2.5		<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.25	<13	<0.5
	P93A-ROX-071814	7/18/2014		45.70	NE	<10	170	<5		<5	<5	<5	<5	<5	<1	<1	<2	<1	<2	<5	<5	<1	<1	<1	<1	<2	<2	<0.5	<13 UJ	<1
	P93A-ROX-071814-DUP	7/18/2014		45.70	NE	<10	174	<5		<5	<5	<5	<5	<5	<1	<1	<2	<1	<2	<5	<5	<1	<1	<1	<1	<2	<2	<0.5	<13 UJ	<1
	P93A-ROX-101514	10/15/2014		45.06	NE	<5	293	<2.5		<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.25	<13	0.229 J
	P93A-ROX-101514-DUP	10/15/2014		45.06	NE	<5	277	<2.5		<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.25	<13	0.226 J
	P93A-ROX-012715	1/27/2015	43.07 - 53.07	46.05	NE	<0.025 UJ	168	<0.001 UJ		<0.005 UJ	0.0023 J	0.0069 J	0.0186 J	<0.002 UJ	<0.001 UJ	<0.001 UJ	0.00078 J J	<0.001 UJ	<0.002 UJ	<0.001 UJ	0.0064 J	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.2 UJ	0.0856 J
	P93A-ROX-041715	4/17/2015		47.02	NE	<0.01	139	<0.005		<0.005	0.00077 J	0.0048 J	0.014	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0036 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.0559
	P93A-ROX-071315	7/13/2015		45.93	NE	<1	315	<0.5		<0.5	<0.5	<0.5	<0.5	0.0476 J	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.05	<2.5	0.0361 J
	P93A-ROX-101515	10/15/2015	43.07 - 53.07	43.69	NE	<25	260	<1		<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<5	<0.01	<1
	P93A-ROX-101515-DUP	10/15/2015		43.69	NE	<25	250	<1		<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<5	<0.01	<1
P-93B	P93B-ROX-012313	1/23/2013	74.60 - 76.60	45.89	NE	<5	415	<5		<5	<5	<5	<5	<5	<1	<1	<2	<1	<2	<5	<5	<1	<1	<1	<1	<2	<2	<0.5	<25 UJ	<1
	P93B-ROX-041113	4/11/2013		46.32	NE	<5	618	<2.5		<5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.25	<13	<0.5
	P93B-ROX-071813	7/18/2013		43.30	NE	<0.01	296	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.05	0.0652
	P93B-ROX-101613	10/16/2013		44.43	NE	<20	187	<10		<10	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<2	<2	<2	<2	<4	<4	<1	<50	<2
	P93B-ROX-101613-DUP	10/16/2013		44.43	NE	<20	180	<10		<10	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<2	<2	<2	<2	<4	<4	<1	<50	<2
	P93B-ROX-012814	1/28/2014		46.58	NE	<10	242	<5		<5	<5	<5	<5	<5	<1	<1	<2	<1	<2	<5	<5	<1	<1	<1	<1	<2	<2	<0.5	<25	<1
	P93B-ROX-012814-DUP	1/28/2014		46.58	NE	<10	293	<5		<5	<5	<5	<5	<5	<1	<1	<2	<1	<2	<5	<5	<1	<1	<1	<1	<2	<2	<0.5	<25	<1
	P93B-ROX-041714	4/17/2014		47.46	NE	<5	134	<2.5		<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.25	<13	<0.5
	P93B-ROX-041714-DUP	4/17/2014		47.46	NE	<5	126	<2.5		<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.25	<13	<0.5
	P93B-ROX-071714	7/17/2014		45.75	NE	<0.01 UJ	175	<0.005 UJ		<0.005 UJ	<0.005 UJ	<0.005 UJ	0.00042 J J	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.002 UJ	<0.0005 UJ	<0.025 UJ	0.0236 J
	P93B-ROX-101514	10/15/2014		45.15	NE	<5 UJ	241	<2.5		<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.25	<13	<0.5
	P93B-ROX-012315	1/23/2015		47.24	NE	<10	564	<5		<5	<5	<5	<5	<5	<1	<1	<2	<1	<2	<5	<5	<1	<1	<1	<1	<2	<2	<0.5	<25	<1
	P93B-ROX-012315-DUP	1/23/2015		47.24	NE	<10	623	<5		<5	<5	<5	<5	<5	<1	<1	<2	<1	<2	<5	<5	<1	<1	<1	<1	<2	<2	<0.5	<25	<1
	P93B-ROX-021915	2/19/2015		47.24	NE	<250	625	<0.5		<2.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<100	<0.5
	P93B-ROX-041615	4/16/2015		48.42	NE	<0.01	400	<0.005		<0.005	<0.005	<0.005	0.001 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.0947
	P93B-ROX-041615-DUP	4/16/2015		48.42	NE	<10	388	<5		<5	<5	<5	<5	<5	<1	<1	<2	<1	<2	<5	<5	<1	<1	<1	<1	<2	<2	<0.5	<25	0.249 J
	P93B-ROX-070915	7/9/2015		47.74	NE	<50 UJ	497 J	<25		<25 UJ	<25	<25	<25	<25	<5	<5	<10	<5	<10	<25	<25	<5	<5	<5	<5	<10	<10	<2.5	<130 UJ	<5
	P93B-ROX-070915-DUP	7/9/2015		47.74	NE	<20 UJ	371 J	<10		<10 UJ	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<2	<2	<2	<2	<4	<4	<1	<50 UJ	<2
	P93B-ROX-101515	10/15/2015	74.60 - 76.60	45.18	NE	<63	1200	<2.5		<63	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<13	<2.5	<13	<0.01	<2.5
P-93C	P93C-ROX-012313	1/23/2013	94.26 - 96.26	45.78	NE	<0.005	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025 UJ	<0.001
	P93C-ROX-041213	4/12/2013		46.21	NE	<0.0056 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	P93C-ROX-071813	7/18/2013		43.31	NE	<0.01	101	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.05	0.0041
	P93C-ROX-080813	8/8/2013		43.31	NE	<0.5	19.1	<0.25		<0.25	<0.25	<0.25	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	<0.025	<1.3	<0.05
	P93C-ROX-101613	10/16/2013		44.31	NE	<0.01	1.4	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	P93C-ROX-012414	1/24/2014		46.44	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	P93C-ROX-041714	4/17/2014		47.34	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	P93C-ROX-071714	7/17/2014		45.61	NE	<0.01	1.55	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	P93C-ROX-101514	10/15/2014		44.99	NE	<0.01	0.00075	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	P93C-ROX-011915	1/19/2015	92.47 - 97.47	46.77	NE	<1	102	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.05	<2.5	<0.1
	P93C-ROX-021915	2/19/2015		46.77	NE	<25	75.4	<1		<5	<1	<1	<1	<2	<1	<1	<2	<1	<2	<1	<1	<1	<1	<1	<1	<5	<1	<1	<200	<1
	P93C-ROX-041615	4/16/2015		48.22	NE	<1	55.3	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.05	<2.5	<0.1
	P93C-ROX-071315	7/13/2015		47.09	NE	<0.01	0.0365	<0.005		<0.005	<0.005	<0.005	<0.005	<0.00025 U	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.00047 J
	P93C-ROX-101415	10/14/2015	92.47 - 97.47	44.91	NE	<0.025	0.011	<0.001		<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.01	<0.001

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																					
						Acetone	Benzene	Bromobenzene	Butane	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	Dichloromethane (Methylene chloride)	1,2-Dichloropropane	trans-1,3-Dichloropropene	1,4-Dioxane	Ethylbenzene
			Screening Values (mg/L)			6.3 [1]	0.005 [1]	0.056 [3]		4.2 [1]	0.35 [3]			0.7 [1]	0.005 [1]	0.100 [1]		0.07 [1]				0.6 [2]		0.075 [2]	1.4 [1]	0.005 [2]	0.005 [2]	0.001 [2]	0.0077 [1]	0.7 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																								
P-93D	P93D-ROX-012213	1/22/2013	125.75 - 127.75	44.21	NE	<0.005	0.106	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.00069 J
	P93D-ROX-041113	4/11/2013		46.37	NE	<0.01	<0.0005	<0.005		<0.01	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	P93D-ROX-071213	7/12/2013		43.51	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001 UJ	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	P93D-ROX-101113	10/11/2013		44.24	NE	<0.01	0.0014	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	P93D-ROX-013114	1/31/2014		46.62	NE	<0.01	0.0012	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	0.00062 J	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	0.0044	<0.0005	<0.025	<0.001
	P93D-ROX-041414	4/14/2014		47.54	NE	<0.01	0.0022	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	0.00069 J	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	0.0164	<0.0005	<0.025	<0.001
	P93D-ROX-071714	7/17/2014		45.78	NE	<0.01	0.00064	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	P93D-ROX-101514	10/15/2014		45.14	NE	<0.1	36.4	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.005	<0.25	<0.01
	P93D-ROX-110414	11/4/2014		45.14	NE	<0.01	19.9	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	0.0079	<0.0005	<0.025	0.0013
	P93D-ROX-012315	1/23/2015		42.28	NE	<2.5	62.6	<1.3		<1.3	<1.3	<1.3	<1.3	<1.3	<0.25	<0.25	<0.5	<0.25	<0.5	<1.3	<1.3	<0.25	<0.25	<0.25	<0.25	<0.5	<0.5	<0.13	<6.3	<0.25
	P93D-ROX-021915	2/19/2015		42.28	NE	<130	240	<2.5		<13	<2.5	<2.5	<2.5	<5	<2.5	<2.5	<5	<2.5	<5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<13	<2.5	<2.5	<500	<2.5
	P93D-ROX-042015	4/20/2015		48.52	NE	<1	131	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.05	<2.5	<0.1
	P93D-ROX-070915	7/9/2015		47.96	NE	<5 UJ	21.2	<2.5		<2.5 UJ	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.25	<13 UJ	<0.5
	P93D-ROX-101515	10/15/2015	125.75 - 127.75	45.28	NE	<2.5	15	<0.1		<2.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1	<0.5	<0.01	<0.1
P-114	P114-ROX-012313	1/23/2013	32.67 - 52.67	30.22	NE	<0.005	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025 UJ	<0.001
	P114-ROX-041513	4/15/2013		31.80	NE	<0.0059 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	P114-ROX-071813	7/18/2013		27.22	NE	<0.251 U	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	P114-ROX-071813-DUP	7/18/2013		27.22	NE	<0.245 U	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	P114-ROX-101713	10/17/2013		29.43	NE	0.0047 J	0.00074	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	P114-ROX-012814	1/28/2014		32.11	NE	0.142	0.0013	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	P114-ROX-042114	4/21/2014		32.22	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	P114-ROX-071814	7/18/2014		30.87	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025 UJ	<0.001
	P114-ROX-101714	10/17/2014		29.43	NE	<0.01	<0.0005	<0.005		<0.005	0.0052 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	0.0006 J J	<0.002	<0.0005	<0.025	0.00045 J J
	P114-ROX-012115	1/21/2015		31.53	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	P114-ROX-041715	4/17/2015		NM	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	<0.001
	P114-ROX-070815	7/8/2015		29.16	NE	<0.01 UJ	<0.0005	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	0.0015 J	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025 UJ	<0.001
P-114R	P114R-ROX-100515	10/5/2015	23.01 - 33.01	26.24	NE	<0.025	<0.001	<0.001		<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.01	<0.001
ROST-3-MW	ROST3MW-ROX-012313	1/23/2013	37.81 - 47.81	41.50	NE	<0.005	0.0051 J	<0.005		<0.005	0.0028 J	0.0013 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0011 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025 UJ	0.0296
	ROST3MW-ROX-040513	4/5/2013				<0.005 UJ	0.0605	<0.005		<0.005	<0.005	0.0011 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0012 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.0136
	ROST3MW-ROX-071113	7/11/2013		39.50	NE	<0.01 UJ	0.0125	<0.005		<0.005 UJ	<0.005	0.0014 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0014 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005		0.218
	ROST3-MW-ROX-100913	10/9/2013		40.16	NE	<0.01	0.0033	<0.005		<0.0164	0.00073 J	<0.005	<0.005	<0.005	<0.001	<0.001	0.0034	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.0182
	ROST3MW-ROX-011714	1/17/2014		42.20	NE	<0.01	0.004	<0.005		<0.005	0.0012 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.008
	ROST3MW-ROX-041014	4/10/2014		42.80	NE	<0.01	0.0075	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.0055
	ROST3MW-ROX-071414	7/14/2014		41.88	NE	<0.01	0.0058	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.008
	ROST3MW-ROX-100914	10/9/2014		41.31	NE	<0.01 UJ	0.003	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.0398
	ROST3MW-ROX-011515	1/15/2015		41.83	NE	<0.01	0.0022	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.0144
	ROST3MW-ROX-041315	4/13/2015		43.43	NE	0.0251	0.0057	<0.005		<0.005	<0.005	<0.005	<0.005	0.00037 J	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.0085
	ROST3MW-ROX-071315	7/13/2015		42.36	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.00066 U	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.02
	ROST3MW-ROX-101215	10/12/2015	37.81 - 47.81	40.29	NE	0.017 J	<0.001	<0.001		0.0064 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.01	0.06
ROST-4-PZ(C)	ROST4PZ(C)-ROX-011113	1/11/2013	34.95 - 44.95	41.42	NE	<0.005	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.0013
	ROST4PZC-ROX-041013	4/10/2013		42.27	NE	<0.01	0.0153 J	<0.005		<0.01	<0.005	<0.005	<0.005	<0.005	<0.001 UJ	<0.001 UJ	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.001	<0.002	<0.002 UJ	<0.0005 UJ	<0.025	0.0028 J
	ROST4PZC-ROX-071113	7/11/2013		40.18	NE	<0.01 UJ	0.0497	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005		0.0651
	ROST4PZC-ROX-100913	10/9/2013		39.91	NE	<0.01	0.00066	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.0064
	ROST4PZC-ROX-011714	1/17/2014		41.92	NE	<0.01	0.0015	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.0039
	ROST4PZC-ROX-041014	4/10/2014		42.05	NE	<0.01	0.0019	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.00059 J
	ROST4C-ROX-071114	7/10/2014		42.22	NE	<0.01	0.0751	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.0594
	ROST4PZC-ROX-100914	10/9/2014		41.30	NE	<0.01 UJ	0.039	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.0688
	ROST4PZC-ROX-011515	1/15/2015		41.65	NE	0.016	0.0013	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.0035
	ROST4PZC-ROX-041315	4/13/2015		43.00	NE	<0.01	0.0694	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.0806
	ROST4PZC-ROX-101215	10/12/2015	34.95 - 44.95	40.35	NE	0.022 J	0.071	<0.001		0.0097 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.01	0.15

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TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																						
						Acetone	Benzene	Bromobenzene	Butane	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	Dichloromethane (Methylene chloride)	1,2-Dichloropropane	trans-1,3-Dichloropropene	1,4-Dioxane	Ethylbenzene
			Screening Values (mg/L)			6.3 [1]	0.005 [1]	0.056 [3]		4.2 [1]	0.35 [3]			0.7 [1]	0.005 [1]	0.100 [1]		0.07 [1]				0.6 [2]		0.075 [2]	1.4 [1]	0.005 [2]	0.005 [2]	0.001 [2]	0.0077 [1]	0.7 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																								
T-12	T12-ROX-011813	1/18/2013	46.46 - 72.46	44.50	NE	<0.025	2.03	<0.025		<0.0795 U	0.0056 J	0.0036 J	<0.025	<0.025	<0.005	<0.005	<0.01	<0.005	<0.01	<0.025	<0.025	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.0025	<0.13 UJ	0.426
	T12-ROX-041513	4/15/2013		44.99	NE	<0.1 UJ	1.61	<0.05		<0.05	<0.05	0.0595	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.005	<0.25	1.03
	T12-ROX-071613	7/16/2013		42.33	NE	<0.01	1.65	<0.005		<0.005	0.0069 J	0.003 J J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0025 J J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.45
	T12-ROX-101513	10/15/2013		43.73	NE	0.0803	2.02	<0.025		0.0246 J	0.0098 J	0.0038 J	<0.025	<0.025	<0.005	<0.005	<0.01	<0.005	<0.01	<0.025	<0.025	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.0025	<0.13	1.82
	T12-ROX-012414	1/24/2014		45.26	NE	<0.01	2.48	<0.005		<0.005	0.0083	0.0029 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.518
	T12-ROX-041514	4/15/2014		46.72	NE	<0.01 UJ	2.07	<0.005		0.017	0.0062	0.0024 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0018 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	0.376
	T12-ROX-070814	7/8/2014		45.13	NE	0.0658 J	2.14	<0.005		0.0094	0.0096	0.0039 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0024 J	<0.001	<0.001	<0.001	0.0022	<0.002	<0.002	<0.0005	<0.025 UJ	0.614
	T12-ROX-101714	10/17/2014		44.40	NE	<0.1	1.83	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.005	<0.25	1.75
	T12-ROX-011915	1/19/2015		45.27	NE	<0.1	2.02	<0.05		<0.05	0.0115 J	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.005	<0.25	0.596
	T12-ROX-041515	4/15/2015		46.73	NE	<0.01	1.69	<0.005		<0.005	0.0094	0.0045 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0025 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005	<0.025	1.34
	T12-ROX-071015	7/10/2015		46.09	NE	<0.1	2.3	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.005	<0.25	0.197
	T12-ROX-101515	10/15/2015	46.83 - 72.83	43.72	NE	<0.25	2.5	<0.01		<0.25	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	0.2

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TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																					
						Ethyl methacrylate	Hexachlorobutadiene	Hexane	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Styrene	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	Trichloroethene	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
			Screening Values (mg/L)				0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	0.1 [1]	0.005 [1]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																						
MW-01	MW1-ROX-011013	1/10/2013	48.80 - 58.80	41.89	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0015	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-040913	4/9/2013		42.55	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0012	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-070813	7/8/2013		39.56	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0049	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-100313	10/3/2013		40.28	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0013	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-011414	1/14/2014		42.77	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0018	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-040714	4/7/2014		43.28	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-070914	7/9/2014		42.09	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0035	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-100614	10/6/2014		41.1	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.00082 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW1-ROX-011215	1/12/2015		42.73	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.00084 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-040615	4/6/2015		44.11	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.00059 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-070815	7/8/2015		43.35	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-100615	10/6/2015	48.80 - 58.80	40.83	NE	<0.001	<0.005		<0.025		<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001		<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
MW-02	MW2-ROX-011113	1/11/2013	49.87 - 59.87	42.94	NE	<0.01	<0.01		<0.01		0.0879	<0.01	<0.002	0.0768	0.121	<0.01	<0.002	0.0093	<0.01	<0.01	<0.002	<0.002		0.219	0.105	<0.01	0.685	0.0287	0.713
	MW2-ROX-040913	4/9/2013		43.70	NE	<0.025	<0.025		<0.025		0.085	<0.025	<0.005	0.0578	0.11	<0.025	<0.005	0.0073	<0.025	<0.025	<0.005	<0.005		0.338	0.155	<0.025	1.01	0.0454	1.05
	MW2-ROX-071113	7/11/2013		40.82	NE	<0.005	<0.005		<0.005 UJ		0.0931	<0.005	0.0062	0.114	0.127	<0.005	<0.001	0.11	<0.005	<0.005	<0.001	<0.001		0.522	0.175	<0.005 UJ	1.88	0.174	1.88
	MW2-ROX-100813	10/8/2013		41.73	NE	<0.005	<0.005		0.0079		0.0983	<0.005	0.0032	0.0939	0.132	<0.005	<0.001	0.0164	<0.005	<0.005	<0.001	<0.001		0.368	0.174	0.0768	0.912	0.0519	0.912
	MW2-ROX-012014	1/20/2014		44.00	NE	<0.005	<0.005		<0.005		0.102	<0.005	<0.001	0.0663	0.133	<0.005	<0.001	0.0099	<0.005	<0.005	<0.001	<0.001		0.264	0.156	<0.005	0.486	0.0304	0.516
	MW2-ROX-041014	4/10/2014		44.66	NE	<0.005	<0.005		<0.005		0.0816	<0.005	<0.001	0.0474	0.106	<0.005	<0.001	0.0072	<0.005	<0.005	<0.001	<0.001		0.181	0.121	<0.005	0.444	0.0275	0.472
	MW2-ROX-071414	7/14/2014		43.13	NE	<0.005	<0.005		<0.005		0.0966 J	<0.005	<0.001	0.0792 J	0.112 J	<0.005	<0.001	0.0113 J	<0.005	<0.005	<0.001	<0.001		0.341 J	0.15 J	<0.005	0.764	0.0845	0.804
	MW2-ROX-101014	10/10/2014		42.49	NE	<0.01	<0.01		<0.01 UJ		0.0675	<0.01	<0.002	0.0512	0.0867	<0.01	<0.002	0.006	<0.01	<0.01	<0.002	<0.002		0.135	0.0901	<0.01	0.26	0.0183	0.278
	MW2-ROX-011615	1/16/2015		44.1	NE	<0.005	0.0031 J		0.0039 J		0.0823	0.0061	<0.001	0.0626	0.107	0.00052 J	<0.001	0.0121	0.0051	0.0044 J	<0.001	0.0015		0.0895	0.102	<0.005	0.207	0.0206	0.228
	MW2-ROX-041315	4/13/2015		45.56	NE	<0.005	<0.005		<0.005		0.0613	<0.005	0.0013	0.068	0.0802	<0.005	<0.001	0.0103	<0.005	<0.005	<0.001	<0.001		0.185	0.0882	<0.005	0.549	0.0495	0.598
	MW2-ROX-071315	7/13/2015		44.53	NE	<0.005	<0.005		<0.005		0.0683	<0.005	<0.001	0.0878	0.0983	<0.005	<0.001	0.0103	<0.0015 U	<0.005	<0.001	<0.001		0.206	0.109	<0.005	0.719	0.0689	0.78
	MW2-ROX-101215	10/12/2015	49.87 - 59.87	42.15	NE	<0.002	<0.01		<0.05		0.082	<0.05	<0.002	0.039	0.088	<0.002	<0.002	0.013	<0.002	<0.002	<0.01	<0.002		0.1	0.09	<0.05	0.26	0.023	0.28
MW-03	MW3-ROX-010913	1/9/2013	34.67 - 44.67	29.35	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0008 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	0.007	<0.001	<0.001	<0.001
	MW3-ROX-040813	4/8/2013		29.74	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW3-ROX-071113	7/11/2013		26.32	NE	<0.005	<0.005		<0.005 UJ		0.0049 J	<0.005	0.0035	<0.005	0.0055	<0.005	<0.001	0.0013	<0.005	<0.005	<0.001	<0.001		0.0013 J	<0.005	<0.005 UJ	0.0028	<0.001	0.0028
	MW3-ROX-100813	10/8/2013		27.38	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.00075 J	<0.005	0.0021 J	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	0.0197	0.0011	<0.001	0.0011
	MW3-ROX-011614	1/16/2014		29.91	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW3-ROX-040914	4/9/2014		30.50	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW3-ROX-071114	7/10/2014		29.05	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW3-ROX-100914	10/9/2014		28.18	NE	<0.005	<0.005		<0.005		0.0004 J	<0.005	0.0031	<0.005	0.00053 J	<0.005	<0.001	0.00046 J	<0.005	<0.005	<0.001	<0.001		0.0012 J	<0.005	<0.005 UJ	0.00095 J	<0.001	<0.00095 U
	MW3-ROX-011515	1/15/2015		29.65	NE	<0.005	<0.005		<0.005		0.00065 J	<0.005	0.0101	<0.005	0.0018 J	<0.005	<0.001	0.00062 J	<0.005	<0.005	<0.001	<0.001		0.00071 J	0.00031 J	<0.005	0.0014	<0.001	0.0015
	MW3-ROX-041015	4/10/2015		31.16	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0012	<0.005	0.00042 J	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	0.00046 J
	MW3-ROX-071015	7/10/2015		30.01	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	0.00062 J	<0.005	<0.001	0.0014	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	0.00087 J	<0.001	0.00087 J
	MW3-ROX-100915	10/9/2015	34.67 - 44.67	27.98	NE	<0.001	<0.005		<0.025		0.007	<0.025	<0.001	<0.001	0.0036	<0.001	<0.001	0.015	<0.001	<0.001	<0.005	<0.001		<0.001	0.00073 J	<0.025	0.055	0.0028 J	0.058

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																						
						Ethyl methacrylate	Hexachlorobutadiene	Hexane	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Styrene	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	Trichloroethene	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
			Screening Values (mg/L)				0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	0.1 [1]	0.005 [1]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																						
MW-04	MW4-ROX-011113	1/11/2013	46.06 - 56.06	40.20	NE	<0.005	<0.005		<0.005		0.0012 J	<0.005	0.0654	<0.005	0.0026 J	<0.005	<0.001	0.0075	<0.005	<0.005	<0.001	<0.001		0.0019 J	0.0024 J	<0.005	0.0056	<0.001	0.0056
	MW4-ROX-011113-DUP	1/11/2013		40.20	NE	<0.005	<0.005		<0.005		0.0014 J	<0.005	0.0681	<0.005	0.003 J	<0.005	<0.001	0.0083	<0.005	<0.005	<0.001	<0.001		0.0019 J	0.0026 J	<0.005	0.006	<0.001	0.006
	MW4-ROX-030413	3/4/2013		40.20	NE	<0.5	<0.5		<0.5		<0.5	<0.5	0.112	<0.5	<0.5	<0.5	<0.1	<0.1	<0.5	<0.5	<0.1	<0.1		<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
	MW4-ROX-040913	4/9/2013		40.90	NE	<0.01	<0.01		<0.01		<0.01	<0.01	0.112	<0.01	<0.01	<0.01	<0.002	0.0057	<0.01	<0.01	<0.002	<0.002		<0.01	<0.01	<0.01	0.0052	<0.002	0.0062
	MW4-ROX-040913-DUP	4/9/2013		40.90	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.125	<0.005	0.004 J	<0.005	<0.001	0.0076	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	0.0073	0.0011	0.0084
	MW4-ROX-071713	7/17/2013		37.61	NE	<0.005	<0.005		0.0041 J		0.0067	<0.005	0.0559	<0.005	0.008	<0.005	<0.001	0.0381	<0.005	<0.005	0.00085 J	<0.001		0.0012 J	<0.005	0.0392 J	0.0302	0.0052	0.0353
	MW4-ROX-101613	10/16/2013		38.80	NE	<0.05 UJ	<0.05		<0.05		<0.05	<0.05	0.0333 J	<0.05	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.01	<0.01		<0.05	<0.05	<0.05 UJ	<0.01	<0.01	0.0058 J
	MW4-ROX-013014	1/30/2014		41.09	NE	<0.005	<0.005		<0.005		0.0021 J	<0.005	<0.001	<0.005	0.0026 J	<0.005	<0.001	0.0037	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	0.0132	0.0049	0.0181
	MW4-ROX-041614	4/16/2014		41.91	NE	<0.005	<0.005		<0.005		0.00059 J	<0.005	<0.001	<0.005	0.00081 J	<0.005	<0.001	0.00099 J	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	0.0027	0.00039 J	0.0031
	MW4-ROX-071614	7/16/2014		40.18	NE	<0.005	<0.005		<0.005		<0.05	<0.005	<0.001	<0.05	<0.05	<0.005	<0.001	0.006 J	<0.005	<0.005	<0.001	<0.001		<0.05	<0.05	<0.005	<0.01	<0.01	0.0055 J
	MW4-ROX-101614	10/16/2014		39.49	NE	<0.025	<0.025		<0.025		0.0026 J	<0.025	0.0379	<0.025	<0.025	<0.025	<0.005	<0.005	<0.025 UJ	<0.025	<0.005	<0.005		0.0037 J	<0.025	<0.025 UJ	0.0086	0.0022 J	0.0108
	MW4-ROX-012115	1/21/2015		41.27	NE	<0.005	<0.005		<0.005		0.0012 J	<0.005	0.0536	<0.005	0.00093 J	<0.005	<0.001	0.0024	<0.005	<0.005	<0.001	<0.001		0.00045 J	<0.005	<0.005	0.006	0.0013	0.0074
	MW4-ROX-042115	4/21/2015	45.06 - 55.06	42.58	NE	<0.005	<0.005		<0.005		0.0012 J	<0.005	<0.001	<0.005	0.0013 J	<0.005	<0.001	0.0024	<0.005	<0.005	<0.001	<0.001		0.00045 J	<0.005	<0.005	0.0042	0.0011	0.0053
	MW4-ROX-071415	7/14/2015		41.30	NE	<0.005	<0.005		<0.005		0.0026 J	<0.005	<0.001	<0.005	0.0029 J	<0.005	<0.001	0.0033	<0.005	<0.005	<0.001	<0.001		0.00058 J	0.00024 J	<0.005	0.0082	0.0016	0.0098
	MW4-ROX-101915	10/19/2015	45.06 - 55.06	39.44	NE	<0.001	<0.005		<0.025		0.0016	<0.025	0.011	<0.001	0.0015	<0.001	<0.001	0.0014	<0.001	<0.001	<0.005	<0.001		<0.001	<0.001	<0.025	0.0041 J	0.001 J	0.0051
MW-05	MW5-ROX-011113	1/11/2013	33.97 - 43.97	28.75	NE	<0.005	<0.005		<0.005		0.00086 J	<0.005	0.0295	<0.005	<0.005	<0.005	<0.001	0.0008 J	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW5-ROX-040913	4/9/2013		29.41	NE	<0.005	<0.005		<0.005		0.00085 J	<0.005	0.0427	<0.005	<0.005	<0.005	<0.001	0.002	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	0.001	<0.001	0.0014
	MW5-ROX-070913	7/9/2013		26.04	NE	<0.005	<0.005		<0.005		0.0268	<0.005	0.0121	<0.005	0.0132	<0.005	<0.001	0.0029	<0.005	<0.005	0.0018	<0.001		<0.005	<0.005	<0.005 UJ	0.0079	0.0018	0.0097
	MW5-ROX-100813	10/8/2013		26.97	NE	<0.005	<0.005		<0.005		0.0045 J	<0.005	0.0221	<0.005	<0.005	<0.005	<0.001	0.002	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	0.0129	0.0044	0.00097 J	0.0054
	MW5-ROX-011714	1/17/2014		29.59	NE	<0.005	<0.005		<0.005		0.00097 J	<0.005	0.0282	<0.005	<0.005	<0.005	<0.001	0.0014	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	0.0081	0.0045	0.0127
	MW5-ROX-041014	4/10/2014		30.09	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0344	0.001 J	<0.005	<0.005	<0.001	0.0013	<0.005	<0.005	<0.001	<0.001		0.00052 J	<0.005	<0.005	0.0013	0.00095 J	0.0023
	MW5-ROX-071414	7/14/2014		28.59	NE	<0.005	<0.005		<0.005		0.00049 J	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	0.0016	<0.005	<0.005	<0.001	<0.001		0.00033 J	<0.005	<0.005	0.002	0.00073 J	0.0027
	MW-5-ROX-100914	10/9/2014		27.75	NE	<0.005	<0.005		<0.005 UJ		0.0012 J	<0.005	0.019	<0.005	<0.005	<0.005	<0.001	0.0015	<0.005	<0.005	<0.001	<0.001		0.00058 J	<0.005	<0.005	0.0027	0.0012 J	0.0039
	MW5-ROX-011515	1/15/2015		29.34	NE	<0.005	<0.005		<0.005		0.0057	<0.005	0.0215	<0.005	0.0018 J	<0.005	<0.001	0.0014	<0.005	<0.005	<0.001	<0.001		0.00037 J	0.00031 J	<0.005	0.0076	0.0015	0.009
	MW5-ROX-041315	4/13/2015		30.97	NE	<0.005	<0.005		<0.005		0.0076	<0.005	0.0349	<0.005	0.0056	<0.005	<0.001	0.00057 J	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	0.0088	0.00051 J	0.0093
	MW5-ROX-071315	7/13/2015		29.45	NE	<0.005	<0.005		<0.005		0.00097 J	<0.005	0.0413	<0.005	<0.005	<0.005	<0.001	0.00032 J	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	0.0019	0.00032 J	0.0022
	MW5-ROX-101215	10/12/2015	33.97 - 43.97	27.53	NE	<0.001	<0.005		<0.025		0.0031	<0.025	0.021	<0.001	<0.001	<0.001	<0.001	0.0019	<0.001	<0.001	<0.005	<0.001		<0.001	<0.001	<0.025	0.0044 J	<0.005	0.0044 J
MW-06A	MW6A-ROX-011413	1/14/2013	34.83 - 44.83	31.00	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-040313	4/3/2013		31.62	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-070913	7/9/2013		28.25	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0027	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW6A-ROX-070913-DUP	7/9/2013		28.25	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0025	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW6A-ROX-100713	10/7/2013		28.87	NE	<0.005	<0.005		<0.005 UJ		<0.005	<0.005	0.0131	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-100713-DUP	10/7/2013		28.87	NE	<0.005	<0.005		<0.005 UJ		<0.005	<0.005	0.0132	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-011614	1/16/2014		31.62	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0108	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-011614-DUP	1/16/2014		31.62	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0103	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-040814	4/8/2014		32.16	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.00086 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-040814-DUP	4/8/2014		32.16	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-071014	7/10/2014		30.75	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0148	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-100814	10/8/2014		29.84	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0082	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-011415	1/14/2015		31.54	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-040715	4/7/2015		33.08	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0077	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-071515	7/15/2015		31.52	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0045	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-100715	10/7/2015	34.83 - 44.83	29.77	NE	<0.001	<0.005		<0.025		<0.001	<0.025	0.0053	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001		<0.001	<0.001	<0.025	<0.005	<0.005	<0.005

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																					
						Ethyl methacrylate	Hexachlorobutadiene	Hexane	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Styrene	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	Trichloroethene	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
			Screening Values (mg/L)				0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	0.1 [1]	0.005 [1]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																						
MW-06B	MW6B-ROX-011713	1/17/2013	64.05 - 69.05	31.11	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0166	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-040313	4/3/2013		31.68	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0132	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-070913	7/9/2013		28.25	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0069	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW6B-ROX-100713	10/7/2013		28.93	NE	<0.005	<0.005		<0.005 UJ		<0.005	<0.005	0.0113	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-011614	1/16/2014		31.67	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0069	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-040814	4/8/2014		32.21	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0047	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-071014	7/10/2014		30.81	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0054	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-100814	10/8/2014		29.87	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0031	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-011415	1/14/2015		31.59	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-040715	4/7/2015		33.10	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0052	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-040715-DUP	4/7/2015		33.10	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0054	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-071415	7/14/2015		31.56	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0048	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-100715	10/7/2015	64.05 - 69.05	29.80	NE	<0.001	<0.005		<0.025		<0.001	<0.025	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001		<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
MW-06C	MW6C-ROX-011713	1/17/2013	84.95 - 89.95	30.88	NE	<0.005 UJ	<0.005 UJ		<0.005 UJ		<0.005 UJ	<0.005 UJ	0.0012 J	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ		<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ
	MW6C-ROX-040313	4/3/2013		31.41	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0022	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-070913	7/9/2013		28.03	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW6C-ROX-100713	10/7/2013		28.72	NE	<0.005	<0.005		<0.005 UJ		<0.005	<0.005	0.00075 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-011614	1/16/2014		31.48	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.00068 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-040814	4/8/2014		32.01	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-071014	7/10/2014		30.60	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-100814	10/8/2014		29.67	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.00057 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-011415	1/14/2015		31.41	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0037	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-040915	4/9/2015		32.80	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-071415	7/14/2015		31.38	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-100715	10/7/2015	84.95 - 89.95	29.60	NE	<0.001	<0.005		<0.025		<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001		<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
MW-06D	MW6D-ROX-011713	1/17/2013	104.72 - 109.72	30.75	NE	<0.005 UJ	<0.005 UJ		<0.005 UJ		<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ		<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ
	MW6D-ROX-040313	4/3/2013		31.27	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-070913	7/9/2013		27.91	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW6D-ROX-100713	10/7/2013		28.58	NE	<0.005	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-011614	1/16/2014		31.33	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.00061 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-040814	4/8/2014		31.85	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.00094 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-071014	7/10/2014		31.47	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-071014-DUP	7/10/2014		31.47	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-100814	10/8/2014		29.53	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.00054 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-100814-DUP	10/8/2014		29.53	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.00062 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-011415	1/14/2015		31.26	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-011415-DUP	1/14/2015		31.26	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-040715	4/7/2015		32.74	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-071415	7/14/2015		31.19	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-100715	10/7/2015	104.72 - 109.72	29.45	NE	<0.001	<0.005		<0.025		<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001		<0.001	<0.001	<0.025	<0.005	<0.005	<0.005

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																							
						Ethyl methacrylate	Hexachlorobutadiene	Hexane	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Styrene	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	Trichloroethene	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
			Screening Values (mg/L)				0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	0.1 [1]	0.005 [1]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																							
MW-07	MW7-ROX-011513	1/15/2013	42.92 - 52.92	42.21	NE	<20	<20		<20		<20	<20	<4	<20	<20	<20	<4	<4	<20	<20	<4	<4		<20	<20	<20	<4	<4	<4
	MW7-ROX-011513-DUP	1/15/2013		42.21	NE	<20	<20		<20		<20	<20	<4	<20	<20	<20	<4	<4	<20	<20	<4	<4		<20	<20	<20	<4	<4	<4
	MW7-ROX-041013	4/10/2013		42.70	NE	<10	<10		<10		<10	<10	<2	<10	<10	<10	<2	<2	<10	<10	<2	<2		<10	<10	<10	<2	<2	<2
	MW7-ROX-041013-DUP	4/10/2013		42.70	NE	<10	<10		<10		<10	<10	<2	<10	<10	<10	<2	<2	<10	<10	<2	<2		<10	<10	<10	<2	<2	<2
	MW7-ROX-071713	7/17/2013		39.60	NE	<0.005	<0.005		<0.005		0.0096 J	<0.005	0.0031 J	0.0185 J	0.0173 J	<0.005	<0.001	0.289 J	<0.005	<0.005	<0.001	<0.001		0.117 J	0.0264 J	0.0094 J	0.455 J	0.183 J	0.639 J
	MW7-ROX-101613	10/16/2013		40.64	NE	<10 UJ	<10		<10		<10	<10	<2 UJ	<10	<10	<10	<2	<2	<10	<10	<2	<2		<10	<10	<10 UJ	<2	<2	<2
	MW7-ROX-013014	1/30/2014		42.94	NE	<13	<13		<13		<13	<13	<2.5	<13	<13	<13	<2.5	<2.5	<13	<13	<2.5	<2.5		<13	<13	<13	<2.5	<2.5	<2.5
	MW7-ROX-041614	4/16/2014		43.79	NE	<25	<25		<25		<25	<25	<5	<25	<25	<25	<5	<5	<25	<25	<5	<5		<25	<25	<25	<5	<5	<5
	MW7-ROX-071614	7/16/2014		42.05	NE	<0.005	<0.005		<0.005		0.0127 J	<0.005	<0.001	0.0165 J	0.0197 J	<0.005	<0.001	0.224 J	<0.005	<0.005	<0.001	<0.001		0.143 J	0.0324 J	<0.005	0.48 J	0.187 J	0.667 J
	MW7-ROX-071614-DUP	7/16/2014		42.05	NE	<0.005	<0.005		<0.005		0.0131 J	<0.005	<0.001	0.0141 J	0.0194 J	<0.005	<0.001	0.222 J	<0.005	<0.005	<0.001	<0.001		0.142 J	0.0318 J	<0.005	0.465 J	0.181 J	0.647 J
	MW7-ROX-101614	10/16/2014		41.31	NE	<25	<25		<25		<25	<25	<5	<25	<25	<25	<5	<5	<25 UJ	<25	<5	<5		<25	<25	<25 UJ	<5	<5	<5
	MW7-ROX-101614-DUP	10/16/2014		41.31	NE	<25	<25		<25		<25	<25	<5	<25	<25	<25	<5	<5	<25 UJ	<25	<5	<5		<25	<25	<25 UJ	<5	<5	<5
	MW7-ROX-012215	1/22/2015		43.45	NE	<5	<5		<5		<5	<5	<1	<5	<5	<5	<1	<1	<5	<5	<1	<1		<5	<5	<5	<1	<1	<1
	MW7-ROX-012215-DUP	1/22/2015		43.45	NE	<5	<5		<5		<5	<5	<1	<5	<5	<5	<1	<1	<5	<5	<1	<1		<5	<5	<5	<1	<1	<1
	MW7-ROX-042115	4/21/2015		44.63	NE	<0.25	<0.25		<0.25		<0.25	<0.25	<0.05	<0.25	<0.25	<0.25	<0.05	0.295	<0.25	<0.25	<0.05	<0.05		0.0791 J	0.0174 J	<0.25	0.116	0.0357 J	0.152
	MW7-ROX-042115-DUP	4/21/2015		44.63	NE	<0.25	<0.25		<0.25		<0.25	<0.25	<0.05	<0.25	<0.25	<0.25	<0.05	0.285	<0.25	<0.25	<0.05	<0.05		0.0784 J	0.0173 J	<0.25	0.116	0.0369 J	0.153
	MW7-ROX-071515	7/15/2015		43.54	NE	<25	<25		<25		<25	<25	<5	<25	<25	<25	<5	<5	<25	<25	<5	<5		<25	<25	<25	<5	<5	<5
	MW7-ROX-071515-DUP	7/15/2015		43.54	NE	<25	<25		<25		<25	<25	<5	<25	<25	<25	<5	<5	<25	<25	<5	<5		<25	<25	<25	<5	<5	<5
	MW7-ROX-101915	10/19/2015	42.92 - 52.92	41.43	NE	<10	<50		<250		<10	<250	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10		<10	<10	<250	<50	<50	<50
	MW7-ROX-101915-DUP	10/19/2015		41.43	NE	<10	<50		<250		<10	<250	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10		<10	<10	<250	<50	<50	<50
MW-08	MW8-ROX-011513	1/15/2013	33.60 - 43.60	33.30	NE	<10	<10		<10		<10	<10	<2	<10	<10	<10	<2	2.09	<10	<10	<2	<2		<10	<10	<10	<2	<2	<2
	MW8-ROX-041013	4/10/2013		33.77	NE	<25	<25		<25		<25	<25	<5	<25	<25	<25	<5	<5	<25	<25	<5	<5		<25	<25	<25	<5	<5	<5
	MW8-ROX-071713	7/17/2013		30.43	NE	<0.005	<0.005		<0.005		0.0173	<0.005	0.197	0.0335	0.0374	<0.005	<0.001	0.348	<0.005	<0.005	<0.001	<0.001		0.199	0.0598	<0.005 UJ	1.01	0.361	1.3
	MW8-ROX-071713-DUP	7/17/2013		30.43	NE	<0.005	<0.005		<0.005		0.0174	<0.005	0.187	0.0347	0.0383	<0.005	<0.001	0.341	<0.005	<0.005	<0.001	<0.001		0.203	0.0613	<0.005 UJ	0.818 J	0.364	1.05
	MW8-ROX-101613	10/16/2013		31.59	NE	<10 UJ	<10		<10		<10	<10	<2 UJ	<10	<10	<10	<2	<2	<10	<10	<2	<2		<10	<10	<10 UJ	<2	<2	<2
	MW8-ROX-101613-DUP	10/16/2013		31.59	NE	<10 UJ	<10		<10		<10	<10	<2 UJ	<10	<10	<10	<2	<2	<10	<10	<2	<2		<10	<10	<10 UJ	<2	<2	<2
	MW8-ROX-013014	1/30/2014		34.02	NE	<13	<13		<13		<13	<13	1.92 J	<13	<13	<13	<2.5	<2.5	<13	<13	<2.5	<2.5		<13	<13	<13	<2.5	<2.5	<2.5
	MW8-ROX-013014-DUP	1/30/2014		34.02	NE	<13	<13		<13		<13	<13	1.99 J	<13	<13	<13	<2.5	<2.5	<13	<13	<2.5	<2.5		<13	<13	<13	<2.5	<2.5	<2.5
	MW8-ROX-041614	4/16/2014		34.73	NE	<10	<10		<10		<10	<10	<2	<10	<10	<10	<2	<2	<10	<10	<2	<2		<10	<10	<10	<2	<2	<2
	MW8-ROX-041614-DUP	4/16/2014		34.73	NE	<10	<10		<10		<10	<10	<2	<10	<10	<10	<2	<2	<10	<10	<2	<2		<10	<10	<10	<2	<2	<2
	MW8-ROX-071614	7/16/2014		33.01	NE	<0.005 UJ	<0.005 UJ		<0.005 UJ		0.0266 J	<0.005 UJ	0.392 J	0.0598 J	0.0606 J	<0.005 UJ	<0.001 UJ	0.108 J	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ		0.226 J	0.0904 J	<0.005 UJ	0.377 J	0.141 J	0.518 J
	MW8-ROX-101614	10/16/2014		32.23	NE	<5	<5		<5		<5	<5	1.19	<5	<5	<5	<1	<1	<5 UJ	<5	<1	<1		<5	<5	<5 UJ	<1	<1	<1
	MW8-ROX-012215	1/22/2015		34.22	NE	<5	<5		<5		<5	<5	0.906 J	<5	<5	<5	<1	0.259 J	<5	<5	<1	<1		<5	<5	<5	<1	<1	0.318 J
	MW8-ROX-042115	4/21/2015		35.41	NE	<0.25	<0.25		<0.25		<0.25	<0.25	0.506	<0.25	0.0251 J	<0.25	<0.05	0.325	<0.25	<0.25	<0.05	<0.05		0.0473 J	0.0241 J	<0.25	0.164	0.0552	0.22
	MW8-ROX-071515	7/15/2015		34.07	NE	<25	<25		<25		<25	<25	<5	<25	<25	<25	<5	<5	<25	<25	<5	<5		<25	<25	<25	<5	<5	<5
	MW8-ROX-101915	10/19/2015	33.60 - 43.60	32.30	NE	<5	<25		<130		<5	<130	<5	<5	<5	<5	<5	<5	<5	<5	<25	<5		<5	<5	<130	<25	<25	<25
MW-09	MW9-ROX-011113	1/11/2013	46.45 - 56.45	43.90	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-040913	4/9/2013		44.67	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-070813	7/8/2013		42.35	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-100313	10/3/2013		42.27	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-011414	1/14/2014		44.47	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-040714	4/7/2014		44.99	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-070914	7/9/2014		44.35	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-100714	10/7/2014		43.52	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW9-ROX-011315	1/13/2015		44.21	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-040915	4/9/2015		45.38	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-070915	7/9/2015		44.81	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-100815	10/8/2015	46.45 - 56.45	42.64	NE	<0.001	<0.005		<0.025		<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001		<0.001	<0.001	<0.025	<0.005	<0.005	<0.005

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TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
						Ethyl methacrylate	Hexachlorobutadiene	Hexane	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Styrene	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	Trichloroethene	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
			Screening Values (mg/L)				0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	0.1 [1]	0.005 [1]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																						
MW-10	MW10-ROX-011013	1/10/2013	44.43 - 54.43	44.10	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	0.016	<0.001	<0.001	<0.001
	MW10-ROX-012113	1/21/2013		44.10	NE	<0.005	<0.005	<0.02	<0.025		<0.005	<0.025	<0.002	<0.0001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	
	MW10-ROX-040913	4/9/2013		44.60	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW10-ROX-070813	7/8/2013		42.27	NE	<0.005	<0.005		<0.005	1.9	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW10-ROX-100313	10/3/2013		42.38	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW10-ROX-011514	1/15/2014		44.42	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW10-ROX-040714	4/7/2014		45.00	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW10-ROX-070914	7/9/2014		44.35	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW10-ROX-100714	10/7/2014		43.58	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW10-ROX-011315	1/13/2015		44.27	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW10-ROX-040815	4/8/2015		45.30	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW10-ROX-070915	7/9/2015		44.93	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW10-ROX-100915	10/9/2015	44.43 - 54.43	42.79	NE	<0.001	<0.005		<0.025		<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001		<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
MW-11	MW11-ROX-011013	1/10/2013	41.66 - 51.66	41.43	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-040813	4/8/2013		42.02	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-070813	7/8/2013		39.24	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-100713	10/7/2013		39.95	NE	<0.005	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-011514	1/15/2014		42.16	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-040714	4/7/2014		42.70	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-070914	7/9/2014		41.75	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-100714	10/7/2014		40.89	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW11-ROX-011315	1/13/2015		41.93	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-040815	4/8/2015		43.19	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-070915	7/9/2015		42.45	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-100815	10/8/2015	41.66 - 51.66	40.15	NE	<0.001	<0.005		<0.025		<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001		<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
MW-12	MW12-ROX-011013	1/10/2013	41.92 - 51.92	41.83	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	0.00089 J	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-040813	4/8/2013		42.46	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-070913	7/9/2013		39.28	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW12-ROX-100713	10/7/2013		40.22	NE	<0.005	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-011514	1/15/2014		42.54	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-040814	4/8/2014		43.15	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-070914	7/9/2014		41.97	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-100614	10/6/2014		40.98	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW12-ROX-011215	1/12/2015		42.33	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-040615	4/6/2015		43.75	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-070815	7/8/2015		42.86	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-100815	10/8/2015	41.92 - 51.92	40.54	NE	<0.001	<0.005		<0.025		<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001		<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
	MW12-ROX-100815-DUP	10/8/2015		40.54	NE	<0.001	<0.005		<0.025		<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001		<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
MW-13	MW13-ROX-012313	1/23/2013	25.57 - 35.57	29.26	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0082	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW13-ROX-041213	4/12/2013		29.44	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0093	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW13-ROX-071213	7/12/2013		25.67	NE	<0.005	<0.005 UJ		<0.005		<0.005	<0.005	0.0094	<0.005	0.00064 J	<0.005	<0.001 UJ	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW13-ROX-100913	10/9/2013		26.94	NE	<0.005	<0.005 UJ		<0.005		<0.005	<0.005	0.0072	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW13-ROX-012914	1/29/2014		29.63	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.008	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW13-ROX-041114	4/11/2014		30.15	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0062	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW13-ROX-070714	7/7/2014		28.49	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0091	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW13-ROX-101014	10/10/2014		27.48	NE	<0.005	<0.005		<0.005 UJ		<0.005	<0.005	0.0045	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	0.0011
	MW13-ROX-011615	1/16/2015		29.09	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.006	<0.005	<0.005	<0.005	<0.001	0.00076 J	<0.005	<0.005	<0.001	<0.001		0.00064 J	<0.005	<0.005	0.0022	0.00072 J	0.003
	MW13-ROX-041415	4/14/2015		30.71	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0075	<0.005	<0.005	<0.005	<0.001	0.00035 J	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	0.00057 J	0.00024 J	0.00082 J
	MW13-ROX-070815	7/8/2015		29.16	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0054	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW13-ROX-100515	10/5/2015	25.57 - 35.57	27.34	NE	<0.001	<0.005		<0.025		<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001		<0.001	<0.001	<0.025	<0.005	<0.005	<0.005

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																					
						Ethyl methacrylate	Hexachlorobutadiene	Hexane	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Styrene	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	Trichloroethene	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
			Screening Values (mg/L)				0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	0.1 [1]	0.005 [1]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																						
MW-14	MW14-ROX-011813	1/18/2013	33.42 - 43.42	33.05	NE	<0.005	<0.005		<0.005		0.021	<0.005	<0.001	<0.005	0.0162	<0.005	<0.001	0.00097 J	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	0.0026	<0.001	0.003
	MW14-ROX-041113	4/11/2013		33.31	NE	<0.005	<0.005		<0.005		0.0346	<0.005	<0.001	<0.005	0.0206	<0.005	<0.001	0.0014	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	0.0038	<0.001	0.0043
	MW14-ROX-071213	7/12/2013		30.36	NE	<0.005	<0.005 UJ		<0.005		0.0168	<0.005	<0.001	<0.005	0.0109	<0.005	<0.001 UJ	0.00059 J	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	0.0026	<0.001	0.0029
	MW14-ROX-101013	10/10/2013		30.80	NE	<0.005	<0.005		<0.005		0.0011 J	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		0.00088 J	0.0011 J	<0.005	<0.001	<0.001	<0.001
	MW14-ROX-012914	1/29/2014		33.67	NE	<0.005	<0.005		<0.005		0.0036 J	<0.005	<0.001	<0.005	0.002 J	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW14-ROX-041114	4/11/2014		34.30	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW14-ROX-070714	7/7/2014		32.82	NE	<0.005	<0.005		<0.005		0.00073 J	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW14-ROX-101414	10/14/2014		31.65	NE	<0.005	<0.005		<0.005 UJ		0.00043 J	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	0.00041 J
	MW14-ROX-011615	1/16/2015		33.58	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	0.00042 J	<0.005	<0.005	<0.001	<0.001		0.00032 J	<0.005	<0.005	0.00072 J	<0.001	0.001
	MW14-ROX-041415	4/14/2015		35.16	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW14-ROX-070915	7/9/2015		34.06	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.0011 U	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW14-ROX-101315	10/13/2015	33.42 - 43.42	31.88	NE	<0.001	<0.005		<0.025		<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001		<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
MW-16	MW16-ROX-012313	1/23/2013	37.06 - 47.06	43.05	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW16-ROX-040813	4/8/2013		43.39	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW16-ROX-070813	7/8/2013		40.62	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW16-ROX-100813	10/8/2013		41.62	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW16-ROX-011514	1/15/2014		43.76	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW16-ROX-040914	4/9/2014		44.63	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW16-ROX-071014	7/10/2014		43.15	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW16-ROX-100714	10/7/2014		42.27	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW16-ROX-011315	1/13/2015		43.59	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW16-ROX-040915	4/9/2015		44.87	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW16-ROX-070915	7/9/2015		44.26	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	0.00038 J		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW16-ROX-070915-DUP	7/9/2015		44.26	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0048 U	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	0.00097 J	<0.001	0.00097 J
	MW16-ROX-100715	10/7/2015	37.06 - 47.06	41.83	NE	<0.001	<0.005		<0.025		<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001		<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
MW-22	MW22-ROX-012313	1/23/2013	37.88 - 47.88	41.80	NE	<0.25	<0.25		<0.25		0.126 J	<0.25	<0.05	0.396	0.22 J	<0.25	<0.05	10.5	<0.25	<0.25	<0.05	<0.05		1.23	0.288	<0.25 UJ	7.56	3.73	11.3
	MW22-ROX-012313-DUP	1/23/2013		41.80	NE	<0.25	<0.25		<0.25		0.124 J	<0.25	<0.05	0.377	0.234 J	<0.25	<0.05	9.06	<0.25	<0.25	<0.05	<0.05		1.26	0.291	<0.25 UJ	6.96	3.52	10.5
	MW22-ROX-040513	4/5/2013		42.23	NE	<0.005	<0.005		<0.005		0.159 J	0.0124 J	<0.001	0.286 J	0.29 J	<0.005	<0.001	6.14	<0.005	<0.005	<0.001	<0.001		0.931	0.379 J	<0.005	5.15	2.64	7.79
	MW22-ROX-071113	7/11/2013		39.35	NE	<0.005	<0.005		<0.005 UJ		0.131	0.0102	<0.001	0.345	0.242	<0.005	<0.001	3.92	<0.005	<0.005	<0.001	<0.001		0.864	0.309	<0.005 UJ	4.13	2.26	6.39
	MW22-ROX-071113-DUP	7/11/2013		39.35	NE	<0.005	<0.005		<0.005 UJ		0.133	0.0103	<0.001	0.362	0.245	<0.005	<0.001	3.57	<0.005	<0.005	<0.001	<0.001		0.754	0.311	<0.005 UJ	3.83	2.05	5.88
	MW22-ROX-100913	10/9/2013		40.39	NE	<0.005	<0.005 UJ		<0.005		0.137	0.0101	<0.001	0.47	0.244	<0.005	<0.001	6.02	<0.005	<0.005	<0.001	<0.001		1.37	0.357	<0.005	7.46	3.48	10.9
	MW22-ROX-100913-DUP	10/9/2013		40.39	NE	<0.005	<0.005 UJ		<0.005		0.136	0.0084	<0.001	0.445	0.243	<0.005	<0.001	6.32	<0.005	<0.005	<0.001	<0.001		1.43	0.343	<0.005	7.75	3.65	11.4
	MW22-ROX-012014	1/20/2014		42.49	NE	<0.005	<0.005		0.0082		0.169	0.007	<0.001	0.287	0.287	<0.005	<0.001	5.33	<0.005	<0.005	<0.001	<0.001		1.3	0.298	<0.005	5.65	2.65	8.29
	MW22-ROX-012014-DUP	1/20/2014		42.49	NE	<0.005	<0.005		0.0088		0.169	0.007	<0.001	0.262	0.286	<0.005	<0.001	5.71	<0.005	<0.005	<0.001	<0.001		1.37	0.398	<0.005	6.01	2.81	8.83
	MW22-ROX-041014	4/10/2014		43.15	NE	<0.005	<0.005		<0.005		0.157	<0.005	<0.001	0.334	0.254	<0.005	<0.001	5.95	<0.005	<0.005	<0.001	<0.001		1.1	0.384	<0.005	6.85	3.38	10.2
	MW22-ROX-041014-DUP	4/10/2014		43.15	NE	<0.005	<0.005		<0.005		0.138	0.0082	<0.001	0.28	0.235	<0.005	<0.001	5.52	<0.005	<0.005	<0.001	<0.001		1	0.35	<0.005	6.23	3.12	9.35
	MW22-ROX-071414	7/14/2014		41.85	NE	<0.005	<0.005		<0.005		0.153 J	<0.005	<0.001	0.282 J	0.205 J	<0.005	<0.001	3.14	<0.005	<0.005	<0.001	<0.001		0.353 J	0.262 J	<0.005	3.78	1.85	5.64
	MW22-ROX-101014	10/10/2014		41.43	NE	<0.05	<0.05		<0.05 UJ		0.0661	<0.05	<0.01	0.202	0.112	<0.05	<0.01	2.3	<0.05	<0.05	<0.01	<0.01		0.688	0.207	<0.05	3.08	1.74	4.82
	MW22-ROX-011615	1/16/2015		42.19	NE	<0.05	<0.05		<0.05		0.11	0.0111 J	<0.01	0.339	0.2	<0.05	<0.01	3.24	0.0129 J	0.0106 J	<0.01	<0.01		1.05	0.373	<0.05	5.19	2.74	7.93
	MW22-ROX-041415	4/14/2015		43.71	NE	<0.005	<0.005		<0.005		0.124	<0.005	<0.001	0.315	0.219	<0.005	<0.001	4.3	<0.005	<0.005	<0.001	<0.001		1.04	0.321	<0.005	6.26	3.09	9.35
	MW22-ROX-071515	7/15/2015		42.64	NE	<0.1	<0.1		<0.1		0.0926 J	<0.1	<0.02	0.219	0.185	<0.1	<0.02	5.05	<0.1	<0.1	<0.02	<0.02		1.31	0.296	<0.1	6.7	3.48	10.2
	MW22-ROX-101415	10/14/2015	37.88 - 47.88	40.54	NE	<0.02	<0.1		<0.5		0.048	<0.5	<0.02	0.18	0.075	<0.02	<0.02	0.96	<0.02	<0.02	<0.1	<0.02		0.47	0.11	<0.5	3	1.6	4.6
MW-23	MW23-ROX-012615	1/26/2015	29.02 - 39.02	30.90	NE	<0.005	<0.002		<0.01		<0.001	<0.005	0.0037	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.002	<0.002	<0.01	<0.002	<0.001	<0.003
	MW23-ROX-040815	4/8/2015		32.24	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0039	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW23-ROX-071015-BP	7/10/2015		30.54	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	0.004 J	<0.005	<0.005	<0.001	<0.001	<0.0011 U	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	0.00062 J	<0.001	0.00062 J
	MW23-ROX-100515	10/5/2015	29.02 - 39.02	28.89	NE	<0.001	<0.005		<0.025		<0.001	<0.025	0.0013	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001		<0.001	<0.001	<0.025	<0.005	<0.005	<0.005

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
						Ethyl methacrylate	Hexachlorobutadiene	Hexane	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Styrene	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	Trichloroethene	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
				Screening Values (mg/L)			0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	0.1 [1]	0.005 [1]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																						
MW-24	MW24-ROX-040513	4/5/2013	38.89 - 48.89	43.39	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	0.0014	<0.005	<0.005	<0.001	<0.001		0.00051 J	<0.005	<0.005	0.0021	0.0009 J	0.003
	MW24-ROX-071113	7/11/2013		40.35	NE	<0.005	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW24-ROX-100913	10/9/2013		41.27	NE	<0.005	<0.005 UJ		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW24-ROX-011514	1/15/2014		43.47	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW24-ROX-040914	4/9/2014		44.13	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW24-ROX-071114	7/10/2014		42.97	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW24-ROX-100814	10/8/2014		42.16	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW24-ROX-011315	1/13/2015		43.17	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW24-ROX-040915	4/9/2015		44.45	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW24-ROX-070915	7/9/2015		44.65	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW24-ROX-100715	10/7/2015	38.89 - 48.89	41.45	NE	<0.001	<0.005		<0.025		<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001		<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
MW-25	MW25-ROX-102114	10/21/2014	35.59 - 45.59	36.44	NE	<10	<10		<10		<10	<10	<2	<10	<10	<10	<2	2.65	<10	<10	<2	<2		<10	<10	<10	<2	<2	0.753 J
	MW25-ROX-012215	1/22/2015		38.45	NE	<1.3	<1.3		<1.3		<1.3	<1.3	0.282	<1.3	<1.3	<1.3	<0.25	<0.25	<1.3	<1.3	<0.25	<0.25		<1.3	<1.3	<1.3	<0.25	<0.25	0.0821 J
	MW25-ROX-042115	4/21/2015		39.71	NE	<0.25	<0.25		<0.25		<0.25	<0.25	0.125	<0.25	<0.25	<0.25	<0.05	<0.05	<0.25	<0.25	<0.05	<0.05		<0.25	<0.25	<0.25	<0.05	<0.05	<0.05
	MW25-ROX-071515	7/15/2015		38.40	NE	<1	<1		<1		<1	<1	<0.2	<1	<1	<1	0.0577 J	<0.2	<1	<1	<0.2	<0.2		<1	<1	<1	<0.2	<0.2	<0.2
	MW25-ROX-101915	10/19/2015	35.59 - 45.59	36.55	NE	<0.1	<0.5		<2.5		<0.1	<2.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1		<0.1	<0.1	<2.5	<0.5	<0.5	<0.5
MW-26	MW26-ROX-102114	10/21/2014	38.15 - 48.15	39.43	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.002	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW26-ROX-011215	1/12/2015		41.09	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW26-ROX-040815	4/8/2015		42.52	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW26-ROX-070815	7/8/2015		41.76	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW26-ROX-100615	10/6/2015	38.15 - 48.15	39.19	NE	<0.001	<0.005		<0.025		<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001		<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
MW-27	MW27-ROX-102114	10/21/2014	39.79 - 49.79	41.57	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW27-ROX-011515	1/15/2015		42.06	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW27-ROX-041015	4/10/2015		43.22	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW27-ROX-071015	7/10/2015		43.00	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW27-ROX-100815	10/8/2015	39.79 - 49.79	40.32	NE	<0.001	<0.005		<0.025		<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001		<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
MW-28	MW28-ROX-102114	10/21/2014	33.61 - 43.61	36.44	NE	<0.005	<0.005		<0.005		0.00075 J	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	0.0011	<0.005	<0.005	<0.001	<0.001		0.0036 J	0.00059 J	<0.005	0.0036	0.0051	0.0087
	MW28-ROX-011515	1/15/2015		41.14	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	0.00026 J	<0.005	<0.005	<0.001	<0.001		0.00059 J	<0.005	<0.005	0.0012	0.00092 J	0.0021
	MW28-ROX-041415	4/14/2015		42.34	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	0.00042 J	0.00042 J
	MW28-ROX-071515	7/15/2015		42.19	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		0.00031 J	<0.005	<0.005	<0.001	<0.001	<0.001
	MW28-ROX-101215	10/12/2015	33.61 - 43.61	40.04	NE	<0.001	<0.005		<0.025		<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001		<0.001	<0.001	<0.025	<0.005	<0.005	0.0017 J
	MW28-ROX-101215-DUP	10/12/2015		40.04	NE	<0.001	<0.005		<0.025		<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001		<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
P-54	P54-ROX-011113	1/11/2013	38.00 - 63.00	41.56	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-041013	4/10/2013		41.80	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-050313	5/3/2013		41.80	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-071113	7/11/2013		39.07	NE	<0.005	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	P54-ROX-100813	10/8/2013		39.94	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-011514	1/15/2014		42.20	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-040914	4/9/2014		42.80	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-071114	7/10/2014		41.71	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-100814	10/8/2014		40.88	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-011415	1/14/2015		41.79	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-041015	4/10/2015		43.20	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-070915	7/9/2015		42.25	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0037 U	<0.005	<0.005	<0.001	<0.001	<0.005	<0.00092 U	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	0.00028 J
	P54-ROX-100915	10/9/2015	38.00 - 63.00	40.20	NE	<0.001	<0.005		<0.025		<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001		<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
P-55	P55-ROX-012113	1/21/2013	39.82 - 64.82	45.24	NE	<0.05	<0.01	0.276	<0.25		0.0678	<0.25	<0.02	0.079 J	0.14	<0.05	<0.05	0.189	<0.05	<0.01	<0.05	<0.05	0.183	0.039 J	0.026 J	<0.1	0.279	0.347	
	P55-ROX-012113	1/21/2013		45.24	NE	<0.005	<0.005		<0.005		0.0937	<0.005	0.002	0.12	0.206	<0.005	<0.001	0.262	<0.005	<0.005	<0.001	<0.001		0.046	0.0312	<0.005	0.356	0.382	0.738
P-55R	P55-ROX-041513	4/15/2013	40.43 - 50.43	43.63	NE	<0.01	<0.01		<0.01		0.068	<0.01	<0.002	0.0974 J	0.148	<0.01	<0.002	0.143	<0.01	<0.01	<0.002	<0.002		0.0241	0.0229	<0.01	0.235	0.362	0.597
	P55-ROX-071613	7/16/2013		40.06	NE	<0.005	<0.005 UJ		<0.005	0.72	0.0884	<0.005	<0.001	0.0841	0.175	<0.005	<0.001	0.343	<0.005	<0.005	<0.001	<0.001		0.073	0.0559	<0.005 UJ	0.535	0.558	1.11
	P55-ROX-101013	10/10/2013		41.67	NE	<0.005	<0.005		<0.005		0.0851	<0.005	0.001	0.121	0.167	<0.005	<0.001	0.601	<0.005	<0.005	<0.001	<0.001		0.151	0.062	<0.005	0.739	0.639	1.38

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
						Ethyl methacrylate	Hexachlorobutadiene	Hexane	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Styrene	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	Trichloroethene	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
			Screening Values (mg/L)				0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	0.1 [1]	0.005 [1]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																						
P-56	P56-ROX-011713	1/17/2013	40.82 - 65.82	45.65	NE	<0.025	<0.025		<0.025		0.0398	<0.025	<0.005	0.0322	0.0456	<0.025	<0.005	0.0119	<0.025	<0.025	<0.005	<0.005		0.0172 J	0.0092 J	<0.025	0.0745	<0.005	0.0745
	P56-ROX-041213	4/12/2013		46.12	NE	<0.01	<0.01		<0.01		0.0581	<0.01	<0.002	0.0964 J	0.0805	<0.01	<0.002	0.0799	<0.01	<0.01	<0.002	<0.002		0.27	0.0486	<0.01	1	0.0243	1.03
	P56-ROX-071513	7/15/2013		43.25	NE	<0.005	<0.005		<0.005		0.0968	<0.005	<0.001	0.316	0.145	<0.005	<0.001	0.311	<0.005	<0.005	<0.001	<0.001		0.551	0.134	<0.005	2.67	0.21	2.85
	P56-ROX-101013	10/10/2013		44.48	NE	<0.005	<0.005		<0.005		0.0822	<0.005	0.00058 J	0.156	0.105	<0.005	<0.001	0.157	<0.005	<0.005	<0.001	<0.001		0.33	0.0714	<0.005	1.7	0.0617	1.76
	P56-ROX-012214	1/22/2014		46.35	NE	<0.005	<0.005		<0.005		0.0399	<0.005	<0.001	0.0566	0.0426	<0.005	<0.001	0.0263	<0.005	<0.005	<0.001	<0.001		0.074	0.0172	<0.005	0.224	0.0093	0.233
	P56-ROX-041414	4/14/2014		47.32	NE	<0.005	<0.005		<0.005		0.0781	<0.005	<0.001	0.0836	0.0951	<0.005	<0.001	0.0669	<0.005	<0.005	<0.001	<0.001		0.205	0.0472	<0.005	0.742	0.0156	0.758
	P56-ROX-070814	7/8/2014		45.97	NE	<0.005	<0.005		<0.005		0.106 J	<0.005	<0.001	0.156 J	0.133 J	<0.005	<0.001	0.288 J	<0.005	<0.005	<0.001	<0.001		0.487 J	0.166 J	<0.005	2.04 J	0.122 J	2.09 J
	P56-ROX-101314	10/13/2014		45.05	NE	<0.005	<0.005		<0.005 UJ		0.0645	<0.005	<0.001	0.0679	0.0709	<0.005	<0.001	0.0183	<0.005	<0.005	<0.001	<0.001		0.0657	0.0194	<0.005	0.17	0.0066	0.176
	P56-ROX-011915	1/19/2015		46.58	NE	<0.005	<0.005		<0.005		0.0532	<0.005	<0.001	0.0261	0.0574	<0.005	<0.001	0.0114	<0.005	<0.005	<0.001	<0.001		0.0466	0.0135	<0.005	0.143	0.0043	0.148
	P56-ROX-041515	4/15/2015		48.05	NE	<0.005	<0.005		<0.005		0.0768	<0.005	<0.001	0.0754	0.0918	<0.005	<0.001	0.068	<0.005	<0.005	<0.001	<0.001		0.189	0.0454	<0.005	0.737	0.0124	0.749
	P56-ROX-071015	7/10/2015		47.34	NE	<0.005	<0.005		<0.005		0.057	<0.005	<0.001	0.0158	0.0594	<0.005	<0.001	0.005	<0.005	<0.005	<0.001	<0.001		0.0063	0.0041 J	<0.005	0.0702	0.0035	0.0737
	P56-ROX-101415	10/14/2015	40.82 - 65.82	44.85	NE	<0.001	<0.005		<0.025		0.027	0.011 J	<0.001	0.016	0.031	<0.001	<0.001	0.0077	<0.001	<0.001	<0.005	<0.001		0.029	0.0077	<0.025	0.1	0.0031 J	0.1
P-57	P57-ROX-012913	1/29/2013	40.46 - 65.46	45.92	NE	<2.5	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	0.331 J	<2.5	<0.5	<0.5	<2.5	<2.5	<0.5	<0.5		<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	P57-ROX-041113	4/11/2013		46.29	NE	<2.5	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<0.5	<2.5	<2.5	<0.5	<0.5		0.494 J	<2.5	<2.5	<0.5	<0.5	<0.5
	P57-ROX-071613	7/16/2013		43.38	NE	<0.005	<0.005 UJ		<0.005		0.0698 J	<0.005	0.112 J	0.203 J	0.0802 J	<0.005	<0.001	0.202 J	<0.005	<0.005	<0.001	<0.001		<5	0.129 J	<0.005 UJ	1.81	0.256 J	2.01
	P57-ROX-101413	10/14/2013		44.38	NE	<0.005	<0.005		<0.005		0.0539	<0.005	0.107	0.206	0.0586	<0.005	<0.001	0.0421	<0.005	<0.005	<0.001	<0.001		0.763 J	0.12	<0.005	0.468	0.0206	0.489
	P57-ROX-020314	2/3/2014		46.57	NE	<5	<5		<5		<5	<5	<1	<5	<5	<5	<1	<1	<5	<5	<1	<1		<5	<5	<5	<1	<1	<1
	P57-ROX-041514	4/15/2014		46.70	NE	<0.005	<0.005		0.0062		0.0492	<0.005	0.0563	0.272	0.0585	<0.005	<0.001	0.0248	0.0015 J	<0.005	<0.001	<0.001		0.503 E J	0.114	<0.005	0.296	0.0143	0.311
	P57-ROX-070814	7/8/2014		45.95	NE	<0.005 UJ	<0.005 UJ		<0.005 UJ		0.0656 J	<0.005 UJ	<0.001 UJ	0.128 J	0.0605 J	<0.005 UJ	<0.001 UJ	0.154 J	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ		0.375 J	0.0913 J	<0.005 UJ	1.46	0.237	1.7
	P57-ROX-070814-DUP	7/8/2014		45.95	NE	<0.005 UJ	<0.005 UJ		<0.005 UJ		0.0689 J	<0.005 UJ	<0.001 UJ	0.139 J	0.0633 J	<0.005 UJ	<0.001 UJ	0.16 J	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ		0.392 J	0.0954 J	<0.005 UJ	1.56	0.234	1.79
	P57-ROX-101414-DUP	10/14/2014		45.00	NE	<10	<10		<10 UJ		<10	<10	<2	<10	<10	<10	<2	0.849 J	<10	<10	<2	<2		1.18 J	<10	<10	2.37	0.949 J	3.32 J
	P57-ROX-101414	10/14/2014		45.00	NE	<10	<10		<10 UJ		<10	<10	<2	2.05 J	<10	<10	<2	2.65	<10	<10	<2	<2		2.37 J	<10	<10	5.79	2.1	7.89 J
	P57-ROX-012315	1/23/2015	44.19 - 54.19	47.52	NE	<2.5	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<0.5	<2.5	<2.5	<0.5	<0.5		0.652 J	<2.5	<2.5	0.342 J	<0.5	0.342 J
	P57-ROX-042015	4/20/2015		48.73	NE	<0.25	<0.25		<0.25		0.0246 J	<0.25	<0.05	<0.25	0.0468 J	<0.25	<0.05	0.0376 J	<0.25	<0.25	<0.05	<0.05		0.305	0.0323 J	<0.25	0.14	0.0141 J	0.154
	P57-ROX-071315	7/13/2015		47.81	NE	<5	<5		<5		<5	<5	<1	<5	<5	<5	<1	<1	<5	<5	<1	0.44 J		<5	<5	<5	<1	<1	0.237 J
	P57-ROX-101515	10/15/2015	44.19 - 54.19	45.56	NE	<1	<5		<25		<1	<25	<1	<1	<1	<1	<1	1.8	<1	<1	<5	<1		<1	<1	<25	<5	<5	0.63 J
P-58	P58-ROX-012213	1/22/2013	40.21 - 65.21	44.21	NE	<5	<5		<5		<5	<5	<1	<5	<5	<5	<1	<1	<5	<5	<1	<1		<5	<5	<5	<1	<1	0.728 J
	P58-ROX-041113	4/11/2013		44.40	NE	<10	<10		<10		<10	<10	<2	<10	<10	<10	<2	<2	<10	<10	<2	<2		0.926 J	<10	<10	<2	<2	<2
	P58-ROX-071613	7/16/2013		41.49	NE	<0.005	<0.005 UJ		<0.005		0.101	<0.005	<0.001	0.234	0.131	<0.005	<0.001	0.147	<0.005	<0.005	<0.001	<0.001		0.634 J	0.13	<0.005 UJ	0.723	0.12	0.843
	P58-ROX-101413	10/14/2013		42.19	NE	<0.005	<0.005		<0.005		0.0999	0.0055	0.0015	0.234	0.135	<0.005	<0.001	0.2	<0.005	<0.005	<0.001	<0.001		1.17 J	0.131	<0.005	0.74	0.112	0.852
	P58-ROX-020314	2/3/2014		44.66	NE	<5	<5		<5		<5	<5	<1	<5	<5	<5	<1	<1	<5	<5	<1	<1		<5	<5	<5	<1	<1	<1
	P58-ROX-041514	4/15/2014		45.66	NE	<0.005	<0.005		<0.005		0.0777 J	<0.005	<0.001	0.277 J	0.104 J	<0.005	<0.001	0.127 J	<0.005	<0.005	<0.001	<0.001		0.53 E J	0.0992 J	<0.005	0.552 J	0.0908 J	0.643 J
	P58-ROX-071814	7/18/2014		43.80	NE	<10	<10		<10		<10	<10	<2	<10	<10	<10	<2	<2	<10	<10	<2	<2		<10	<10	<10	<2	<2	<2
	P58-ROX-101514	10/15/2014		43.14	NE	<2.5	<2.5		<2.5		1.43 J	<2.5	<0.5	<2.5	0.781 J	<2.5	<0.5	<0.5	<2.5	<2.5	<0.5	<0.5		0.72 J	0.453 J	<2.5	<0.5	0.253 J	0.718
	P58-ROX-012315	1/23/2015		45.32	NE	<5	<5		<5		<5	<5	<1	<5	<5	<5	<1	<1	<5	<5	<1	<1		0.714 J	<5	<5	0.686 J	<1	0.686 J
	P58-ROX-042015	4/20/2015		46.67	NE	<0.05	<0.05		<0.05		0.0575	<0.05	<0.01	0.12	0.0762	<0.05	<0.01	0.101	<0.05	<0.05	<0.01	<0.01		0.549	0.0691	<0.05	0.433	0.0525	0.486
	P58-ROX-071415	7/14/2015		45.54	NE	<5	<5		<5		<5	<5	<1	<5	<5	<5	<1	<1	<5	<5	<1	<1		<5	<5	<5	<1	<1	0.285 J
	P58-ROX-101615	10/16/2015	40.21 - 65.21	43.45	NE	<2	<10		<50		<2	<50	<2	<2	<2	<2	<2	<2	<2	<2	<10	<2		<2	<2	<50	<10	<10	<10

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																							
						Ethyl methacrylate	Hexachlorobutadiene	Hexane	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Styrene	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	Trichloroethene	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
						Screening Values (mg/L)	0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	0.1 [1]	0.005 [1]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																							
P-59	P59-ROX-013013	1/30/2013	47.91 - 72.91	46.60	NE	<0.25	<0.25		<0.25		0.0455 J	<0.25 UJ	<0.05 UJ	0.376	0.085 J	<0.25	<0.05	0.296	<0.25	<0.25	<0.05	<0.05		0.563	0.0491 J	<0.25	4.19	0.264	4.45
	P59-ROX-041213	4/12/2013		46.95	NE	<0.25	<0.25		<0.25		0.062 J	<0.25	<0.05	0.664	0.136 J	<0.25	<0.05	0.523	<0.25	<0.25	<0.05	<0.05		0.946	<0.25	<0.25	6.52	0.646	7.16
	P59-ROX-041213-DUP	4/12/2013		46.95	NE	<0.25	<0.25		<0.25		0.0543 J	<0.25	<0.05	0.547	0.117 J	<0.25	<0.05	0.463	<0.25	<0.25	<0.05	<0.05		0.843	<0.25	<0.25	5.89	0.591	6.48
	P59-ROX-071613	7/16/2013		44.13	NE	<0.005	<0.005 UJ		<0.005		0.074 J	<0.005	<0.001	0.215 J	0.149 J	<0.005	<0.001	1.03	<0.005	<0.005	<0.001	<0.001		0.784	0.219	<0.005 UJ	5.76	0.431	6.19
	P59-ROX-101013	10/10/2013		45.50	NE	<0.005	<0.005		<0.005		0.086	<0.005	0.0012	0.285	0.176	<0.005	<0.001	2.89	<0.005	<0.005	<0.001	<0.001		1.14	0.273	<0.005	7.47	1.28	8.75
	P59-ROX-020314	2/3/2014		47.35	NE	<0.1	<0.1		<0.1		0.0409 J	<0.1	<0.02	0.0321 J	0.0824 J	<0.1	<0.02	0.66	<0.1	<0.1	<0.02	<0.02		0.621	0.193	<0.1	3.79	0.438	4.23
	P59-ROX-041514	4/15/2014		48.60	NE	<0.005	<0.005		0.054		0.0495	<0.005	<0.001	0.196	0.0798	<0.005	<0.001	0.746	0.0027 J	<0.005	<0.001	<0.001		0.385	0.214	<0.005	4.83	0.902	5.73
	P59-ROX-070814	7/8/2014		47.69	NE	<0.005	<0.005		<0.005		0.0948 J	<0.005	<0.001	0.228 J	0.16 J	<0.005	<0.001	1.55	<0.005	<0.005	<0.001	<0.001		0.607	0.285 J	<0.005	4.48	0.929	5.41
	P59-ROX-101414	10/14/2014		46.18	NE	<0.005	<0.005		<0.005 UJ		0.0932 J	<0.005	0.0041 J	0.38 J	0.188 J	<0.005	<0.001	1.13	<0.005	<0.005	<0.001	<0.001		0.901	0.26 J	<0.005	5.14	1.03	6.17
	P59-ROX-011915	1/19/2015		47.42	NE	<0.5	<0.5		<0.5		0.0619 J	<0.5	<0.1	0.572	0.108 J	<0.5	<0.1	0.375	<0.5	<0.5	<0.1	<0.1		0.609	0.21 J	<0.5	4.95	0.245	5.2
	P59-ROX-041615	4/16/2015		48.83	NE	<0.05	<0.05		<0.05		0.0432 J	<0.05	<0.01	0.161	0.0763	<0.05	0.0032 J	0.69	<0.05	<0.05	<0.01	<0.01		0.576	0.177	<0.05	4.78	0.534	5.32
	P59-ROX-071315	7/13/2015		47.85	NE	<0.13	<0.13		<0.13		0.0111 J	<0.13	<0.025	0.162	0.0211 J	<0.13	<0.025	0.103	0.0283 J	<0.13	<0.025	<0.025		0.15	0.0541 J	<0.13	1.6	0.0368	1.63
	P59-ROX-101515	10/15/2015	47.91 - 72.91	45.75	NE	<0.05	<0.25		<1.3		0.03 J	<1.3	<0.05	0.085	0.04 J	<0.05	<0.05	0.54	<0.05	<0.05	<0.25	<0.05		0.28	0.1	<1.3	2.8	0.27	3.1
P-66	P66-ROX-011813	1/18/2013	34.72 - 59.72	35.70	NE	<0.005	<0.005		<0.005		0.146	<0.005	0.104	<0.005	0.193	<0.005	<0.001	0.0015	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	0.00093 J	0.00093 J
	P66-ROX-041113	4/11/2013		36.03	NE	<0.005	<0.005		<0.005		0.287	<0.005	0.086	<0.005	0.384	<0.005	<0.001	0.0012	<0.005	<0.005	<0.001	<0.001		0.0041 J	<0.005	<0.005	<0.001	<0.001	<0.001
	P66-ROX-071213	7/12/2013		33.20	NE	<0.005	<0.005 UJ		<0.005		0.191	<0.005	<0.001	<0.005	0.229	<0.005	<0.001 UJ	0.0018	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	0.001	0.0015
	P66-ROX-101013	10/10/2013		33.66	NE	<0.005	<0.005		<0.005		0.151	<0.005	0.085	0.0104	0.204	<0.005	<0.001	0.0013	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	0.00096 J	0.00096 J
	P66-ROX-110713	11/7/2013		33.66	NE	<0.005	<0.005		<0.005		0.0958	<0.005	0.0528	0.0057	0.0658	<0.005	<0.001	0.00086 J	<0.005	<0.005	0.0015	<0.001		<0.005	<0.005	<0.005	<0.001	0.00057 J	0.00057 J
	P66-ROX-012914	1/29/2014		36.39	NE	<0.005	<0.005		<0.005		0.131	<0.005	<0.001	<0.005	0.157	<0.005	<0.001	0.0017	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	0.0045	0.0045
	P66-ROX-041114	4/11/2014		37.10	NE	<0.005	<0.005		<0.005		0.115	<0.005	<0.001	0.0014 J	0.136	<0.005	<0.001	0.0017	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	0.00072 J	0.0013
	P66-ROX-070714	7/7/2014		35.60	NE	<0.005	<0.005		<0.005		0.144	<0.005	<0.001	<0.005	0.102	<0.005	<0.001	0.0022	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	0.001	0.00099 J	0.002
	P66-ROX-101414	10/14/2014		34.48	NE	<0.005	<0.005		<0.005 UJ		0.129	<0.005	0.0111	<0.005	0.137	<0.005	<0.001	0.0016	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	0.0009 J	0.0018
	P66-ROX-011615	1/16/2015		36.62	NE	<0.005	<0.005		<0.005		0.121	<0.005	0.0171	0.006	0.136	<0.005	<0.001	0.0018	<0.005	<0.005	<0.001	<0.001		0.00073 J	0.00029 J	<0.005	0.00093 J	0.0012	0.0021
	P66-ROX-011615-DUP	1/16/2015		36.62	NE	<0.005	<0.005		<0.005		0.116	<0.005	0.0172	0.0053	0.127	<0.005	<0.001	0.0016	<0.005	<0.005	<0.001	<0.001		0.00041 J	0.00019 J	<0.005	0.001	0.0013	0.0022
	P66-ROX-041415	4/14/2015		38.27	NE	<0.005	<0.005		<0.005		0.133	<0.005	<0.001	<0.005	0.134	<0.005	<0.001	0.0024	<0.005	<0.005	<0.001	<0.001		0.00064 J	<0.005	<0.005	0.0028	0.0015	0.0044
	P66-ROX-041415-DUP	4/14/2015		38.27	NE	<0.005	<0.005		<0.005		0.13	<0.005	<0.001	<0.005	0.132	<0.005	<0.001	0.0022	<0.005	<0.005	<0.001	<0.001		0.00053 J	<0.005	<0.005	0.0024	0.0013	0.0037
	P66-ROX-070815	7/8/2015		37.24	NE	<0.005	<0.005		<0.005		0.133	<0.005	<0.001	<0.005	0.117	<0.005	<0.001	0.0017	<0.005	<0.005	<0.001	<0.001		0.0003 J	<0.005	<0.005	0.0016	0.0011	0.0027
	P66-ROX-070815-DUP	7/8/2015		37.24	NE	<0.005	<0.005		<0.005		0.132	<0.005	<0.001	<0.005	0.119	<0.005	<0.001	0.0018	<0.005	<0.005	<0.001	<0.001		0.00032 J	<0.005	<0.005	0.0016	0.0011	0.0027
	P66-ROX-101315	10/13/2015	34.72 - 59.72	34.84	NE	<0.001	<0.005		<0.025		0.072	<0.025	0.019	0.0035	0.068	<0.001	<0.001	0.00092 J	<0.001	<0.001	<0.005	<0.001		0.0012	<0.001	<0.025	0.0024 J	0.00086 J	0.0033 J
P-74	P74-ROX-011713	1/17/2013	44.43 - 69.43	42.65	NE	<0.1	<0.1		<0.1		<0.1	<0.1	<0.02	0.141	<0.1	<0.1	<0.02	0.278	<0.1	<0.1	<0.02	<0.02		0.249	0.0973 J	<0.1	0.547	<0.02	0.555
	P74-ROX-041113	4/11/2013		42.83	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	0.0016 J	<0.005	<0.005	<0.001	0.003	<0.005	<0.005	<0.001	<0.001		0.0184	0.0138	<0.005	0.0456	0.0146	0.0601
	P74-ROX-071513	7/15/2013		40.11	NE	<0.005	<0.005		<0.005		0.0031 J	<0.005	<0.001	0.024	0.0054	<0.005	<0.001	0.0064	<0.005	<0.005	<0.001	<0.001		0.101	0.0365	<0.005	0.109	0.027	0.136
	P74-ROX-101413	10/14/2013		41.72	NE	<0.005	<0.005		<0.005		0.0052	0.0074	0.0011	0.0257	0.0094	<0.005	<0.001	0.0344	<0.005	<0.005	<0.001	<0.001		0.192	0.0739	<0.005	0.237	0.0483	0.285
	P74-ROX-012414	1/24/2014		43.35	NE	<0.005	<0.005		<0.005		0.0058	<0.005	<0.001	0.0322	0.0112	<0.005	<0.001	0.153	<0.005	<0.005	<0.001	<0.001		0.292	0.11	<0.005	0.316	0.0579	0.374
	P74-ROX-041514	4/15/2014		44.74	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	0.00074 J	<0.005	<0.005	<0.001	0.00078 J	<0.005	<0.005	<0.001	<0.001		0.0083	0.0039 J	<0.005	0.0193	0.0015	0.0208
	P74-ROX-070814	7/8/2014		43.02	NE	<0.005	<0.005		<0.005		0.0018 J J	<0.005	<0.001	0.0128	0.0036 J	<0.005	<0.001	0.0087	<0.005	<0.005	<0.001	<0.001		0.117	0.0518	<0.005	0.121	0.0122	0.133
	P74-ROX-101414	10/14/2014		41.48	NE	<0.005	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	0.00043 J
	P74-ROX-011915	1/19/2015		43.47	NE	<0.005	<0.005		<0.005		0.0029 J	<0.005	0.0056	0.0193	0.0053	<0.005	<0.001	0.102	<0.005	<0.005	<0.001	<0.001		0.135	0.0589	<0.005	0.197	0.019	0.216
	P74-ROX-041515	4/15/2015		44.61	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	0.00042 J	<0.005	<0.001	0.0013	<0.005	<0.005	<0.001	<0.001		0.0086	0.0044 J	<0.005	0.0202	0.0012	0.0214
	P74-ROX-071015	7/10/2015		43.28	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P74-ROX-101415	10/14/2015	44.43 - 69.43	41.75	NE	<0.005	<0.025		<0.13		<0.005	<0.13	<0.005	0.02	0.0038 J	<0.005	<0.005	0.012	<0.005	<0.005	<0.025	<0.005		0.081	0.033	<0.13	0.21	0.0071 J	0.21

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																					
						Ethyl methacrylate	Hexachlorobutadiene	Hexane	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Styrene	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	Trichloroethene	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
			Screening Values (mg/L)				0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	0.1 [1]	0.005 [1]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																						
P-93A	P93A-ROX-012313	1/23/2013	48.17 - 63.17	45.89	NE	<2.5	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<0.5	<2.5	<2.5	<0.5	<0.5		<2.5	<2.5	<2.5 UJ	<0.5	<0.5	<0.5
	P93A-ROX-012313-DUP	1/23/2013		45.89	NE	<2.5	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<0.5	<2.5	<2.5	<0.5	<0.5		<2.5	<2.5	<2.5 UJ	<0.5	<0.5	<0.5
	P93A-ROX-041113	4/11/2013		46.29	NE	<2.5	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<0.5	<2.5	<2.5	<0.5	<0.5		<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	P93A-ROX-041113-DUP	4/11/2013		46.29	NE	<2.5	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<0.5	<2.5	<2.5	<0.5	<0.5		<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	P93A-ROX-071813	7/18/2013		43.25	NE	<0.005	<0.005		<0.005		0.0101	<0.005	0.0054	0.0303	0.0113	<0.005	<0.001	0.0072	<0.005	<0.005	<0.001	<0.001		0.0915	0.0116	<0.005 UJ	0.273	0.0426	0.316
	P93A-ROX-101113	10/11/2013		44.18	NE	<0.005	<0.005		<0.005		0.0142	<0.005	0.0034	0.0621	0.015	<0.005	<0.001	0.0133	<0.005	<0.005	<0.001	<0.001		0.146	0.0163	<0.005 UJ	0.451	0.0789	0.53
	P93A-ROX-012914	1/29/2014		46.53	NE	<2.5	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<0.5	<2.5	<2.5	<0.5	<0.5		<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	P93A-ROX-041714	4/17/2014		47.41	NE	<2.5	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<0.5	<2.5	<2.5	<0.5	<0.5		<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	P93A-ROX-071814	7/18/2014		45.70	NE	<5	<5		<5		<5	<5	<1	<5	<5	<5	<1	<1	<5	<5	<1	<1		<5	<5	<5	<1	<1	<1
	P93A-ROX-071814-DUP	7/18/2014		45.70	NE	<5	<5		<5		<5	<5	<1	<5	<5	<5	<1	<1	<5	<5	<1	<1		<5	<5	<5	<1	<1	<1
	P93A-ROX-101514	10/15/2014		45.06	NE	<2.5	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<0.5	<2.5	<2.5	<0.5	<0.5		0.442 J	<2.5	<2.5	<0.5	0.263 J	0.65
	P93A-ROX-101514-DUP	10/15/2014		45.06	NE	<2.5	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<0.5	<2.5	<2.5	<0.5	<0.5		<2.5	<2.5	<2.5	<0.5	0.258 J	0.635
	P93A-ROX-012715	1/27/2015	43.07 - 53.07	46.05	NE	<0.005 UJ	<0.002 UJ		<0.01 UJ		0.0073 J	0.0011 J J	0.0013 J	0.0243 J	0.008 J	<0.001 UJ	<0.001 UJ	0.0039 J	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ		0.127 E J	0.0282 J	<0.01 UJ	0.138 J	0.0347 J	0.173 J
	P93A-ROX-041715	4/17/2015		47.02	NE	<0.005	<0.005		<0.005		0.0049 J	<0.005	<0.001	0.011	0.0059	<0.005	<0.001	0.003	<0.005	<0.005	<0.001	<0.001		0.0886	0.03	<0.005	0.0477	0.0199	0.0677
	P93A-ROX-071315	7/13/2015		45.93	NE	<0.5	<0.5		<0.5		<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.1	0.0342 J	<0.5	<0.5	<0.1	<0.1		0.0313 J	<0.5	<0.5	<0.1	<0.1	0.0502 J
	P93A-ROX-101515	10/15/2015	43.07 - 53.07	43.69	NE	<1	<5		<25		<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<25	<5	<5	<5
	P93A-ROX-101515-DUP	10/15/2015		43.69	NE	<1	<5		<25		<1	<25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<25	<5	<5	<5
P-93B	P93B-ROX-012313	1/23/2013	74.60 - 76.60	45.89	NE	<5	<5		<5		<5	<5	<1	<5	<5	<5	<1	<1	<5	<5	<1	<1		<5	<5	<5 UJ	<1	<1	<1
	P93B-ROX-041113	4/11/2013		46.32	NE	<2.5	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<0.5	<2.5	<2.5	<0.5	<0.5		<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	P93B-ROX-071813	7/18/2013		43.30	NE	<0.005	<0.005		<0.005		0.0247	<0.005	0.0035	0.0093	0.0357	<0.005	<0.001	0.0646	<0.005	<0.005	<0.001	<0.001		0.025	0.0069	0.0176 J	0.195	0.0418	0.236
	P93B-ROX-101613	10/16/2013		44.43	NE	<10 UJ	<10		<10		<10	<10	<2 UJ	<10	<10	<10	<2	<2	<10	<10	<2	<2		<10	<10	<10 UJ	<2	<2	<2
	P93B-ROX-101613-DUP	10/16/2013		44.43	NE	<10 UJ	<10		<10		<10	<10	<2 UJ	<10	<10	<10	<2	<2	<10	<10	<2	<2		<10	<10	<10 UJ	<2	<2	<2
	P93B-ROX-012814	1/28/2014		46.58	NE	<5	<5		<5		<5	<5	<1	<5	<5	<5	<1	<1	<5	<5	<1	<1		<5	<5	<5	<1	<1	<1
	P93B-ROX-012814-DUP	1/28/2014		46.58	NE	<5	<5		<5		<5	<5	<1	<5	<5	<5	<1	<1	<5	<5	<1	<1		<5	<5	<5	<1	<1	<1
	P93B-ROX-041714	4/17/2014		47.46	NE	<2.5	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<0.5	<2.5	<2.5	<0.5	<0.5		<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	P93B-ROX-041714-DUP	4/17/2014		47.46	NE	<2.5	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<0.5	<2.5	<2.5	<0.5	<0.5		<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	P93B-ROX-071714	7/17/2014		45.75	NE	<0.005 UJ	<0.005 UJ		<0.005 UJ		0.0227 J	<0.005 UJ	<0.001 UJ	0.0053 J	0.0297 J	<0.005 UJ	<0.001 UJ	0.0129 J	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ		0.008 J	0.0037 J J	<0.005 UJ	0.0662 J	0.0047 J	0.0708
	P93B-ROX-101514	10/15/2014		45.15	NE	<2.5	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<0.5	<2.5	<2.5	<0.5	<0.5		<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	P93B-ROX-012315	1/23/2015		47.24	NE	<5	<5		<5		<5	<5	<1	<5	<5	<5	<1	<1	<5	<5	<1	<1		<5	<5	<5	<1	<1	<1
	P93B-ROX-012315-DUP	1/23/2015		47.24	NE	<5	<5		<5		<5	<5	<1	<5	<5	<5	<1	<1	<5	<5	<1	<1		<5	<5	<5	<1	<1	<1
	P93B-ROX-021915	2/19/2015		47.24	NE	<2.5	<1		<5		<0.5	<2.5	<0.5	<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<1	<1	<5	<1	<0.5	<1.5
	P93B-ROX-041615	4/16/2015		48.42	NE	<0.005	<0.005		<0.005		0.0226	<0.005	<0.001	0.0033 J	0.0286	<0.005	0.00073 J	0.111	<0.005	<0.005	<0.001	<0.001		0.0124	0.0043 J	<0.005	0.0993	0.0378	0.137
	P93B-ROX-041615-DUP	4/16/2015		48.42	NE	<5	<5		<5		<5	<5	<1	<5	<5	<5	0.216 J	<1	<5	<5	<1	<1		<5	<5	<5	<1	<1	0.338 J
	P93B-ROX-070915	7/9/2015		47.74	NE	<25	<25		<25		<25	<25	<5	<25	<25	<25	<5	<5	<25	<25	<5	<5		<25	<25	<25	<5	<5	<5
	P93B-ROX-070915-DUP	7/9/2015		47.74	NE	<10	<10		<10		<10	<10	<2	7.01 J	<10	<10	<2	<2	<10	<10	<2	<2		<10	<10	<10	<2	<2	<2
	P93B-ROX-101515	10/15/2015	74.60 - 76.60	45.18	NE	<2.5	<13		<63		<2.5	<63	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<13	<2.5		<2.5	<2.5	<63	<13	<13	<13
P-93C	P93C-ROX-012313	1/23/2013	94.26 - 96.26	45.78	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0044	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	P93C-ROX-041213	4/12/2013		46.21	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0045	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93C-ROX-071813	7/18/2013		43.31	NE	<0.005	<0.005		<0.005		0.002 J	<0.005	0.0049	<0.005	0.002 J	<0.005	<0.001	0.007	<0.005	<0.005	<0.001	<0.001		0.0016 J	<0.005	<0.005 UJ	0.0076	0.0015	0.0091
	P93C-ROX-080813	8/8/2013		43.31	NE	<0.25	<0.25		<0.25		<0.25	<0.25	<0.05	<0.25	<0.25	<0.25	<0.05	<0.05	<0.25	<0.25	<0.05	<0.05		<0.25	<0.25	<0.25	<0.05	<0.05	<0.05
	P93C-ROX-101613	10/16/2013		44.31	NE	<0.005 UJ	<0.005		<0.005		<0.005	<0.005	0.0035 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	P93C-ROX-012414	1/24/2014		46.44	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0047	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93C-ROX-041714	4/17/2014		47.34	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0043	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93C-ROX-071714	7/17/2014		45.61	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0061 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93C-ROX-101514	10/15/2014		44.99	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0046	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93C-ROX-011915	1/19/2015	92.47 - 97.47	46.77	NE	<0.5	<0.5		<0.5		<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.1	<0.1	<0.5	<0.5	<0.1	<0.1		<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
	P93C-ROX-021915	2/19/2015		46.77	NE	<5	<2		<10		<1	<5	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1		<2	<2	<10	<2	<1	<3
	P93C-ROX-041615	4/16/2015		48.22	NE	<0.5	<0.5		<0.5		<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.1	0.0295 J	<0.5	<0.5	<0.1	<0.1		<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
	P93C-ROX-071315	7/13/2015		47.09	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0016	<0.0037 U	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		0.00059 J	<0.005	<0.005	0.00095 J	<0.001	0.0011
	P93C-ROX-101415	10/14/2015	92.47 - 97.47	44.91	NE	<0.001	<0.005		<0.025		<0.001	<0.025	0.0022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001		<0.001	<0.001	<0.025	<0.005	<0.005	<0.005

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																					
						Ethyl methacrylate	Hexachlorobutadiene	Hexane	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Styrene	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	Trichloroethene	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
			Screening Values (mg/L)				0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	0.1 [1]	0.005 [1]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																						
P-93D	P93D-ROX-012213	1/22/2013	125.75 - 127.75	44.21	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		0.0015 J	<0.005	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-041113	4/11/2013		46.37	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-071213	7/12/2013		43.51	NE	<0.005	<0.005 UJ		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001 UJ	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	P93D-ROX-101113	10/11/2013		44.24	NE	<0.005 UJ	<0.005		<0.005		<0.005	<0.005	0.00066 J J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	P93D-ROX-013114	1/31/2014		46.62	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0011	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-041414	4/14/2014		47.54	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	0.0017 J	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-071714	7/17/2014		45.78	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0011 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-101514	10/15/2014		45.14	NE	<0.05	<0.05		<0.05		<0.05	<0.05	<0.01	<0.05	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.01	<0.01		0.0083 J	<0.05	<0.05	<0.01	<0.01	<0.01
	P93D-ROX-110414	11/4/2014		45.14	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.002	<0.005	0.00067 J	<0.005	<0.001	0.0018	<0.005	<0.005	<0.001	<0.001		0.00057 J	<0.005	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-012315	1/23/2015		42.28	NE	<1.3	<1.3		<1.3		<1.3	<1.3	<0.25	<1.3	<1.3	<1.3	<0.25	<0.25	<1.3	<1.3	<0.25	<0.25		<1.3	<1.3	<1.3	<0.25	<0.25	<0.25
	P93D-ROX-021915	2/19/2015		42.28	NE	<13	<5		<25		<2.5	<13	<2.5	<13	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5		<5	<5	<25	<5	<2.5	<7.5
	P93D-ROX-042015	4/20/2015		48.52	NE	<0.5	<0.5		<0.5		<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.1	<0.1	<0.5	<0.5	<0.1	<0.1		<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
	P93D-ROX-070915	7/9/2015		47.96	NE	<2.5	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<0.5	<2.5	<2.5	<0.5	<0.5		<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	P93D-ROX-101515	10/15/2015	125.75 - 127.75	45.28	NE	<0.1	<0.5		<2.5		<0.1	<2.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1		<0.1	<0.1	<2.5	<0.5	<0.5	0.081 J
P-114	P114-ROX-012313	1/23/2013	32.67 - 52.67	30.22	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.003 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	P114-ROX-041513	4/15/2013		31.80	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0051	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P114-ROX-071813	7/18/2013		27.22	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0023 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	P114-ROX-071813-DUP	7/18/2013		27.22	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0022 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	P114-ROX-101713	10/17/2013		29.43	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0036	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P114-ROX-012814	1/28/2014		32.11	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0153	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P114-ROX-042114	4/21/2014		32.22	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0093	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P114-ROX-071814	7/18/2014		30.87	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0037	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P114-ROX-101714	10/17/2014		29.43	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0098 J	<0.005	0.00087 J J	<0.005	<0.001	<0.001	<0.005 UJ	<0.005	<0.001	<0.001		<0.005	0.00043 J J	<0.005 UJ	0.00059 J J	<0.001	0.00059 J J
	P114-ROX-012115	1/21/2015		31.53	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0268 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		0.00046 J J	<0.005	<0.005	0.00068 J J	<0.001	0.00093 J J
	P114-ROX-041715	4/17/2015		NM	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0237	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P114-ROX-070815	7/8/2015		29.16	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0265	0.002 J	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
P-114R	P114R-ROX-100515	10/5/2015	23.01 - 33.01	26.24	NE	<0.001	<0.005		<0.025		<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001		<0.001	<0.001	<0.025	<0.005	<0.005	<0.005
ROST-3-MW	ROST3MW-ROX-012313	1/23/2013	37.81 - 47.81	41.50	NE	<0.005	<0.005		<0.005		0.0066	<0.005	<0.001	0.0076	0.0156	<0.005	<0.001	0.0016	<0.005	<0.005	<0.001	<0.001		0.0786	0.022	<0.005 UJ	0.114	0.0159	0.13
	ROST3MW-ROX-040513	4/5/2013				<0.005	<0.005		<0.005		0.0032 J	<0.005	<0.001	0.132 J	0.0082	<0.005	<0.001	0.0076	<0.005	<0.005	<0.001	<0.001		0.0531	0.0145	<0.005	0.0603	0.0126	0.0729
	ROST3MW-ROX-071113	7/11/2013		39.50	NE	<0.005	<0.005		<0.005 UJ		0.0146	<0.005	<0.001	0.0411	0.0279	<0.005	<0.001	0.014	<0.005	<0.005	<0.001	<0.001		0.164	0.0373	<0.005 UJ	0.644	0.124	0.768
	ROST3-MW-ROX-100913	10/9/2013		40.16	NE	<0.005	<0.005 UJ		<0.005		0.0017 J	<0.005	<0.001	0.0045 J	0.0029 J	<0.005	<0.001	0.0018	<0.005	<0.005	<0.001	<0.001		0.0168	0.0035 J	<0.005	0.0422	0.0123	0.0546
	ROST3MW-ROX-011714	1/17/2014		42.20	NE	<0.005	<0.005		<0.005		0.00099 J	<0.005	<0.001	<0.005	0.002 J	<0.005	<0.001	0.0012	<0.005	<0.005	<0.001	<0.001		0.0207	0.0057	<0.005	0.0377	0.0063	0.044
	ROST3MW-ROX-041014	4/10/2014		42.80	NE	<0.005	<0.005		<0.005		0.00043 J	<0.005	<0.001	0.00084 J	0.00082 J	<0.005	<0.001	0.0015	<0.005	<0.005	<0.001	<0.001		0.0121	0.003 J	<0.005	0.0287	0.0028	0.0315
	ROST3MW-ROX-071414	7/14/2014		41.88	NE	<0.005	<0.005		<0.005		0.00053 J	<0.005	<0.001	0.0045 J	0.00098 J	<0.005	<0.001	0.0024	<0.005	<0.005	<0.001	<0.001		0.0132	0.0032 J	<0.005	0.0371	0.0041	0.0412
	ROST3MW-ROX-100914	10/9/2014		41.31	NE	<0.005	<0.005		<0.005		0.0021 J	<0.005	<0.001	0.0061	0.0028 J	<0.005	<0.001	0.0032	<0.005	<0.005	<0.001	<0.001		0.018	0.005	<0.005 UJ	0.0651	0.0205	0.0856
	ROST3MW-ROX-011515	1/15/2015		41.83	NE	<0.005	<0.005		<0.005		0.0016 J	<0.005	<0.001	0.0061	0.0021 J	<0.005	<0.001	0.0011	<0.005	<0.005	<0.001	<0.001		0.0126	0.0036 J	<0.005	0.0166	0.0042	0.0209
	ROST3MW-ROX-041315	4/13/2015		43.43	NE	<0.005	<0.005		<0.005		0.0014 J	<0.005	<0.001	<0.005	0.0015 J	<0.005	<0.001	0.0008 J	<0.005	<0.005	<0.001	<0.001		0.0055	0.00068 J	<0.005	0.0015	0.0029	0.0044
	ROST3MW-ROX-071315	7/13/2015		42.36	NE	<0.005	<0.00071 U		<0.005		0.00093 J	<0.005	<0.001	0.0052 J	0.0012 J	<0.005	<0.001	0.0027	<0.0015 U	<0.0013 U	<0.001	<0.001		0.0059	0.00061 J	0.0583	0.0263	0.0065	0.0328
	ROST3MW-ROX-101215	10/12/2015	37.81 - 47.81	40.29	NE	<0.001	<0.005		<0.025		0.0023	<0.025	<0.001	0.008	0.0029	<0.001	<0.001	0.0036	<0.001	<0.001	<0.005	<0.001		0.02	0.0045	<0.025	0.13	0.024	0.16
ROST-4-PZ(C)	ROST4PZ(C)-ROX-011113	1/11/2013	34.95 - 44.95	41.42	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001		0.002 J	0.0014 J	<0.005	0.0018	<0.001	0.0018
	ROST4PZC-ROX-041013	4/10/2013		42.27	NE	<0.005	<0.005		<0.005 UJ		0.00061 J J	<0.005 UJ	<0.001	<0.005	0.0011 J	<0.005 UJ	<0.001 UJ	0.0006 J J	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ		0.0016 J	<0.005	<0.005	<0.001 UJ	<0.001 UJ	<0.001 UJ
	ROST4PZC-ROX-071113	7/11/2013		40.18	NE	<0.005	<0.005		<0.005 UJ		0.0025 J	<0.005	<0.001	0.0189	0.0041 J	<0.005	<0.001	0.041	<0.005	<0.005	<0.001	<0.001		0.0194	0.0044 J	<0.005 UJ	0.126	0.0649	0.191
	ROST4PZC-ROX-100913	10/9/2013		39.91	NE	<0.005	<0.005 UJ		<0.005		0.00066 J	<0.005	<0.001	0.0054	0.0012 J	<0.005	<0.001	0.0013	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	0.0101	0.0054	0.0155
	ROST4PZC-ROX-011714	1/17/2014		41.92	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	0.00073 J	<0.005	<0.001	0.0014	<0.005	<0.005	<0.001	<0.001		0.0017 J	<0.005	<0.005	0.0124	0.0057	0.018
	ROST4PZC-ROX-041014	4/10/2014		42.05	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	0.00057 J	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	0.0015	0.0015	0.003
	ROST4C-ROX-071114	7/10/2014		42.22	NE	<0.005	<0.005		<0.005		0.00037 J	<0.005	<0.001	0.0104	<0.005	<0.005	<0.001	0.0421	<0.005	<0.005	<0.001	<0.001		0.00082 J	<0.005	<0.005	0.0574	0.0815	0.139
	ROST4PZC-ROX-100914	10/9/2014		41.30	NE	<0.005	<0.005		<0.005		0.0011 J	<0.005	<0.001	0.0169	0.0011 J	<0.005	<0.001	0.0196	<0.005	<0.005	<0.001	<0.001		0.0046 J	0.00047 J	<0.005 UJ	0.112	0.0634	0.176
	ROST4PZC-ROX-011515	1/15/2015		41.65	NE	<0.005	<0.005		<0.005		0.00036 J	<0.005	<0.001	<0.005	0.00056 J	<0.005	<0.001	0.0005 J	<0.005	<0.005	<0.001	<0.001		0.0011 J	<0.005	<0.005	0.0026	0.0031	0.0057
	ROST4PZC-ROX-041315	4/13/2015		43.00	NE	<0.005	<0.005		<0.005		0.0013 J	<0.005	<0.001	0.0146	0.0013 J	<0.005	<0.001	0.0313	<0.005	<0.005	<0.001	<0.001		0.0052	0.00075 J	<0.005	0.148	0.0203	0.168
	ROST4PZC-ROX-101215	10/12/2015	34.95 - 44.95	40.35	NE	<0.001	<0.005		<0.025		0.0051	<0.025	<0.001	0.082	0.0059	<0.001	<0.001	0.042	<0.001	<0.001	<0.005	<0.001		0.036	0.0066	<0.025	0.53	0.036	0.57

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TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																					
						Ethyl methacrylate	Hexachlorobutadiene	Hexane	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Styrene	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	Trichloroethene	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
			Screening Values (mg/L)				0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	0.1 [1]	0.005 [1]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																						
T-12	T12-ROX-011813	1/18/2013	46.46 - 72.46	44.50	NE	<0.025	<0.025		<0.025		0.031	<0.025	<0.005	0.129	0.0466	<0.025	<0.005	0.184	<0.025	<0.025	<0.005	<0.005		0.42	0.0407	<0.025	1.11	0.0252	1.13
	T12-ROX-041513	4/15/2013		44.99	NE	<0.05	<0.05		<0.05		0.0405 J	<0.05	<0.01	0.266 J	0.076	<0.05	<0.01	0.592	<0.05	<0.05	<0.01	<0.01		0.309	<0.05	<0.05	1.2	0.104	1.3
	T12-ROX-071613	7/16/2013		42.33	NE	<0.005	<0.005 UJ		<0.005		0.0363 J	<0.005	<0.001	0.122 J	0.0627 J	<0.005	<0.001	0.186 J	<0.005	<0.005	<0.001	<0.001		0.361 J	0.0238 J	<0.005 UJ	0.794 J	0.0145 J	0.808 J
	T12-ROX-101513	10/15/2013		43.73	NE	<0.025	<0.025		<0.025		0.0618	<0.025	<0.005	0.215 J	0.114	<0.025	<0.005	0.697	<0.025	<0.025	<0.005	<0.005		0.575	0.0607	<0.025	2.43	0.139	2.57
	T12-ROX-012414	1/24/2014		45.26	NE	<0.005	<0.005		<0.005		0.0362	<0.005	<0.001	0.171	0.0676	<0.005	<0.001	0.421	<0.005	<0.005	<0.001	<0.001		0.526	0.0507	<0.005	1.12	0.0469	1.23
	T12-ROX-041514	4/15/2014		46.72	NE	<0.005	<0.005		<0.005		0.0306	<0.005	<0.001	0.12	0.0534	<0.005	<0.001	0.406	<0.005	<0.005	<0.001	<0.001		0.22 J	0.0339	<0.005	0.841	0.0401	0.864
	T12-ROX-070814	7/8/2014		45.13	NE	<0.005	<0.005		<0.005		0.0577 J	<0.005	<0.001	0.146	0.0912	<0.005	<0.001	0.686	<0.005	<0.005	<0.001	<0.001		0.425	0.0589	<0.005	1.25	0.0909	1.3
	T12-ROX-101714	10/17/2014		44.40	NE	<0.05	<0.05		<0.05		0.0459 J	<0.05	<0.01	0.184 J	0.0707	<0.05	<0.01	0.722	<0.05 UJ	<0.05	<0.01	<0.01		0.244	0.0391 J	<0.05 UJ	2.25	0.114	2.36
	T12-ROX-011915	1/19/2015		45.27	NE	<0.05	<0.05		<0.05		0.0432 J	<0.05	0.0033 J	0.196	0.0745	<0.05	<0.01	0.337	<0.05	<0.05	<0.01	<0.01		0.391	0.0521	<0.05	1.3	0.0747	1.38
	T12-ROX-041515	4/15/2015		46.73	NE	<0.005	<0.005		<0.005		0.0662	<0.005	<0.001	0.131	0.117	<0.005	<0.001	0.658	<0.005	<0.005	<0.001	<0.001		0.331	0.0543	<0.005	1.62	0.177	1.62
	T12-ROX-071015	7/10/2015		46.09	NE	<0.05	<0.05		<0.05		0.0222 J	<0.05	<0.01	0.0798	0.0455 J	<0.05	<0.01	0.0782	<0.05	<0.05	<0.01	<0.01		0.185	0.0173 J	<0.05	0.594	0.0097 J	0.603
	T12-ROX-101515	10/15/2015	46.83 - 72.83	43.72	NE	<0.01	<0.05		<0.25		0.034	<0.25	<0.01	0.081	0.055	<0.01	<0.01	0.096	<0.01	<0.01	<0.05	<0.01		0.15	0.016	<0.25	0.55	0.008 J	0.56

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TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																				
						Acenaphthene	Acenaphthylene	Aniline	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol	Dimethyl phthalate
			Screening Values (mg/L)			0.42 [1]	0.21 [3]	0.023 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																						
MW-01	MW1-ROX-011013	1/10/2013	48.80 - 58.80	41.89	NE	<0.000024 U	<0.0001	<0.01 UJ	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052 UJ
	MW1-ROX-040913	4/9/2013		42.55	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0011 U	<0.011	<0.0053 UJ
	MW1-ROX-070813	7/8/2013		39.56	NE	<0.000026 U	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	0.000027 J	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.0024 U	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
	MW1-ROX-100313	10/3/2013		40.28	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00065 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW1-ROX-011414	1/14/2014		42.77	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011 UJ	<0.0053 UJ	<0.00011	<0.00011	<0.0021	<0.011 UJ	<0.0053	<0.011 UJ	<0.0053
	MW1-ROX-040714	4/7/2014		43.28	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	0.003 J J	<0.011	<0.0054	<0.0022	<0.0054	<0.011 UJ	<0.0057 UJ	<0.00011	<0.00011	<0.0022	<0.011 UJ	<0.0054	<0.011 UJ	<0.0054
	MW1-ROX-070914	7/9/2014		42.09	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW1-ROX-100614	10/6/2014		41.1	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW1-ROX-011215	1/12/2015		42.73	NE	0.00003 J	0.000027 J	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW1-ROX-040615	4/6/2015		44.11	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	0.00046 J	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW1-ROX-070815	7/8/2015		43.35	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW1-ROX-100615	10/6/2015	48.80 - 58.80	40.83	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.01	<0.01
MW-02	MW2-ROX-011113	1/11/2013	49.87 - 59.87	42.94	NE	0.00016	0.000019 J	<0.011 UJ	<0.00011	<0.000056	0.000027 J	0.000039 J	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056 UJ
	MW2-ROX-040913	4/9/2013		43.70	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	0.005 J	<0.0054 UJ
	MW2-ROX-071113	7/11/2013		40.82	NE	0.000035 J	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0055	0.00063 J	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	0.005 J	<0.0055
	MW2-ROX-100813	10/8/2013		41.73	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW2-ROX-012014	1/20/2014		44.00	NE	<0.00011	0.00018	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW2-ROX-041014	4/10/2014		44.66	NE	<0.00012	<0.00012	<0.012	<0.00012	<0.00006	<0.00012	<0.00006	<0.00012	<0.00012	<0.012 UJ	<0.012	<0.006	<0.0024	<0.006	<0.012	<0.006	<0.00012	<0.00012	<0.0024	<0.012	<0.006	<0.012	<0.006
	MW2-ROX-071414	7/14/2014		43.13	NE	0.000084 J	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00037 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW2-ROX-101014	10/10/2014		42.49	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
	MW2-ROX-011615	1/16/2015		44.1	NE	0.00018	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW2-ROX-041315	4/13/2015		45.56	NE	0.000041 J	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	0.001 J	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW2-ROX-071315	7/13/2015		44.53	NE	0.000042 J	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	0.0028 J	<0.0054
	MW2-ROX-101215	10/12/2015	49.87 - 59.87	42.15	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.01	<0.01
MW-03	MW3-ROX-010913	1/9/2013	34.67 - 44.67	29.35	NE	<0.0001	0.000023 J	<0.01 UJ	0.000037 J	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
	MW3-ROX-040813	4/8/2013		29.74	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011	<0.0057
	MW3-ROX-071113	7/11/2013		26.32	NE	0.000028 J	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	0.0038	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW3-ROX-100813	10/8/2013		27.38	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW3-ROX-011614	1/16/2014		29.91	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011 UJ	<0.0053 UJ	<0.00011	<0.00011	<0.0021	<0.011 UJ	<0.0053	<0.011 UJ	<0.0053
	MW3-ROX-040914	4/9/2014		30.50	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	0.00038 J	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW3-ROX-071114	7/10/2014		29.05	NE	<0.0001	<0.0001	<0.011	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.011	<0.011	<0.0054	0.0013 J	<0.0054	<0.011	<0.0054	0.000028 J	<0.0001	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW3-ROX-100914	10/9/2014		28.18	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW3-ROX-011515	1/15/2015		29.65	NE	0.000027 J	<0.00011	<0.011	0.000021 J J	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW3-ROX-041015	4/10/2015		31.16	NE	0.000018 J	<0.0001	<0.011	0.000019 J	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.011	<0.011	<0.0053	<0.00073 U	<0.0053	<0.011	<0.0053	<0.0001	<0.0001	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW3-ROX-071015	7/10/2015		30.01	NE	<0.00011	<0.00011	<0.011	0.00002 J	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW3-ROX-100915	10/9/2015	34.67 - 44.67	27.98	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.01	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																				
						Acenaphthene	Acenaphthylene	Aniline	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol	Dimethyl phthalate
				Screening Values (mg/L)		0.42 [1]	0.21 [3]	0.023 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-04	MW4-ROX-011113	1/11/2013	46.06 - 56.06	40.20	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056 UJ
	MW4-ROX-011113-DUP	1/11/2013		40.20	NE	<0.00012	<0.00012	<0.012 UJ	<0.00012	<0.00006	<0.00012	<0.00006	<0.00012	<0.00012	<0.012	<0.012	<0.006	<0.0024	<0.006	<0.012	<0.006	<0.00012	<0.00012	<0.0024	<0.012	<0.006	<0.012	<0.006 UJ
	MW4-ROX-030413	3/4/2013		40.20	NE																							
	MW4-ROX-040913	4/9/2013		40.90	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053 UJ
	MW4-ROX-040913-DUP	4/9/2013		40.90	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053 UJ	<0.011	<0.0053 UJ
	MW4-ROX-071713	7/17/2013		37.61	NE	<0.000036 U	<0.00011	<0.011	<0.00011	<0.000055	0.00004 J	0.000034 J	0.000061 J	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011	<0.0055
	MW4-ROX-101613	10/16/2013		38.80	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	<0.0022	<0.0054	<0.011 UJ	<0.0055 UJ	<0.00011	<0.00011	<0.0022	<0.011 UJ	<0.0054	<0.011 UJ	<0.0054
	MW4-ROX-013014	1/30/2014		41.09	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	<0.0022	<0.0054	<0.011 UJ	<0.0054 UJ	<0.00011	<0.00011	<0.0022	<0.011 UJ	<0.0054	<0.011 UJ	<0.0054
	MW4-ROX-041614	4/16/2014		41.91	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW4-ROX-071614	7/16/2014		40.18	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.00038 J	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	MW4-ROX-101614	10/16/2014		39.49	NE	<0.00012	<0.00012	<0.012	<0.00012	<0.000059	<0.00012	<0.000059	<0.00012	<0.00012	<0.012	<0.012	<0.0059	<0.0024	<0.0059	<0.012	<0.0059	<0.00012	<0.00012	<0.0024	<0.012	<0.0059	<0.012	<0.0059
	MW4-ROX-012115	1/21/2015		41.27	NE	0.000019 J	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW4-ROX-042115	4/21/2015	45.06 - 55.06	42.58	NE	0.000027 J	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	MW4-ROX-071415	7/14/2015		41.30	NE	0.000023 J	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW4-ROX-101915	10/19/2015	45.06 - 55.06	39.44	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.01	<0.01
MW-05	MW5-ROX-011113	1/11/2013	33.97 - 43.97	28.75	NE	0.000071 J	0.000066 J	<0.011 UJ	0.000028 J	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011	<0.0055 UJ
	MW5-ROX-040913	4/9/2013		29.41	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054 UJ
	MW5-ROX-070913	7/9/2013		26.04	NE	<0.0001	<0.0001	<0.01	<0.0001	0.0001 J	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
	MW5-ROX-100813	10/8/2013		26.97	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011	<0.0055
	MW5-ROX-011714	1/17/2014		29.59	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW5-ROX-041014	4/10/2014		30.09	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW5-ROX-071414	7/14/2014		28.59	NE	0.000075 J	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW-5-ROX-100914	10/9/2014		27.75	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW5-ROX-011515	1/15/2015		29.34	NE	0.00012	<0.00011	<0.011	0.00007 J J	0.000035 J J	<0.00011	<0.000053	0.00002 J J	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	0.000025 J J	0.000017 J J	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW5-ROX-041315	4/13/2015		30.97	NE	0.000073 J	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW5-ROX-071315	7/13/2015		29.45	NE	0.000062 J	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW5-ROX-101215	10/12/2015	33.97 - 43.97	27.53	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	0.00008 J	0.000088 J	0.000087 J	0.000088 J	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.000071 J	0.000078 J	<0.01	<0.01	<0.01	<0.01	<0.01
MW-06A	MW6A-ROX-011413	1/14/2013	34.83 - 44.83	31.00	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.000051	<0.0001	<0.000051	0.000073 J	<0.0001	<0.01 UJ	<0.01	<0.0051	0.00054 J	<0.0051	<0.01	<0.0051	<0.0001	0.000066 J	<0.002	<0.01	<0.0051	<0.01	<0.0051 UJ
	MW6A-ROX-040313	4/3/2013		31.62	NE	<0.00011	<0.00011 UJ	<0.011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0053	0.00052 J	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW6A-ROX-070913	7/9/2013		28.25	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011	<0.0055
	MW6A-ROX-070913-DUP	7/9/2013		28.25	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011	<0.0055
	MW6A-ROX-100713	10/7/2013		28.87	NE	0.0001 J	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.00082 U	<0.011	<0.0056 UJ
	MW6A-ROX-100713-DUP	10/7/2013		28.87	NE	0.000093 J	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	0.00078 J	<0.011	<0.0054 UJ
	MW6A-ROX-011614	1/16/2014		31.62	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	MW6A-ROX-011614-DUP	1/16/2014		31.62	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW6A-ROX-040814	4/8/2014		32.16	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0056	<0.00057 U	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW6A-ROX-040814-DUP	4/8/2014		32.16	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0054	<0.00066 U	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW6A-ROX-071014	7/10/2014		30.75	NE	<0.00011	0.000075 J	<0.011 UJ	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW6A-ROX-100814	10/8/2014		29.84	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW6A-ROX-011415	1/14/2015		31.54	NE	0.000089 J	0.00004 J	<0.011	0.00006 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW6A-ROX-040715	4/7/2015		33.08	NE	0.000061 J	0.000085 J	<0.01	0.000027 J	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
	MW6A-ROX-071515	7/15/2015		31.52	NE	0.00011	<0.00011	<0.011	0.000047 J	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011	<0.0057
	MW6A-ROX-100715	10/7/2015	34.83 - 44.83	29.77	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.01	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																				
						Acenaphthene	Acenaphthylene	Aniline	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol	Dimethyl phthalate
				Screening Values (mg/L)		0.42 [1]	0.21 [3]	0.023 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-06B	MW6B-ROX-011713	1/17/2013	64.05 - 69.05	31.11	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
	MW6B-ROX-040313	4/3/2013		31.68	NE	<0.00011	<0.00011 UJ	<0.011 UJ	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW6B-ROX-070913	7/9/2013		28.25	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW6B-ROX-100713	10/7/2013		28.93	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.00057 U	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.00084 U	<0.011	<0.0054 UJ
	MW6B-ROX-011614	1/16/2014		31.67	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	0.000051 J	<0.00011	<0.011 UJ	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	0.000042 J	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW6B-ROX-040814	4/8/2014		32.21	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW6B-ROX-071014	7/10/2014		30.81	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW6B-ROX-100814	10/8/2014		29.87	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW6B-ROX-011415	1/14/2015		31.59	NE	<0.00011	0.000016 J	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW6B-ROX-040715	4/7/2015		33.10	NE	<0.0001	0.000016 J	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
	MW6B-ROX-040715-DUP	4/7/2015		33.10	NE	<0.0001	0.000016 J	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	MW6B-ROX-071415	7/14/2015		31.56	NE	0.00012	0.000017 J	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW6B-ROX-100715	10/7/2015	64.05 - 69.05	29.80	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.01	<0.01
MW-06C	MW6C-ROX-011713	1/17/2013	84.95 - 89.95	30.88	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
	MW6C-ROX-040313	4/3/2013		31.41	NE	<0.0001	<0.0001 UJ	<0.01 UJ	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01 UJ	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	MW6C-ROX-070913	7/9/2013		28.03	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW6C-ROX-100713	10/7/2013		28.72	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.00056 U	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0013 U	<0.011	<0.0055 UJ
	MW6C-ROX-011614	1/16/2014		31.48	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	0.000041 J	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW6C-ROX-040814	4/8/2014		32.01	NE	<0.00012	<0.00012	<0.012	<0.00012	<0.000059	<0.00012	<0.000059	<0.00012	<0.00012	<0.012	<0.012	<0.0059	<0.0024	<0.0059	<0.012	<0.0059	<0.00012	<0.00012	<0.0024	<0.012	<0.0059	<0.012	<0.0059
	MW6C-ROX-071014	7/10/2014		30.60	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	0.000034 J	<0.00011	<0.000056	0.000035 J	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	0.000037 J	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW6C-ROX-100814	10/8/2014		29.67	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW6C-ROX-011415	1/14/2015		31.41	NE	0.000017 J	<0.00011	<0.011	0.000024 J	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW6C-ROX-040915	4/9/2015		32.80	NE	<0.00011	<0.00011	<0.011	0.000016 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW6C-ROX-071415	7/14/2015		31.38	NE	0.000027 J	0.00002 J	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW6C-ROX-100715	10/7/2015	84.95 - 89.95	29.60	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.01	<0.01
MW-06D	MW6D-ROX-011713	1/17/2013	104.72 - 109.72	30.75	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
	MW6D-ROX-040313	4/3/2013		31.27	NE	<0.00011	<0.00011 UJ	<0.011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW6D-ROX-070913	7/9/2013		27.91	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011	<0.0055
	MW6D-ROX-100713	10/7/2013		28.58	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.001 U	<0.011	<0.0054 UJ
	MW6D-ROX-011614	1/16/2014		31.33	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	MW6D-ROX-040814	4/8/2014		31.85	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011	<0.0055
	MW6D-ROX-071014	7/10/2014		31.47	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW6D-ROX-071014-DUP	7/10/2014		31.47	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW6D-ROX-100814	10/8/2014		29.53	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	0.016	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW6D-ROX-100814-DUP	10/8/2014		29.53	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW6D-ROX-011415	1/14/2015		31.26	NE	<0.00011	<0.00011	<0.011	0.000026 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW6D-ROX-011415-DUP	1/14/2015		31.26	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW6D-ROX-040715	4/7/2015		32.74	NE	0.000016 J	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW6D-ROX-071415	7/14/2015		31.19	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW6D-ROX-100715	10/7/2015	104.72 - 109.72	29.45	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	0.000059 J	0.000054 J	0.000049 J	0.000047 J	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.01	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																				
						Acenaphthene	Acenaphthylene	Aniline	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol	Dimethyl phthalate
				Screening Values (mg/L)		0.42 [1]	0.21 [3]	0.023 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-07	MW7-ROX-011513	1/15/2013	42.92 - 52.92	42.21	NE	0.00073	0.00011	<0.011 UJ	0.000059 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	0.00061 J	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053 UJ
	MW7-ROX-011513-DUP	1/15/2013		42.21	NE	0.00066	0.000093 J	<0.01 UJ	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	0.00055 J	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052 UJ
	MW7-ROX-041013	4/10/2013		42.70	NE	0.0012	0.00015	<0.011	0.000089 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	0.00083 J	<0.011	<0.0054	<0.011	<0.0054
	MW7-ROX-041013-DUP	4/10/2013		42.70	NE	0.0012	0.00016	<0.011	0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	0.00088 J	<0.011	<0.0053	<0.011	<0.0053
	MW7-ROX-071713	7/17/2013		39.60	NE	0.00019	0.000031 J	<0.011	0.000028 J	0.00004 J	0.000044 J	0.000045 J	0.00008 J	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	0.000077 J	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW7-ROX-101613	10/16/2013		40.64	NE	0.00035	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011	<0.0055
	MW7-ROX-013014	1/30/2014		42.94	NE	0.00028	<0.0001	<0.01	0.00029	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
	MW7-ROX-041614	4/16/2014		43.79	NE	0.00034	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	MW7-ROX-071614	7/16/2014		42.05	NE	0.00024	<0.0001	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	MW7-ROX-071614-DUP	7/16/2014		42.05	NE	0.00022	<0.0001	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	MW7-ROX-101614	10/16/2014		41.31	NE	0.00024	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW7-ROX-101614-DUP	10/16/2014		41.31	NE	0.00022	<0.00011	<0.011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011	<0.0057
	MW7-ROX-012215	1/22/2015		43.45	NE	0.00026	0.000051 J	<0.011	0.000056 J J	<0.00005 U	0.000028 J	0.00013 J	0.000034 J	0.000026 J	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.000046 U	0.000025 J	<0.0021	<0.011	<0.0053	0.00072 J	<0.0053
	MW7-ROX-012215-DUP	1/22/2015		43.45	NE	0.00025	0.000044 J	<0.01	0.00046 J	<0.000052	<0.0001	<0.000052 UJ	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.00039 J	<0.0052	<0.01	<0.0052	<0.000021 U	<0.0001	<0.0021	<0.01	<0.0052	0.00071 J	<0.0052
	MW7-ROX-042115	4/21/2015		44.63	NE	0.00038	0.000059 J	<0.01	0.000055 J	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	0.000022 J	<0.0001	0.00028 J	<0.01	<0.0051	0.0014 J	<0.0051
	MW7-ROX-042115-DUP	4/21/2015		44.63	NE	0.00036	0.000053 J	<0.01	0.00005 J	<0.000051	0.000024 J	<0.000051	0.000018 J	<0.0001	<0.01	<0.01	<0.0051	0.00033 J	<0.0051	<0.01	<0.0051	0.000028 J	0.000016 J	<0.002	<0.01	<0.0051	0.0012 J	<0.0051
	MW7-ROX-071515	7/15/2015		43.54	NE	0.00027	0.000038 J	<0.01	0.000038 J	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.00037 J	<0.0051	<0.01	<0.0051	0.000033 J	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
	MW7-ROX-071515-DUP	7/15/2015		43.54	NE	0.00025	0.000043 J	<0.01	0.000039 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	0.000034 J	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	MW7-ROX-101915	10/19/2015	42.92 - 52.92	41.43	NE	0.00012 J	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	0.0043 J	<0.01
	MW7-ROX-101915-DUP	10/19/2015		41.43	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.011 J *	<0.01	<0.01	0.0024 J	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	0.0044 J	<0.01
MW-08	MW8-ROX-011513	1/15/2013	33.60 - 43.60	33.30	NE	0.00017	0.000085 J	<0.011 UJ	0.000029 J	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	0.00089 J	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	0.019	<0.0056 UJ
	MW8-ROX-041013	4/10/2013		33.77	NE	0.00018	0.000059 J	<0.011	0.000072 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	0.0023	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	0.0358	<0.0053
	MW8-ROX-071713	7/17/2013		30.43	NE	0.0002	<0.0001	<0.01	0.000049 J	<0.000052	0.000021 J	<0.000052	0.00004 J	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	0.009 J	<0.0052
	MW8-ROX-071713-DUP	7/17/2013		30.43	NE	0.00019	0.000056 J	<0.011	0.000061 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	0.0004 J	<0.011	<0.0054	0.0089 J	<0.0054
	MW8-ROX-101613	10/16/2013		31.59	NE	0.00021	0.000089 J	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	0.0005 J	<0.011	<0.0054	0.0066 J	<0.0054
	MW8-ROX-101613-DUP	10/16/2013		31.59	NE	0.0002	0.000058 J	<0.012	<0.00012	<0.000059	<0.00012	<0.000059	<0.00012	<0.00012	<0.012	<0.012	<0.0059	<0.0024	<0.0059	<0.012	<0.0059	<0.00012	<0.00012	0.0004 J	<0.012	<0.0059	0.0062 J	<0.0059
	MW8-ROX-013014	1/30/2014		34.02	NE	0.0002	0.000089 J	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.00053 J	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	0.0005 J	<0.01	<0.0051	0.0124	<0.0051
	MW8-ROX-013014-DUP	1/30/2014		34.02	NE	0.00021	0.000083 J	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00072 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	0.00053 J	<0.011	<0.0054	0.0121	<0.0054
	MW8-ROX-041614	4/16/2014		34.73	NE	0.00018	0.000074 J	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	0.0005 J	<0.011	<0.0056	<0.011	<0.0056
	MW8-ROX-041614-DUP	4/16/2014		34.73	NE	0.00016	0.000063 J	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	0.00045 J	<0.01	<0.0051	<0.01	<0.0051
	MW8-ROX-071614	7/16/2014		33.01	NE	0.00018	0.000068 J	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.00038 J	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	0.00041 J	<0.01	0.00057 J	<0.01	<0.0052
	MW8-ROX-101614	10/16/2014		32.23	NE	0.00021	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	0.0099 J	<0.0056
	MW8-ROX-012215	1/22/2015		34.22	NE	0.00027	0.000073 J	<0.01	0.000035 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	0.0172	<0.0052
	MW8-ROX-042115	4/21/2015		35.41	NE	0.00018	0.000052 J	<0.011	0.000034 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	0.00045 J	<0.011	<0.0053	0.0201	<0.0053
	MW8-ROX-071515	7/15/2015		34.07	NE	0.00018	<0.00011	<0.011	0.000037 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	0.0171	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW8-ROX-101915	10/19/2015	33.60 - 43.60	32.30	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	0.0065 J	<0.01
MW-09	MW9-ROX-011113	1/11/2013	46.45 - 56.45	43.90	NE	0.000068 J	0.000064 J	<0.011 UJ	0.00006 J	<0.000054	<0.00011	0.000026 J	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054 UJ
	MW9-ROX-040913	4/9/2013		44.67	NE	<0.0001 UJ	<0.0001 UJ	<0.01 UJ	<0.0001 UJ	<0.000052 UJ	<0.0001 UJ	<0.000052 UJ	<0.0001 UJ	<0.0001 UJ	<0.01 UJ	<0.01 UJ	<0.0052 UJ	<0.0021 UJ	<0.0052 UJ	<0.01 UJ	<0.0052 UJ	<0.0001 UJ	<0.0001 UJ	<0.0021 UJ	<0.01 UJ	<0.0016 UJ	<0.01 UJ	<0.0052 UJ
	MW9-ROX-070813	7/8/2013		42.35	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	0.000035 J	<0.00011	<0.00011		<0.011	<0.0056	<0.0022	<0.0056			<0.00011	<0.00011	<0.0022		<0.0056		<0.0056
	MW9-ROX-100313	10/3/2013		42.27	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
	MW9-ROX-011414	1/14/2014		44.47	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011 UJ	<0.0053 UJ	<0.00011	<0.00011	<0.0021	<0.011 UJ	<0.0053	<0.011 UJ	<0.0053 UJ
	MW9-ROX-040714	4/7/2014		44.99	NE	<0.00011	<0.00011	<0.011	<0.00011	0.000024 J	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0056	<0.00054 U	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW9-ROX-070914	7/9/2014		44.35	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00036 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW9-ROX-100714	10/7/2014		43.52	NE	<0.00012	<0.00012	<0.012	<0.00012	<0.000059	<0.00012	<0.000059	<0.00012	<0.00012	<0.012	<0.012	<0.0059	<0.0024	<0.0059	<0.012	<0.0059	<0.00012	<0.00012	<0.0024	<0.012	<0.0059	<0.012	<0.0059
	MW9-ROX-011315	1/13/2015		44.21	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01 UJ	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	MW9-ROX-040915	4/9/2015		45.38	NE	0.00002 J	<0.0001	<0.01	0.00002 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.00026 U	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	MW9-ROX-070915	7/9/2015		44.81	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011	<0.0055
	MW9-ROX-100815	10/8/2015	46.45 - 56.45	42.64	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.01	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																				
						Acenaphthene	Acenaphthylene	Aniline	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol	Dimethyl phthalate
				Screening Values (mg/L)		0.42 [1]	0.21 [3]	0.023 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-10	MW10-ROX-011013	1/10/2013	44.43 - 54.43	44.10	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005 UJ
	MW10-ROX-012113	1/21/2013		44.10	NE	<0.0001	<0.0001	<0.02	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.05	<0.02	<0.01	<0.006	<0.01	<0.02	<0.01	<0.0001	<0.0001	<0.01	<0.01	<0.01	<0.01	<0.01
	MW10-ROX-040913	4/9/2013		44.60	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0018 U	<0.011	<0.0054 UJ
	MW10-ROX-070813	7/8/2013		42.27	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0027 U	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW10-ROX-100313	10/3/2013		42.38	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW10-ROX-011514	1/15/2014		44.42	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	0.000096 J	<0.00011	<0.011 UJ	<0.011	<0.0053	0.00054 J	<0.0053	<0.011 UJ	<0.0054 UJ	<0.00011	0.000074 J	<0.0021	<0.011 UJ	<0.0053	<0.011 UJ	<0.0053
	MW10-ROX-040714	4/7/2014		45.00	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0053	<0.00068 U	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW10-ROX-070914	7/9/2014		44.35	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00052 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW10-ROX-100714	10/7/2014		43.58	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011	<0.0057
	MW10-ROX-011315	1/13/2015		44.27	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0056	0.00042 J	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW10-ROX-040815	4/8/2015		45.30	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
	MW10-ROX-070915	7/9/2015		44.93	NE	0.000023 J	<0.00011	<0.011	0.000039 J	0.000035 J	0.000022 J	0.000028 J	0.000027 J	0.000041 J J	<0.011	<0.011	<0.0054	0.00045 J	0.00028 J	<0.011	<0.0054	0.000045 J	0.00002 J	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW10-ROX-100915	10/9/2015	44.43 - 54.43	42.79	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.01	<0.01
MW-11	MW11-ROX-011013	1/10/2013	41.66 - 51.66	41.43	NE	<0.0001 UJ	<0.0001 UJ	<0.01 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.0001 UJ	<0.01 UJ	<0.01 UJ	<0.005 UJ	<0.002 UJ	<0.005 UJ	<0.01 UJ	<0.005 UJ	<0.0001 UJ	<0.0001 UJ	<0.002 UJ	<0.01 UJ	<0.005 UJ	<0.01 UJ	<0.005 UJ
	MW11-ROX-040813	4/8/2013		42.02	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW11-ROX-070813	7/8/2013		39.24	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0052 U	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW11-ROX-100713	10/7/2013		39.95	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0011 U	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0011 U	<0.011	<0.0055 UJ
	MW11-ROX-011514	1/15/2014		42.16	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011	<0.0055
	MW11-ROX-040714	4/7/2014		42.70	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0056	<0.0056 U	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW11-ROX-070914	7/9/2014		41.75	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011	<0.0057
	MW11-ROX-100714	10/7/2014		40.89	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	MW11-ROX-011315	1/13/2015		41.93	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW11-ROX-040815	4/8/2015		43.19	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW11-ROX-070915	7/9/2015		42.45	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW11-ROX-100815	10/8/2015	41.66 - 51.66	40.15	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	0.0068 J	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.01	<0.01
MW-12	MW12-ROX-011013	1/10/2013	41.92 - 51.92	41.83	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.000051	<0.0001	0.000026 J	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051 UJ
	MW12-ROX-040813	4/8/2013		42.46	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	MW12-ROX-070913	7/9/2013		39.28	NE	<0.00011	<0.00011	<0.011	<0.00011	0.00012 J	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011	<0.0055
	MW12-ROX-100713	10/7/2013		40.22	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0055	<0.0022	<0.0055	<0.011 UJ	<0.0053 UJ	<0.00011	<0.00011	<0.0022	<0.011 UJ	<0.00062 U	<0.011 UJ	<0.0055 UJ
	MW12-ROX-011514	1/15/2014		42.54	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01 UJ	<0.0052 UJ	<0.0001	<0.0001	<0.0021	<0.01 UJ	<0.0052	<0.01 UJ	<0.0052
	MW12-ROX-040814	4/8/2014		43.15	NE	<0.00011	<0.00011	<0.01	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.01	<0.01 UJ	<0.0051	<0.00039 U	<0.0051	<0.01	<0.0051	<0.00011	<0.00011	<0.002	<0.01	<0.0051	<0.01	<0.0051
	MW12-ROX-070914	7/9/2014		41.97	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW12-ROX-100614	10/6/2014		40.98	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW12-ROX-011215	1/12/2015		42.33	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW12-ROX-040615	4/6/2015		43.75	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW12-ROX-070815	7/8/2015		42.86	NE	0.000018 J	<0.00011	<0.011	<0.00011	0.000046 J	0.000067 J	0.000083	0.000081 J	0.00011 J	<0.011 UJ	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	0.00008 J	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW12-ROX-100815	10/8/2015	41.92 - 51.92	40.54	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.01	<0.01
	MW12-ROX-100815-DUP	10/8/2015		40.54	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.01	<0.01
MW-13	MW13-ROX-012313	1/23/2013	25.57 - 35.57	29.26	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055 UJ	<0.011	<0.0055 UJ
	MW13-ROX-041213	4/12/2013		29.44	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
	MW13-ROX-071213	7/12/2013		25.67	NE	<0.00011	<0.000063 U	<0.011	<0.000058 U	<0.00014 U	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	0.00079 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054 UJ
	MW13-ROX-100913	10/9/2013		26.94	NE	0.000098 J	0.000071 J	<0.01	<0.0001	0.000022 J	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.00068 J	<0.0052	<0.01	<0.0052	0.000034 J	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	MW13-ROX-012914	1/29/2014		29.63	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011	<0.0055
	MW13-ROX-041114	4/11/2014		30.15	NE	0.00013	0.000066 J	<0.012	<0.00012	<0.00006	<0.00012	<0.00006	<0.00012	<0.00012	<0.012	<0.012	<0.006	<0.00069 U	<0.006	<0.012	<0.006	<0.00012	<0.00012	<0.0024	<0.012	<0.006	<0.012	<0.006
	MW13-ROX-070714	7/7/2014		28.49	NE	<0.00011	0.000061 J	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011	<0.0055
	MW13-ROX-101014	10/10/2014		27.48	NE	<0.00012	0.00019	<0.012	<0.00012	<0.00006	<0.00012	<0.00006	<0.00012	<0.00012	<0.012	<0.012	<0.006	<0.0024	<0.006	<0.012	<0.006	<0.00012	<0.00012	<0.0024	<0.012	<0.006	<0.012	<0.006
	MW13-ROX-011615	1/16/2015		29.09	NE	0.00014	0.00009 J	<0.011	0.000053 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	0.00003 J	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW13-ROX-041415	4/14/2015		30.71	NE	<0.00011	0.000075 J	<0.011	0.000051 J	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	0.0013 J	<0.0056
	MW13-ROX-070815	7/8/2015		29.16	NE	0.000089 J	0.000057 J	<0.011	0.000028 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW13-ROX-100515	10/5/2015	25.57 - 35.57	27.34	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.01	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																				
						Acenaphthene	Acenaphthylene	Aniline	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol	Dimethyl phthalate
				Screening Values (mg/L)		0.42 [1]	0.21 [3]	0.023 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-14	MW14-ROX-011813	1/18/2013	33.42 - 43.42	33.05	NE	0.00092	0.00013	<0.01 UJ	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005 UJ
	MW14-ROX-041113	4/11/2013		33.31	NE	0.00068	0.000098 J	<0.011	<0.00011	0.00013	<0.00011	0.000054	0.000053 J	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW14-ROX-071213	7/12/2013		30.36	NE	0.00046 B	<0.000062 U	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	0.00066 J	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053 UJ
	MW14-ROX-101013	10/10/2013		30.80	NE	0.00065	0.00011	<0.011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	0.00019 J	<0.011	<0.0057	<0.011	<0.0057
	MW14-ROX-012914	1/29/2014		33.67	NE	0.00062	0.00012	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00056 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW14-ROX-041114	4/11/2014		34.30	NE	0.00037	0.000089 J	<0.012	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.012	<0.012	<0.006	<0.00069 U	<0.006	<0.012	<0.006	<0.00011	<0.00011	<0.0024	<0.012	<0.006	<0.012	<0.006
	MW14-ROX-070714	7/7/2014		32.82	NE	0.00033	0.000063 J	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00048 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW14-ROX-101414	10/14/2014		31.65	NE	0.00054	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW14-ROX-011615	1/16/2015		33.58	NE	0.00027	0.00006 J	<0.011	0.000015 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW14-ROX-041415	4/14/2015		35.16	NE	0.00026	0.000057 J	<0.01	0.00003 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.00011	<0.00011	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	MW14-ROX-070915	7/9/2015		34.06	NE	0.0002	0.000051 J	<0.01	0.000027 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	0.00051 J	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	MW14-ROX-101315	10/13/2015	33.42 - 43.42	31.88	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.01	<0.01
MW-16	MW16-ROX-012313	1/23/2013	37.06 - 47.06	43.05	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053 UJ	<0.011	<0.0053 UJ
	MW16-ROX-040813	4/8/2013		43.39	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	MW16-ROX-070813	7/8/2013		40.62	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW16-ROX-100813	10/8/2013		41.62	NE	<0.0001 UJ	<0.0001 UJ	<0.01 UJ	<0.0001 UJ	<0.000052 UJ	<0.0001 UJ	<0.000052 UJ	<0.0001 UJ	<0.0001 UJ	<0.01 UJ	<0.01 UJ	<0.0052 UJ	<0.0021 UJ	<0.0052 UJ	<0.01 UJ	<0.0052 UJ	<0.0001 UJ	<0.0001 UJ	<0.0021 UJ	<0.01 UJ	<0.0052 UJ	<0.01 UJ	<0.0052 UJ
	MW16-ROX-011514	1/15/2014		43.76	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.00061 J	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	MW16-ROX-040914	4/9/2014		44.63	NE	<0.00012	<0.00012	<0.012	<0.00012	<0.000059	<0.00012	<0.000059	<0.00012	<0.00012	<0.012	<0.012	<0.0059	<0.0024	<0.0059	<0.012	<0.0059	<0.00012	<0.00012	<0.0024	<0.012	<0.0059	<0.012	<0.0059
	MW16-ROX-071014	7/10/2014		43.15	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW16-ROX-100714	10/7/2014		42.27	NE	<0.00012	<0.00012	<0.012	<0.00012	<0.00006	<0.00012	<0.00006	<0.00012	<0.00012	<0.012	<0.012	<0.006	<0.0024	<0.006	<0.012	<0.006	<0.00012	<0.00012	<0.0024	<0.012	<0.006	<0.012	<0.006
	MW16-ROX-011315	1/13/2015		43.59	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW16-ROX-040915	4/9/2015		44.87	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW16-ROX-070915	7/9/2015		44.26	NE	0.000026 J	0.00002 J	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011	<0.0055
	MW16-ROX-070915-DUP	7/9/2015		44.26	NE	<0.00011	<0.00011	<0.011	0.000025 J	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW16-ROX-100715	10/7/2015	37.06 - 47.06	41.83	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.01	<0.01
MW-22	MW22-ROX-012313	1/23/2013	37.88 - 47.88	41.80	NE	0.00018	<0.0001	<0.01 UJ	0.00002 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	0.0031 J	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052 UJ	0.0146	<0.0052 UJ
	MW22-ROX-012313-DUP	1/23/2013		41.80	NE	0.00018	<0.00011	<0.011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	0.0033 J	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053 UJ	0.0149	<0.0053 UJ
	MW22-ROX-040513	4/5/2013		42.23	NE	0.00018	0.000049 J J	<0.011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	0.0269	<0.0053
	MW22-ROX-071113	7/11/2013		39.35	NE	0.00026	0.00048	<0.011	0.000035 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	0.0017 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	0.104	<0.0054
	MW22-ROX-071113-DUP	7/11/2013		39.35	NE	0.00018	0.00047	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	0.0021 J	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	0.0978	<0.0056
	MW22-ROX-100913	10/9/2013		40.39	NE	0.00019	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	0.0863	<0.0054
	MW22-ROX-100913-DUP	10/9/2013		40.39	NE	0.00018	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	0.0826	<0.0054
	MW22-ROX-012014	1/20/2014		42.49	NE	0.00015	<0.00011	<0.053	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.053	<0.053	<0.027	<0.011	<0.027	<0.053	<0.027	<0.00011	<0.00011	<0.011	<0.053	<0.027	0.0399 J	<0.027
	MW22-ROX-012014-DUP	1/20/2014		42.49	NE	0.00014	<0.00011	<0.054	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.054	<0.054	<0.027	<0.011	<0.027	<0.054	<0.027	<0.00011	<0.00011	<0.011	<0.054	<0.027	0.0364 J	<0.027
	MW22-ROX-041014	4/10/2014		43.15	NE	0.0001 J	<0.00011	<0.056	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.056 UJ	<0.056	<0.028	<0.011	<0.028	<0.056	<0.028	<0.00011	<0.00011	<0.011	<0.056	<0.028	0.0316 J	<0.028
	MW22-ROX-041014-DUP	4/10/2014		43.15	NE	0.00012	<0.00011	<0.056	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.056 UJ	<0.056	<0.028	<0.011	<0.028	<0.056	<0.028	<0.00011	<0.00011	<0.011	<0.056	<0.028	0.032 J	<0.028
	MW22-ROX-071414	7/14/2014		41.85	NE	0.00013	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00045 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	0.0281	<0.0054
	MW22-ROX-101014	10/10/2014		41.43	NE	0.00029	0.00019	<0.013	0.00019	<0.000063	<0.00013	<0.000063	<0.00013	<0.00013	<0.013	<0.013	<0.0063	<0.0025	<0.0063	<0.013	<0.0063	<0.00013	<0.00013	<0.0025	<0.013	<0.0063	<0.013	<0.0063
	MW22-ROX-011615	1/16/2015		42.19	NE	0.00015	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	0.0329	<0.0053
	MW22-ROX-041415	4/14/2015		43.71	NE	0.00014	<0.0001	<0.01	0.000027 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	0.0143	<0.0052
	MW22-ROX-071515	7/15/2015		42.64	NE	0.00013	0.000028 J	<0.057	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.057	<0.057	<0.029	<0.011	<0.029	<0.057	<0.029	<0.00011	<0.00011	<0.011	<0.057	<0.029	<0.057	<0.029
	MW22-ROX-101415	10/14/2015	37.88 - 47.88	40.54	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	0.015	<0.01
MW-23	MW23-ROX-012615	1/26/2015	29.02 - 39.02	30.90	NE	<0.001	<0.001	<0.005	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0002	<0.0002	<0.005	<0.005	<0.005	<0.005	<0.005
	MW23-ROX-040815	4/8/2015		32.24	NE	0.000076 J	<0.0001	<0.01	0.000058 J	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	0.000028 J	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
	MW23-ROX-071015-BP	7/10/2015		30.54	NE	0.000036 J	<0.00011	<0.011	0.000033 J	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	0.000018 J	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW23-ROX-100515	10/5/2015	29.02 - 39.02	28.89	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.01	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																			
						Acenaphthene	Acenaphthylene	Aniline	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol	Dimethyl phthalate
				Screening Values (mg/L)		0.42 [1]	0.21 [3]	0.023 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
MW-24	MW24-ROX-040513	4/5/2013	38.89 - 48.89	43.39	NE	<0.0001	<0.0001 UJ	<0.01 UJ	<0.0001	<0.000052	<0.0001	0.000057	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	MW24-ROX-071113	7/11/2013		40.35	NE	0.000024 J	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	<0.0022	<0.0054	<0.011 UJ	<0.0053 UJ	<0.00011	<0.00011	<0.0022	<0.011 UJ	<0.0054	<0.011 UJ	<0.0054
	MW24-ROX-100913	10/9/2013		41.27	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW24-ROX-011514	1/15/2014		43.47	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW24-ROX-040914	4/9/2014		44.13	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW24-ROX-071114	7/10/2014		42.97	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW24-ROX-100814	10/8/2014		42.16	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW24-ROX-011315	1/13/2015		43.17	NE	0.000074 J	0.000077 J	<0.011	0.000022 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW24-ROX-040915	4/9/2015		44.45	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0003 U	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW24-ROX-070915	7/9/2015		44.65	NE	<0.0001	<0.0001	<0.01	0.000044 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	MW24-ROX-100715	10/7/2015	38.89 - 48.89	41.45	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.01	<0.01
MW-25	MW25-ROX-102114	10/21/2014	35.59 - 45.59	36.44	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	0.0025 J	<0.0056
	MW25-ROX-012215	1/22/2015		38.45	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.00059 J	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	MW25-ROX-042115	4/21/2015		39.71	NE	0.000032 J	<0.0001	<0.01	0.000016 J	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
	MW25-ROX-071515	7/15/2015		38.40	NE	0.000036 J	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	MW25-ROX-101915	10/19/2015	35.59 - 45.59	36.55	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.01	<0.01
MW-26	MW26-ROX-102114	10/21/2014	38.15 - 48.15	39.43	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW26-ROX-011215	1/12/2015		41.09	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01 UJ	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	MW26-ROX-040815	4/8/2015		42.52	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	MW26-ROX-070815	7/8/2015		41.76	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW26-ROX-100615	10/6/2015	38.15 - 48.15	39.19	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.01	<0.01
MW-27	MW27-ROX-102114	10/21/2014	39.79 - 49.79	41.57	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW27-ROX-011515	1/15/2015		42.06	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	0.0001 J J	0.00013 J	0.000029 J J	0.000078 J J	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	0.000051 J J	<0.0021	<0.011	<0.00029 U	<0.011	<0.0053
	MW27-ROX-041015	4/10/2015		43.22	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.00041 U	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	MW27-ROX-071015	7/10/2015		43.00	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW27-ROX-100815	10/8/2015	39.79 - 49.79	40.32	NE	<0.0002	<0.0002	<0.01	0.000024 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.01	<0.01
MW-28	MW28-ROX-102114	10/21/2014	33.61 - 43.61	36.44	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	MW28-ROX-011515	1/15/2015		41.14	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	0.0007 J	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	0.0012 J	<0.0055
	MW28-ROX-041415	4/14/2015		42.34	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000057	0.000027 J	0.00006	0.00004 J	0.00002 J	<0.011	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011	<0.0057
	MW28-ROX-071515	7/15/2015		42.19	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	MW28-ROX-101215	10/12/2015	33.61 - 43.61	40.04	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.01	<0.01
	MW28-ROX-101215-DUP	10/12/2015		40.04	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.01	<0.01
P-54	P54-ROX-011113	1/11/2013	38.00 - 63.00	41.56	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053 UJ
	P54-ROX-041013	4/10/2013		41.80	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011	<0.0057 UJ
	P54-ROX-050313	5/3/2013		41.80	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	P54-ROX-071113	7/11/2013		39.07	NE	0.000032 J	0.000016 J	<0.01	0.000018 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	0.00052 J	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	P54-ROX-100813	10/8/2013		39.94	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011	<0.0057
	P54-ROX-011514	1/15/2014		42.20	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00058 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	P54-ROX-040914	4/9/2014		42.80	NE	<0.00012	<0.00012	<0.012	<0.00012	<0.00006	<0.00012	<0.00006	<0.00012	<0.00012	<0.012	<0.012	<0.006	<0.0024	<0.006	<0.012	<0.006	<0.00012	<0.00012	<0.0024	<0.012	<0.006	<0.012	<0.006
	P54-ROX-071114	7/10/2014		41.71	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	P54-ROX-100814	10/8/2014		40.88	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	P54-ROX-011415	1/14/2015		41.79	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	P54-ROX-041015	4/10/2015		43.20	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	P54-ROX-070915	7/9/2015		42.25	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	P54-ROX-100915	10/9/2015	38.00 - 63.00	40.20	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.01	<0.01
P-55	P55-ROX-012113	1/21/2013	39.82 - 64.82	45.24	NE	0.00069	0.00019	<0.02	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.05	<0.02	<0.01	<0.006	<0.01	<0.02	<0.01	<0.0001	<0.0001	0.001 J	<0.01	<0.01	0.004 J	<0.01
	P55-ROX-012113	1/21/2013		45.24	NE	0.00054	0.00014	<0.01 UJ	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	0.001 J	<0.01	0.00073 J	0.0024 J	<0.0051
P-55R	P55-ROX-041513	4/15/2013	40.43 - 50.43	43.63	NE	0.00073	0.00021	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	0.0017 J	<0.01	<0.0052	<0.01	<0.0052
	P55-ROX-071613	7/16/2013		40.06	NE	0.00066	0.0002	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056 UJ	<0.00066 U	<0.0056	<0.011	<0.0056 UJ	<0.00011	<0.00011	0.0016 J	<0.011	<0.0056	0.0024 J	<0.0056
	P55-ROX-101013	10/10/2013		41.67	NE	0.00071	0.00019	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0055	0.0006 J	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	0.0016 J	<0.011	<0.0055	0.0014 J	<0.0055

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																				
						Acenaphthene	Acenaphthylene	Aniline	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol	Dimethyl phthalate
				Screening Values (mg/L)		0.42 [1]	0.21 [3]	0.023 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
P-56	P56-ROX-011713	1/17/2013	40.82 - 65.82	45.65	NE	0.00039	0.000083 J	<0.01 UJ	0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.0044	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
	P56-ROX-041213	4/12/2013		46.12	NE	0.00053	0.000088 J	<0.011	0.0001 J	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011	<0.0055
	P56-ROX-071513	7/15/2013		43.25	NE	0.00065	0.00013	<0.011	0.00014	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055 UJ	<0.0022	<0.0055	<0.011	<0.0055 UJ	<0.00011	<0.00011	0.00075 J	<0.011	<0.0055	0.0086 J	<0.0055
	P56-ROX-101013	10/10/2013		44.48	NE	0.0006	0.000092 J	<0.011	0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	0.00059 J	<0.011	<0.0055	0.0042 J	<0.0055
	P56-ROX-012214	1/22/2014		46.35	NE	0.00055	<0.0001	<0.01	0.00013	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	0.00047 J	<0.01	<0.0052	<0.01	<0.0052
	P56-ROX-041414	4/14/2014		47.32	NE	0.00051	0.000081 J	<0.012	<0.00012	<0.000059	<0.00012	<0.000059	<0.00012	<0.00012	<0.012	<0.012	<0.0059	<0.0024	<0.0059	<0.012	<0.0059	<0.00012	<0.00012	0.00067 J	<0.012	<0.0059	<0.012	<0.0059
	P56-ROX-070814	7/8/2014		45.97	NE	0.00035	0.000081 J	<0.011 UJ	0.0001 J	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	0.00049 J	<0.011	<0.0056	<0.011	<0.0056
	P56-ROX-101314	10/13/2014		45.05	NE	0.00057	0.00011	<0.011	0.00012	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.001 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	0.00055 J	<0.011	<0.0054	<0.011	<0.0054
	P56-ROX-011915	1/19/2015		46.58	NE	0.00068	0.000079 J	<0.011	0.000097 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	P56-ROX-041515	4/15/2015		48.05	NE	0.00061	0.0001 J	<0.011	0.00013	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00038 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	0.00055 J	<0.011	<0.0054	0.0026 J	<0.0054
	P56-ROX-071015	7/10/2015		47.34	NE	0.00065	0.000095 J	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	P56-ROX-101415	10/14/2015	40.82 - 65.82	44.85	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.028 J	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.01
P-57	P57-ROX-012913	1/29/2013	40.46 - 65.46	45.92	NE	0.00061	0.00013	<0.012 UJ	0.000076 J	<0.000059	<0.00012	<0.000059	<0.00012	<0.00012	<0.012	<0.012	<0.0059	<0.0024	<0.0059	<0.012	<0.0059	<0.00012	<0.00012	<0.0024	<0.012	<0.0059	0.0023 J J	<0.0059
	P57-ROX-041113	4/11/2013		46.29	NE	0.00063	0.00012	<0.01	0.000073 J	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
	P57-ROX-071613	7/16/2013		43.38	NE	0.00047	0.0001 J	<0.011	0.000077 J	0.00012	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056 UJ	<0.0022	<0.0056	<0.011	<0.0056 UJ	<0.00011	<0.00011	0.00088 J	<0.011	<0.0056	0.002 J	<0.0056
	P57-ROX-101413	10/14/2013		44.38	NE	0.00045	0.000071 J	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.0012 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	0.00082 J	<0.011	<0.0054	0.0029 J	<0.0054
	P57-ROX-020314	2/3/2014		46.57	NE	0.00041	0.000075 J	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	0.00067 J	<0.011	<0.0053	<0.011	<0.0053
	P57-ROX-041514	4/15/2014		46.70	NE	0.00036	0.000074 J	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	0.0007 J	<0.011	<0.0056	<0.011 UJ	<0.0056
	P57-ROX-070814	7/8/2014		45.95	NE	0.00029	0.000069 J	<0.011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	0.0007 J	<0.011	<0.0053	<0.011	<0.0053
	P57-ROX-070814-DUP	7/8/2014		45.95	NE	0.00029	0.000075 J	<0.011 UJ	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	0.00071 J	<0.011	<0.0054	<0.011	<0.0054
	P57-ROX-101414-DUP	10/14/2014		45.00	NE	0.0003	<0.00012	<0.012	<0.00012	<0.000058	<0.00012	<0.000058	<0.00012	<0.00012	<0.012	<0.012	<0.0058	<0.0023	<0.0058	<0.012	<0.0058	<0.00012	<0.00012	<0.0023	<0.012	<0.0058	<0.012	<0.0058
	P57-ROX-101414	10/14/2014		45.00	NE	0.00036	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	P57-ROX-012315	1/23/2015	44.19 - 54.19	47.52	NE	0.00059	0.00014	<0.011	0.000073 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	0.0013 J	<0.011	<0.0053	<0.011	<0.0053
	P57-ROX-042015	4/20/2015		48.73	NE	0.00054	0.00012	<0.01	0.00009 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	0.0011 J	<0.01	<0.0052	<0.01	<0.0052
	P57-ROX-071315	7/13/2015		47.81	NE	0.00049	0.0001 J	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	P57-ROX-101515	10/15/2015	44.19 - 54.19	45.56	NE	0.00029	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0076 J *	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	0.00067 J	<0.01	<0.01	<0.01	<0.01
P-58	P58-ROX-012213	1/22/2013	40.21 - 65.21	44.21	NE	0.0011	0.0006	<0.011 UJ	<0.00011	0.00038	0.00022	0.00012	0.00012	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	0.00039	0.000068 J	0.0038	<0.011	<0.0054	<0.011	<0.0054
	P58-ROX-041113	4/11/2013		44.40	NE	0.0015	0.0005	<0.011	<0.00011	0.0003	0.00019	0.000095	0.000074 J	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	0.00032	<0.00011	0.0044	<0.011	<0.0054	<0.011	<0.0054
	P58-ROX-071613	7/16/2013		41.49	NE	0.00076	0.00027	<0.011	0.000096 J	0.00018	0.000073 J	0.000045 J	<0.00011	<0.00011	<0.011	<0.011	<0.0055 UJ	<0.0022	<0.0055	<0.011	<0.0055 UJ	0.00012	<0.00011	0.0025	<0.011	<0.0055	<0.011	<0.0055
	P58-ROX-101413	10/14/2013		42.19	NE	0.00084	<0.00011	<0.011	<0.00011	<0.000054	0.000067 J	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.0099	<0.0054	<0.011	<0.0054	0.000099 J	<0.00011	0.0024	<0.011	<0.0054	0.0016 J	<0.0054
	P58-ROX-020314	2/3/2014		44.66	NE	0.00061	0.00018	<0.01	<0.0001	0.000035 J	0.000047 J	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	0.000079 J	<0.0001	0.0016 J	<0.01	<0.0052	<0.01	<0.0052
	P58-ROX-041514	4/15/2014		45.66	NE	0.0011	0.00072	0.0028 J	0.00071	0.00082	0.00063	0.00072	0.00071	0.00071	<0.011 UJ	0.0051 J	0.0015 J	<0.00099 U	0.00091 J	0.0044 J	0.0043 J	0.00073	0.00075	0.0023	<0.011 UJ	0.00077 J	<0.011 UJ	<0.0053 UJ
	P58-ROX-071814	7/18/2014		43.80	NE	0.00067	0.00021	<0.011	<0.00011	0.000083	0.000086 J	0.000045 J	0.000035 J	<0.00011	<0.011 UJ	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	0.00015	<0.00011	0.0018 J	<0.011	<0.0055	<0.011	<0.0055
	P58-ROX-101514	10/15/2014		43.14	NE	0.00058	0.00023	<0.011	<0.00011	0.00013	0.00011	0.000074	0.000065 J	<0.00011	<0.011	<0.011	0.014	<0.00042 U	<0.0054	<0.011	<0.0054	0.00018	<0.00011	0.0022	<0.011	<0.0054	<0.011	<0.0054
	P58-ROX-012315	1/23/2015		45.32	NE	0.0006	0.00018	<0.011	0.000053 J	0.000026 J	0.00002 J	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	0.000032 J	<0.00011	0.0019 J	<0.011	<0.0053	<0.011	<0.0053
	P58-ROX-042015	4/20/2015		46.67	NE	0.00064	0.00017	<0.01	0.000077 J	0.000052	0.000063 J	0.000059	0.000028 J	0.000016 J	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	0.000095 J	<0.0001	0.002 J	<0.01	<0.0052	<0.01	<0.0052
	P58-ROX-071415	7/14/2015		45.54	NE	0.00059	0.00018	<0.011	<0.00011	0.000087	0.000074 J	<0.000055	0.000042 J	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	0.00015	<0.00011	0.002 J	<0.011	<0.0055	<0.011	<0.0055
	P58-ROX-101615	10/16/2015	40.21 - 65.21	43.45	NE	0.00021	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	0.00059 J	<0.01	<0.01	<0.01	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																				
						Acenaphthene	Acenaphthylene	Aniline	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol	Dimethyl phthalate
				Screening Values (mg/L)		0.42 [1]	0.21 [3]	0.023 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
P-59	P59-ROX-013013	1/30/2013	47.91 - 72.91	46.60	NE	0.00047	<0.0001	<0.01 UJ	0.00012	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.0041	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	0.0581	<0.0052 UJ
	P59-ROX-041213	4/12/2013		46.95	NE	0.00057	0.00013	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	0.0831 J	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	0.0919	<0.0054
	P59-ROX-041213-DUP	4/12/2013		46.95	NE	0.00058	0.00012	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	0.0518 J	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	0.0914	<0.0053
	P59-ROX-071613	7/16/2013		44.13	NE	0.00035	0.000071 J	<0.011	0.000092 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054 UJ	<0.0022	<0.0054	<0.011	<0.0054 UJ	<0.00011	<0.00011	0.00041 J	<0.011	<0.0054	0.0583	<0.0054
	P59-ROX-101013	10/10/2013		45.50	NE	0.00055	0.000084 J	<0.011	0.00021	0.000068	<0.00011	0.000039 J	<0.00011	<0.00011	<0.011 UJ	0.0009 J	<0.0054	0.00069 J	<0.0054	<0.011	<0.0054	0.000088 J	<0.00011	<0.0022	<0.011	<0.0054	0.078	<0.0054
	P59-ROX-020314	2/3/2014		47.35	NE	0.00046	<0.0001	<0.01	0.00018	0.000035 J	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	0.000046 J	<0.0001	<0.0021	<0.01	<0.0052	0.147 J	<0.0052
	P59-ROX-041514	4/15/2014		48.60	NE	0.0013	<0.00011	<0.011	0.00018	0.00006	0.000042 J	0.000044 J	0.000035 J	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	0.0001 J	<0.00011	<0.0021	<0.011	<0.0053	<0.011 UJ	<0.0053
	P59-ROX-070814	7/8/2014		47.69	NE	0.0015	0.000091 J	<0.011 UJ	0.00012	0.000029 J	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	0.000027 J	<0.00011	<0.0023	<0.011	<0.0057	0.17	<0.0057
	P59-ROX-101414	10/14/2014		46.18	NE	0.00045 J	<0.00054	<0.011	<0.00054	<0.00027	<0.00054	<0.00027	<0.00054	<0.00054	<0.011	<0.011	0.0035 J	<0.0022	<0.0054	<0.011	<0.0054	<0.00054	<0.00054	<0.0022	<0.011	<0.0054	0.0492	<0.0054
	P59-ROX-011915	1/19/2015		47.42	NE	0.00075	0.00013	<0.011	0.00021	0.000038 J	0.000021 J	<0.000054	0.00002 J	<0.00011	<0.011	<0.011	<0.0054	0.00042 J	<0.0054	<0.011	<0.0054	0.000047 J	<0.00011	<0.0022	<0.011	<0.0054	0.153	<0.0054
	P59-ROX-041615	4/16/2015		48.83	NE	0.00031	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	0.165	<0.0054
	P59-ROX-071315	7/13/2015		47.85	NE	0.00058	<0.00011	<0.011	0.00037	0.000068	0.000035 J	0.000056	0.000037 J	0.000033 J	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	0.00013	<0.00011	<0.0022	<0.011	<0.0054	0.113	<0.0054
	P59-ROX-101515	10/15/2015	47.91 - 72.91	45.75	NE	<0.002	<0.002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	0.077	<0.01
P-66	P66-ROX-011813	1/18/2013	34.72 - 59.72	35.70	NE	0.00074	0.00034	<0.011 UJ	<0.000055 U	<0.00053	<0.00011	<0.000028 U	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	0.0018 J	<0.011	<0.0053	<0.011	<0.0053 UJ
	P66-ROX-041113	4/11/2013		36.03	NE	0.0011	0.00028	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	0.0025	<0.011	<0.0053	<0.011	<0.0053
	P66-ROX-071213	7/12/2013		33.20	NE	0.00087	<0.00011	<0.011	<0.0002 U	0.00018 B	<0.00015 U	0.00017 B	<0.00019 U	0.00015	<0.011 UJ	<0.011	<0.0056	0.0124	<0.0056	<0.011	<0.0056	0.00017	0.00017	0.0016 J	<0.011	<0.0056	<0.011	<0.0056 UJ
	P66-ROX-101013	10/10/2013		33.66	NE	0.00066	0.0002	<0.011	<0.00011	0.000028 J	<0.00011	<0.000056	0.000036 J	<0.00011	<0.011 UJ	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	0.0016 J	<0.011	<0.0056	<0.011	<0.0056
	P66-ROX-110713	11/7/2013		33.66	NE																						
	P66-ROX-012914	1/29/2014		36.39	NE	0.00099	0.00032	<0.011	<0.00011	0.000039 J	0.000044 J	0.000048 J	0.000052 J	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	0.000047 J	0.000035 J	0.0019 J	<0.011	<0.0053	<0.011	<0.0053
	P66-ROX-041114	4/11/2014		37.10	NE	0.00058	0.00017	<0.012	<0.00012	<0.000058	<0.00012	<0.000058	<0.00012	<0.00012	<0.012	<0.012	<0.0058	<0.00068 U	<0.0058	<0.012	<0.0058	<0.00012	<0.00012	<0.0023	<0.012	<0.0058	<0.012	<0.0058
	P66-ROX-070714	7/7/2014		35.60	NE	0.00033	0.00016	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	P66-ROX-101414	10/14/2014		34.48	NE	0.00045	0.00018	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	0.0012 J	<0.011	<0.0055	<0.011	<0.0055
	P66-ROX-011615	1/16/2015		36.62	NE	0.00067	0.00026	<0.011	0.000065 J J	0.00003 J J	<0.00011 UJ	<0.000053 UJ	<0.00011	<0.00011 UJ	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	0.000029 J J	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	P66-ROX-011615-DUP	1/16/2015		36.62	NE	0.00068	0.00027	<0.011	0.00031 J	0.00043 J	0.0003 J	0.00032 J	0.00015	0.00023 J	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	0.00032 J	0.000062 J	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	P66-ROX-041415	4/14/2015		38.27	NE	0.0006	0.00022	<0.011	<0.00011	<0.000054	0.000019 J	0.000055	0.000022 J	0.000021 J	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	0.000024 J	<0.00011	0.0016 J	<0.011	<0.0054	<0.011	<0.0054
	P66-ROX-041415-DUP	4/14/2015		38.27	NE	0.00066	0.00021	<0.011	0.000044 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	0.0016 J	<0.011	<0.0053	<0.011	<0.0053
	P66-ROX-070815	7/8/2015		37.24	NE	0.00054	0.00017	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	0.001 J	<0.011	<0.0053	<0.011	<0.0053
	P66-ROX-070815-DUP	7/8/2015		37.24	NE	0.00051	0.00021	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	0.000017 J	<0.00011	0.0011 J	<0.011	<0.0053	<0.011	<0.0053
	P66-ROX-101315	10/13/2015	34.72 - 59.72	34.84	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.01	<0.01
P-74	P74-ROX-011713	1/17/2013	44.43 - 69.43	42.65	NE	0.00019	0.0001	<0.01 UJ	0.000063 J	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	0.0028 J	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	0.0021 J	<0.0051
	P74-ROX-041113	4/11/2013		42.83	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	P74-ROX-071513	7/15/2013		40.11	NE	<0.000063 U	<0.00011	<0.011	0.000032 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	0.0013 J	<0.0054	<0.011	<0.0054
	P74-ROX-101413	10/14/2013		41.72	NE	0.0002	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00097 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	0.00033 J	0.0012 J	<0.0054	0.0019 J	<0.0054
	P74-ROX-012414	1/24/2014		43.35	NE	0.00023	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.00063 J	0.00097 J	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
	P74-ROX-041514	4/15/2014		44.74	NE	<0.00012	<0.00012	<0.012	<0.00012	<0.000059	<0.00012	<0.000059	<0.00012	<0.00012	<0.012	<0.012	<0.0059	<0.0024	<0.0059	<0.012	<0.0059	<0.00012	<0.00012	<0.0024	<0.012	<0.0059	<0.012 UJ	<0.0059
	P74-ROX-070814	7/8/2014		43.02	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011	<0.0057
	P74-ROX-101414	10/14/2014		41.48	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	0.00096 J	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
	P74-ROX-011915	1/19/2015		43.47	NE	0.00018	0.000061 J	<0.011	0.000046 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	0.02	<0.0053
	P74-ROX-041515	4/15/2015		44.61	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	P74-ROX-071015	7/10/2015		43.28	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	P74-ROX-101415	10/14/2015	44.43 - 69.43	41.75	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	0.021	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																				
						Acenaphthene	Acenaphthylene	Aniline	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol	Dimethyl phthalate
				Screening Values (mg/L)		0.42 [1]	0.21 [3]	0.023 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
P-93A	P93A-ROX-012313	1/23/2013	48.17 - 63.17	45.89	NE	0.00016	<0.0001	<0.01 UJ	0.000028 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.0099	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052 UJ	<0.01	<0.0052 UJ
	P93A-ROX-012313-DUP	1/23/2013		45.89	NE	0.00014	<0.0001	<0.01 UJ	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.011	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052 UJ	<0.01	<0.0052 UJ
	P93A-ROX-041113	4/11/2013		46.29	NE	0.00023	<0.0001	<0.01	0.000074 J	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
	P93A-ROX-041113-DUP	4/11/2013		46.29	NE	0.00021	<0.0001	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
	P93A-ROX-071813	7/18/2013		43.25	NE	<0.00011	0.000032 J	<0.011	0.00003 J	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	0.00024 J	<0.011	<0.0056	<0.011	<0.0056
	P93A-ROX-101113	10/11/2013		44.18	NE	0.00017	<0.0001	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
	P93A-ROX-012914	1/29/2014		46.53	NE	0.00022	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	P93A-ROX-041714	4/17/2014		47.41	NE	0.00013	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	P93A-ROX-071814	7/18/2014		45.70	NE	0.00017	<0.00011	<0.011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0057	0.0041	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.011	<0.00037 U	<0.011	<0.0057
	P93A-ROX-071814-DUP	7/18/2014		45.70	NE	0.00016	<0.00011	<0.011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011	<0.0057
	P93A-ROX-101514	10/15/2014		45.06	NE	0.0002	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0004 U	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	0.0003 J	<0.01	<0.0052	<0.01	<0.0052
	P93A-ROX-101514-DUP	10/15/2014		45.06	NE	0.00022 J	<0.00011 UJ	<0.011 UJ	<0.00011 UJ	<0.000054 UJ	<0.00011 UJ	<0.000054 UJ	<0.00011 UJ	<0.00011 UJ	<0.011 UJ	<0.011 UJ	0.0044 J J	<0.0041 UJ	<0.0054 UJ	<0.011 UJ	<0.0054 UJ	<0.00011 UJ	<0.00011 UJ	0.00033 J J	<0.011 UJ	<0.0054 UJ	<0.011 UJ	<0.0054 UJ
	P93A-ROX-012715	1/27/2015	43.07 - 53.07	46.05	NE	<0.001	<0.001	<0.005	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0002	<0.0002	<0.005	<0.005	<0.005	<0.005	<0.005
	P93A-ROX-041715	4/17/2015		47.02	NE	0.00011	<0.00011	<0.011	0.000031 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	0.00046 J	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	0.00029 J	<0.011	<0.0053	<0.011	<0.0053
	P93A-ROX-071315	7/13/2015		45.93	NE	0.00011	0.000029 J	<0.01	0.00003 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.00048 J	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	P93A-ROX-101515	10/15/2015	43.07 - 53.07	43.69	NE	0.000079 J	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.01	<0.01
	P93A-ROX-101515-DUP	10/15/2015		43.69	NE	0.00008 J	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.01	<0.01
P-93B	P93B-ROX-012313	1/23/2013	74.60 - 76.60	45.89	NE	0.00014	0.000072 J	<0.011 UJ	0.00013	0.00022	0.00011	0.00013	0.00012	0.00012	<0.011	<0.011	<0.0053	0.0055	0.0032 J	0.0013 J	<0.0053	0.00012	0.00012	<0.0021	<0.011	<0.0053 UJ	0.0021 J	0.00024 J J
	P93B-ROX-041113	4/11/2013		46.32	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
	P93B-ROX-071813	7/18/2013		43.30	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	P93B-ROX-101613	10/16/2013		44.43	NE	<0.0001	0.000065 J	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
	P93B-ROX-101613-DUP	10/16/2013		44.43	NE	<0.0001	0.000091 J	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
	P93B-ROX-012814	1/28/2014		46.58	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	0.00072 J	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011	<0.0055
	P93B-ROX-012814-DUP	1/28/2014		46.58	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.0012 J	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
	P93B-ROX-041714	4/17/2014		47.46	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	0.0015 J	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
	P93B-ROX-041714-DUP	4/17/2014		47.46	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	0.00045 J	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	P93B-ROX-071714	7/17/2014		45.75	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	P93B-ROX-101514	10/15/2014		45.15	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	P93B-ROX-012315	1/23/2015		47.24	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	0.00063 J	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	P93B-ROX-012315-DUP	1/23/2015		47.24	NE	0.000019 J	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	P93B-ROX-021915	2/19/2015		47.24	NE																							
	P93B-ROX-041615	4/16/2015		48.42	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	0.00099 J	<0.0053
	P93B-ROX-041615-DUP	4/16/2015		48.42	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	0.00084 J	<0.0053
	P93B-ROX-070915	7/9/2015		47.74	NE	<0.0001	<0.0001	<0.01	0.000029 J	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	0.0153	<0.002	<0.0051	<0.01	<0.0051	0.000017 J	<0.0001	<0.002	<0.01	<0.0051	0.0009 J	<0.0051
	P93B-ROX-070915-DUP	7/9/2015		47.74	NE	0.000062 J	0.00004 J	<0.01	0.000041 J	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	0.0142	<0.002	<0.0051	<0.01	<0.0051	0.000016 J	<0.0001	<0.002	<0.01	<0.0051	0.00082 J	<0.0051
	P93B-ROX-101515	10/15/2015	74.60 - 76.60	45.18	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.01	<0.01
P-93C	P93C-ROX-012313	1/23/2013	94.26 - 96.26	45.78	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	0.0049	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055 UJ	<0.011	<0.0055 UJ
	P93C-ROX-041213	4/12/2013		46.21	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005 UJ
	P93C-ROX-071813	7/18/2013		43.31	NE	<0.000045 U	<0.00011	<0.011	0.000021 J	<0.000056	0.00015	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	P93C-ROX-080813	8/8/2013		43.31	NE																							
	P93C-ROX-101613	10/16/2013		44.31	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
	P93C-ROX-012414	1/24/2014		46.44	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
	P93C-ROX-041714	4/17/2014		47.34	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	P93C-ROX-071714	7/17/2014		45.61	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	P93C-ROX-101514	10/15/2014		44.99	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	P93C-ROX-011915	1/19/2015	92.47 - 97.47	46.77	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	P93C-ROX-021915	2/19/2015		46.77	NE																							
	P93C-ROX-041615	4/16/2015		48.22	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	P93C-ROX-071315	7/13/2015		47.09	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	P93C-ROX-101415	10/14/2015	92.47 - 97.47	44.91	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.01	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																		
						Acenaphthene	Acenaphthylene	Aniline	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol	Dimethyl phthalate
				Screening Values (mg/L)		0.42 [1]	0.21 [3]	0.023 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																						
P-93D	P93D-ROX-012213	1/22/2013	125.75 - 127.75	44.21	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	P93D-ROX-041113	4/11/2013		46.37	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	P93D-ROX-071213	7/12/2013		43.51	NE	<0.000026 U	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	0.00057 J	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056 UJ
	P93D-ROX-101113	10/11/2013		44.24	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	<0.01 UJ	<0.005 UJ	<0.0001	<0.0001	<0.002	<0.01 UJ	<0.005	<0.01 UJ	<0.005
	P93D-ROX-013114	1/31/2014		46.62	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	0.0045	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	P93D-ROX-041414	4/14/2014		47.54	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0005 U	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	P93D-ROX-071714	7/17/2014		45.78	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	P93D-ROX-101514	10/15/2014		45.14	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	P93D-ROX-110414	11/4/2014		45.14	NE																						
	P93D-ROX-012315	1/23/2015		42.28	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	P93D-ROX-021915	2/19/2015		42.28	NE																						
	P93D-ROX-042015	4/20/2015		48.52	NE	<0.0001	<0.0001	<0.01	0.000017 J	<0.000052	<0.0001	0.000061	0.00002 J	0.000023 J	<0.01	<0.01	<0.0052	<0.00035 U	<0.0052	<0.01	<0.0052	0.000021 J	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	P93D-ROX-070915	7/9/2015		47.96	NE	<0.0001	<0.0001	<0.01	0.000018 J	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	0.0043 J	<0.002	<0.0051	<0.01	<0.0051	0.000016 J	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
	P93D-ROX-101515	10/15/2015	125.75 - 127.75	45.28	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.01	<0.01
P-114	P114-ROX-012313	1/23/2013	32.67 - 52.67	30.22	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	0.0059	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053 UJ	<0.011	<0.0053 UJ
	P114-ROX-041513	4/15/2013		31.80	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.0052	0.0023	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	P114-ROX-071813	7/18/2013		27.22	NE	0.00013 B	<0.00011	<0.011	0.00011	0.000045 J	0.000034 J	0.000064	0.000067 J	<0.00011	<0.011 UJ	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	0.000073 J	<0.0022	<0.011	<0.0055	<0.011	<0.0055
	P114-ROX-071813-DUP	7/18/2013		27.22	NE	<0.00011	<0.00011	<0.011	0.00013	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	P114-ROX-101713	10/17/2013		29.43	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	P114-ROX-012814	1/28/2014		32.11	NE	<0.00011	<0.00011	<0.011	0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00066 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	P114-ROX-042114	4/21/2014		32.22	NE	0.00011	<0.0001	<0.01	0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
	P114-ROX-071814	7/18/2014		30.87	NE	0.000082 J	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
	P114-ROX-101714	10/17/2014		29.43	NE	0.000078 J	<0.00011	<0.011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011	<0.0057
	P114-ROX-012115	1/21/2015		31.53	NE	0.00019	<0.00011	<0.011	0.000096 J	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	P114-ROX-041715	4/17/2015		NM	NE	0.00021	0.000044 J	<0.011	0.000054 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	0.00038 J	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	P114-ROX-070815	7/8/2015		29.16	NE	0.0002	<0.0001	<0.01	0.000035 J	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
P-114R	P114R-ROX-100515	10/5/2015	23.01 - 33.01	26.24	NE	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	0.000071 J	0.00007 J	<0.0002	0.00006 J	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.01	<0.01
ROST-3-MW	ROST3MW-ROX-012313	1/23/2013	37.81 - 47.81	41.50	NE	0.00025	0.000059 J	<0.01 UJ	0.000074 J	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005 UJ	<0.01	<0.005 UJ
	ROST3MW-ROX-040513	4/5/2013				0.00016	<0.00011 UJ	<0.011 UJ	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	ROST3MW-ROX-071113	7/11/2013		39.50	NE	0.00029	<0.00011	<0.011	0.000091 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	0.00061 J	<0.0054	<0.011 UJ	<0.0054 UJ	<0.00011	<0.00011	0.00025 J	<0.011 UJ	<0.0054	0.0016 J J	<0.0054
	ROST3-MW-ROX-100913	10/9/2013		40.16	NE	0.0001 J	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	<0.0022	<0.0054	<0.011 UJ	<0.0054 UJ	<0.00011	<0.00011	<0.0022	<0.011 UJ	<0.0054	<0.011 UJ	<0.0054
	ROST3MW-ROX-011714	1/17/2014		42.20	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011 UJ	<0.0053 UJ	<0.00011	<0.00011	<0.0021	<0.011 UJ	<0.0053	<0.011 UJ	<0.0053
	ROST3MW-ROX-041014	4/10/2014		42.80	NE	<0.00012	<0.00012	<0.012	<0.00012	<0.00006	<0.00012	<0.00006	<0.00012	<0.00012	<0.012 UJ	<0.012	<0.006	<0.0024	<0.006	<0.012	<0.006	<0.00012	<0.00012	<0.0024	<0.012	<0.006	<0.012	<0.006
	ROST3MW-ROX-071414	7/14/2014		41.88	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	ROST3MW-ROX-100914	10/9/2014		41.31	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	0.00046 J	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	ROST3MW-ROX-011515	1/15/2015		41.83	NE	0.000027 J	<0.00011	<0.011	0.000019 J J	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011	<0.0057
	ROST3MW-ROX-041315	4/13/2015		43.43	NE	0.000028 J	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
	ROST3MW-ROX-071315	7/13/2015		42.36	NE	0.000037 J	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	ROST3MW-ROX-101215	10/12/2015	37.81 - 47.81	40.29	NE	0.000081 J	<0.0002	<0.01	0.00003 J	0.000092 J	0.000089 J	0.00011 J	0.000089 J	0.00012 J	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.000095 J	0.000094 J	<0.01	<0.01	<0.01	<0.01	<0.01
ROST-4-PZ(C)	ROST4PZ(C)-ROX-011113	1/11/2013	34.95 - 44.95	41.42	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053 UJ
	ROST4PZC-ROX-041013	4/10/2013		42.27	NE	0.000066 J	0.000018 J	<0.011	0.000033 J	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011	<0.0055
	ROST4PZC-ROX-071113	7/11/2013		40.18	NE	0.00019	0.000073 J	<0.011	0.00012	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	0.0032	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	ROST4PZC-ROX-100913	10/9/2013		39.91	NE	0.00012	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	ROST4PZC-ROX-011714	1/17/2014		41.92	NE	<0.00012	<0.00012	<0.012	<0.00012	<0.000059	<0.00012	<0.000059	<0.00012	<0.00012	<0.01 UJ	<0.012	<0.0059	<0.0024	<0.0059	<0.01 UJ	<0.005 UJ	<0.00012	<0.00012	<0.0024	<0.01 UJ	<0.0059	<0.01 UJ	<0.0059
	ROST4PZC-ROX-041014	4/10/2014		42.05	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	ROST4C-ROX-071114	7/10/2014		42.22	NE	<0.0001	<0.0001	<0.011	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.011	<0.011	<0.0053	0.0007 J	<0.0053	<0.011	<0.0053	<0.0001	<0.0001	<0.0021	<0.011	<0.0053	<0.011	<0.0053
	ROST4PZC-ROX-100914	10/9/2014		41.30	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	ROST4PZC-ROX-011515	1/15/2015		41.65	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	0.0042	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011	<0.0057
	ROST4PZC-ROX-041315	4/13/2015		43.00	NE	<0.0001	<0.0001	<0.01	0.000018 J	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	0.0013 J	<0.0051
	ROST4PZC-ROX-101215	10/12/2015	34.95 - 44.95	40.35	NE	0.00019 J	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.01	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																			
						Acenaphthene	Acenaphthylene	Aniline	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol	Dimethyl phthalate
				Screening Values (mg/L)		0.42 [1]	0.21 [3]	0.023 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
T-12	T12-ROX-011813	1/18/2013	46.46 - 72.46	44.50	NE	0.0005	0.000093 J	<0.011 UJ	<0.00013 U	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	0.0065 J	<0.0053 UJ
	T12-ROX-041513	4/15/2013		44.99	NE	0.00063	0.00009 J	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	0.00048 J	<0.01	<0.0051	<0.01	<0.0051
	T12-ROX-071613	7/16/2013		42.33	NE	0.00055	0.0001 J	<0.011	0.00015	0.00013	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	0.001 J	<0.0054 UJ	<0.0044 U	<0.0054	<0.011	<0.0054 UJ	<0.00011	<0.00011	0.00042 J	<0.011	<0.0054	0.0096 J	<0.0054
	T12-ROX-101513	10/15/2013		43.73	NE	0.00036	<0.00011	<0.011	0.00012	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	0.000028 J	<0.00011	0.00029 J	<0.011	<0.0054	0.0047 J	<0.0054
	T12-ROX-012414	1/24/2014		45.26	NE	0.0005	<0.0001	<0.01	0.00014	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	0.0073 J	<0.0051
	T12-ROX-041514	4/15/2014		46.72	NE	0.00037	<0.00011	<0.011	0.00012	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	0.00031 J	<0.011	<0.0056	<0.011 UJ	<0.0056
	T12-ROX-070814	7/8/2014		45.13	NE	0.00024	<0.00011	<0.011 UJ	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
	T12-ROX-101714	10/17/2014		44.40	NE	0.00036	0.000072 J	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
	T12-ROX-011915	1/19/2015		45.27	NE	0.00039	0.000064 J	<0.011	0.00013	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	0.0069 J	<0.0053
	T12-ROX-041515	4/15/2015		46.73	NE	0.00036	0.000065 J	<0.011	0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	0.00033 J	<0.011	0.00036 J J	0.0044 J	<0.0056
	T12-ROX-071015	7/10/2015		46.09	NE	0.00034	<0.00011	<0.011	0.00015	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	0.0041 J	<0.0054
	T12-ROX-101515	10/15/2015	46.83 - 72.83	43.72	NE	0.00022	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.01	0.004 J	<0.01

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TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																				
						Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	Fluoranthene	Fluorene	Hexachlorobenzene	Indene	Indeno(1,2,3-cd)pyrene	Isophorone (3,5,5-trimethyl-2-cyclohexene-1-one)	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	3-Nitroaniline	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Pyridine
			Screening Values (mg/L)			0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]		0.014 [1]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]	0.007 [3]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-01	MW1-ROX-011013	1/10/2013	48.80 - 58.80	41.89	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000021 U	<0.0052	<0.0001	<0.01 UJ
	MW1-ROX-040913	4/9/2013		42.55	NE	<0.0012 U	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011	<0.011
	MW1-ROX-070813	7/8/2013		39.56	NE	<0.0051	<0.0051	<0.01	0.000033 J	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000043 U	<0.0051	<0.0001	<0.01
	MW1-ROX-100313	10/3/2013		40.28	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	MW1-ROX-011414	1/14/2014		42.77	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011 UJ	<0.011 UJ	<0.011	<0.0053	<0.0053	<0.0053	<0.011 UJ	0.000031 J	<0.0053 UJ	<0.00011	<0.011
	MW1-ROX-040714	4/7/2014		43.28	NE	<0.00029 U	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011 UJ	<0.011 UJ	<0.011	<0.0054	<0.0054	<0.0054	<0.011 UJ	<0.000023 U	<0.0057 UJ	<0.00011	<0.011
	MW1-ROX-070914	7/9/2014		42.09	NE	0.0016 JB	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.000085 J	0.00012 JB J	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	MW1-ROX-100614	10/6/2014		41.1	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.0021	<0.0021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053 UJ	<0.00011	<0.011
	MW1-ROX-011215	1/12/2015		42.73	NE	<0.0053	<0.0053	<0.011	0.000017 J	0.000027 J	<0.0053		<0.00011	<0.0053	<0.00003 U	<0.000036 U	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00003 J	<0.0053	<0.00011	<0.011 UJ
	MW1-ROX-040615	4/6/2015		44.11	NE	0.00044 J	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.000018 J	0.000035 J	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011	<0.011
	MW1-ROX-070815	7/8/2015		43.35	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.000038 J	0.000066 J	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000022 J	<0.0053	<0.00011	<0.011
	MW1-ROX-100615	10/6/2015	48.80 - 58.80	40.83	NE	<0.01	0.00056 J	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.01	0.000057 J	0.000096 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
MW-02	MW2-ROX-011113	1/11/2013	49.87 - 59.87	42.94	NE	<0.0056	<0.0056	<0.011	0.00004 J	<0.00011	<0.0056		<0.00011	<0.0056	0.008	0.0162	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.000044 J	<0.0056	0.000039 J	<0.011 UJ
	MW2-ROX-040913	4/9/2013		43.70	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.012	0.0256	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	MW2-ROX-071113	7/11/2013		40.82	NE	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	0.0123 J	0.0249	<0.011	<0.011	<0.011 UJ	<0.0055	<0.0055	<0.0055	<0.011	<0.000051 U	<0.0055 UJ	<0.00011	<0.011 UJ
	MW2-ROX-100813	10/8/2013		41.73	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.009	0.0201	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011 UJ
	MW2-ROX-012014	1/20/2014		44.00	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.0094	0.0208	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000043 U	<0.0053	<0.00011	<0.011 UJ
	MW2-ROX-041014	4/10/2014		44.66	NE	<0.00046 U	<0.006	<0.012	<0.00012	<0.00012	<0.006		<0.00012	<0.006	0.0083	0.0193	<0.012	<0.012	<0.012	<0.006	<0.006	<0.006	<0.012	<0.00006	<0.006	<0.00012	<0.012
	MW2-ROX-071414	7/14/2014		43.13	NE	<0.00045 U	<0.0054	<0.011	0.00012	0.00014	<0.0054		<0.00011	<0.0054	0.01	0.0215	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.00017 U	<0.0054	0.000096 J	<0.011
	MW2-ROX-101014	10/10/2014		42.49	NE	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	0.01	0.0214	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001	<0.01
	MW2-ROX-011615	1/16/2015		44.1	NE	<0.00034 U	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.0108	0.0236	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000025 J	<0.0053	<0.00011	<0.011
	MW2-ROX-041315	4/13/2015		45.56	NE	<0.00045 U	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.0124	0.0253	<0.011	0.00066 J	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.000023 J	<0.0054	<0.00011	<0.011
	MW2-ROX-071315	7/13/2015		44.53	NE	<0.0054	<0.0054	<0.011	<0.00011	0.000036 J	<0.0054		<0.00011	<0.0054	0.0129	0.0283	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.000027 JB J	<0.0054	<0.00011	<0.011
	MW2-ROX-101215	10/12/2015	49.87 - 59.87	42.15	NE	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.01	0.01	0.017	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
MW-03	MW3-ROX-010913	1/9/2013	34.67 - 44.67	29.35	NE	0.0025 J	<0.005	<0.01	0.000047 J	0.000052 J	<0.005		<0.0001	<0.005	<0.0002	0.000081 J	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.000068	<0.005 UJ	0.000036 J	<0.01 UJ
	MW3-ROX-040813	4/8/2013		29.74	NE	<0.0057	<0.0057	<0.011	<0.00011	<0.00011	<0.0057		<0.00011	<0.0057	<0.00023	<0.00023	<0.011	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	<0.000057	<0.0057	<0.00011	<0.011 UJ
	MW3-ROX-071113	7/11/2013		26.32	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.00044 J	0.00038	<0.011	<0.011	<0.011 UJ	<0.0054	<0.0054	<0.0054	<0.011	<0.000039 U	<0.0054 UJ	<0.000072 U	<0.011 UJ
	MW3-ROX-100813	10/8/2013		27.38	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.00013 J	0.00014 J	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011 UJ
	MW3-ROX-011614	1/16/2014		29.91	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011 UJ	<0.011 UJ	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011 UJ	<0.000053	<0.0053 UJ	<0.00011	<0.011 UJ
	MW3-ROX-040914	4/9/2014		30.50	NE	<0.00056 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000019 U	<0.0056	<0.00011	<0.011
	MW3-ROX-071114	7/10/2014		29.05	NE	<0.00028 U	<0.0054	<0.011	<0.0001	<0.0001	<0.0054		<0.0001	<0.0054	0.000067 J	<0.0002	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.00003 U	<0.0054	<0.0001	<0.011 UJ
	MW3-ROX-100914	10/9/2014		28.18	NE	<0.00023 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.0022	<0.0022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011
	MW3-ROX-011515	1/15/2015		29.65	NE	0.00028 J J	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	0.00033 J	0.0003 J	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.000018 J J	<0.0056	<0.00011	<0.011
	MW3-ROX-041015	4/10/2015		31.16	NE	0.00054 J	<0.0053	<0.011	0.000024 J J	<0.0001	<0.0053		<0.0001	<0.0053	0.00013 J	0.000097 J	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000026 JB J	<0.0053	0.000018 J	<0.01
	MW3-ROX-071015	7/10/2015		30.01	NE	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	0.00028 JB	0.00026 JB	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011
	MW3-ROX-100915	10/9/2015	34.67 - 44.67	27.98	NE	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.01	0.00035	0.00029	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																				
						Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	Fluoranthene	Fluorene	Hexachlorobenzene	Indene	Indeno(1,2,3-cd)pyrene	Isophorone (3,5,5-trimethyl-2-cyclohexene-1-one)	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	3-Nitroaniline	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Pyridine
				Screening Values (mg/L)		0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]		0.014 [1]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]	0.007 [3]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-04	MW4-ROX-011113	1/11/2013	46.06 - 56.06	40.20	NE	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	0.00014 J	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	0.0608	<0.00011	<0.011 UJ
	MW4-ROX-011113-DUP	1/11/2013		40.20	NE	<0.006	<0.006	<0.012	<0.00012	<0.00012	<0.006		<0.00012	<0.006	<0.00024	0.000099 J	<0.012	<0.012	<0.012	<0.006	<0.006	<0.006	<0.012	<0.00006	0.0665	<0.00012	<0.012 UJ
	MW4-ROX-030413	3/4/2013		40.20	NE																						
	MW4-ROX-040913	4/9/2013		40.90	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00022	0.000082 J	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000054	0.11	<0.00011	<0.011
	MW4-ROX-040913-DUP	4/9/2013		40.90	NE	<0.00062 U	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	0.000076 J	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	0.103	<0.00011	<0.011 UJ
	MW4-ROX-071713	7/17/2013		37.61	NE	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		0.000052 J	<0.0055	0.00037	0.00023	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.00003 U	0.0661	<0.00011	<0.011
	MW4-ROX-101613	10/16/2013		38.80	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.00016 J	0.00015 J	<0.011 UJ	<0.011 UJ	<0.011	<0.0054	<0.0054	<0.0054	<0.011 UJ	<0.000054	0.0168 J	<0.00011	<0.011
	MW4-ROX-013014	1/30/2014		41.09	NE	<0.0013 U	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.00027	0.00022	<0.011 UJ	<0.011 UJ	<0.011	<0.0054	<0.0054	<0.0054	<0.011 UJ	<0.000022 U	0.0164 J	<0.00011	<0.011
	MW4-ROX-041614	4/16/2014		41.91	NE	<0.00076 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	0.000072 J	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011
	MW4-ROX-071614	7/16/2014		40.18	NE	<0.00043 U	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	0.00024	0.00022	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000041 U	<0.0052	<0.0001	<0.01
	MW4-ROX-101614	10/16/2014		39.49	NE	<0.0059	<0.0059	<0.012	<0.00012	<0.00012	<0.0059		<0.00012	<0.0059	<0.0024	<0.0024	<0.012	<0.012	<0.012	<0.0059	<0.0059	<0.0059	<0.012	0.000029 J	0.0115	<0.00012	<0.012 UJ
	MW4-ROX-012115	1/21/2015		41.27	NE	0.0011 J	<0.0053	<0.011	<0.000018 U	<0.00011	<0.0053		<0.00011	<0.0053	0.00012 JB	<0.00011 U	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000019 U	<0.0053	<0.000022 U	<0.011 UJ
	MW4-ROX-042115	4/21/2015	45.06 - 55.06	42.58	NE	<0.0052	<0.0052	<0.01	0.000018 J	<0.0001	<0.0052		<0.0001	<0.0052	0.00024 J	0.00021 J	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00002 J	<0.0052	0.000018 J	<0.01
	MW4-ROX-071415	7/14/2015		41.30	NE	<0.0056	<0.0056	<0.011	<0.00011	0.000018 J	<0.0056		<0.00011	<0.0056	0.00032 J	0.00035 JB J	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.000018 JB	<0.0056	<0.00011	<0.011
	MW4-ROX-101915	10/19/2015	45.06 - 55.06	39.44	NE	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.01	0.00017 J	0.00013 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
MW-05	MW5-ROX-011113	1/11/2013	33.97 - 43.97	28.75	NE	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	0.0043	0.000084 J	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.000048 J	<0.0055	<0.00011	<0.011 UJ
	MW5-ROX-040913	4/9/2013		29.41	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.004	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	MW5-ROX-070913	7/9/2013		26.04	NE	<0.005	<0.005	<0.01	<0.0001	<0.00099 U	<0.005		<0.0001	<0.005	0.0015	<0.0002 UJ	<0.01	<0.01	<0.01 UJ	<0.005	<0.005	<0.005	<0.01	<0.000074 U	<0.005	<0.0001	<0.01
	MW5-ROX-100813	10/8/2013		26.97	NE	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	0.0038	0.00009 J	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011	<0.011 UJ
	MW5-ROX-011714	1/17/2014		29.59	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.0035	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011	<0.011
	MW5-ROX-041014	4/10/2014		30.09	NE	<0.00087 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	0.0038	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011
	MW5-ROX-071414	7/14/2014		28.59	NE	<0.00037 U	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.00052 B	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000088 U	<0.0053	<0.00011	<0.011
	MW-5-ROX-100914	10/9/2014		27.75	NE	<0.00023 U	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.00099 J	<0.0022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.00003 U	0.00072 J	<0.00011	<0.011
	MW5-ROX-011515	1/15/2015		29.34	NE	<0.0053	<0.0053	<0.011	0.000037 J J	<0.00011	<0.0053		0.000023 J J	<0.0053	0.00071 J	<0.0021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000039 J J	<0.0053	0.000038 J J	<0.011
	MW5-ROX-041315	4/13/2015		30.97	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.000099 JB J	0.000031 JB J	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011	<0.011
	MW5-ROX-071315	7/13/2015		29.45	NE	<0.0054	<0.0054	<0.011	<0.00011	0.000026 J	<0.0054		<0.00011	<0.0054	0.000087 JB J	0.00018 JB J	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.000024 JB J	<0.0054	<0.00011	<0.011
	MW5-ROX-101215	10/12/2015	33.97 - 43.97	27.53	NE	<0.01	<0.01	<0.01	0.000055 J	<0.0002	<0.01	<0.01	0.000086 J	<0.01	0.00016 J	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
MW-06A	MW6A-ROX-011413	1/14/2013	34.83 - 44.83	31.00	NE	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		0.000072 J	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051 UJ	<0.0051	<0.01	<0.000051	<0.0051 UJ	<0.0001	<0.01 UJ
	MW6A-ROX-040313	4/3/2013		31.62	NE	0.0018 J	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011	0.000084	<0.0053 UJ	0.000053 J	<0.011 UJ
	MW6A-ROX-070913	7/9/2013		28.25	NE	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011 UJ	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011	<0.011
	MW6A-ROX-070913-DUP	7/9/2013		28.25	NE	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011 UJ	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011	<0.011
	MW6A-ROX-100713	10/7/2013		28.87	NE	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011
	MW6A-ROX-100713-DUP	10/7/2013		28.87	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	MW6A-ROX-011614	1/16/2014		31.62	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052 UJ	<0.0052	<0.01	<0.000052	<0.0052 UJ	<0.0001	<0.01 UJ
	MW6A-ROX-011614-DUP	1/16/2014		31.62	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011	<0.000053	<0.0053 UJ	<0.00011	<0.011 UJ
	MW6A-ROX-040814	4/8/2014		32.16	NE	<0.00075 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000054	<0.0056	<0.00011	<0.011 UJ
	MW6A-ROX-040814-DUP	4/8/2014		32.16	NE	<0.00077 U	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000055	<0.0054	<0.00011	<0.011 UJ
	MW6A-ROX-071014	7/10/2014		30.75	NE	<0.00026 U	<0.0054	<0.011	<0.00011	0.00013	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.000046 J	<0.0054	<0.00011	<0.011
	MW6A-ROX-100814	10/8/2014		29.84	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.0021	<0.0021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011	<0.011 UJ
	MW6A-ROX-011415	1/14/2015		31.54	NE	<0.0053	<0.0053	<0.011	0.000037 J J	0.000076 J	<0.0053		<0.00011	<0.0053	<0.0021	<0.0021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000046 J	<0.0053	0.000027 J	<0.011
	MW6A-ROX-040715	4/7/2015		33.08	NE	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	0.000019 J	0.000023 J	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001	<0.01
	MW6A-ROX-071515	7/15/2015		31.52	NE	<0.0057	<0.0057	<0.011	<0.00011	0.000058 J	<0.0057		<0.00011	<0.0057	0.000056 J	0.000076 JB J	<0.011	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	0.000026 J	<0.0057	<0.00011	<0.011
	MW6A-ROX-100715	10/7/2015	34.83 - 44.83	29.77	NE	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.01	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																				
						Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	Fluoranthene	Fluorene	Hexachlorobenzene	Indene	Indeno(1,2,3-cd)pyrene	Isophorone (3,5,5-trimethyl-2-cyclohexene-1-one)	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	3-Nitroaniline	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Pyridine
				Screening Values (mg/L)		0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]		0.014 [1]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]	0.007 [3]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-06B	MW6B-ROX-011713	1/17/2013	64.05 - 69.05	31.11	NE	0.0026 J	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001	<0.01
	MW6B-ROX-040313	4/3/2013		31.68	NE	0.0012 J	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	0.0002 J	<0.011	<0.011	<0.011	<0.0054	<0.0054 UJ	<0.0054	<0.011	<0.000054	<0.0054 UJ	<0.00011	<0.011 UJ
	MW6B-ROX-070913	7/9/2013		28.25	NE	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011 UJ	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011
	MW6B-ROX-100713	10/7/2013		28.93	NE	<0.0054	<0.0054	0.0224	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	MW6B-ROX-011614	1/16/2014		31.67	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		0.000043 J	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054 UJ	<0.0054	<0.011	<0.000054	<0.0054 UJ	<0.00011	<0.011 UJ
	MW6B-ROX-040814	4/8/2014		32.21	NE	<0.00043 U	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000018 J	<0.0053	<0.00011	<0.011
	MW6B-ROX-071014	7/10/2014		30.81	NE	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011
	MW6B-ROX-100814	10/8/2014		29.87	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.0021	<0.0021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011	<0.011 UJ
	MW6B-ROX-011415	1/14/2015		31.59	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.0022	0.000017 J	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	MW6B-ROX-040715	4/7/2015		33.10	NE	0.00029 J	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.002	<0.002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001	<0.01
	MW6B-ROX-040715-DUP	4/7/2015		33.10	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.0021	<0.0021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001	<0.01
	MW6B-ROX-071415	7/14/2015		31.56	NE	<0.0053	<0.0053	<0.011	<0.00011	0.00013	<0.0053		<0.00011	<0.0053	0.0036	0.0068	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000045 JB J	<0.0053	<0.00011	<0.011
	MW6B-ROX-100715	10/7/2015	64.05 - 69.05	29.80	NE	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.01	0.000059 J	0.000088 J J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
MW-06C	MW6C-ROX-011713	1/17/2013	84.95 - 89.95	30.88	NE	0.0022 J	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001	<0.01
	MW6C-ROX-040313	4/3/2013		31.41	NE	0.00077 J	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	0.00016 J	<0.01	<0.01	<0.01	<0.0052	<0.0052 UJ	<0.0052	<0.01	<0.000052	<0.0052 UJ	<0.0001	<0.01 UJ
	MW6C-ROX-070913	7/9/2013		28.03	NE	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011 UJ	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011
	MW6C-ROX-100713	10/7/2013		28.72	NE	0.00043 J	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011	<0.011
	MW6C-ROX-011614	1/16/2014		31.48	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011	<0.000053	<0.0053 UJ	<0.00011	<0.011 UJ
	MW6C-ROX-040814	4/8/2014		32.01	NE	<0.0004 U	<0.0059	<0.012	<0.00012	<0.00012	<0.0059		<0.00012	<0.0059	<0.00024	<0.00024	<0.012	<0.012	<0.012	<0.0059	<0.0059	<0.0059	<0.012	<0.000059	<0.0059	<0.00012	<0.012
	MW6C-ROX-071014	7/10/2014		30.60	NE	<0.00032 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		0.000035 J	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011
	MW6C-ROX-100814	10/8/2014		29.67	NE	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.0022	<0.0022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011 UJ
	MW6C-ROX-011415	1/14/2015		31.41	NE	<0.0056	<0.0056	<0.011	0.000022 J J	<0.00011	<0.0056		<0.00011	<0.0056	<0.0022	0.000028 J	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.000025 J	<0.0056	0.000021 J	<0.011
	MW6C-ROX-040915	4/9/2015		32.80	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.0022	0.000025 JB J	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	MW6C-ROX-071415	7/14/2015		31.38	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.000064 JB J	0.00014 JB J	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	MW6C-ROX-100715	10/7/2015	84.95 - 89.95	29.60	NE	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.01	0.000056 J	0.000083 J J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
MW-06D	MW6D-ROX-011713	1/17/2013	104.72 - 109.72	30.75	NE	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001	<0.01
	MW6D-ROX-040313	4/3/2013		31.27	NE	0.00069 J	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011	<0.000053	<0.0053 UJ	<0.00011	<0.011 UJ
	MW6D-ROX-070913	7/9/2013		27.91	NE	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011 UJ	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011	<0.011
	MW6D-ROX-100713	10/7/2013		28.58	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	MW6D-ROX-011614	1/16/2014		31.33	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052 UJ	<0.0052	<0.01	<0.000052	<0.0052 UJ	<0.0001	<0.01 UJ
	MW6D-ROX-040814	4/8/2014		31.85	NE	<0.00039 U	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011	<0.011
	MW6D-ROX-071014	7/10/2014		31.47	NE	<0.00027 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011
	MW6D-ROX-071014-DUP	7/10/2014		31.47	NE	<0.00029 U	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	MW6D-ROX-100814	10/8/2014		29.53	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.0022	<0.0022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011 UJ
	MW6D-ROX-100814-DUP	10/8/2014		29.53	NE	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.0022	<0.0022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011 UJ
	MW6D-ROX-011415	1/14/2015		31.26	NE	<0.0054	<0.0054	<0.011	0.000031 J J	0.000018 J	<0.0054		<0.00011	<0.0054	0.000015 J	0.000033 J	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.000033 J	<0.0054	0.000027 J	<0.011
	MW6D-ROX-011415-DUP	1/14/2015		31.26	NE	0.00027 J J	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.0022	<0.0022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011
	MW6D-ROX-040715	4/7/2015		32.74	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.0021	0.000026 J	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011	<0.011
	MW6D-ROX-071415	7/14/2015		31.19	NE	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	0.00011 JB J	0.00023 JB J	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011
	MW6D-ROX-100715	10/7/2015	104.72 - 109.72	29.45	NE	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.01	0.000081 J	0.00012 J J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01

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SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																				
						Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	Fluoranthene	Fluorene	Hexachlorobenzene	Indene	Indeno(1,2,3-cd)pyrene	Isophorone (3,5,5-trimethyl-2-cyclohexene-1-one)	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	3-Nitroaniline	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Pyridine
				Screening Values (mg/L)		0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]		0.014 [1]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]	0.007 [3]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-07	MW7-ROX-011513	1/15/2013	42.92 - 52.92	42.21	NE	<0.0053	<0.0053	<0.011	0.00004 J	0.00061	<0.0053		<0.00011	<0.0053	0.0187	0.0224	<0.011	<0.011	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011	0.00086	0.0865 J	0.000089 J	<0.011 UJ
	MW7-ROX-011513-DUP	1/15/2013		42.21	NE	<0.0052	<0.0052	<0.01	<0.0001	0.00057	<0.0052		<0.0001	<0.0052	0.0173	0.0207	<0.01	<0.01	<0.01	<0.0052	<0.0052 UJ	<0.0052	<0.01	0.00078	0.0735 J	0.000078 J	<0.01 UJ
	MW7-ROX-041013	4/10/2013		42.70	NE	<0.0054	<0.0054	<0.011	0.000039 J	0.00081	<0.0054		<0.00011	<0.0054	0.0271	0.0351	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0014	0.147	0.00015	<0.011
	MW7-ROX-041013-DUP	4/10/2013		42.70	NE	<0.0053	<0.0053	<0.011	0.000068 J	0.00087	<0.0053		<0.00011	<0.0053	0.0274	0.0357	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.0015	0.148	0.00016	<0.011
	MW7-ROX-071713	7/17/2013		39.60	NE	<0.0054	<0.0054	<0.011	<0.00011	0.00019	<0.0054		0.000078 J	<0.0054	0.0043	0.006	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00024	0.118	0.000039 J	<0.011
	MW7-ROX-101613	10/16/2013		40.64	NE	<0.0055	<0.0055	<0.011	<0.00011	0.00022	<0.0055		<0.00011	<0.0055	0.0082	0.011	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.00019	0.0849	<0.00011	<0.011
	MW7-ROX-013014	1/30/2014		42.94	NE	<0.0007 U	<0.005	<0.01	<0.0001	0.00021	<0.005		<0.0001	<0.005	0.0059	0.0083	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00029	0.0314	<0.0001	<0.01
	MW7-ROX-041614	4/16/2014		43.79	NE	<0.00071 U	<0.0052	<0.01	<0.0001	0.00026	<0.0052		<0.0001	<0.0052	0.0074	0.0103	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00033 B	0.0988	<0.0001	<0.01
	MW7-ROX-071614	7/16/2014		42.05	NE	<0.00027 U	<0.0052	<0.01	<0.0001	0.00021	<0.0052		<0.0001	<0.0052	0.0052	0.0079	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00028	0.0618	<0.0001	<0.01
	MW7-ROX-071614-DUP	7/16/2014		42.05	NE	<0.00038 U	<0.0052	<0.01	<0.0001	0.00019	<0.0052		<0.0001	<0.0052	0.0052	0.0077	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00026	0.0638	<0.0001	<0.01
	MW7-ROX-101614	10/16/2014		41.31	NE	<0.0056	<0.0056	<0.011	<0.00011	0.0002	<0.0056		<0.00011	<0.0056	0.0049	0.0074	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.00028	0.155	<0.00011	<0.011 UJ
	MW7-ROX-101614-DUP	10/16/2014		41.31	NE	<0.0057	<0.0057	<0.011	<0.00011	0.00019	<0.0057		<0.00011	<0.0057	0.0047	0.007	<0.011	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	0.00027	0.133	<0.00011	<0.011 UJ
	MW7-ROX-012215	1/22/2015		43.45	NE	0.00035 J	<0.0053	<0.011	<0.000063 U	0.00024	<0.0053		0.00003 J	<0.0053	0.0053	0.0068	<0.011	0.00059 J	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00049	0.145	<0.000099 U	<0.011
	MW7-ROX-012215-DUP	1/22/2015		43.45	NE	0.00027 J	<0.0052	<0.01	<0.000021 U	0.00022	<0.0052		<0.0001	<0.0052	0.0052	0.0066	<0.01	0.00056 J	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00045	0.136	<0.000058 U	<0.01
	MW7-ROX-042115	4/21/2015		44.63	NE	<0.0051	<0.0051	<0.01	<0.0001	0.00033	<0.0051		<0.0001	<0.0051	0.008	0.01	0.00037 J	0.0011 J	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.00066	0.0707	0.000057 J	<0.01
	MW7-ROX-042115-DUP	4/21/2015		44.63	NE	<0.0051	<0.0051	<0.01	0.000026 J	0.0003	<0.0051		<0.0001	<0.0051	0.0074	0.0093	0.00032 J	0.0011 J	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.00063	0.0766	0.000066 J	<0.01
	MW7-ROX-071515	7/15/2015		43.54	NE	0.00063 J	<0.0051	<0.01	0.000019 J	0.00021	<0.0051		<0.0001	<0.0051	0.0047	0.0065	<0.01	0.0031 J	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.00031	0.104	0.000052 J	<0.01
	MW7-ROX-071515-DUP	7/15/2015		43.54	NE	0.00057 J	<0.0052	<0.01	0.000023 J	0.00018	<0.0052		<0.0001	<0.0052	0.0055	0.0082	<0.01	0.0032 J	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00034	0.117	0.000053 J	<0.01
	MW7-ROX-101915	10/19/2015	42.92 - 52.92	41.43	NE	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	0.0018 J	<0.0002	<0.01	0.0029	0.0041	<0.01	0.0018 J	<0.01	<0.01	<0.01	<0.01	<0.02	0.00014 J	0.13	<0.0002	<0.01
	MW7-ROX-101915-DUP	10/19/2015		41.43	NE	<0.01	<0.01	<0.01	<0.0002	0.00011 J	<0.01	0.0018 J	<0.0002	<0.01	0.0026	0.0037	<0.01	0.0018 J	<0.01	<0.01	<0.01	<0.01	<0.02	0.00019 J	0.12	<0.0002	<0.01
MW-08	MW8-ROX-011513	1/15/2013	33.60 - 43.60	33.30	NE	<0.0056	<0.0056	<0.011	<0.00011	0.00041	<0.0056		<0.00011	<0.0056	0.011	0.0129	0.0332	0.102	<0.011	<0.0056	<0.0056 UJ	<0.0056	<0.011	0.00016	0.0997 J	<0.00011	<0.011 UJ
	MW8-ROX-041013	4/10/2013		33.77	NE	0.0013 J	<0.0053	<0.011	0.000056 J	0.00032	<0.0053		<0.00011	<0.0053	0.0091	0.0113	0.0388	0.084	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00019	0.253 J	0.000042 J	<0.011
	MW8-ROX-071713	7/17/2013		30.43	NE	<0.0052	<0.0052	<0.01	<0.0001	0.00033	<0.0052		<0.0001	<0.0052	0.0097 J	0.0113	0.0046 J	0.0106	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00015	0.328	0.000062 J	<0.01
	MW8-ROX-071713-DUP	7/17/2013		30.43	NE	<0.0054	<0.0054	<0.011	<0.00011	0.00036	<0.0054		<0.00011	<0.0054	0.0087 J	0.0098	0.0037 J	0.0091 J	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00016	0.303	<0.00011	<0.011
	MW8-ROX-101613	10/16/2013		31.59	NE	<0.0054	<0.0054	<0.011	<0.00011	0.00041	<0.0054		<0.00011	<0.0054	0.0117	0.0136	0.0022 J	0.0052 J	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00011	0.0996	<0.00011	<0.011
	MW8-ROX-101613-DUP	10/16/2013		31.59	NE	<0.0059	<0.0059	<0.012	<0.00012	0.00037	<0.0059		<0.00012	<0.0059	0.0108	0.0128	0.0019 J	0.0046 J	<0.012	<0.0059	<0.0059	<0.0059	<0.012	0.000097	0.108	<0.00012	<0.012
	MW8-ROX-013014	1/30/2014		34.02	NE	<0.0011 U	<0.0051	<0.01	<0.0001	0.00054	<0.0051		<0.0001	<0.0051	0.0137	0.0123	0.0128	0.0198	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.00018	0.105	<0.0001	<0.01
	MW8-ROX-013014-DUP	1/30/2014		34.02	NE	<0.00092 U	<0.0054	<0.011	<0.00011	0.00052	<0.0054		<0.00011	<0.0054	0.0136	0.0123	0.0129	0.019	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00019	0.135	<0.00011	<0.011
	MW8-ROX-041614	4/16/2014		34.73	NE	<0.00073 U	<0.0056	<0.011	<0.00011	0.00046	<0.0056		<0.00011	<0.0056	0.0142	0.0097	<0.011	0.0062 J	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.00015 B J	0.135	<0.00011	<0.011
	MW8-ROX-041614-DUP	4/16/2014		34.73	NE	<0.0006 U	<0.0051	<0.01	<0.0001	0.00043	<0.0051		<0.0001	<0.0051	0.0129	0.0086	<0.01	0.0053 J	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.00016 B J	0.118	<0.0001	<0.01
	MW8-ROX-071614	7/16/2014		33.01	NE	<0.00045 U	<0.0052	<0.01	<0.0001	0.00038	<0.0052		<0.0001	<0.0052	0.0125	0.0048	0.0037 J	0.0045 J	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.0002 B	0.111	<0.0001	<0.01
	MW8-ROX-101614	10/16/2014		32.23	NE	<0.0056	<0.0056	<0.011	<0.00011	0.00054	<0.0056		<0.00011	<0.0056	0.0145	0.0045	0.019	0.0558	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.00023	0.126	<0.00011	<0.011 UJ
	MW8-ROX-012215	1/22/2015		34.22	NE	0.00027 J	<0.0052	<0.01	<0.0001	0.00037	<0.0052		<0.0001	<0.0052	0.011	0.0046	0.0102	0.0242	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00016 B	0.146	<0.0001	<0.01
	MW8-ROX-042115	4/21/2015		35.41	NE	<0.0053	<0.0053	<0.011	<0.00011	0.00041	<0.0053		<0.00011	<0.0053	0.0126	0.0053	0.0049 J	0.0063 J	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00014	0.129	<0.00011	<0.011
	MW8-ROX-071515	7/15/2015		34.07	NE	<0.0053	<0.0053	<0.011	<0.00011	0.0003	<0.0053		<0.00011	<0.0053	0.0113	0.0083	0.0018 J	0.0046 J	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00016	0.135	<0.00011	<0.011
	MW8-ROX-101915	10/19/2015	33.60 - 43.60	32.30	NE	<0.01	<0.01	<0.01	<0.0002	0.00018 J	<0.01	0.0015 J	<0.0002	<0.01	0.0087	0.0052	0.0024 J	0.0054 J	<0.01	<0.01	<0.01	<0.01	<0.02	<0.0002	0.21	<0.0002	<0.01
MW-09	MW9-ROX-011113	1/11/2013	46.45 - 56.45	43.90	NE	<0.0054	<0.0054	<0.011	0.000066 J	0.00011	<0.0054		<0.00011	<0.0054	<0.00022	0.00014 J	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00012	<0.0054	0.000057 J	<0.011 UJ
	MW9-ROX-040913	4/9/2013		44.67	NE	<0.0018 UJ	<0.0052 UJ	<0.01 UJ	<0.0001 UJ	<0.0001 UJ	<0.0052 UJ		<0.0001 UJ	<0.0052 UJ	<0.00021 UJ	<0.00021 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.0052 UJ	<0.0052 UJ	<0.0052 UJ	<0.01 UJ	<0.000052 UJ	<0.0052 UJ	<0.0001 UJ	<0.01 UJ
	MW9-ROX-070813	7/8/2013		42.35	NE	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022			<0.011	<0.0056	<0.0056	<0.0056		<0.000028 U		<0.00011	<0.011
	MW9-ROX-100313	10/3/2013		42.27	NE	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001	<0.01
	MW9-ROX-011414	1/14/2014		44.47	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011 UJ	<0.011 UJ	<0.011	<0.0053	<0.0053	<0.0053	<0.011 UJ	<0.000053	<0.0053 UJ	<0.00011	<0.011
	MW9-ROX-040714	4/7/2014		44.99	NE	<0.00062 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	0.0001 J	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056 U	<0.0056	<0.00011	<0.011 UJ
	MW9-ROX-070914	7/9/2014		44.35	NE	<0.0006 U	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	MW9-ROX-100714	10/7/2014		43.52	NE	<0.0059	<0.0059	<0.012	<0.00012	<0.00012	<0.0059		<0.00012	<0.0059	<0.0024	<0.0024	<0.012	<0.012	<0.012	<0.0059	<0.0059	<0.0059	<0.012	<0.000059	<0.0059	<0.00012	<0.012
	MW9-ROX-011315	1/13/2015		44.21	NE	0.00023 J	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.0021	<0.0021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.000016 JB	<0.0052	<0.0001	<0.01 UJ
	MW9-ROX-040915	4/9/2015		45.38	NE	<0.0052	<0.0052	<0.01	<0.0001	0.000027 J	<0.0052		<0.0001	<0.0052	<0.0021	0.000018 JB J	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.000026 J	<0.0052	<0.0001	<0.01
	MW9-ROX-070915	7/9/2015		44.81	NE	0.00042 J	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	0.000073 J	0.00013 J	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.000044 J	<0.0055	<0.00011	<0.011
	MW9-ROX-100815	10/8/2015	46.45 - 56.45	42.64	NE	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.01	0.000034 J	0.000053 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																				
						Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	Fluoranthene	Fluorene	Hexachlorobenzene	Indene	Indeno(1,2,3-cd)pyrene	Isophorone (3,5,5-trimethyl-2-cyclohexene-1-one)	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	3-Nitroaniline	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Pyridine
				Screening Values (mg/L)		0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]		0.014 [1]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]	0.007 [3]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-10	MW10-ROX-011013	1/10/2013	44.43 - 54.43	44.10	NE	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.000021 U	<0.005	<0.0001	<0.01 UJ
	MW10-ROX-012113	1/21/2013		44.10	NE	<0.01	<0.01	<0.001	<0.0001	<0.0001	<0.002		<0.0001	<0.01		<0.01	<0.01	<0.01	<0.002	<0.004	<0.02	<0.003	<0.004	<0.0001	<0.005	<0.0001	<0.01 UJ
	MW10-ROX-040913	4/9/2013		44.60	NE	<0.0019 U	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	MW10-ROX-070813	7/8/2013		42.27	NE	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000021 U	<0.0056	<0.00011	<0.011
	MW10-ROX-100313	10/3/2013		42.38	NE	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011
	MW10-ROX-011514	1/15/2014		44.42	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		0.000072 J	<0.0053	<0.00021	<0.00021	<0.011 UJ	<0.011 UJ	<0.011	<0.0053	<0.0053	<0.0053	<0.011 UJ	0.000037 JB	<0.0054 UJ	<0.00011	<0.011
	MW10-ROX-040714	4/7/2014		45.00	NE	<0.00085 U	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000042 U	<0.0053	<0.00011	<0.011 UJ
	MW10-ROX-070914	7/9/2014		44.35	NE	<0.00065 U	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	MW10-ROX-100714	10/7/2014		43.58	NE	<0.0057	<0.0057	<0.011	<0.00011	<0.00011	<0.0057		<0.00011	<0.0057	<0.0023	<0.0023	<0.011	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	<0.000057	<0.0057	<0.00011	<0.011
	MW10-ROX-011315	1/13/2015		44.27	NE	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.0022	<0.000018 U	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011 UJ
	MW10-ROX-040815	4/8/2015		45.30	NE	<0.0051	<0.0051	<0.01	0.000016 J	<0.0001	<0.0051		<0.0001	<0.0051	<0.002	0.00002 JB	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.000019 J	<0.0051	<0.0001	<0.01
	MW10-ROX-070915	7/9/2015		44.93	NE	0.00064 J	<0.0054	<0.011	0.000057 J	0.000037 J	<0.0054		0.000024 J	<0.0054	0.000035 J	0.000058 J	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.000077	<0.0054	0.000059 J	<0.011
	MW10-ROX-100915	10/9/2015	44.43 - 54.43	42.79	NE	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.01	0.000039 J	0.000063 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
MW-11	MW11-ROX-011013	1/10/2013	41.66 - 51.66	41.43	NE	<0.005 UJ	<0.005 UJ	<0.01 UJ	<0.0001 UJ	<0.0001 UJ	<0.005 UJ		<0.0001 UJ	<0.005 UJ	<0.0002 UJ	<0.0002 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.01 UJ	<0.000015 UJ	<0.005 UJ	<0.0001 UJ	<0.01 UJ
	MW11-ROX-040813	4/8/2013		42.02	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011	<0.011 UJ
	MW11-ROX-070813	7/8/2013		39.24	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	MW11-ROX-100713	10/7/2013		39.95	NE	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011	<0.011
	MW11-ROX-011514	1/15/2014		42.16	NE	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000026 U	<0.0055	<0.00011	<0.011
	MW11-ROX-040714	4/7/2014		42.70	NE	<0.0007 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000023 U	<0.0056	<0.00011	<0.011 UJ
	MW11-ROX-070914	7/9/2014		41.75	NE	<0.00042 U	<0.0057	<0.011	<0.00011	<0.00011	<0.0057		<0.00011	<0.0057	<0.00023	<0.00023	<0.011	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	0.00003 J	<0.0057	<0.00011	<0.011
	MW11-ROX-100714	10/7/2014		40.89	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.0021	<0.0021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001	<0.01
	MW11-ROX-011315	1/13/2015		41.93	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.0022	<0.00002 U	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011 UJ
	MW11-ROX-040815	4/8/2015		43.19	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.0022	0.000022 JB	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	MW11-ROX-070915	7/9/2015		42.45	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.000029 J	0.000045 J	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.000029 J	<0.0054	<0.00011	<0.011
	MW11-ROX-100815	10/8/2015	41.66 - 51.66	40.15	NE	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.01	0.000029 J	0.000034 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
MW-12	MW12-ROX-011013	1/10/2013	41.92 - 51.92	41.83	NE	<0.0051	<0.0051	<0.01	0.000045 J	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000032 U	<0.0051	<0.0001	<0.01 UJ
	MW12-ROX-040813	4/8/2013		42.46	NE	<0.0052	<0.0052	<0.01	0.000044 J	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001	<0.01 UJ
	MW12-ROX-070913	7/9/2013		39.28	NE	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011 UJ	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011	<0.011
	MW12-ROX-100713	10/7/2013		40.22	NE	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011 UJ	<0.011 UJ	<0.011	<0.0055	<0.0055	<0.0055	0.0018 J J	<0.000055	<0.0053 UJ	<0.00011	<0.011
	MW12-ROX-011514	1/15/2014		42.54	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01 UJ	<0.01 UJ	<0.01	<0.0052	<0.0052	<0.0052	<0.01 UJ	<0.000022 U	<0.0052 UJ	<0.0001	<0.01
	MW12-ROX-040814	4/8/2014		43.15	NE	<0.0006 U	<0.0051	<0.01	<0.00011	<0.00011	<0.0051		<0.00011	<0.0051	<0.00023	<0.00023	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.000021 J	<0.0051	<0.00011	<0.01 UJ
	MW12-ROX-070914	7/9/2014		41.97	NE	<0.00098 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011
	MW12-ROX-100614	10/6/2014		40.98	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.0021	<0.0021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053 UJ	<0.00011	<0.011
	MW12-ROX-011215	1/12/2015		42.33	NE	0.00023 J	<0.0056	<0.011	0.00002 J	<0.00011	<0.0056		<0.00011	<0.0056	<0.0022	<0.0022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.000018 J	<0.0056	<0.00011	<0.011 UJ
	MW12-ROX-040615	4/6/2015		43.75	NE	<0.0053	<0.0053	<0.011	0.000019 J	<0.00011	<0.0053		<0.00011	<0.0053	0.000018 J	0.000031 J	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.00002 U	<0.0053	0.000016 J	<0.011
	MW12-ROX-070815	7/8/2015		42.86	NE	<0.0056	<0.0056	<0.011	0.00012	0.00003 J	<0.0056		0.000059 J	<0.0056	0.000035 J	0.000079 J	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.000067 J	<0.0056	0.000081 J	<0.011
	MW12-ROX-100815	10/8/2015	41.92 - 51.92	40.54	NE	<0.01	<0.01	<0.01	0.000039 J	<0.0002	<0.01	<0.01	<0.0002	<0.01	0.00006 J	0.000081 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	0.000021 J	<0.01
	MW12-ROX-100815-DUP	10/8/2015		40.54	NE	<0.01	<0.01	<0.01	0.000039 J	<0.0002	<0.01	<0.01	<0.0002	<0.01	0.000036 J	0.000055 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	0.000021 J	<0.01
MW-13	MW13-ROX-012313	1/23/2013	25.57 - 35.57	29.26	NE	0.0027 J	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	0.00011 J	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011	<0.011 UJ
	MW13-ROX-041213	4/12/2013		29.44	NE	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	0.00011 J	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001	<0.01
	MW13-ROX-071213	7/12/2013		25.67	NE	<0.0054	<0.0054	<0.011	<0.000042	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.000067 U	<0.011	<0.011	<0.011	<0.0054	<0.0054 UJ	<0.0054	<0.011	<0.000076	<0.0054 UJ	<0.00004	<0.011 UJ
	MW13-ROX-100913	10/9/2013		26.94	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001	<0.01
	MW13-ROX-012914	1/29/2014		29.63	NE	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.000096 U	<0.00022	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011	<0.011
	MW13-ROX-041114	4/11/2014		30.15	NE	<0.00079 U	<0.006	<0.012	<0.00012	<0.00012	<0.006		<0.00012	<0.006	<0.00024	<0.00024	<0.012	<0.012	<0.012	<0.006	<0.006	<0.006	<0.012	0.000033 J	<0.006	<0.00012	<0.012
	MW13-ROX-070714	7/7/2014		28.49	NE	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011	<0.011
	MW13-ROX-101014	10/10/2014		27.48	NE	<0.006	<0.006	<0.012	<0.00012	<0.00012	<0.006		<0.00012	<0.006	<0.0024	<0.0024	<0.012	<0.012	<0.012	<0.006	<0.006	<0.006	<0.012	0.000032 J	<0.006	<0.00012	<0.012
	MW13-ROX-011615	1/16/2015		29.09	NE	<0.00034 U	<0.0053	<0.011	0.000022 J	0.000035 J	<0.0053		<0.00011	<0.0053	0.00004 J	0.00008 J	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000025 J	<0.0053	0.000046 J	<0.011
	MW13-ROX-041415	4/14/2015		30.71	NE	<0.0056	<0.0056	<0.011	0.000025 J	0.000066 J	<0.0056		<0.00011	<0.0056	0.000029 J	0.000055 J	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.00007	<0.0056	0.000023 J	<0.011
	MW13-ROX-070815	7/8/2015		29.16	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.000031 J	0.000047 J	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	0.00032 J	0.000016 J	<0.011
	MW13-ROX-100515	10/5/2015	25.57 - 35.57	27.34	NE	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.01	0.00085	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																				
						Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	Fluoranthene	Fluorene	Hexachlorobenzene	Indene	Indeno(1,2,3-cd)pyrene	Isophorone (3,5,5-trimethyl-2-cyclohexene-1-one)	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3,& 4-Methylphenol (m & p-Cresol)	3-Nitroaniline	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Pyridine
				Screening Values (mg/L)		0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]		0.014 [1]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]	0.007 [3]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-14	MW14-ROX-011813	1/18/2013	33.42 - 43.42	33.05	NE	<0.005	<0.005	<0.01	<0.0001	0.00064	<0.005		<0.0001	<0.005	0.0215	0.0084	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001	<0.01 UJ
	MW14-ROX-041113	4/11/2013		33.31	NE	<0.0054	<0.0054	<0.011	0.000068 J	0.00016	<0.0054		<0.00011	<0.0054	0.0124	0.0018	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0001	<0.0054	0.000053 J	<0.011
	MW14-ROX-071213	7/12/2013		30.36	NE	0.00043 J	<0.0053	<0.011	<0.00011	<0.000093 U	<0.0053		<0.00011	<0.0053	0.0127	0.0027	<0.011	<0.011	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011	<0.000032 U	<0.0053 UJ	<0.000067 U	<0.011 UJ
	MW14-ROX-101013	10/10/2013		30.80	NE	<0.0057	<0.0057	<0.011	<0.00011	0.00034	<0.0057		<0.00011	<0.0057	0.0184	<0.00023	<0.011	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	<0.000057	<0.0057	<0.00011	<0.011
	MW14-ROX-012914	1/29/2014		33.67	NE	0.00045 J	<0.0054	<0.011	<0.00011	0.00041	<0.0054		<0.00011	<0.0054	0.0075	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	MW14-ROX-041114	4/11/2014		34.30	NE	<0.00082 U	<0.006	<0.012	<0.00011	0.0003	<0.006		<0.00011	<0.006	0.0018	<0.00023	<0.012	<0.012	<0.012	<0.006	<0.006	<0.006	<0.012	<0.000057	<0.006	<0.00011	<0.012
	MW14-ROX-070714	7/7/2014		32.82	NE	0.00031 J	<0.0054	<0.011	<0.00011	0.00024	<0.0054		<0.00011	<0.0054	0.0014	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00024 J	<0.0054	<0.00011	<0.011
	MW14-ROX-101414	10/14/2014		31.65	NE	<0.00056 U	<0.0056	<0.011	<0.00011	0.00024	<0.0056		<0.00011	<0.0056	0.0014 J	<0.0022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000021 U	<0.0056	<0.00011	<0.011
	MW14-ROX-011615	1/16/2015		33.58	NE	<0.0053	<0.0053	<0.011	<0.00011	0.00013	<0.0053		<0.00011	<0.0053	0.00012 J	0.000026 J	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000021 J	<0.0053	<0.00011	<0.011
	MW14-ROX-041415	4/14/2015		35.16	NE	<0.0052	<0.0052	<0.01	<0.00011	0.00017	<0.0052		<0.00011	<0.0052	0.00007 J	0.000018 J	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000054	<0.0052	<0.00011	<0.01
	MW14-ROX-070915	7/9/2015		34.06	NE	0.00044 J	<0.0052	<0.01	0.000016 J	0.00017	<0.0052		<0.0001	<0.0052	0.00019 J	0.00012 J	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.000062	<0.0052	0.000017 J	<0.01
	MW14-ROX-101315	10/13/2015	33.42 - 43.42	31.88	NE	<0.01	<0.01	<0.01	<0.0002	0.00013 J	<0.01	<0.01	<0.0002	<0.01	<0.0002	<0.0002	<0.01	<0.02	<0.01 UJ	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01 UJ
MW-16	MW16-ROX-012313	1/23/2013	37.06 - 47.06	43.05	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	0.000085 J	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000025 J J	<0.0053	<0.00011	<0.011 UJ
	MW16-ROX-040813	4/8/2013		43.39	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	0.000058 J	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001	<0.01 UJ
	MW16-ROX-070813	7/8/2013		40.62	NE	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000018 U	<0.0056	<0.00011	<0.011
	MW16-ROX-100813	10/8/2013		41.62	NE	<0.0052 UJ	<0.0052 UJ	<0.01 UJ	<0.0001 UJ	<0.0001 UJ	<0.0052 UJ		<0.0001 UJ	<0.0052 UJ	<0.00021 UJ	<0.00021 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.0052 UJ	<0.0052 UJ	<0.0052 UJ	<0.01 UJ	<0.000052 UJ	<0.0052 UJ	<0.0001 UJ	<0.01 UJ
	MW16-ROX-011514	1/15/2014		43.76	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000031 U	<0.0052	<0.0001	<0.01
	MW16-ROX-040914	4/9/2014		44.63	NE	<0.00067 U	<0.0059	<0.012	<0.00012	<0.00012	<0.0059		<0.00012	<0.0059	<0.00024	<0.00024	<0.012	<0.012	<0.012	<0.0059	<0.0059	<0.0059	<0.012	<0.000059	<0.0059	<0.00012	<0.012
	MW16-ROX-071014	7/10/2014		43.15	NE	<0.00021 U	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	MW16-ROX-100714	10/7/2014		42.27	NE	<0.006	<0.006	<0.012	<0.00012	<0.00012	<0.006		<0.00012	<0.006	<0.0024	<0.0024	<0.012	<0.012	<0.012	<0.006	<0.006	<0.006	<0.012	<0.00006	<0.006	<0.00012	<0.012
	MW16-ROX-011315	1/13/2015		43.59	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.000016 U	<0.000022 U	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011	<0.011 UJ
	MW16-ROX-040915	4/9/2015		44.87	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.000026 JB J	0.000039 JB J	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011	<0.011
	MW16-ROX-070915	7/9/2015		44.26	NE	0.00043 J	<0.0055	<0.011	<0.00011	0.000037 J	<0.0055		<0.00011	<0.0055	0.000067 J	0.00012 J	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.000043 J	<0.0055	<0.00011	<0.011
	MW16-ROX-070915-DUP	7/9/2015		44.26	NE	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	0.000047 J	0.000074 J	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.000023 J	<0.0056	<0.00011	<0.011
	MW16-ROX-100715	10/7/2015	37.06 - 47.06	41.83	NE	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.01	0.000045 J	0.000073 J J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
MW-22	MW22-ROX-012313	1/23/2013	37.88 - 47.88	41.80	NE	0.0024 J	<0.0052	<0.01	<0.0001	0.00018	<0.0052		<0.0001	<0.0052	0.0276	0.05	0.018	0.0322	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00019	0.0111	<0.0001	<0.01 UJ
	MW22-ROX-012313-DUP	1/23/2013		41.80	NE	0.0024 J	<0.0053	<0.011	<0.00011	0.00018	<0.0053		<0.00011	<0.0053	0.028	0.0501	0.0187	0.0349	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.0002	0.0122	<0.00011	<0.011 UJ
	MW22-ROX-040513	4/5/2013		42.23	NE	0.00057 J	<0.0053	<0.011	<0.00011	0.00018	<0.0053		<0.00011	<0.0053	0.0241	0.0413	0.0236	0.0403	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011	0.00019	0.0123 J	<0.00011	<0.011 UJ
	MW22-ROX-071113	7/11/2013		39.35	NE	<0.0054	<0.0054	<0.011	<0.00011	0.00027	<0.0054		<0.00011	<0.0054	0.0232 J	0.0393	0.0159	0.029	<0.011 UJ	<0.0054	<0.0054	<0.0054	<0.011	0.0002 B	0.0094 J	<0.00011	<0.011 UJ
	MW22-ROX-071113-DUP	7/11/2013		39.35	NE	0.00052 J	<0.0056	<0.011	<0.00011	0.00017	<0.0056		<0.00011	<0.0056	0.0216 J	0.037	0.0147	0.0269	<0.011 UJ	<0.0056	<0.0056	<0.0056	<0.011	0.0002 B	0.0088 J	<0.00011	<0.011 UJ
	MW22-ROX-100913	10/9/2013		40.39	NE	<0.0054	<0.0054	<0.011	<0.00011	0.00019	<0.0054		<0.00011	<0.0054	0.0276	0.0468	0.0152	0.0319	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00019	<0.0054	<0.00011	<0.011
	MW22-ROX-100913-DUP	10/9/2013		40.39	NE	<0.0054	<0.0054	<0.011	<0.00011	0.0002	<0.0054		<0.00011	<0.0054	0.0265	0.0451	0.0139	0.0296	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00016	<0.0054	<0.00011	<0.011
	MW22-ROX-012014	1/20/2014		42.49	NE	<0.027	<0.027	<0.053	<0.00011	0.00017	<0.027		<0.00011	<0.027	0.0258	0.0459	0.0124 J	0.0313 J	<0.053	<0.027	<0.027	<0.027	<0.053	0.0002 B	0.0071 J	<0.00011	<0.053 UJ
	MW22-ROX-012014-DUP	1/20/2014		42.49	NE	<0.027	<0.027	<0.054	<0.00011	0.00015	<0.027		<0.00011	<0.027	0.0232	0.0416	0.0118 J	0.0296 J	<0.054	<0.027	<0.027	<0.027	<0.054	0.0002 B	0.007 J	<0.00011	<0.054 UJ
	MW22-ROX-041014	4/10/2014		43.15	NE	<0.0016 U	<0.028	<0.056	<0.00011	<0.00011	<0.028		<0.00011	<0.028	0.0174	0.0287	0.0156 J	0.035 J	<0.056	<0.028	<0.028	<0.028	<0.056	0.0001	<0.028	<0.00011	<0.056
	MW22-ROX-041014-DUP	4/10/2014		43.15	NE	<0.0018 U	<0.028	<0.056	<0.00011	0.00012	<0.028		<0.00011	<0.028	0.0199	0.0322	0.0159 J	0.038 J	<0.056	<0.028	<0.028	<0.028	<0.056	0.0001	<0.028	<0.00011	<0.056
	MW22-ROX-071414	7/14/2014		41.85	NE	<0.00057 U	<0.0054	<0.011	<0.00011	0.00015	<0.0054		<0.00011	<0.0054	0.0198	0.0355	0.0102 J	0.0204	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.00018 U	<0.0054	<0.00011	<0.011
	MW22-ROX-101014	10/10/2014		41.43	NE	<0.0063	<0.0063	<0.013	<0.00013	0.00014	<0.0063		<0.00013	<0.0063	0.0193	0.0339	0.0064 J	0.011 J	<0.013	<0.0063	<0.0063	<0.0063	<0.013	0.00036	0.0079	<0.00013	<0.013
	MW22-ROX-011615	1/16/2015		42.19	NE	<0.0053	<0.0053	<0.011	<0.00011	0.00051	<0.0053		<0.00011	<0.0053	0.0153	0.0184	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000064	0.0119	<0.00011	<0.011
	MW22-ROX-041415	4/14/2015		43.71	NE	<0.0052	<0.0052	<0.01	0.000016 J	0.00021	<0.0052	0.047 JN	<0.0001	<0.0052	0.024	0.0397	<0.01	0.0201	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00013	0.0108	0.00002 J	<0.01
	MW22-ROX-071515	7/15/2015		42.64	NE	<0.029	<0.029	<0.057	<0.00011	0.00011	<0.029	0.033 JN	<0.00011	<0.029	0.0216	0.0374	0.0075 J	<0.057	<0.057	<0.029	<0.029	<0.029	<0.057	0.000099	<0.029	<0.00011	<0.057
	MW22-ROX-101415	10/14/2015	37.88 - 47.88	40.54	NE	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	0.021	<0.0002	<0.01	0.015	0.026	0.0055 J	0.0097 J	<0.01 UJ	<0.01	<0.01	<0.01	<0.02	<0.0002	0.0082 J	<0.0002	0.0038 J * J
MW-23	MW23-ROX-012615	1/26/2015	29.02 - 39.02	30.90	NE	<0.005	<0.005	<0.005	<0.001	0.00096 J	<0.005 UJ		<0.0002	<0.005	0.0019	0.00056 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.025	0.0037	<0.005	<0.001	<0.01
	MW23-ROX-040815	4/8/2015		32.24	NE	<0.0051	<0.0051	<0.01	0.000029 J	0.000053 J	<0.0051		<0.0001	<0.0051	0.000036 JB J	0.000028 JB J	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.00057	<0.0051	0.00015	<0.01
	MW23-ROX-071015-BP	7/10/2015		30.54	NE	<0.0056	<0.0056	<0.011	0.00002 J	0.000025 J	<0.0056		<0.00011	<0.0056	0.000045 JB J	0.000079 JB J	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.000052 J	<0.0056	0.000068 J	<0.011
	MW23-ROX-100515	10/5/2015	29.02 - 39.02	28.89	NE	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.01	0.000072 J	0.00011 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																				
						Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	Fluoranthene	Fluorene	Hexachlorobenzene	Indene	Indeno(1,2,3-cd)pyrene	Isophorone (3,5,5-trimethyl-2-cyclohexene-1-one)	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	3-Nitroaniline	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Pyridine
				Screening Values (mg/L)		0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]		0.014 [1]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]	0.007 [3]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-24	MW24-ROX-040513	4/5/2013	38.89 - 48.89	43.39	NE	0.00049 J	<0.0052	<0.01	0.000088 J	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	0.00015 J	<0.01	<0.01	<0.01	<0.0052	<0.0052 UJ	<0.0052	<0.01	<0.000052	<0.0052 UJ	0.000066 J	<0.01 UJ
	MW24-ROX-071113	7/11/2013		40.35	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022 UJ	0.000062 J	<0.011 UJ	<0.011 UJ	<0.011 UJ	<0.0054	<0.0054	<0.0054	<0.011 UJ	<0.000038 U	<0.0053 UJ	<0.00011	<0.011 UJ
	MW24-ROX-100913	10/9/2013		41.27	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011	<0.011
	MW24-ROX-011514	1/15/2014		43.47	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011	<0.011
	MW24-ROX-040914	4/9/2014		44.13	NE	<0.00092 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011
	MW24-ROX-071114	7/10/2014		42.97	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011	<0.011 UJ
	MW24-ROX-100814	10/8/2014		42.16	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.0022	<0.0022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011 UJ
	MW24-ROX-011315	1/13/2015		43.17	NE	0.00023 J	<0.0053	<0.011	<0.00011	0.000059 J	<0.0053		<0.00011	<0.0053	0.00009 JB	<0.000099 U	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000037 J	<0.0053	<0.00011	<0.011 UJ
	MW24-ROX-040915	4/9/2015		44.45	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.00002 JB J	0.000035 JB J	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011	<0.011
	MW24-ROX-070915	7/9/2015		44.65	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	0.000049 J	0.000081 J	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.000041 J	<0.0052	<0.0001	<0.01
	MW24-ROX-100715	10/7/2015	38.89 - 48.89	41.45	NE	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.01	0.000057 J	0.000087 J J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
MW-25	MW25-ROX-102114	10/21/2014	35.59 - 45.59	36.44	NE	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	0.00093 J	0.00057 J	0.0011 J	0.0028 J	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.000033 J	0.173	<0.00011	<0.011
	MW25-ROX-012215	1/22/2015		38.45	NE	0.00028 J	<0.0052	<0.01	<0.000018 U	<0.0001	<0.0052		<0.0001	<0.0052	0.00036 J	0.00015 J	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	0.107	<0.000019 U	<0.01
	MW25-ROX-042115	4/21/2015		39.71	NE	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	0.00067 J	0.00035 J	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	0.0592	<0.0001	<0.01
	MW25-ROX-071515	7/15/2015		38.40	NE	<0.0052	<0.0052	<0.01	<0.0001	0.000019 J	<0.0052		<0.0001	<0.0052	0.00088 J	0.00049 J	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.000017 J	0.112	<0.0001	<0.01
	MW25-ROX-101915	10/19/2015	35.59 - 45.59	36.55	NE	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.01	0.00026	0.00014 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.0002	0.071	<0.0002	<0.01
MW-26	MW26-ROX-102114	10/21/2014	38.15 - 48.15	39.43	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.0021	<0.0021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011	<0.011
	MW26-ROX-011215	1/12/2015		41.09	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.0021	<0.000017 U	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.000015 J	<0.0052	<0.0001	<0.01 UJ
	MW26-ROX-040815	4/8/2015		42.52	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.0021	<0.0021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001	<0.01
	MW26-ROX-070815	7/8/2015		41.76	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.000046 J	0.000065 J	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00003 J	<0.0053	<0.00011	<0.011
	MW26-ROX-100615	10/6/2015	38.15 - 48.15	39.19	NE	<0.01	0.00055 J	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.01	0.000083 J	0.00013 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
MW-27	MW27-ROX-102114	10/21/2014	39.79 - 49.79	41.57	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.0021	<0.0021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011	<0.011
	MW27-ROX-011515	1/15/2015		42.06	NE	0.00026 J J	<0.0053 UJ	<0.011	<0.00011	0.000023 J J	<0.0053		0.000047 J J	<0.0053	<0.0021	<0.0021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000028 J J	<0.0053	0.000019 J J	<0.011
	MW27-ROX-041015	4/10/2015		43.22	NE	<0.0054	<0.0054	<0.011	0.000024 J J	<0.00011	<0.0054		<0.00011	<0.0054	0.000036 J	0.00007 J	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.000019 JB J	<0.0054	0.000018 J	<0.011
	MW27-ROX-071015	7/10/2015		43.00	NE	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	0.00005 JB J	0.000086 JB J	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011
	MW27-ROX-100815	10/8/2015	39.79 - 49.79	40.32	NE	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.01	0.000035 J	0.000051 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
MW-28	MW28-ROX-102114	10/21/2014	33.61 - 43.61	36.44	NE	0.00026 J	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.00075 J	<0.0021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000017 J	<0.0053	<0.00011	<0.011
	MW28-ROX-011515	1/15/2015		41.14	NE	0.00033 J J	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	0.00047 J	<0.0022	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011	<0.011
	MW28-ROX-041415	4/14/2015		42.34	NE	<0.0057	<0.0057	<0.011	<0.00011	<0.00011	<0.0057		0.000035 J	<0.0057	0.00024 J	0.000037 J	<0.011	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	<0.000057	<0.0057	<0.00011	<0.011
	MW28-ROX-071515	7/15/2015		42.19	NE	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	0.00021 J J	0.0001 JB J	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.00002 J	<0.0056	<0.00011	<0.011
	MW28-ROX-101215	10/12/2015	33.61 - 43.61	40.04	NE	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.01	0.000069 J	0.00007 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
	MW28-ROX-101215-DUP	10/12/2015		40.04	NE	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.01	0.000033 J	0.000028 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
P-54	P54-ROX-011113	1/11/2013	38.00 - 63.00	41.56	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000032 J	<0.0053	<0.00011	<0.011 UJ
	P54-ROX-041013	4/10/2013		41.80	NE	<0.0057	<0.0057	<0.011	<0.00011	<0.00011	<0.0057		<0.00011	<0.0057	<0.00023	<0.00023	<0.011	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	<0.000057	<0.0057	<0.00011	<0.011
	P54-ROX-050313	5/3/2013		41.80	NE	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011
	P54-ROX-071113	7/11/2013		39.07	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021 UJ	0.000083 J	<0.01	<0.01	<0.01 UJ	<0.0052	<0.0052	<0.0052	<0.01	<0.000049 U	<0.0052 UJ	<0.0001	<0.01 UJ
	P54-ROX-100813	10/8/2013		39.94	NE	<0.0057	<0.0057	<0.011	<0.00011	<0.00011	<0.0057		<0.00011	<0.0057	<0.00023	<0.00023	<0.011	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	<0.000057	<0.0057	<0.00011	<0.011 UJ
	P54-ROX-011514	1/15/2014		42.20	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	P54-ROX-040914	4/9/2014		42.80	NE	<0.00062 U	<0.006	<0.012	<0.00012	<0.00012	<0.006		<0.00012	<0.006	<0.00024	<0.00024	<0.012	<0.012	<0.012	<0.006	<0.006	<0.006	<0.012	<0.00006	<0.006	<0.00012	<0.012
	P54-ROX-071114	7/10/2014		41.71	NE	<0.00028 U	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.00011 J	0.00013 J	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000051 U	<0.0054	<0.00011	<0.011 UJ
	P54-ROX-100814	10/8/2014		40.88	NE	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.0022	<0.0022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011 UJ
	P54-ROX-011415	1/14/2015		41.79	NE	<0.0056	<0.0056	<0.011	0.000021 J J	<0.00011	<0.0056		<0.00011	<0.0056	<0.0022	<0.0022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.00002 J	<0.0056	0.00003 J	<0.011
	P54-ROX-041015	4/10/2015		43.20	NE	<0.0053	<0.0053	<0.011	0.00002 J J	<0.00011	<0.0053		<0.00011	<0.0053	0.000024 J	0.000046 J	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000025 JB J	<0.0053	0.000018 J	<0.011
	P54-ROX-070915	7/9/2015		42.25	NE	<0.0052	<0.0052	<0.01	<0.0001	0.000019 J	<0.0052		<0.0001	<0.0052	0.000089 J	0.00015 J	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.000041 J	<0.0052	<0.0001	<0.01
	P54-ROX-100915	10/9/2015	38.00 - 63.00	40.20	NE	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.01	0.000037 J	0.000063 J	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
P-55	P55-ROX-012113	1/21/2013	39.82 - 64.82	45.24	NE	<0.01	<0.01	<0.001	<0.0001	0.00133	<0.002		<0.0001	<0.01		0.042	<0.01	<0.01	<0.002	<0.004	<0.02	<0.003	<0.004	0.00211	0.004 J	<0.0001	<0.01 UJ
	P55-ROX-012113	1/21/2013		45.24	NE	0.00069 J	<0.0051	<0.01	<0.0001	0.00093	<0.0051		<0.0001	<0.0051	0.0176	0.0254	<0.01	0.0018 J	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.0017	0.0034 J	<0.0001	<0.01
P-55R	P55-ROX-041513	4/15/2013	40.43 - 50.43	43.63	NE	<0.0052	<0.0052	<0.01	<0.0001	0.0013	<0.0052		<0.0001	<0.0052	0.0268	0.0389	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.0021	<0.0052	<0.0001	<0.01 UJ
	P55-ROX-071613	7/16/2013		40.06	NE	<0.0056	<0.0056	<0.011	<0.00011	0.0015	<0.0056		<0.00011	<0.0056	0.0244	0.0353	<0.011 UJ	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.0019	0.0048 J J	<0.00011	<0.011
	P55-ROX-101013	10/10/2013		41.67	NE	<0.0055	<0.0055	<0.011	<0.00011	0.0014	<0.0055		<0.00011	<0.0055	0.0279	0.0415	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.0017	0.002 J	<0.00011	<0.011

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																				
						Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	Fluoranthene	Fluorene	Hexachlorobenzene	Indene	Indeno(1,2,3-cd)pyrene	Isophorone (3,5,5-trimethyl-2-cyclohexene-1-one)	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	3-Nitroaniline	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Pyridine
				Screening Values (mg/L)		0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]		0.014 [1]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]	0.007 [3]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
P-56	P56-ROX-011713	1/17/2013	40.82 - 65.82	45.65	NE	<0.005	<0.005	<0.01	<0.0001	0.00032	<0.005		<0.0001	<0.005	0.0147	0.0131	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.0012	0.0014 J	<0.0001	<0.01
	P56-ROX-041213	4/12/2013		46.12	NE	<0.0055	<0.0055	<0.011	<0.00011	0.00032	<0.0055		<0.00011	<0.0055	0.0208	0.0239	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.0012	<0.0055	<0.00011	<0.011
	P56-ROX-071513	7/15/2013		43.25	NE	<0.0055	<0.0055	<0.011	<0.00011	0.00059	<0.0055		<0.00011	<0.0055	0.0315	0.0431	<0.011 UJ	0.0064 J	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.0015	<0.0055 UJ	<0.00011	<0.011
	P56-ROX-101013	10/10/2013		44.48	NE	<0.0055	<0.0055	<0.011	<0.00011	0.00044	<0.0055		<0.00011	<0.0055	0.0251	0.03	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.0013	<0.0055	<0.00011	<0.011
	P56-ROX-012214	1/22/2014		46.35	NE	<0.0052	<0.0052	<0.01	<0.0001	0.00035	<0.0052		<0.0001	<0.0052	0.0193	0.0228	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.0012	<0.0052	<0.0001	<0.01
	P56-ROX-041414	4/14/2014		47.32	NE	0.00051 J	<0.0059	<0.012	<0.00012	0.00038	<0.0059		<0.00012	<0.0059	0.0223	0.0269	<0.012	0.0008 J	<0.012	<0.0059	<0.0059	<0.0059	<0.012	0.0012	<0.0059	<0.00012	<0.012
	P56-ROX-070814	7/8/2014		45.97	NE	<0.0056	<0.0056	<0.011	<0.00011	0.00036	<0.0056		<0.00011	<0.0056	0.0181	0.0243	<0.011	0.0165	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.001	<0.0056	<0.00011	<0.011
	P56-ROX-101314	10/13/2014		45.05	NE	<0.00035 U	<0.0054	<0.011	<0.00011	0.00041	<0.0054		<0.00011	<0.0054	0.0235	0.0296	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0015	<0.0054	<0.00011	<0.011 UJ
	P56-ROX-011915	1/19/2015		46.58	NE	<0.0054	<0.0054	<0.011	<0.00011	0.0003	<0.0054		<0.00011	<0.0054	0.0197	0.0223	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0011	<0.0054	0.00003 J	<0.011
	P56-ROX-041515	4/15/2015		48.05	NE	<0.0054	<0.0054	<0.011	<0.00011	0.00041	<0.0054		<0.00011	<0.0054	0.026	0.0293	<0.011	0.0011 J	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0013	<0.0054	0.000027 J J	<0.011
	P56-ROX-071015	7/10/2015		47.34	NE	<0.0053	<0.0053	<0.011	<0.00011	0.00033	<0.0053		<0.00011	<0.0053	0.0262	0.0119	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.0014	<0.0053	0.000029 J	<0.011
	P56-ROX-101415	10/14/2015	40.82 - 65.82	44.85	NE	<0.01	<0.01	<0.01	<0.0002	0.00018 J	<0.01	<0.01	<0.0002	<0.01	0.013	0.011 J	<0.01	0.29	<0.01 UJ	<0.01	<0.01	<0.01	<0.02	0.00082	<0.01	<0.0002	<0.01 UJ
P-57	P57-ROX-012913	1/29/2013	40.46 - 65.46	45.92	NE	<0.0059	<0.0059	<0.012	<0.00012	0.00094	<0.0059		<0.00012	<0.0059	0.0369	0.0447	<0.012	<0.012	<0.012	<0.0059	<0.0059	<0.0059	<0.012	0.00074	<0.0059 UJ	<0.00012	<0.012 UJ
	P57-ROX-041113	4/11/2013		46.29	NE	<0.0051	<0.0051	<0.01	<0.0001	0.00076	<0.0051		<0.0001	<0.0051	0.0348	0.0453	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.00074	0.146	<0.0001	<0.01
	P57-ROX-071613	7/16/2013		43.38	NE	<0.0056	<0.0056	<0.011	0.000038 J	0.0008	<0.0056		<0.00011	<0.0056	0.0267	0.0365	<0.011 UJ	0.0086 J	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.00073	0.164 J	<0.000052 U	<0.011
	P57-ROX-101413	10/14/2013		44.38	NE	0.00049 J	<0.0054	<0.011	<0.00011	0.00067	<0.0054		<0.00011	<0.0054	0.0252	0.0324	<0.011	<0.011	<0.011	<0.0054	<0.0054 UJ	<0.0054	<0.011	0.00049	0.202	0.000047 J	<0.011 UJ
	P57-ROX-020314	2/3/2014		46.57	NE	<0.0053	<0.0053	<0.011	<0.00011	0.00062	<0.0053		<0.00011	<0.0053	0.0234	0.0314	<0.011	0.0027 J	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00052	0.168 J	<0.00011	<0.011 UJ
	P57-ROX-041514	4/15/2014		46.70	NE	<0.00058 U	<0.0056	<0.011	<0.00011	0.00061	<0.0056		<0.00011	<0.0056	0.0238	0.032	<0.011	<0.011	<0.011	<0.0056	<0.0056 UJ	<0.0056	<0.011	0.00045 J	0.106 J	<0.00011	<0.011 UJ
	P57-ROX-070814	7/8/2014		45.95	NE	0.00026 J	<0.0053	<0.011	<0.00011 UJ	0.00055	<0.0053	0.024 JN	<0.00011	<0.0053	0.022	0.0306	<0.011	0.0303	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00047	0.141	<0.00011	<0.011
	P57-ROX-070814-DUP	7/8/2014		45.95	NE	0.00027 J	<0.0054	<0.011	<0.00011 UJ	0.00054	<0.0054	0.023 JN	<0.00011	<0.0054	0.022	0.03	<0.011	0.0299	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00048	0.136	<0.00011	<0.011
	P57-ROX-101414-DUP	10/14/2014		45.00	NE	<0.00082 U	<0.0058	<0.012	<0.00012	0.00065	<0.0058		<0.00012	<0.0058	0.0243	0.0338	<0.012	0.0138	<0.012	<0.0058	<0.0058	<0.0058	<0.012	0.00058	0.271 J	<0.00012	<0.012
	P57-ROX-101414	10/14/2014		45.00	NE	<0.00086 U	<0.0056	<0.011	<0.00011	0.00068	<0.0056		<0.00011	<0.0056	0.026	0.0345	<0.011	0.0152	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.00059	0.274 J	<0.00011	<0.011
	P57-ROX-012315	1/23/2015	44.19 - 54.19	47.52	NE	0.00039 J	<0.0053	<0.011	<0.00002 U	0.00098	<0.0053		<0.00011	<0.0053	0.0385	0.0507	<0.011	0.0044 J	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00062	0.159	<0.000027 U	<0.011 UJ
	P57-ROX-042015	4/20/2015		48.73	NE	0.00037 J	<0.0052	<0.01	<0.0001	0.00089	<0.0052		<0.0001	<0.0052	0.0312	0.045	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.0007	0.164	0.000021 J	<0.01
	P57-ROX-071315	7/13/2015		47.81	NE	0.00044 J	<0.0053	<0.011	<0.00011	0.00082	<0.0053		<0.00011	<0.0053	0.0302	0.0464	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00064	0.189	0.00002 J	<0.011
	P57-ROX-101515	10/15/2015	44.19 - 54.19	45.56	NE	<0.01	<0.01	<0.01	<0.0002	0.00045	<0.01	<0.01	<0.0002	<0.01	0.018	0.026	<0.01	0.038	<0.01	<0.01	<0.01	<0.01	<0.02	<0.0002	0.87	<0.0002	<0.01
P-58	P58-ROX-012213	1/22/2013	40.21 - 65.21	44.21	NE	<0.0054	<0.0054	<0.011	0.00024	0.003	<0.0054		0.000072 J	<0.0054	0.068	0.0846	<0.011	0.0198	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0023	0.208	0.00077	<0.011
	P58-ROX-041113	4/11/2013		44.40	NE	<0.0054	<0.0054	<0.011	0.00019	0.0022	<0.0054		<0.00011	<0.0054	0.0692	0.0961	<0.011	0.014	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0021	0.0985	0.00055	<0.011
	P58-ROX-071613	7/16/2013		41.49	NE	<0.0055	<0.0055	<0.011	0.000071 J	0.0013	<0.0055		<0.00011	<0.0055	0.0544	0.0708	<0.011 UJ	0.0359	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.00099	0.247	<0.0002 U	<0.011
	P58-ROX-101413	10/14/2013		42.19	NE	0.00058 J	<0.0054	<0.011	0.000066 J	0.0014	<0.0054		<0.00011	<0.0054	0.0488	0.0628	<0.011	0.0481	<0.011	<0.0054	<0.0054 UJ	<0.0054	<0.011	0.00095	0.213	0.00021	<0.011 UJ
	P58-ROX-020314	2/3/2014		44.66	NE	<0.0052	<0.0052	<0.01	0.000058 J	0.0011	<0.0052		<0.0001	<0.0052	0.0353	0.0474	<0.01	0.0073 J	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00069	0.123 J	0.00014	<0.01 UJ
	P58-ROX-041514	4/15/2014		45.66	NE	<0.0013 U	0.00072 J	<0.011 UJ	0.00079	0.0017	0.00088 J		0.00072	<0.0053 UJ	0.0284	0.0381	<0.011 UJ	0.0136 J	<0.011 UJ	<0.0053	0.0021 J J	<0.0053 UJ	<0.011 UJ	0.0013	0.123 J	0.00085	<0.011 UJ
	P58-ROX-071814	7/18/2014		43.80	NE	<0.00032 U	<0.0055	<0.011	0.000062 J	0.0012	<0.0055		0.0005	<0.0055	0.0412	0.0554	<0.011	0.012	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.00092	0.173	0.00022	<0.011
	P58-ROX-101514	10/15/2014		43.14	NE	<0.0054	<0.0054	<0.011	0.000064 J	0.0015	<0.0054		<0.00011	<0.0054	0.0504	0.0674	<0.011	0.0237	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.001	0.145	0.00024	<0.011
	P58-ROX-012315	1/23/2015		45.32	NE	0.00038 J	<0.0053	<0.011	<0.000028 U	0.0011	<0.0053		<0.00011	<0.0053	0.0428	0.0565	<0.011	0.0025 J	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00064	0.162	0.000097 JB	<0.011 UJ
	P58-ROX-042015	4/20/2015		46.67	NE	0.00028 J	<0.0052	<0.01	0.000048 J	0.0012	<0.0052		<0.0001	<0.0052	0.0444	0.0563	<0.01	0.0047 J	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00075	0.112	0.00019	<0.01
	P58-ROX-071415	7/14/2015		45.54	NE	0.00081 J	<0.0055	<0.011	0.000054 J	0.0011	<0.0055		<0.00011	<0.0055	0.04	0.055	<0.011	0.0165	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.00083	0.153	0.00023	<0.011
	P58-ROX-101615	10/16/2015	40.21 - 65.21	43.45	NE	<0.01	<0.01	<0.01	<0.0002	0.00038	<0.01	<0.01	<0.0002	<0.01	0.016	0.021	<0.01	0.013 J	<0.01	<0.01	<0.01	<0.01	<0.02	0.00021	0.23	0.000062 J	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																				
						Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	Fluoranthene	Fluorene	Hexachlorobenzene	Indene	Indeno(1,2,3-cd)pyrene	Isophorone (3,5,5-trimethyl-2-cyclohexene-1-one)	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3,& 4-Methylphenol (m & p-Cresol)	3-Nitroaniline	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Pyridine
				Screening Values (mg/L)		0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]		0.014 [1]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]	0.007 [3]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
P-59	P59-ROX-013013	1/30/2013	47.91 - 72.91	46.60	NE	0.0022 J	<0.0052	<0.01	<0.000079 U	0.00069	<0.0052		<0.0001	<0.0052	0.0222	0.0305	0.154	0.107	<0.01 UJ	<0.0052	<0.0052 UJ	<0.0052	<0.01	0.001	0.141 J	<0.00011 U	<0.01 UJ
	P59-ROX-041213	4/12/2013		46.95	NE	<0.0054	<0.0054	<0.011	0.000077 J	0.00064	<0.0054		<0.00011	<0.0054	0.0247	0.0369	0.174	0.0842	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0012	0.119	0.000098 J	<0.011
	P59-ROX-041213-DUP	4/12/2013		46.95	NE	<0.0053	<0.0053	<0.011	0.000078 J	0.00065	<0.0053		<0.00011	<0.0053	0.0265	0.0383	0.154	0.0794	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.0012	0.101	0.0001 J	<0.011
	P59-ROX-071613	7/16/2013		44.13	NE	<0.0054	<0.0054	<0.011	0.000061 J	0.00063	<0.0054		<0.00011	<0.0054	0.0189	0.0302	0.17	0.042	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00087	0.121 J	<0.000078 U	<0.011
	P59-ROX-101013	10/10/2013		45.50	NE	<0.0054	0.00091 J	<0.011	0.00015	0.0007	<0.0054		<0.00011	<0.0054	0.0192	0.0305	0.201	0.0528	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0014	0.0524	0.00028	<0.011
	P59-ROX-020314	2/3/2014		47.35	NE	<0.0052	<0.0052	<0.01	0.00012	0.00067	<0.0052		<0.0001	<0.0052	0.0141	0.0214	0.31 J	0.0142	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.0014	0.0444 J	0.00019	<0.01 UJ
	P59-ROX-041514	4/15/2014		48.60	NE	<0.0053	<0.0053	<0.011	0.00015	0.00066	<0.0053		<0.00011	<0.0053	0.0233	0.0317	<0.011	0.0186 J	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011	0.0016	0.13 J	0.0003	<0.011 UJ
	P59-ROX-070814	7/8/2014		47.69	NE	0.00045 J	<0.0057	<0.011	0.000053 J J	0.00046	<0.0057		<0.00011	<0.0057	0.0181	0.0291	0.0793	0.0184	<0.011	<0.0057	<0.0057	<0.0057	<0.011	0.00088	<0.0057	0.0001 J	<0.011
	P59-ROX-101414	10/14/2014		46.18	NE	<0.00042 U	<0.0054	<0.011	<0.00054	0.00087	<0.0054		<0.00054	<0.0054	0.0268	0.0425	0.0387	0.0092 J	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0015	0.0361	<0.00054	<0.011
	P59-ROX-011915	1/19/2015		47.42	NE	<0.0054	<0.0054	<0.011	0.00014	0.00073	<0.0054		<0.00011	<0.0054	0.0145	0.0216	0.0789	0.0145	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0013	0.0169	0.00027	<0.011
	P59-ROX-041615	4/16/2015		48.83	NE	<0.0054	<0.0054	<0.011	0.000078 J	0.00028	<0.0054	0.057 JN	<0.00011	<0.0054	0.0136	0.0189	0.0661	0.168	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00081	0.0909	0.00014	<0.011
	P59-ROX-071315	7/13/2015		47.85	NE	<0.0054	<0.0054	<0.011	0.0002	0.00045	<0.0054		<0.00011	<0.0054	0.0045	0.0049	0.044	0.0123	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00064	0.0062	0.00039	<0.011
	P59-ROX-101515	10/15/2015	47.91 - 72.91	45.75	NE	<0.01	<0.01	<0.01	<0.0002	<0.002	<0.01	0.0091 J	<0.0002	<0.01	0.014	0.014	0.093	0.061	<0.01 UJ	<0.01	<0.01	<0.01	<0.02	<0.0002	0.072	<0.0002	<0.01 UJ
P-66	P66-ROX-011813	1/18/2013	34.72 - 59.72	35.70	NE	<0.0053	<0.0053	<0.011	0.000076 J	0.0019	<0.0053		<0.00011	<0.0053	0.0655	0.0315	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00082	0.0019 J	0.00011	<0.011 UJ
	P66-ROX-041113	4/11/2013		36.03	NE	<0.0053	<0.0053	<0.011	0.000072 J	0.0017	<0.0053		<0.00011	<0.0053	0.0681	0.0131	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00091	<0.0053	0.000087 J	<0.011
	P66-ROX-071213	7/12/2013		33.20	NE	<0.0056	<0.0056	<0.011	<0.00019 U	0.0018	<0.0056		0.00017	<0.0056	0.0688	0.0642	<0.011	<0.011	<0.011	<0.0056	<0.0056 UJ	<0.0056	<0.011	0.00088	0.0035 J J	<0.0002 U	<0.011 UJ
	P66-ROX-101013	10/10/2013		33.66	NE	<0.0056	<0.0056	<0.011	0.000052 J	0.0013	<0.0056		<0.00011	<0.0056	0.0571	0.0218	<0.011	0.0034 J	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.0005	<0.0056	0.00009 J	<0.011
	P66-ROX-110713	11/7/2013		33.66	NE																					
	P66-ROX-012914	1/29/2014		36.39	NE	<0.0053	<0.0053	<0.011	0.000065 J	0.0016	<0.0053		0.000041 J	<0.0053	0.0701	0.0284	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00077	<0.0053	0.000099 J	<0.011
	P66-ROX-041114	4/11/2014		37.10	NE	<0.00088 U	<0.0058	<0.012	<0.00012	0.0013	<0.0058		<0.00012	<0.0058	0.0649	0.023	<0.012	<0.012	<0.012	<0.0058	<0.0058	<0.0058	<0.012	0.00049	<0.0058	0.000049 J	<0.012
	P66-ROX-070714	7/7/2014		35.60	NE	0.0003 J	<0.0056	<0.011	<0.00011	0.00078	<0.0056		<0.00011	<0.0056	0.0445	0.006	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.00041 J	<0.0056	<0.00011	<0.011
	P66-ROX-101414	10/14/2014		34.48	NE	<0.00066 U	<0.0055	<0.011	<0.00011	0.0011	<0.0055		<0.00011	<0.0055	0.0595	0.0075	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.00064	<0.0055	0.000043 J	<0.011
	P66-ROX-011615	1/16/2015		36.62	NE	<0.00022 U	<0.0053	<0.011	0.000047 J J	0.0014	<0.0053		<0.00011	<0.0053	0.0739	0.0178	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00072 J	<0.0053	0.000077 J J	<0.011
	P66-ROX-011615-DUP	1/16/2015		36.62	NE	<0.0054	<0.0054	<0.011	0.001 J	0.0015	<0.0054		0.00014	<0.0054	0.0682	0.0165	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0016 J	<0.0054	0.00086 J	<0.011
	P66-ROX-041415	4/14/2015		38.27	NE	<0.0054	<0.0054	<0.011	0.00005 J	0.0013	<0.0054		<0.00011	<0.0054	0.0665	0.02	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00062	<0.0054	0.000053 J	<0.011
	P66-ROX-041415-DUP	4/14/2015		38.27	NE	<0.0053	<0.0053	<0.011	0.000038 J	0.0013	<0.0053		<0.00011	<0.0053	0.0627	0.0187	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00059	<0.0053	0.000041 J	<0.011
	P66-ROX-070815	7/8/2015		37.24	NE	<0.0053	<0.0053	<0.011	0.000027 J	0.0011	<0.0053		<0.00011	<0.0053	0.0546	0.0075	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00053	<0.0053	0.000028 J	<0.011
	P66-ROX-070815-DUP	7/8/2015		37.24	NE	<0.0053	<0.0053	<0.011	0.000024 J	0.0011	<0.0053		<0.00011	<0.0053	0.0574	0.0077	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00056	<0.0053	0.00004 J	<0.011
	P66-ROX-101315	10/13/2015	34.72 - 59.72	34.84	NE	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	0.001 J	<0.0002	<0.01	0.034	0.0025	<0.01	<0.02	<0.01 UJ	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01 UJ
P-74	P74-ROX-011713	1/17/2013	44.43 - 69.43	42.65	NE	<0.0051	<0.0051	<0.01	0.000038 J	0.00038	<0.0051		<0.0001	<0.0051	0.0156	0.0198	<0.01	0.001 J	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.00023	0.0298	0.000048 J	<0.01
	P74-ROX-041113	4/11/2013		42.83	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0046 U	<0.0001	<0.01
	P74-ROX-071513	7/15/2013		40.11	NE	<0.0054	<0.0054	<0.011	0.00014	0.00011	<0.0054		<0.00011	<0.0054	0.0019	0.00019 J	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.00008 U	0.008	0.000074 J	<0.011
	P74-ROX-101413	10/14/2013		41.72	NE	0.00047 J	<0.0054	<0.011	0.00015	0.00025	<0.0054		<0.00011	<0.0054	0.0073	0.0079	<0.011	<0.011	<0.011	<0.0054	<0.0054 UJ	<0.0054	<0.011	0.000079	0.0125	0.000057 J	<0.011 UJ
	P74-ROX-012414	1/24/2014		43.35	NE	0.00048 J	<0.0051	<0.01	0.000088 J	0.00028	<0.0051		<0.0001	<0.0051	0.0088	0.0106	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.00014 U	0.0278	0.000049 J	<0.01
	P74-ROX-041514	4/15/2014		44.74	NE	<0.0014 U	<0.0059	<0.012	<0.00012	<0.00012	<0.0059		<0.00012	<0.0059	0.0017 J	0.0022 J	<0.012	<0.012	<0.012	<0.0059	<0.0059 UJ	<0.0059	<0.012	0.000054 JB J	<0.0059 UJ	<0.00012	<0.012 UJ
	P74-ROX-070814	7/8/2014		43.02	NE	0.00039 J	<0.0057	<0.011	<0.00011	0.00011	<0.0057		<0.00011	<0.0057	0.0034	0.003	<0.011	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	0.000054 J	<0.0057	<0.00011	<0.011
	P74-ROX-101414	10/14/2014		41.48	NE	<0.0019 U	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.002	<0.002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001	<0.01
	P74-ROX-011915	1/19/2015		43.47	NE	<0.0053	<0.0053	<0.011	0.000053 J	0.00023	<0.0053		<0.00011	<0.0053	0.0077	0.0107	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00015 B	0.0169	0.000038 J	<0.011
	P74-ROX-041515	4/15/2015		44.61	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.0021	<0.0021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001	<0.01
	P74-ROX-071015	7/10/2015		43.28	NE	<0.0054	<0.0054	<0.011	0.000019 J	<0.00011	<0.0054		<0.00011	<0.0054	0.00002 JB J	0.000029 JB J	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	P74-ROX-101415	10/14/2015	44.43 - 69.43	41.75	NE	<0.01	0.00089 J	<0.01	<0.0002	0.00012 J	<0.01	0.0022 J	<0.0002	<0.01	0.0032	0.0031	<0.01	<0.02	<0.01 UJ	<0.01	<0.01	<0.01	<0.02	<0.0002	0.1	0.000037 J	<0.01 UJ

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																				
						Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	Fluoranthene	Fluorene	Hexachlorobenzene	Indene	Indeno(1,2,3-cd)pyrene	Isophorone (3,5,5-trimethyl-2-cyclohexene-1-one)	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	3-Nitroaniline	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Pyridine
				Screening Values (mg/L)		0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]		0.014 [1]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]	0.007 [3]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
P-93A	P93A-ROX-012313	1/23/2013	48.17 - 63.17	45.89	NE	<0.0052	<0.0052	<0.01	<0.0001	0.00021	<0.0052		<0.0001	<0.0052	0.0096	0.0093	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00024	0.168	<0.0001	<0.01 UJ
	P93A-ROX-012313-DUP	1/23/2013		45.89	NE	<0.0052	<0.0052	<0.01	<0.0001	0.00019	<0.0052		<0.0001	<0.0052	0.0094	0.009	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00023	0.165	<0.0001	<0.01 UJ
	P93A-ROX-041113	4/11/2013		46.29	NE	<0.005	<0.005	<0.01	0.000046 J	0.0003	<0.005		<0.0001	<0.005	0.0146 J	0.0098	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00035	0.2	0.00004 J	<0.01
	P93A-ROX-041113-DUP	4/11/2013		46.29	NE	<0.005	<0.005	<0.01	<0.0001	0.00025	<0.005		<0.0001	<0.005	0.0146 J	0.0096	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00024	0.179	<0.0001	<0.01
	P93A-ROX-071813	7/18/2013		43.25	NE	<0.0056	<0.0056	<0.011	<0.00011	0.00023	<0.0056		<0.00011	<0.0056	0.0089	0.0062	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.00021	0.107	<0.00011	<0.011
	P93A-ROX-101113	10/11/2013		44.18	NE	<0.005	<0.005	<0.01	<0.0001	0.00028	<0.005		<0.0001	<0.005	0.0128	0.0085	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00013	0.0837 J	<0.0001	<0.01 UJ
	P93A-ROX-012914	1/29/2014		46.53	NE	<0.0054	<0.0054	<0.011	<0.00011	0.00032	<0.0054		<0.00011	<0.0054	0.0133	0.0072	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00022 B	0.105	<0.00011	<0.011
	P93A-ROX-041714	4/17/2014		47.41	NE	<0.0012 U	<0.0056	<0.011	<0.00011	0.00027	<0.0056		<0.00011	<0.0056	0.0086	0.0048	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.00018 B J	0.0735	<0.00011	<0.011
	P93A-ROX-071814	7/18/2014		45.70	NE	<0.00077 U	<0.0057	<0.011	<0.00011	0.00024	<0.0057		<0.00011	<0.0057	0.0084	0.0053	<0.011	<0.011	<0.011	0.0059	<0.0057	<0.0057	<0.011	0.00017 B	0.0355	<0.00011	<0.011
	P93A-ROX-071814-DUP	7/18/2014		45.70	NE	<0.00041 U	<0.0057	<0.011	<0.00011	0.00025	<0.0057		<0.00011	<0.0057	0.0095	0.0062	<0.011	<0.011	<0.011	0.0052 J	<0.0057	<0.0057	<0.011	0.00017 B	0.0396	<0.00011	<0.011
	P93A-ROX-101514	10/15/2014		45.06	NE	0.00024 J	<0.0052	<0.01	<0.0001	0.00037	<0.0052		<0.0001	<0.0052	0.0114	0.0095	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.0003	0.0471	<0.0001	<0.01
	P93A-ROX-101514-DUP	10/15/2014		45.06	NE	0.00046 J J	<0.0054 UJ	<0.011 UJ	<0.00011 UJ	0.00039 J	<0.0054 UJ		<0.00011 UJ	<0.0054 UJ	0.0122 J	0.0101 J	<0.011 UJ	<0.011 UJ	<0.011 UJ	0.0011 J J	<0.0054 UJ	<0.0054 UJ	<0.011 UJ	0.0003 J	0.05 J	<0.00011 UJ	<0.011 UJ
	P93A-ROX-012715	1/27/2015	43.07 - 53.07	46.05	NE	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005		<0.0002	<0.005	0.008	0.0038	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.025	0.00026 J	0.09	<0.001	<0.01
	P93A-ROX-041715	4/17/2015		47.02	NE	<0.0053	<0.0053	<0.011	0.000017 J	0.00021	<0.0053		<0.00011	<0.0053	0.0061	0.0028	<0.011	0.00063 J	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00018	0.0251	0.000026 J	<0.011
	P93A-ROX-071315	7/13/2015		45.93	NE	0.00064 J	<0.0052	<0.01	0.000025 J	0.00022	<0.0052		<0.0001	<0.0052	0.0056	0.0032	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00018	0.128	0.000032 J	<0.01
	P93A-ROX-101515	10/15/2015	43.07 - 53.07	43.69	NE	<0.01	<0.01	<0.01	<0.0002	0.00012 J	<0.01	<0.01	<0.0002	<0.01	0.0041	0.0016	<0.01	0.0021 J	<0.01	<0.01	<0.01	<0.01	<0.02	0.000086 J	0.078	<0.0002	<0.01
	P93A-ROX-101515-DUP	10/15/2015		43.69	NE	<0.01	<0.01	<0.01	<0.0002	0.00013 J	<0.01	<0.01	<0.0002	<0.01	0.004	0.0016	<0.01	0.0023 J	<0.01	<0.01	<0.01	<0.01	<0.02	0.000092 J	0.082	<0.0002	<0.01
P-93B	P93B-ROX-012313	1/23/2013	74.60 - 76.60	45.89	NE	0.003 J	<0.0053	<0.011	0.00013	0.00012	0.00058 J		0.00012	<0.0053	<0.00021	0.00012 J	<0.011	0.0014 J	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00016	0.176	0.00013	<0.011 UJ
	P93B-ROX-041113	4/11/2013		46.32	NE	0.0013 J	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	0.122	<0.0001	<0.01
	P93B-ROX-071813	7/18/2013		43.30	NE	0.0005 J	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.000034 J	0.151	<0.00011	<0.011
	P93B-ROX-101613	10/16/2013		44.43	NE	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	0.069	<0.0001	<0.01
	P93B-ROX-101613-DUP	10/16/2013		44.43	NE	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	0.082	<0.0001	<0.01
	P93B-ROX-012814	1/28/2014		46.58	NE	0.00045 J	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000022 U	0.074	<0.00011	<0.011
	P93B-ROX-012814-DUP	1/28/2014		46.58	NE	0.00048 J	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000024 U	0.0927	<0.0001	<0.01
	P93B-ROX-041714	4/17/2014		47.46	NE	<0.0024 U	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	0.0719	<0.0001	<0.01
	P93B-ROX-041714-DUP	4/17/2014		47.46	NE	<0.00098 U	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	0.0861	<0.00011	<0.011
	P93B-ROX-071714	7/17/2014		45.75	NE	<0.00046 U	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000023 U	<0.0052 UJ	<0.0001	<0.01
	P93B-ROX-101514	10/15/2014		45.15	NE	0.00024 J	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.0022	<0.0022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	0.128	<0.00011	<0.011
	P93B-ROX-012315	1/23/2015		47.24	NE	0.00025 J	<0.0053	<0.011	<0.00011	<0.000017 U	<0.0053		<0.00011	<0.0053	0.00002 J	<0.0021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	0.0979	<0.00011	<0.011 UJ
	P93B-ROX-012315-DUP	1/23/2015		47.24	NE	0.00031 J	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.000023 J	0.000041 J	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000024 U	0.123	<0.00011	<0.011 UJ
	P93B-ROX-021915	2/19/2015		47.24	NE																					
	P93B-ROX-041615	4/16/2015		48.42	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.000034 JB J	0.00008 JB J	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	0.104 J	<0.00011	<0.011
	P93B-ROX-041615-DUP	4/16/2015		48.42	NE	<0.0053	<0.0053	<0.011	<0.00011	0.00002 J	<0.0053		<0.00011	<0.0053	0.000028 JB J	0.000048 JB J	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	0.08 J	<0.00011	<0.011
	P93B-ROX-070915	7/9/2015		47.74	NE	<0.0051	<0.0051	<0.01	0.000035 J	0.000031 J	<0.0051		<0.0001	<0.0051	0.000041 J	0.000059 J	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.000054 J	0.101	0.000025 J	<0.01
	P93B-ROX-070915-DUP	7/9/2015		47.74	NE	<0.0051	<0.0051	<0.01	0.000029 J	0.000095 J	<0.0051		<0.0001	<0.0051	0.000058 J	0.000077 J	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.00031 J	0.0909	<0.0001	<0.01
	P93B-ROX-101515	10/15/2015	74.60 - 76.60	45.18	NE	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.01	<0.0002	<0.0002	<0.01	<0.02	<0.01 UJ	<0.01	<0.01	<0.01	<0.02	<0.0002	0.18	<0.0002	<0.01 UJ
P-93C	P93C-ROX-012313	1/23/2013	94.26 - 96.26	45.78	NE	0.0025 J	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011	<0.011 UJ
	P93C-ROX-041213	4/12/2013		46.21	NE	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005 UJ	<0.005	<0.01	<0.00005	<0.005	<0.0001	<0.01 UJ
	P93C-ROX-071813	7/18/2013		43.31	NE	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.000026 J	0.0352	<0.00011	<0.011
	P93C-ROX-080813	8/8/2013		43.31	NE																					
	P93C-ROX-101613	10/16/2013		44.31	NE	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	0.005 J	<0.0001	<0.01
	P93C-ROX-012414	1/24/2014		46.44	NE	0.00051 J	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001	<0.01
	P93C-ROX-041714	4/17/2014		47.34	NE	<0.00048 U	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052 UJ	<0.0001	<0.01
	P93C-ROX-071714	7/17/2014		45.61	NE	<0.00035 U	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000024 U	<0.0087 UJ	<0.0001	<0.01
	P93C-ROX-101514	10/15/2014		44.99	NE	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.0022	<0.0022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011	<0.011
	P93C-ROX-011915	1/19/2015	92.47 - 97.47	46.77	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.000033 U	<0.000042 U	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000033 U	0.0309	<0.00011	<0.011
	P93C-ROX-021915	2/19/2015		46.77	NE																					
	P93C-ROX-041615	4/16/2015		48.22	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.00006 JB J	0.000084 JB J	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.000024 J	0.0215	<0.00011	<0.011
	P93C-ROX-071315	7/13/2015		47.09	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.000095 JB J	0.00016 JB J	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	P93C-ROX-101415	10/14/2015	92.47 - 97.47	44.91	NE	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.01	0.0001 J	0.00013 J	<0.01	<0.02	<0.01 UJ	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01 UJ

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																			
						Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	Fluoranthene	Fluorene	Hexachlorobenzene	Indene	Indeno(1,2,3-cd)pyrene	Isophorone (3,5,5-trimethyl-2-cyclohexene-1-one)	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	3-Nitroaniline	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Pyridine
				Screening Values (mg/L)		0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]		0.014 [1]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]	0.007 [3]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
P-93D	P93D-ROX-012213	1/22/2013	125.75 - 127.75	44.21	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.00027	0.00036	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000042 J	<0.0053	<0.00011	<0.011
	P93D-ROX-041113	4/11/2013		46.37	NE	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0087 U	<0.0001	<0.01
	P93D-ROX-071213	7/12/2013		43.51	NE	0.00045 J	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.000059 U	<0.011	<0.011	<0.011	<0.0056	<0.0056 UJ	<0.0056	<0.011	<0.000056	<0.0056 UJ	<0.00011	<0.011 UJ
	P93D-ROX-101113	10/11/2013		44.24	NE	<0.005	<0.005	<0.01	0.000087 J	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01 UJ	<0.01 UJ	<0.01	<0.005	<0.005	<0.005	<0.01 UJ	<0.00005	<0.005 UJ	0.000084 J	<0.01 UJ
	P93D-ROX-013114	1/31/2014		46.62	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000024 U	<0.0053	<0.00011	<0.011
	P93D-ROX-041414	4/14/2014		47.54	NE	0.00036 J	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.00003 U	<0.0053	<0.00011	<0.011
	P93D-ROX-071714	7/17/2014		45.78	NE	<0.00025 U	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000022 U	<0.0052 UJ	<0.0001	<0.01
	P93D-ROX-101514	10/15/2014		45.14	NE	0.00031 J	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.0022	<0.0022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.000019 J	0.0458	<0.00011	<0.011
	P93D-ROX-110414	11/4/2014		45.14	NE																					
	P93D-ROX-012315	1/23/2015		42.28	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.0021	0.000019 J	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	0.044	<0.00011	<0.011 UJ
	P93D-ROX-021915	2/19/2015		42.28	NE																					
	P93D-ROX-042015	4/20/2015		48.52	NE	<0.0052	<0.0052	<0.01	0.000024 J	0.00002 J	<0.0052		<0.0001	<0.0052	0.00012 J	0.00016 J	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.000017 J	0.0395	0.000021 J	<0.01
	P93D-ROX-070915	7/9/2015		47.96	NE	<0.0051	<0.0051	<0.01	0.000025 J	0.000019 J	<0.0051		<0.0001	<0.0051	0.000026 J	0.000038 J	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.000043 J	0.0278	0.000026 J	<0.01
	P93D-ROX-101515	10/15/2015	125.75 - 127.75	45.28	NE	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.01	0.000021 J	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.0002	0.071	<0.0002	<0.01
P-114	P114-ROX-012313	1/23/2013	32.67 - 52.67	30.22	NE	0.0024 J	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011	<0.011 UJ
	P114-ROX-041513	4/15/2013		31.80	NE	0.00047 J	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001	<0.01 UJ
	P114-ROX-071813	7/18/2013		27.22	NE	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		0.000071 J	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.000059	<0.0055	<0.00011	<0.011
	P114-ROX-071813-DUP	7/18/2013		27.22	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000052 J	<0.0053	<0.00011	<0.011
	P114-ROX-101713	10/17/2013		29.43	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011	<0.011
	P114-ROX-012814	1/28/2014		32.11	NE	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00015 B	<0.0054	<0.00011	<0.011
	P114-ROX-042114	4/21/2014		32.22	NE	0.0026 JB	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01 UJ	<0.000051	<0.0051	<0.0001	<0.01
	P114-ROX-071814	7/18/2014		30.87	NE	<0.00028 U	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.00012 U	<0.0051	<0.0001	<0.01
	P114-ROX-101714	10/17/2014		29.43	NE	<0.0057	<0.0057	<0.011	<0.00011	<0.00011	<0.0057		<0.00011	<0.0057	<0.0023	<0.0023	<0.011	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	<0.000057	<0.0057	<0.00011	<0.011 UJ
	P114-ROX-012115	1/21/2015		31.53	NE	0.00091 J	<0.0056	<0.011	<0.00002 U	0.000048 J	<0.0056		<0.00011	<0.0056	<0.000092 U	<0.00012 U	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000046 U	<0.0056	<0.000042 U	<0.011 UJ
	P114-ROX-041715	4/17/2015		NM	NE	0.00031 J	<0.0053	<0.011	0.000023 J	<0.00011	<0.0053		<0.00011	<0.0053	0.000025 JB J	0.000029 JB J	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000039 J	<0.0053	0.000027 J	<0.011
	P114-ROX-070815	7/8/2015		29.16	NE	<0.005	<0.005	<0.01	<0.0001	0.000033 J	<0.005		<0.0001	<0.005	<0.002	<0.002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.000023 J	<0.005	0.000032 J	<0.01
P-114R	P114R-ROX-100515	10/5/2015	23.01 - 33.01	26.24	NE	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.01	<0.0002	<0.0002	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01
ROST-3-MW	ROST3MW-ROX-012313	1/23/2013	37.81 - 47.81	41.50	NE	<0.005	<0.005	<0.01	<0.0001	0.00031	<0.005		<0.0001	<0.005	0.0061	0.0087	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00068	<0.005	<0.0001	<0.01 UJ
	ROST3MW-ROX-040513	4/5/2013				0.00044 J	<0.0054	<0.011	<0.00011	0.00017	<0.0054		<0.00011	<0.0054	0.0029	0.0039	<0.011	<0.011	<0.011	<0.0054	<0.0054 UJ	<0.0054	<0.011	0.00055	<0.0054 UJ	<0.00011	<0.011 UJ
	ROST3MW-ROX-071113	7/11/2013		39.50	NE	<0.0054	<0.0054	<0.011	<0.00011	0.00043	<0.0054		<0.00011	<0.0054	0.0105 J	0.0142	<0.011 UJ	<0.011 UJ	<0.011 UJ	<0.0054	<0.0054	<0.0054	<0.011 UJ	0.00073	<0.0054 UJ	<0.000044 U	<0.011
	ROST3-MW-ROX-100913	10/9/2013		40.16	NE	<0.0054	<0.0054	<0.011	<0.00011	0.00012	<0.0054		<0.00011	<0.0054	0.0024	0.0026	<0.011 UJ	<0.011 UJ	<0.011	<0.0054	<0.0054	<0.0054	<0.011 UJ	0.00014	<0.0054 UJ	0.000044 J	<0.011
	ROST3MW-ROX-011714	1/17/2014		42.20	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.0011	0.00099	<0.011 UJ	<0.011 UJ	<0.011	<0.0053	<0.0053	<0.0053	<0.011 UJ	0.0002	<0.0053 UJ	<0.00011	<0.011
	ROST3MW-ROX-041014	4/10/2014		42.80	NE	<0.00076 U	<0.006	<0.012	<0.00012	<0.00012	<0.006		<0.00012	<0.006	0.00075	0.0008	<0.012	<0.012	<0.012	<0.006	<0.006	<0.006	<0.012	0.0001	<0.006	<0.00012	<0.012
	ROST3MW-ROX-071414	7/14/2014		41.88	NE	<0.0004 U	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.00092	0.00097	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.00016 U	<0.0054	<0.00011	<0.011
	ROST3MW-ROX-100914	10/9/2014		41.31	NE	<0.00026 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	0.00075 J	0.00057 J	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.00014 B	<0.0056	<0.00011	<0.011
	ROST3MW-ROX-011515	1/15/2015		41.83	NE	0.00045 J J	<0.0057	<0.011	0.000022 J J	0.000035 J J	<0.0057		<0.00011	<0.0057	0.001 J	0.00024 J	<0.011	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	0.0001 J	<0.0057	0.000033 J J	<0.011
	ROST3MW-ROX-041315	4/13/2015		43.43	NE	<0.0052	<0.0052	<0.01	<0.0001	0.00003 J	<0.0052		<0.0001	<0.0052	0.001 J	0.0005 J	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00011	<0.0052	0.000019 J	<0.01
	ROST3MW-ROX-071315	7/13/2015		42.36	NE	<0.0053	<0.0053	<0.011	<0.00011	0.000048 J	<0.0053		<0.00011	<0.0053	0.0014 J	0.00084 JB	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00011 B	<0.0053	0.000018 J	<0.011
	ROST3MW-ROX-101215	10/12/2015	37.81 - 47.81	40.29	NE	<0.01	0.0028 J	<0.01	0.000056 J	0.000086 J	<0.01	<0.01	0.000092 J	<0.01	0.0025	0.0023	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.02	0.00018 J	<0.01	0.000056 J	<0.01
ROST-4-PZ(C)	ROST4PZ(C)-ROX-011113	1/11/2013	34.95 - 44.95	41.42	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	0.000064 J	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00012	<0.0053	<0.00011	<0.011 UJ
	ROST4PZC-ROX-041013	4/10/2013		42.27	NE	<0.0055	<0.0055	<0.011	<0.00011	0.000069 J	<0.0055		<0.00011	<0.0055	0.00062	0.000078 J	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.00018	<0.0055 U	<0.00011	<0.011
	ROST4PZC-ROX-071113	7/11/2013		40.18	NE	<0.0054	<0.0054	<0.011	0.000099 J	0.00027	<0.0054		<0.00011	<0.0054	0.0027 J	0.0021	<0.011	<0.011	<0.011 UJ	<0.0054	<0.0054	<0.0054	<0.011	0.00052	0.00057 J J	<0.00009 U	<0.011 UJ
	ROST4PZC-ROX-100913	10/9/2013		39.91	NE	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.002	0.00095	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.0002	<0.0053	<0.00011	<0.011
	ROST4PZC-ROX-011714	1/17/2014		41.92	NE	<0.0059	<0.0059	<0.012	<0.00012	<0.00012	<0.0059		<0.00012	<0.0059	0.00019 J	<0.00024	<0.01 UJ	<0.01 UJ	<0.012	<0.0059	<0.0059	<0.0059	<0.01 UJ	0.000077	<0.005 UJ	<0.00012	<0.012
	ROST4PZC-ROX-041014	4/10/2014		42.05	NE	<0.00038 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	0.000065 J	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.000051 J	<0.0056	<0.00011	<0.011 UJ
	ROST4C-ROX-071114	7/10/2014		42.22	NE	<0.00031 U	<0.0053	<0.011	<0.0001	<0.0001	<0.0053		<0.0001	<0.0053	0.00021	<0.0002	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.00012 U	<0.0053	<0.0001	<0.011 UJ
	ROST4PZC-ROX-100914	10/9/2014		41.30	NE	<0.00032 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.0022	<0.0022	<0.011	0.00071 J	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000088 U	0.00088 J	<0.00011	<0.011
	ROST4PZC-ROX-011515	1/15/2015		41.65	NE	0.0003 J J	<0.0057	<0.011	<0.00011	<0.00011	<0.0057		<0.00011	<0.0057	0.000038 J	0.000018 J J	<0.011	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	0.00004 J J	<0.0057	0.000022 J J	<0.011
	ROST4PZC-ROX-041315	4/13/2015		43.00	NE	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	0.0012 J	0.00038 JB	<0.01	0.0011 J	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.000075	<0.0051	0.000022 J	<0.01
	ROST4PZC-ROX-101215	10/12/2015	34.95 - 44.95	40.35	NE	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	0.0012 J	<0.0002	<0.01	0.013	0.011	<0.01	0.0051 J	<0.01	<0.01	<0.01	<0.01	<0.02	<0.0002	<0.01	<0.0002	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																				
						Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	Fluoranthene	Fluorene	Hexachlorobenzene	Indene	Indeno(1,2,3-cd)pyrene	Isophorone (3,5,5-trimethyl-2-cyclohexene-1-one)	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	3-Nitroaniline	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Pyridine
				Screening Values (mg/L)		0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]		0.014 [1]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]	0.007 [3]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
T-12	T12-ROX-011813	1/18/2013	46.46 - 72.46	44.50	NE	<0.0053	<0.0053	<0.011	<0.00011	0.00046	<0.0053		<0.00011	<0.0053	0.0241	0.0322	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.0011	0.0265	0.000067 J	<0.011 UJ
	T12-ROX-041513	4/15/2013		44.99	NE	<0.0051	<0.0051	<0.01	<0.0001	0.00037	<0.0051		<0.0001	<0.0051	0.0289	0.0444	0.0047 J	0.0042 J	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.0011	0.0149	0.000063 J	<0.01 UJ
	T12-ROX-071613	7/16/2013		42.33	NE	<0.0054	<0.0054	<0.011	0.000044 J	0.00034	<0.0054		<0.00011	<0.0054	0.0236	0.0331	0.0029 J J	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0011	0.0514 J	<0.00009 U	<0.011
	T12-ROX-101513	10/15/2013		43.73	NE	<0.0054	<0.0054	<0.011	<0.00011	0.00029	<0.0054		<0.00011	<0.0054	0.0199	0.0319	0.0018 J	0.0032 J	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00077	0.0083	0.00009 J	<0.011
	T12-ROX-012414	1/24/2014		45.26	NE	0.00044 J	<0.0051	<0.01	<0.0001	0.00035	<0.0051		<0.0001	<0.0051	0.0215	0.0326	0.0022 J	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.001	0.0498	0.00006 J	<0.01
	T12-ROX-041514	4/15/2014		46.72	NE	<0.00034 U	<0.0056	<0.011	<0.00011	0.0003	<0.0056		<0.00011	<0.0056	0.0189	0.0283	<0.011	<0.011	<0.011	<0.0056	<0.0056 UJ	<0.0056	<0.011	0.00078	0.0672 J	0.00005 J	<0.011 UJ
	T12-ROX-070814	7/8/2014		45.13	NE	0.00038 J	<0.0054	<0.011	<0.00011	0.00022	<0.0054		<0.00011	<0.0054	0.015	0.0245	0.0092 J	0.0033 J	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00051	<0.0054	<0.00011	<0.011
	T12-ROX-101714	10/17/2014		44.40	NE	0.00061 J	<0.0056	<0.011	<0.00011	0.00031	<0.0056		<0.00011	<0.0056	0.022	0.0369	0.003 J	0.0059 J	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.00079	0.0154	<0.00011	<0.011 UJ
	T12-ROX-011915	1/19/2015		45.27	NE	<0.0053	<0.0053	<0.011	<0.00011	0.00032	<0.0053	0.0069 JN	<0.00011	<0.0053	0.021	0.0332	0.0055 J	0.0016 J	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00082	0.0155	0.000055 J	<0.011
	T12-ROX-041515	4/15/2015		46.73	NE	0.00033 J	<0.0056	<0.011	0.000024 J	0.00032	<0.0056		<0.00011	<0.0056	0.021	0.0335 J	0.0021 J	0.0042 J	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.00086	0.0099	0.000052 J J	<0.011
	T12-ROX-071015	7/10/2015		46.09	NE	<0.0054	<0.0054	<0.011	0.000027 J	0.00029	<0.0054		<0.00011	<0.0054	0.0178	0.0301	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00083	0.0221	0.000053 J	<0.011
	T12-ROX-101515	10/15/2015	46.83 - 72.83	43.72	NE	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.01	<0.01	<0.0002	<0.01	0.017	0.024	<0.01	<0.02	<0.01 UJ	<0.01	<0.01	<0.01	<0.02	0.0005	0.054	0.000038 J	<0.01 UJ

Notes:

1 Denotes screening critieria source from 35 I.A.C. 620, Subpart D.

2 Denotes screening critieria source from 35 I.A.C. 742 (TACO), Appendix B, Table E.

3 Denotes screening criteria source from IL EPA Toxicity Assessment Unit (Chemicals not in TACO, Tier 1 Tables).

4 Beginning in 4Q12, naphthalene was analyzed via 8260 VOC, and prior historical results were reported by PAH analysis.

5 Beginning in 4Q13, professional judgment criteria used to review common laboratory contaminants was reevaluated. Acetone, 2-butanone, and methylene chloride are only U-qualified when present in the method blank.

6 The laboratory has been requested to perform a library search in all samples for butane, hexane, isopentane, 1,2,3-trimethylbenzene, and indene, which are reported as Tentatively Identified Compounds (TICs), when identified.

Indicates a historical exceedance of screening criteria.

Indicates a current exceedance of screening criteria.

Empty cell without a value indicates previous quarter analyte result was rejected, the analyte was not analyzed, or the TIC was not identified.

LABORATORY QUALIFIERS
B = Target analyte or common lab contaminant was identified in the method blank indicating possible field or lab contamination.
D = The result is from a diluted sample.
J = The analyte was detected below the reporting limit. Result is estimated.
E = The value exceeds calibration range.
JN = Estimated value for tentatively identified compound (library search).

AECOM QUALIFIERS
J = The result is estimated.
UJ = Estimated non-detect.
U = Result is non-detect.

Figures

The following EVS Descriptions and Assumptions apply to **Figure 6.** C Tech Development Corporation's Environmental Visualization System PRO, Version 9.89 (EVS-PRO) was used to model the estimated distribution of benzene in the groundwater.

EVS Descriptions and Assumptions:

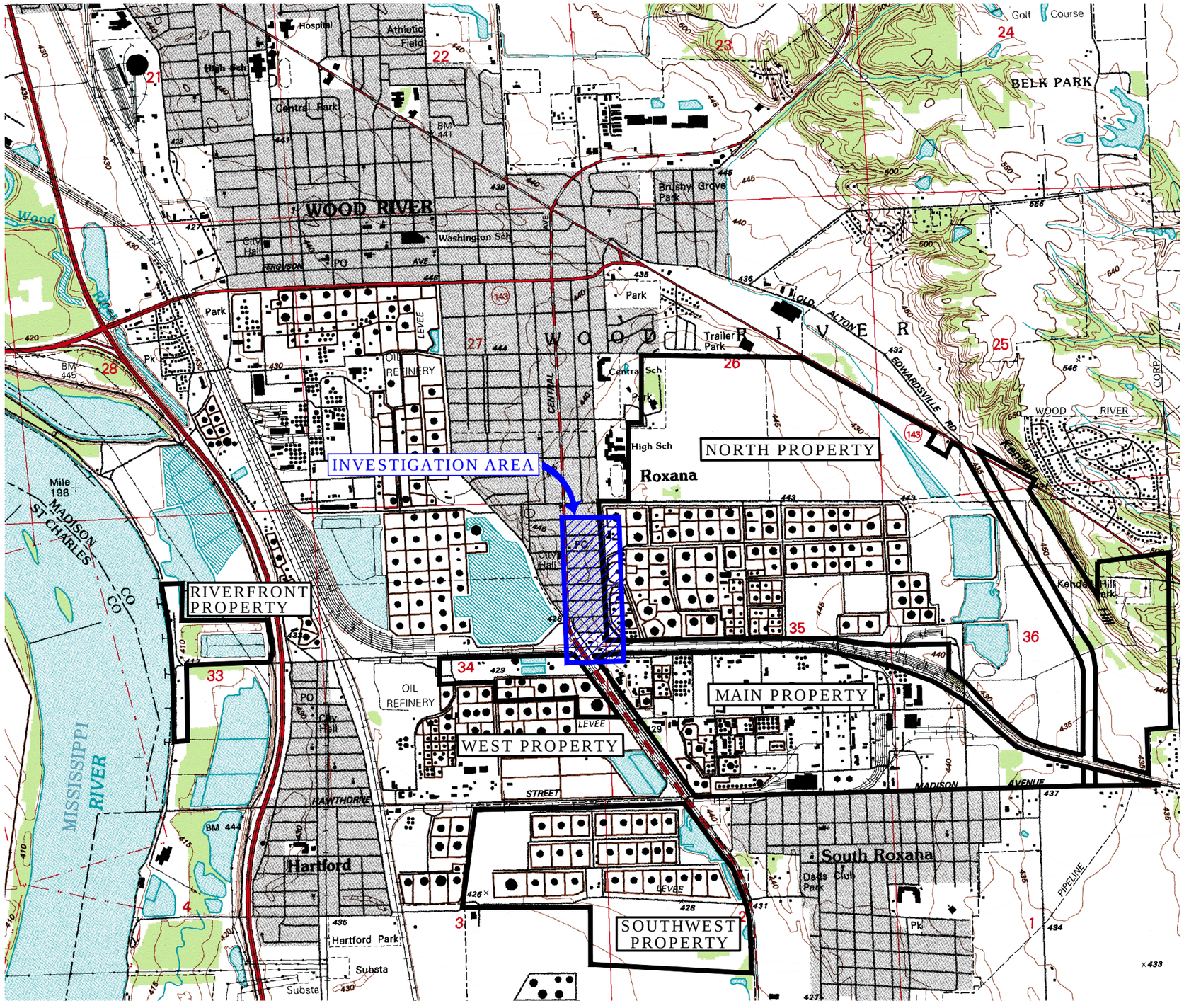
Plan View Model Output – The data input for the plan view model was not limited by depth and was modeled in two dimensions (2D). Regardless of sample depth, benzene concentrations were modeled on a flat horizontal plane.

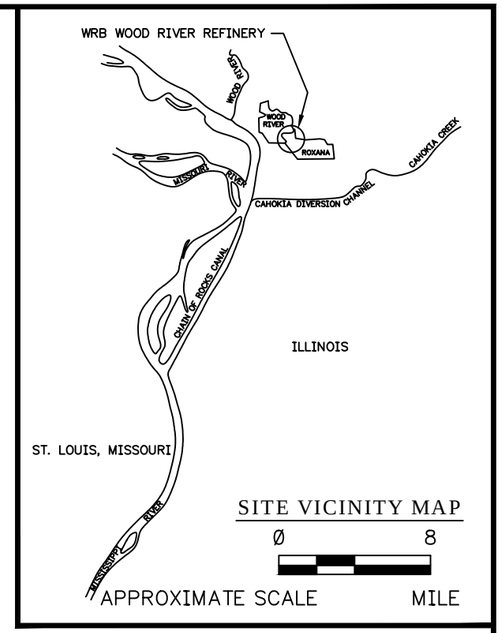
Inward Kriging / Boundary Cut-off – This method of Kriging limits the horizontal extent of data modeling to the extent of the data on the x/y plane in a convex hull.

More simplified, if each soil boring location were represented by a tack pushed into the model's surface and a rubber band stretched around them, the model would be represented by the space inside the rubber band.

Duplicate Samples – Analytical concentrations from duplicate samples collected at the same location and depth were averaged.

Detection Limits – In cases where the lab reported a non-detect, half the value of the lab reporting limit was used in the model. This conservative method is based on the assumption that the sample is likely not free of benzene but the quantity contained is lower than detectable at the analyzed dilution.





LEGEND

- WOOD RIVER REFINERY PROPERTY BOUNDARY
- INVESTIGATION AREA

SOURCE: ELECTRONIC USGS DIGITAL RASTER GRAPHIC 7.5 MINUTE TOPOGRAPHIC MAP OF WOOD RIVER, IL–MO REVISED 1994.

CONTOUR INTERVAL = 5 FT

Ø 2ØØØ

APPROXIMATE SCALE FEET

N

SHELL OIL PRODUCTS US INTERIM GROUNDWATER MONITORING PROGRAM ROXANA, ILLINOIS		PROJECT NO. 6Ø4ØØ249
AECOM		
DRN. BY: djd January 2Ø16 DSGN. BY: djd CHKD. BY: b3	4Q15 Investigation Area Location Map	FIG. NO. 1

File: P:\PROJECTS\ENVIRONMENTAL\SHELL\24563720 ROX 2015\6.0_DELIVERABLES\GROUNDWATER_REPORTING\4Q15\DRAFT REPORT\FIGURES\FIG 1 INVESTIGATION AREA LOCATION MAP.DWG Last edited: 01/08/16 @ 10:57 a.m. @ WCC-ST.LOUIS

File: P:\PROJECTS\ENVIRONMENTAL\SHELL\21563720 ROX 2015\6.0_DELIVERABLES\GROUNDWATER_REPORTING\4Q15\DRAFT REPORT\FIGURES\FIGURE 2 GROUNDWATER MONITORING WELL SAMPLING LOCATIONS.DWG Last edited: JAN. 08, 16 @ 11:10 a.m. by: david_deguire

LEGEND

- GROUNDWATER MONITORING WELL LOCATION SAMPLED
- GROUNDWATER MONITORING WELL LOCATION NOT SAMPLED
- GROUNDWATER PIEZOMETER LOCATION NOT SAMPLED

NOTES:
1. * INDICATES PERCHED GROUNDWATER MONITORING WELLS.

FIRST ST
SECOND ST
THIRD ST
FOURTH ST
FIFTH ST
SIXTH ST
SEVENTH ST
EIGHTH ST
HIGHWAY 111 (S. CENTRAL AVE)
CHAFFER ST
RAND AVENUE
VILLAGE OF ROXANA
WOOD RIVER REFINERY
BP
WEST PROPERTY
MAIN PROPERTY
1986 APPROXIMATE BENZENE RELEASE SITE

PZ-1(101)
PZ-1(85)
MW-9
MW-10
MW-28
MW-27
P-55R
T-1
ROST-4-PZ(A)
ROST-4-PZ(B)
ROST-4-PZ(C)
ROST-4-PZ
P-60-11
ROST-3-MW
ROST-4-PZ(D)
ROST-4-PZ(E)
P-60-S
P-60-12
*P-60-12S
ROST-4-PZ(F)
P-60
A-28
T-24
P-68
ROST-4-PZ(G)
MW-11
P-54
* ROST-5-PZ
P-60-13
*P-60-13S
MW-17
T-12
MW-24
MW-22
* ROST-7-PZ
P-69
A-27
P-70
MW-18
P-74
MW-19
P-59
P-61
* ROST-21-PZ
MW-16
GP-9-PZ
PZ-2(84)
PZ-2(70.5)
* ROST-10-PZ
MW-12
MW-20
P-56
MW-2
MW-1
T-6
MW-26
MW-21
P-57
MW-4
MW-3
P-93A
P-93B
P-93C
P-93D
A-33
P-73
MW-25
MW-23
MW-5
MW-7
MW-8
P-58
P-66
P-75
MW-13
MW-6A
MW-6B
MW-6C
MW-6D
MW-14
P-114R

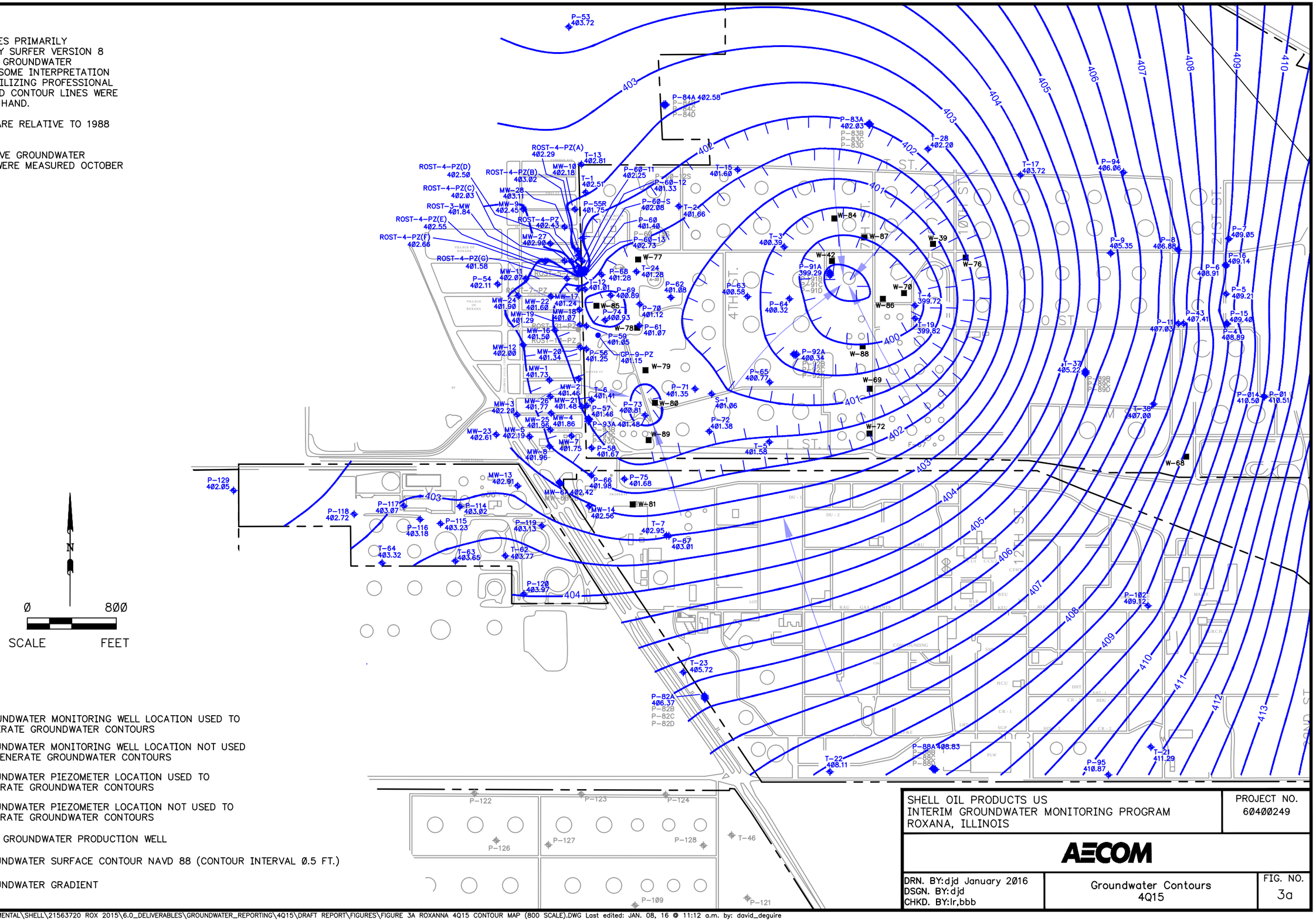
0 200
SCALE FEET
N

SHELL OIL PRODUCTS US INTERIM GROUNDWATER MONITORING PROGRAM ROXANA, ILLINOIS	PROJECT NO. 60400249
AECOM	
DRN. BY:djd January 2016 DSGN. BY:lr CHKD. BY:b3	4Q15 Groundwater Monitoring Well Sampling Locations
	FIG. NO. 2

NOTES:
1. CONTOUR LINES PRIMARILY GENERATED BY SURFER VERSION 8 MODELING OF GROUNDWATER ELEVATIONS. SOME INTERPRETATION WAS DONE UTILIZING PROFESSIONAL JUDGMENT AND CONTOUR LINES WERE MODIFIED BY HAND.

2. ELEVATIONS ARE RELATIVE TO 1988 NGS DATUM.

3. COMPREHENSIVE GROUNDWATER ELEVATIONS WERE MEASURED OCTOBER 1–5, 2Ø15.



SHELL OIL PRODUCTS US INTERIM GROUNDWATER MONITORING PROGRAM ROXANA, ILLINOIS	PROJECT NO. 6Ø4ØØ249
AECOM	
DRN. BY:djd January 2Ø16 DSGN. BY:djd CHKD. BY:lr,bbb	Groundwater Contours 4Q15
	FIG. NO. 3a

File: P:\PROJECTS\ENVIRONMENTAL\SHELL\21563720 ROX 2015\6.0_DELIVERABLES\GROUNDWATER_REPORTING\4Q15\DRAFT REPORT\FIGURES\FIGURE 3A ROXANNA 4Q15 CONTOUR MAP (800 SCALE).DWG Last edited: JAN. 08, 16 @ 11:12 a.m. by: david_deguire

File: P:\PROJECTS\ENVIRONMENTAL\SHELL\21563720 ROX 2015\6.0_DELIVERABLES\GROUNDWATER_REPORTING\4Q15\DRAFT REPORT\FIGURES\FIGURE 3B ROXANA 4Q15 CONTOUR MAP.DWG Last edited: JAN. 08, 16 @ 11:13 a.m. by: david_deguire

LEGEND

- GROUNDWATER MONITORING WELL LOCATION USED TO GENERATE GROUNDWATER CONTOURS
- GROUNDWATER MONITORING WELL LOCATION NOT USED TO GENERATE GROUNDWATER CONTOURS
- GROUNDWATER PIEZOMETER LOCATION USED TO GENERATE GROUNDWATER CONTOURS
- GROUNDWATER PIEZOMETER LOCATION NOT USED TO GENERATE GROUNDWATER CONTOURS
- WRR GROUNDWATER PRODUCTION WELL
- 402 GROUNDWATER SURFACE CONTOUR NAVD 88 (CONTOUR INTERVAL Ø.5 FT)
- GROUNDWATER GRADIENT

NOTES:
1. CONTOUR LINES PRIMARILY GENERATED BY SURFER VERSION 8 MODELING OF GROUNDWATER ELEVATIONS. SOME INTERPRETATION WAS DONE UTILIZING PROFESSIONAL JUDGMENT AND CONTOUR LINES WERE MODIFIED BY HAND.
2. ELEVATIONS ARE RELATIVE TO 1988 NGS DATUM.
3. COMPREHENSIVE GROUNDWATER ELEVATIONS WERE MEASURED OCTOBER 1–5, 2Ø15.

FIRST ST
SECOND ST
THIRD ST
FOURTH ST
FIFTH ST
SIXTH ST
SEVENTH ST
EIGHTH ST
HIGHWAY 111 (S. CENTRAL AVE)
SHAFFER ST
RAND AVENUE
VILLAGE OF ROXANA
NORTH PROPERTY
WOOD RIVER REFINERY
MAIN PROPERTY
WEST PROPERTY
PUBLIC WORKS YARD
BP
1986 APPROXIMATE BENZENE RELEASE SITE

T-1 402.51
PZ-1(101) PZ-1(85)
MW-9 402.45
MW-10 402.18
MW-28 403.11
P-55R 401.75
MW-27 402.90
ROST-4-PZ(A) 402.29
ROST-4-PZ 402.43
ROST-4-PZ(B) 403.02
P-60-11 402.25
ROST-4-PZ(C) 402.03
ROST-4-PZ(D) 402.50
P-60 401.40
ROST-3-MW 401.84
ROST-4-PZ(E) 402.55
P-60-S 402.08
P-60-12 401.33
P-60-12S
P-60-13 402.73
P-60-13S
ROST-4-PZ(F) 402.66
T-24 401.28
P-68 401.28
MW-11 402.07
ROST-4-PZ(G) 401.58
ROST-5-PZ
P-54 402.11
MW-17 401.24
T-12 401.01
MW-22 401.60
P-69 400.89
MW-24 401.90
ROST-7-PZ
MW-18 401.07
P-70 401.12
P-74 400.93
MW-19 401.29
P-61 401.07
P-59 401.05
ROST-21-PZ
MW-16 401.50
GP-9-PZ 401.15
PZ-2(84) PZ-2(70.5)
ROST-10-PZ
P-56 401.25
MW-12 402.00
MW-20 401.34
MW-1 401.73
MW-2 401.46
T-6 401.41
MW-26 401.77
MW-21 401.48
P-57 401.46
MW-4 401.86
P-73 400.81
MW-3 402.20
P-93A 401.48
P-93B
P-93C
P-93D
MW-25 401.96
MW-23 402.61
MW-5 402.19
MW-7 401.75
MW-8 401.96
P-58 401.67
P-66 401.98
P-75 401.68
402.42 MW-6A
MW-6B
MW-6C
MW-6D
MW-13 402.91
P-114R 403.02
MW-14 402.56
402
401
403
W–77
W–78
W–79
W–81
W–85
W–89
A–27
A–28

SHELL OIL PRODUCTS US INTERIM GROUNDWATER MONITORING PROGRAM ROXANA, ILLINOIS		PROJECT NO. 60400249
AECOM		
DRN. BY:djd January 2016 DSGN. BY:lr CHKD. BY:bbb	Groundwater Contours 4Q15– West Fenceline	FIG. NO. 3b

Ø 200 SCALE FEET

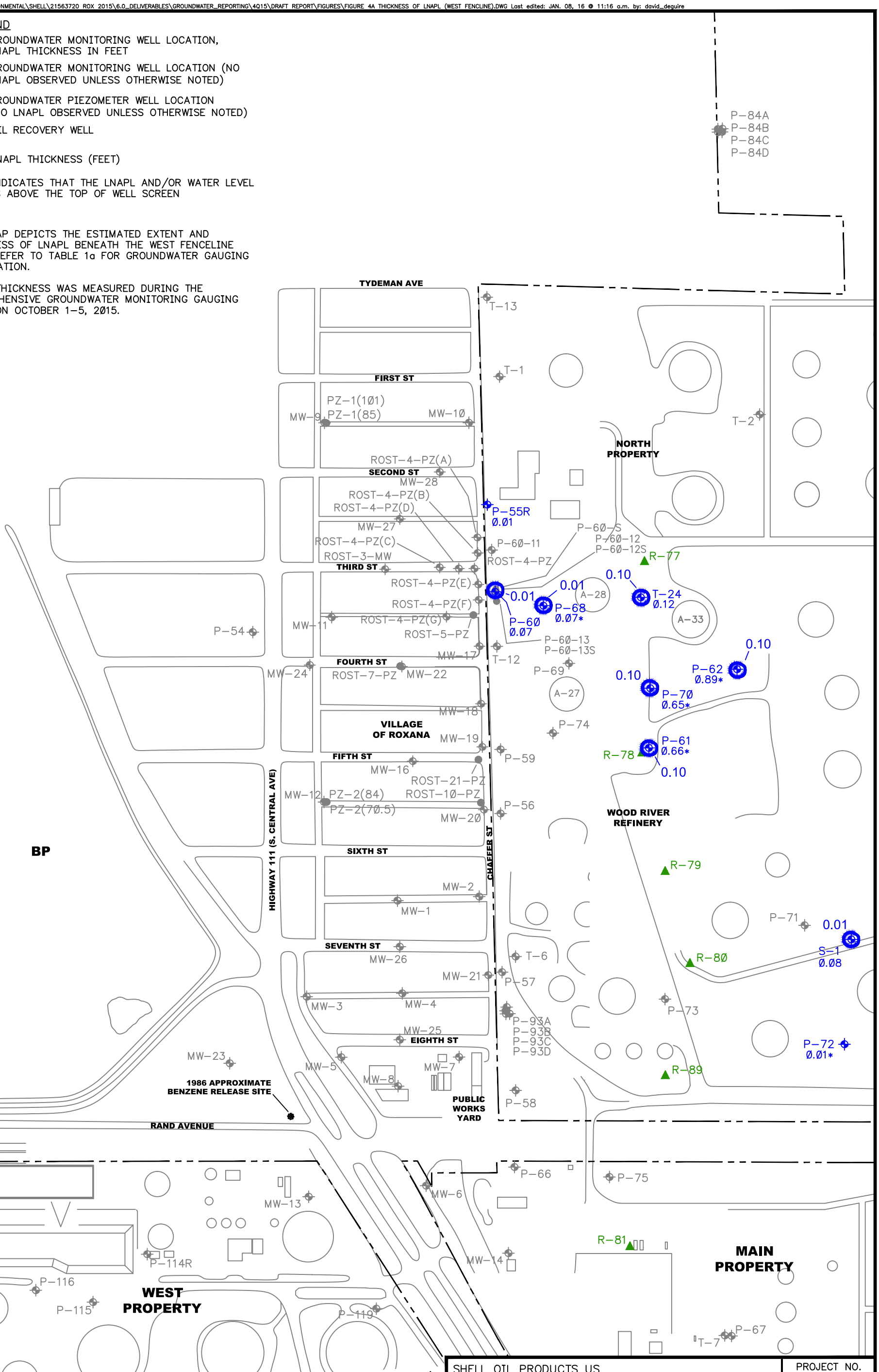
N

File: P:\PROJECTS\ENVIRONMENTAL\SHELL\21563720 ROX 2015\6.0_DELIVERABLES\GROUNDWATER_REPORTING\4Q15\DRAFT REPORT\FIGURES\FIGURE 4A THICKNESS OF LNAPL (WEST FENCLINE).DWG Last edited: JAN. 08, 16 @ 11:16 a.m. by: david_deguire

LEGEND

- GROUNDWATER MONITORING WELL LOCATION, LNAPL THICKNESS IN FEET
- GROUNDWATER MONITORING WELL LOCATION (NO LNAPL OBSERVED UNLESS OTHERWISE NOTED)
- GROUNDWATER PIEZOMETER WELL LOCATION (NO LNAPL OBSERVED UNLESS OTHERWISE NOTED)
- OIL RECOVERY WELL
- LNAPL THICKNESS (FEET)
- * INDICATES THAT THE LNAPL AND/OR WATER LEVEL IS ABOVE THE TOP OF WELL SCREEN

NOTE:
1. THIS MAP DEPICTS THE ESTIMATED EXTENT AND THICKNESS OF LNAPL BENEATH THE WEST FENCELINE AREA. REFER TO TABLE 1a FOR GROUNDWATER GAUGING INFORMATION.
2. LNAPL THICKNESS WAS MEASURED DURING THE COMPREHENSIVE GROUNDWATER MONITORING GAUGING EVENT ON OCTOBER 1–5, 2015.



SHELL OIL PRODUCTS US INTERIM GROUNDWATER MONITORING PROGRAM ROXANA, ILLINOIS	PROJECT NO. 6Ø4ØØ249
AECOM	
DRN. BY: djd January 2Ø16 DSGN. BY: lr CHKD. BY: bbb	4Q15 Thickness of LNAPL – West Fenceline
	FIG. NO. 4a

LEGEND

- GROUNDWATER MONITORING WELL LOCATION GAUGED, LNAPL THICKNESS IN FEET
- GROUNDWATER MONITORING WELL LOCATION (NO LNAPL OBSERVED UNLESS OTHERWISE NOTED)
- GROUNDWATER PIEZOMETER WELL LOCATION (NO LNAPL OBSERVED UNLESS OTHERWISE NOTED)
- OIL RECOVERY WELL
- LNAPL THICKNESS (FEET)

* INDICATES THAT THE LNAPL AND/OR WATER LEVEL IS ABOVE THE TOP OF WELL SCREEN

NOTES:
1. THIS MAP DEPICTS THE ESTIMATED EXTENT AND THICKNESS OF LNAPL BENEATH THE WRR AREA. REFER TO TABLE 1a FOR GROUNDWATER GAUGING INFORMATION.
2. LNAPL THICKNESS WAS MEASURED DURING A COMPREHENSIVE GROUNDWATER MONITORING GAUGING EVENT ON OCTOBER 1–5, 2015.

NORTH PROPERTY

BP PROPERTY

VILLAGE OF ROXANA

SHELL OIL COMPANY PROPERTY

WEST PROPERTY

VILLAGE OF HARTFORD

VALERO PROPERTY

MAIN PROPERTY

ILLINOIS TERMINAL RAILROAD

RAND AVE.

T ST.

O ST.

M ST.

L ST.

R ST.

10TH ST.

11TH ST.

12TH ST.

21ST ST.

22ND ST.

SCALE 0 800 FEET

N

SHELL OIL PRODUCTS US INTERIM GROUNDWATER MONITORING PROGRAM ROXANA, ILLINOIS		PROJECT NO. 60400249
AECOM		
DRN. BY: djd January 2016 DSGN. BY: lr CHKD. BY: bbb	4Q15 Thickness of LNAPL	FIG. NO. 4b

File: P:\PROJECTS\ENVIRONMENTAL\SHELL\60249720 ROX 2015\6.0 DELIVERABLES\GROUNDWATER REPORTING\4Q15\DRAFT REPORT\FIGURES\FIGURE 4b THICKNESS OF LNAPL (REFINERY).DWG Last edited: JAN. 08, 16 @ 11:19 a.m. by: david.deguire

File: P:\PROJECTS\ENVIRONMENTAL\SHELL\21563720 ROX 2015\6.0 DELIVERABLES\GROUNDWATER REPORTING\4Q15\DRAFT REPORT\FIGURES\FIGURE 5 4Q15 GROUNDWATER ANALYTICAL RESULTS SUMMARY.DWG Last edited: JAN. 08, 16 @ 11:24 a.m. by: david dequire

LEGEND

- GROUNDWATER MONITORING WELL SAMPLING LOCATION
- GROUNDWATER MONITORING WELL LOCATION NOT SAMPLED
- GROUNDWATER PIEZOMETER LOCATION NOT SAMPLED

NOTES:

1. PER DIRECTION FROM IEPA, ANALYTICAL RESULTS ARE SCREENED AGAINST CRITERIA OUTLINED IN THE WRR RCRA PART B PERMIT.
2. GROUNDWATER CLASS I SCREENING CRITERIA.

Analyte	Screening Criteria (mg/L)
Benzene	0.005
Ethylbenzene	0.7
Naphthalene	0.14
Toluene	1.0
1,3,5-Trimethylbenzene	0.07
bis(2-Ethylhexyl)phthalate	0.006
Phenol	0.1

3. J = THE TARGET ANALYTE DETECTED BELOW THE REPORTING LIMIT AND THE RESULT IS ESTIMATED.
4. MULTIPLE RESULTS (e.g., 1130/984) INDICATE DUPLICATE SAMPLES OR CONFIRMATION SAMPLES.
5. WELLS IDENTIFIED IN BLUE WITH NO DATA BOX INDICATE THE RESULTS DID NOT EXCEED SCREENING CRITERIA.
6. WELLS P-55R AND P-68 WERE NOT SAMPLED DURING 4Q15 DUE TO THE PRESENCE OF LNAPL.
7. GROUNDWATER PIEZOMETERS ROST-5-PZ, ROST-7-PZ, ROST-19-PZ AND ROST-21-PZ WERE NOT SAMPLED DURING 4Q15 DUE TO LACK OF WATER OR INSUFFICIENT AMOUNTS OF WATER TO ALLOW SAMPLING PER SOP.

MW-9 MW-10 MW-28 MW-27 MW-11 MW-24 MW-22 MW-18 MW-19 MW-16 MW-12 MW-20 MW-1 MW-2 MW-26 MW-21 MW-4 MW-3 MW-25 MW-23 MW-5 MW-7 MW-8 MW-13 MW-6A MW-6B MW-6C MW-6D MW-14 MW-17

ROST-4-PZ(A) ROST-4-PZ(B) ROST-4-PZ(C) ROST-4-PZ ROST-3-MW ROST-4-PZ(D) ROST-4-PZ(E) ROST-4-PZ(F) ROST-4-PZ(G) ROST-5-PZ ROST-7-PZ ROST-21-PZ ROST-10-PZ

P-55R P-54 P-60-S P-60-12 P-60-12S P-60 P-68 P-60-13 P-60-13S T-12 P-69 P-70 P-74 P-59 P-61 P-56 P-57 P-93A P-93B P-93C P-93D P-58 P-66 P-114R P-73 P-75 T-6 T-24

A–28 A–33

SECOND ST
THIRD ST
FOURTH ST
FIFTH ST
SIXTH ST
SEVENTH ST
EIGHTH ST
RAND AVENUE

HIGHWAY 111 (S. CENTRAL AVE)
CHAFEER ST

NORTH PROPERTY
WOOD RIVER REFINERY
VILLAGE OF ROXANA
BP
WEST PROPERTY
MAIN PROPERTY

1986 APPROXIMATE BENZENE RELEASE SITE

Sample Location	ROST-4-PZ(C)
Sampled 10/12/15	Result (mg/L)
Benzene	0.071

Sample Location	MW-11
Sampled 10/8/15	Result (mg/L)
bis(2-Ethylhexyl)phthalate	0.0068 J

Sample Location	MW-22
Sampled 10/14/15	Result (mg/L)
Benzene	0.8
Ethylbenzene	1.6
Naphthalene	0.18
1,3,5-Trimethylbenzene	0.11

Sample Location	T-12
Sampled 10/15/15	Result (mg/L)
Benzene	2.5

Sample Location	P-74
Sampled 10/14/15	Result (mg/L)
Benzene	1.2

Sample Location	P-59
Sampled 10/15/15	Result (mg/L)
Benzene	7.2
Ethylbenzene	1.1
1,3,5-Trimethylbenzene	0.1

Sample Location	P-56
Sampled 10/14/15	Result (mg/L)
Benzene	0.033

Sample Location	MW-2
Sampled 10/12/15	Result (mg/L)
Benzene	0.035
1,3,5-Trimethylbenzene	0.09

Sample Location	P-93A	P-93B	P-93C	P-93D
Sampled 10/14 & 10/15/15	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)
Benzene	260 / 250	1200	0.011	15
Phenol		0.18		

Sample Location	P-57
Sampled 10/15/15	Result (mg/L)
Benzene	140
Toluene	1.8
Phenol	0.87

Sample Location	MW-25
Sampled 10/19/15	Result (mg/L)
Benzene	11

Sample Location	MW-7
Sampled 10/19/15	Result (mg/L)
Benzene	1000 / 990
Phenol	0.13 / 0.12

Sample Location	MW-5
Sampled 10/12/15	Result (mg/L)
Benzene	0.0088

Sample Location	P-58
Sampled 10/16/15	Result (mg/L)
Benzene	430
Phenol	0.23

Sample Location	MW-8
Sampled 10/19/15	Result (mg/L)
Benzene	580
Phenol	0.21

Sample Location	P-66
Sampled 10/13/15	Result (mg/L)
Benzene	0.0094

0 200
SCALE FEET

N

SHELL OIL PRODUCTS US
INTERIM GROUNDWATER MONITORING PROGRAM
ROXANA, ILLINOIS

PROJECT NO. 60400249

AECOM

DRN. BY: djd January 2016
DSGN. BY: lr
CHKD. BY: bbb

4Q15
Groundwater Monitoring Well
Analytical Exceedances

FIG. NO. 5

File: P:\PROJECTS\ENVIRONMENTAL\SHELL\21563720 ROX 2015\6.0_DELIVERABLES\GROUNDWATER_REPORTING\4Q15\DRAFT REPORT\FIGURES\FIGURE 6 DISSOLVED PHASE BENZENE CONCENTRATIONS IN GROUNDWATER.DWG Last edited: JAN. 08, 16 @ 11:31 a.m. by: david_deguire

LEGEND

- GROUNDWATER MONITORING WELL SAMPLING LOCATION
- GROUNDWATER MONITORING WELL LOCATION NOT SAMPLED
- GROUNDWATER MONITORING WELL, LNAPL THICKNESS IN FEET
- GROUNDWATER PIEZOMETER LOCATION NOT SAMPLED
- GROUNDWATER PIEZOMETER, LNAPL THICKNESS IN FEET
- LNAPL THICKNESS (FEET)
- * INDICATES THAT THE LNAPL AND/OR WATER LEVEL IS ABOVE THE TOP OF WELL SCREEN
- EXTENT OF EVS MODEL DATA SET
- 50.0 GROUNDWATER CONCENTRATION BENZENE (mg/L)

NOTES:

1. IMAGES GENERATED UTILIZING CTECH ENVIRONMENTAL VISUALIZATION SYSTEM MODELING SOFTWARE. CONCENTRATIONS BETWEEN KNOWN DATA POINTS (E.G. GROUNDWATER MONITORING WELLS) ARE INTERPOLATIONS AND EXTRAPOLATIONS OF THE MEASURED DATA. SOME INTERPRETATION WAS COMPLETED UTILIZING PROFESSIONAL JUDGEMENT AND CONTOUR LINES WERE MODIFIED BY HAND.
2. ALL RESULTS SHOWN IN mg/L.
3. ANALYTICAL REPORTING LIMITS ARE SHOWN FOR SAMPLES WITH NON-DETECT RESULTS (e.g., <Ø.ØØ1 mg/L).
4. J = THE TARGET ANALYTE WAS DETECTED BELOW THE REPORTING LIMIT AND THE RESULT IS ESTIMATED.
5. NON-DETECT VALUES ARE MODELED AT HALF THE REPORTING LIMIT.
6. MULTIPLE RESULTS (e.g. 1ØØØ/99Ø) INDICATE DUPLICATE SAMPLES OR CONFIRMATION SAMPLES.
7. CONTOUR LINES IN AREA OF P-55R ADJUSTED BASED ON AVAILABLE 4Q15 AND HISTORICAL ANALYTICAL DATA FROM WELLS IN THE AREA.

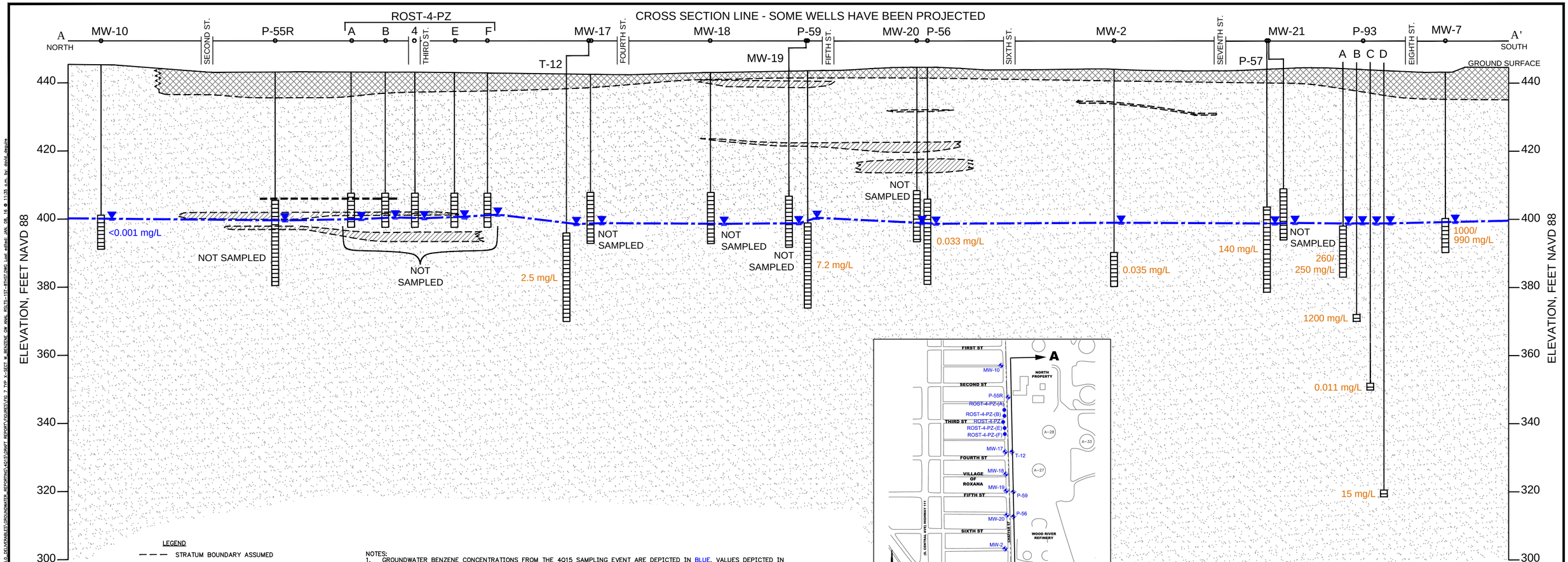
LNAPL THICKNESS WAS MEASURED DURING THE COMPREHENSIVE GROUNDWATER MONITORING GAUGING EVENT ON OCTOBER 1-5, 2Ø15. REFER TO TABLE 1a FOR GROUNDWATER GAUGING INFORMATION.

SECOND ST
THIRD ST
FOURTH ST
FIFTH ST
SIXTH ST
SEVENTH ST
EIGHTH ST
RAND AVENUE
HIGHWAY 111 (S. CENTRAL AVE)
CHAFFER ST
VILLAGE OF ROXANA
BP
NORTH PROPERTY
WOOD RIVER REFINERY
MAIN PROPERTY
WEST PROPERTY
PUBLIC WORKS YARD
1986 APPROXIMATE BENZENE RELEASE SITE

PZ-1(1Ø1) PZ-1(85) MW-9 <Ø.ØØ1
MW-1Ø <Ø.ØØ1
MW-28 <Ø.ØØ1/<Ø.ØØ1
MW-27 <Ø.ØØ1
P-55R Ø.Ø1
P-6Ø-11
ROST-4-PZ(A)
ROST-4-PZ(B)
ROST-4-PZ(C) Ø.Ø71
ROST-3-MW <Ø.ØØ1
ROST-4-PZ
P-6Ø-S
ROST-4-PZ(D)
ROST-4-PZ(E)
ROST-4-PZ(F)
P-6Ø Ø.Ø7
0.01
P-68 Ø.Ø7*
A-28
0.10
T-24 Ø.12
MW-11 <Ø.ØØ1
ROST-4-PZ(G)
ROST-5-PZ
P-54 <Ø.ØØ1
MW-17
T-12 2.5
P-69
MW-24 <Ø.ØØ1
ROST-3-PZ
MW-22 Ø.8
0.5
0.10
P-7Ø Ø.65*
A-27
MW-18
0.005
0.05
5.0
P-74 1.2
MW-19
P-59 7.2
0.10
P-61 Ø.66*
FIFTH ST
MW-16 <Ø.ØØ1
ROST-2-PZ
NORTH PROPERTY
PZ-2(84) PZ-2(7Ø.5)
MW-12 <Ø.ØØ1/<Ø.ØØ1
ROST-1Ø-PZ
P-56 Ø.Ø33
MW-2Ø
MW-1 <Ø.ØØ1
MW-2 Ø.Ø35
MW-26 <Ø.ØØ1
T-6
MW-21
P-57 14Ø
MW-3 <Ø.ØØ1
MW-4 Ø.ØØ36
P-93A 26Ø/25Ø
P-93B 12ØØ
P-93C Ø.Ø11
P-93D 15
500.0
MW-25 11
MW-7 1ØØØ/99Ø
MW-5 Ø.ØØ88
MW-8 58Ø
P-58 43Ø
MW-23 <Ø.ØØ1
50.0
5.0
0.5
0.05
0.005
P-66 Ø.ØØ94
P-75
MW-13 <Ø.ØØ1
MW-6A <Ø.ØØ1
MW-6B <Ø.ØØ1
MW-6C <Ø.ØØ1
MW-6D <Ø.ØØ1
P-114R <Ø.ØØ1
MW-14 <Ø.ØØ1
P-116
P-115

Ø 2ØØ
SCALE FEET
N

SHELL OIL PRODUCTS US INTERIM GROUNDWATER MONITORING PROGRAM ROXANA, ILLINOIS	PROJECT NO. 6Ø4ØØ249
AECOM	
DRN. BY: djd January 2Ø16 DSGN. BY:nm/lr CHKD. BY:bbb	4Q15 Dissolved Phase Benzene Concentrations in Groundwater FIG. NO. 6



KEYMAP
NOT TO SCALE

LEGEND

- STRATUM BOUNDARY ASSUMED
- FILL PROJECTED BETWEEN POINTS
- CLAY PROJECTED BETWEEN POINTS (INCLUDES SILTY CLAY AND SANDY CLAY)
- SAND PROJECTED BETWEEN POINTS (INCLUDES SILTY SAND AND CLAYEY SAND)
- WELL SCREEN
- WATER LEVEL
- POTENTIOMETRIC SURFACE – ESTIMATED

NOTES:

1. GROUNDWATER BENZENE CONCENTRATIONS FROM THE 4Q15 SAMPLING EVENT ARE DEPICTED IN BLUE. VALUES DEPICTED IN ORANGE EXCEED BENZENE SCREENING CRITERION (0.005 mg/L).
2. GROUNDWATER ELEVATIONS SHOWN ON THIS CROSS-SECTION ARE BASED ON GROUNDWATER GAUGING DATA COLLECTED OCTOBER 1-5, 2015.
3. THIS GEOLOGIC CROSS-SECTION IS PRIMARILY BASED ON THE INTERPRETATION OF CPT DATA COLLECTED BY URS DURING THE 2006 AND 2009 INVESTIGATION ACTIVITIES. BORING LOGS DEVELOPED DURING OTHER DRILLING TECHNIQUES (E.G. AUGER AND GEOPROBE) WERE USED TO SUPPLEMENT CPT DATA.
4. THE DEPTH AND THICKNESS OF INDIVIDUAL STRATA DEPICTED MAY BE BASED ON CPT LOGS GENERATED AT NEARBY LOCATIONS. THEREFORE, WELL SCREENS MAY APPEAR TO BE PARTIALLY WITHIN CLAY LAYERS OR SHALLOW/DEEPER WITHIN A PERMEABLE STRATUM THAN ACTUAL CONDITIONS DUE TO MAP PROJECTIONS.
5. HISTORIC BORING LOG IS NOT AVAILABLE FOR T-12.

0 20
VERTICAL SCALE FEET

0 100
HORIZONTAL SCALE FEET

SHELL OIL PRODUCT US INTERIM GROUNDWATER MONITORING PROGRAM ROXANA, ILLINOIS	PROJECT NO. 60400249
AECOM	
DRN. BY: djd January 2016 DSGN. BY: lr CHKD. BY: bbb	Cross-Section of Benzene 4Q15 Groundwater Analytical Results- Chaffer Street
	FIG. NO. 7

CROSS SECTION LINE - SOME WELLS HAVE BEEN PROJECTED

WEST
B

EAST
B'

MW-6D
MW-6C
MW-6B
MW-6A
SVE-27
MW-7
P-93A
P-93B
P-93C
P-93D
T-6

(S. CENTARL AVE)
HIGHWAY 111

EIGHTH ST

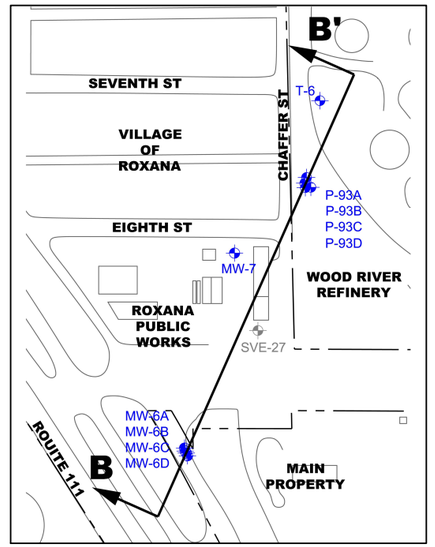
SEVENTH ST

GROUND SURFACE

ELEVATION, FEET NAVD 88

440
420
400
380
360
340
320
300

<0.001 mg/L
<0.001 mg/L
<0.001 mg/L
<0.001 mg/L
1000/
990 mg/L
260/
250 mg/L
1200 mg/L
0.011 mg/L
15 mg/L
NOT SAMPLED



KEYMAP
NOT TO SCALE

LEGEND

- STRATUM BOUNDARY ASSUMED
- FILL PROJECTED BETWEEN POINTS
- CLAY PROJECTED BETWEEN POINTS (INCLUDES SILTY CLAY AND SANDY CLAY)
- SAND PROJECTED BETWEEN POINTS (INCLUDES SILTY SAND AND CLAYEY SAND)
- SILT PROJECTED BETWEEN POINTS
- SHALE
- WELL SCREEN
- WATER LEVEL
- POTENTIOMETRIC SURFACE – ESTIMATED

Ø 2Ø
VERTICAL SCALE FEET

Ø 1ØØ
HORIZONTAL SCALE FEET

NOTES:
1. GROUNDWATER BENZENE CONCENTRATIONS FROM THE 4Q15 SAMPLING EVENT ARE DEPICTED IN BLUE. VALUES DEPICTED IN ORANGE EXCEED BENZENE SCREENING CRITERION (Ø.ØØ5 mg/L).
2. GROUNDWATER ELEVATIONS SHOWN ON THIS CROSS-SECTION ARE BASED ON GROUNDWATER GAUGING DATA COLLECTED OCTOBER 1-5, 2Ø15.
3. THIS GEOLOGIC CROSS-SECTION IS PRIMARILY BASED ON THE INTERPRETATION OF CPT DATA COLLECTED BY URS DURING THE 2ØØ6 AND 2ØØ9 INVESTIGATION ACTIVITIES. BORING LOGS DEVELOPED DURING OTHER DRILLING TECHNIQUES (E.G. AUGER AND GEOPROBE) WERE USED TO SUPPLEMENT CPT DATA.
4. THE DEPTH AND THICKNESS OF INDIVIDUAL STRATA DEPICTED MAY BE BASED ON CPT LOGS GENERATED AT NEARBY LOCATIONS. THEREFORE, WELL SCREENS MAY APPEAR TO BE PARTIALLY WITHIN CLAY LAYERS OR SHALLOW/DEEPER WITHIN A PERMEABLE STRATUM THAN ACTUAL CONDITIONS DUE TO MAP PROJECTIONS.
5. LITHOLOGICAL INFORMATION FROM SVE-27 WAS OBTAINED FROM BORING LOG TO SUPPLEMENT SITE GEOLOGY ONLY.
6. HISTORIC BORING LOG IS NOT AVAILABLE FOR T-6.

SHELL OIL PRODUCT US INTERIM GROUNDWATER MONITORING PROGRAM ROXANA, ILLINOIS	PROJECT NO. 6Ø4ØØ249
AECOM	
DRN. BY: djd January 2Ø16 DSGN. BY: lr CHKD. BY: wmp	Cross-Section of Benzene 4Q15 Groundwater Analytical Results- Roxana Public Works Yard
	FIG. NO. 8

File: P:\PROJECTS\ENVIRONMENTAL\SHELL\215637Ø ROX 2Ø15\6.Ø_DELIVERABLES\GROUNDWATER_REPORTING\4Q15\DRAFT REPORT\FIGURES\FIG 8 TYP X-SECT W_BENZENE GW ANAL RSLTS-HWY111-CHAFFER.DWG Last edited: JAN. Ø8, 16 @ 11:4Ø a.m. by: david_deguire

Appendix A.
Monitoring Well Replacement Documentation (P-114R)

SEE LAST PAGE OF TABLE FOR NOTES

APPENDIX A
SUMMARY OF SOIL ANALYTICAL DETECTIONS
P-114R

Location	Sample ID	Depth	Sample Date	Hydrocarbons			SVOCs																	
				TPH-GRO (VOA)			1,2-Diphenylhydrazine			1-Methylnaphthalene			2,4,5-Trichlorophenol			2,4,6-Trichlorophenol			2,4-Dichlorophenol			2,4-Dimethylphenol			2,4-Dinitrophenol		
				Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
Screening Criteria										130 [2]			270 [1]			0.2 [1]			1 [1]			9 [1]			0.2 [1]		
P-114	P114-5-6-091415	5 - 6 ft	9/14/2015	25.5		J	< 0.35	U		0.0754	J		< 0.69	U		< 0.69	U		< 0.69	U		< 0.69	U		< 1.4	U	
P-114	P114-5-6-091415-DUP	5 - 6 ft	9/14/2015	134		J	< 0.34	U		0.0807	J		< 0.68	U		< 0.68	U		< 0.68	U		< 0.68	U		< 1.4	U	
P-114	P114-20-22-091515	20 - 22 ft	9/15/2015	1.79	J		< 0.25	U		< 0.1	U		< 0.5	U		< 0.5	U		< 0.5	U		< 0.5	U		< 1	U	

Location	Sample ID	Depth	Sample Date	SVOCs																			
				2,4-Dinitrotoluene			2,6-Dinitrotoluene			2-Chloronaphthalene			2-Chlorophenol			2-Methylnaphthalene			2-Methylphenol (o-Cresol)			2-Nitroaniline			2-Nitrophenol		
				Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
Screening Criteria				0.0008 [1]			0.0007 [1]			49 [2]			4 [1]			1.9 [2]			15 [1]			0.7 [2]					
P-114	P114-5-6-091415	5 - 6 ft	9/14/2015	< 0.69	U		< 0.69	U		< 0.35	U		< 0.35	U		< 0.14	U		< 0.69	U		< 0.69	U		< 0.69	U	
P-114	P114-5-6-091415-DUP	5 - 6 ft	9/14/2015	< 0.68	U		< 0.68	U		< 0.34	U		< 0.34	U		< 0.14	U		< 0.68	U		< 0.68	U		< 0.68	U	
P-114	P114-20-22-091515	20 - 22 ft	9/15/2015	< 0.5	U		< 0.5	U		< 0.25	U		< 0.25	U		< 0.1	U		< 0.5	U		< 0.5	U		< 0.5	U	

Location	Sample ID	Depth	Sample Date	SVOCs																			
				3 & 4-Methylphenol (m & p-Cresol)			3,3'-Dichlorobenzidine			3-Nitroaniline			4,6-Dinitro-2-methylphenol (4,6-dinitro-o-cresol)			4-Bromophenyl phenyl ether			4-Chloro-3-methylphenol (p-Chloro-m-cresol)			4-Chlorophenyl phenyl ether			4-Nitrophenol		
				Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
Screening Criteria							0.007 [1]																				
P-114	P114-5-6-091415	5 - 6 ft	9/14/2015	< 0.69	U		< 0.35	U		< 0.69	U		< 0.69	U		< 0.35	U		< 0.69	U		< 0.35	U		< 1.4	U	
P-114	P114-5-6-091415-DUP	5 - 6 ft	9/14/2015	< 0.68	U		< 0.34	U		< 0.68	U		< 0.68	U		< 0.34	U		< 0.68	U		< 0.34	U		< 1.4	U	
P-114	P114-20-22-091515	20 - 22 ft	9/15/2015	< 0.5	U		< 0.25	U		< 0.5	U		< 0.5	U		< 0.25	U		< 0.5	U		< 0.25	U		< 1	U	

Location	Sample ID	Depth	Sample Date	SVOCs																			
				4-Nitrophenylamine			Acenaphthene			Acenaphthylene			Aniline			Anthracene			Benzo(a)anthracene			Benzo(a)pyrene			Benzo(b)fluoranthene		
				Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
Screening Criteria				0.14 [2]			570 [1]			85 [2]			0.064 [2]			12000 [1]			0.9 [1]			0.09 [1]			0.9 [1]		
P-114	P114-5-6-091415	5 - 6 ft	9/14/2015	< 0.69	U		0.0278			0.0058	J		< 0.69	U		0.0118			0.0109			0.0051	J		0.005	J	
P-114	P114-5-6-091415-DUP	5 - 6 ft	9/14/2015	< 0.68	U		0.0256			0.0066	J		< 0.68	U		0.0101			0.0101			0.0055	J		0.005	J	
P-114	P114-20-22-091515	20 - 22 ft	9/15/2015	< 0.5	U		< 0.005	U		< 0.005	U		< 0.5	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	

Location	Sample ID	Depth	Sample Date	SVOCs																			
				Benzo(g,h,i)perylene			Benzo(k)fluoranthene			Benzoic Acid			Benzyl alcohol			bis(2-Chloroethoxy)methane			bis(2-Chloroethyl)ether			bis(2-chloroisopropyl)ether			bis(2-Ethylhexyl)phthalate		
				Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
Screening Criteria				2300 [2]			9 [1]			400 [1]			3 [2]						0.0004 [1]						46 [1]		
P-114	P114-5-6-091415	5 - 6 ft	9/14/2015	0.0038	J		< 0.0069	U		< 0.69	U		< 0.69	U		< 0.35	U		< 0.35	U		< 0.35	U		< 0.35	U	
P-114	P114-5-6-091415-DUP	5 - 6 ft	9/14/2015	0.0038	J		< 0.0068	U		< 0.68	U		< 0.68	U		< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U	
P-114	P114-20-22-091515	20 - 22 ft	9/15/2015	< 0.005	U		< 0.005	U		< 0.5	U		< 0.5	U		< 0.25	U		< 0.25	U		< 0.25	U		< 0.25	U	

Location	Sample ID	Depth	Sample Date	SVOCs																			
				Butyl benzyl phthalate			Chrysene (1,2-Benzphenanthracene)			Dibenzo(a,h)anthracene			Dibenzofuran			Diethyl phthalate			Dimethyl phthalate			Di-n-butyl phthalate			Di-n-octyl phthalate		
				Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
Screening Criteria				930 [1]			88 [1]			0.09 [1]			3 [2]			470 [1]						2300 [1]			1600 [1]		
P-114	P114-5-6-091415	5 - 6 ft	9/14/2015	< 0.35	U		0.0301			< 0.0069	U		< 0.14	U		< 0.35	U		< 0.35	U		< 0.35	U		< 0.35	U	
P-114	P114-5-6-091415-DUP	5 - 6 ft	9/14/2015	< 0.34	U		0.0262			< 0.0068	U		< 0.14	U		< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U	
P-114	P114-20-22-091515	20 - 22 ft	9/15/2015	< 0.25	U		< 0.005	U		< 0.005	U		< 0.1	U		< 0.25	U		< 0.25	U		< 0.25	U		< 0.25	U	

Location	Sample ID	Depth	Sample Date	SVOCs																			
				Fluoranthene			Fluorene			Hexachlorobenzene			Hexachlorocyclopentadiene			Hexachloroethane			Indeno(1,2,3-cd)pyrene			Isophorone (3,5,5-trimethyl-2-cyclohexene-1-one)			Nitrobenzene		
				Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
Screening Criteria				3100 [1]			560 [1]			0.4 [1]			10 [1]			0.5 [1]			0.9 [1]			8 [1]			0.1 [1]		
P-114	P114-5-6-091415	5 - 6 ft	9/14/2015	0.0066	J		0.0358			< 0.35	U		< 0.69	U		< 0.35	U		< 0.0069	U		< 0.35	U		< 0.35	U	
P-114	P114-5-6-091415-DUP	5 - 6 ft	9/14/2015	0.0067	J		0.0294			< 0.34	U		< 0.68	U		< 0.34	U		< 0.0068	U		< 0.34	U		< 0.34	U	
P-114	P114-20-22-091515	20 - 22 ft	9/15/2015	< 0.005	U		< 0.005	U		< 0.25	U		< 0.5	U		< 0.25	U		< 0.005	U		< 0.25	U		< 0.25	U	

SEE LAST PAGE OF TABLE FOR NOTES

APPENDIX A
SUMMARY OF SOIL ANALYTICAL DETECTIONS
P-114R

				SVOCs																			
Location	Sample ID	Depth	Sample Date	N-Nitrosodimethylamine			N-Nitrosodi-n-propylamine			N-Nitrosodiphenylamine			p-Chloroaniline			Pentachlorophenol			Phenanthrene			Phenol			Pyrene		
				Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
Screening Criteria				0.000007 [2]			0.00005 [1]			1 [1]			0.7 [1]			0.03 [1]			210 [2]			100 [1]			2300 [1]		
P-114	P114-5-6-091415	5 - 6 ft	9/14/2015	< 0.35	U		< 0.35	U		< 0.35	U		< 0.69	U		< 0.69	U		0.0117			< 0.35	U		0.0335		
P-114	P114-5-6-091415-DUP	5 - 6 ft	9/14/2015	< 0.34	U		< 0.34	U		< 0.34	U		< 0.68	U		< 0.68	U		0.0065	J		< 0.34	U		0.0279		
P-114	P114-20-22-091515	20 - 22 ft	9/15/2015	< 0.25	U		< 0.25	U		< 0.25	U		< 0.5	U		< 0.5	U		< 0.005	U		< 0.25	U		< 0.005	U	

				SVOCs			VOCs																
Location	Sample ID	Depth	Sample Date	Pyridine			1,1,1,2-Tetrachloroethane			1,1,1-Trichloroethane (Methyl chloroform)			1,1,2,2-Tetrachloroethane			1,1,2-Trichloroethane			1,1-Dichloroethane			1,1-Dichloroethene			1,1-Dichloropropene		
				Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
Screening Criteria				78 [2]			3.4 [2]			2 [1]			0.0035 [2]			0.02 [1]			23 [1]			0.06 [1]					
P-114	P114-5-6-091415	5 - 6 ft	9/14/2015	< 0.69	U		< 0.0069	U		< 0.0028	U		< 0.0028	U		< 0.0028	U		< 0.0028	U		< 0.0028	U		< 0.0069	U	
P-114	P114-5-6-091415-DUP	5 - 6 ft	9/14/2015	< 0.68	U		< 0.0067	U		< 0.0027	U		< 0.0027	U		< 0.0027	U		< 0.0027	U		< 0.0027	U		< 0.0067	U	
P-114	P114-20-22-091515	20 - 22 ft	9/15/2015	< 0.5	U		< 0.0046	U		< 0.0019	U		< 0.0019	U		< 0.0019	U		< 0.0019	U		< 0.0019	U		< 0.0046	U	

				VOCs																			
Location	Sample ID	Depth	Sample Date	1,2,3-Trichlorobenzene			1,2,3-Trichloropropane			1,2,4-Trichlorobenzene			1,2,4-Trimethylbenzene			1,2-Dibromo-3-chloropropane (DBCP)			1,2-Dibromoethane			1,2-Dichlorobenzene			1,2-Dichloroethane		
				Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
Screening Criteria				0.46 [2]			0.000017 [2]			5 [1]			87 [2]			0.002 [1]			0.0004 [1]			17 [1]			0.02 [1]		
P-114	P114-5-6-091415	5 - 6 ft	9/14/2015	< 0.0069	U		< 0.0069	U		< 0.0069	U		< 0.0069	U		< 0.0035	U		< 0.0035	U		< 0.0028	U		< 0.0028	U	
P-114	P114-5-6-091415-DUP	5 - 6 ft	9/14/2015	< 0.0067	U		< 0.0067	U		< 0.0067	U		< 0.0067	U		< 0.0035	U		< 0.0035	U		< 0.0027	U		< 0.0027	U	
P-114	P114-20-22-091515	20 - 22 ft	9/15/2015	< 0.0046	U		< 0.0046	U		< 0.0046	U		< 0.0046	U		< 0.0026	U		< 0.0026	U		< 0.0019	U		< 0.0019	U	

				VOCs																			
Location	Sample ID	Depth	Sample Date	1,2-Dichloropropane			1,3,5-Trimethylbenzene			1,3-Dichlorobenzene			1,3-Dichloropropane			1,4-Dichlorobenzene			1,4-Dioxane			2,2-Dichloropropane			2-Butanone		
				Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
Screening Criteria				0.03 [1]			2 [2]						0.83 [2]			2 [1]			0.031 [2]						17 [2]		
P-114	P114-5-6-091415	5 - 6 ft	9/14/2015	< 0.0028	U		< 0.0069	U		< 0.0028	U		< 0.0069	U		< 0.0028	U		< 0.17	U		< 0.0069	U		0.0067	J	J
P-114	P114-5-6-091415-DUP	5 - 6 ft	9/14/2015	< 0.0027	U		< 0.0067	U		< 0.0027	U		< 0.0067	U		< 0.0027	U		< 0.17	U		< 0.0067	U		0.0097	J	J
P-114	P114-20-22-091515	20 - 22 ft	9/15/2015	< 0.0019	U		< 0.0046	U		< 0.0019	U		< 0.0046	U		< 0.0019	U		< 0.12	U		< 0.0046	U		< 0.0093	U	

				VOCs																			
Location	Sample ID	Depth	Sample Date	2-Chloroethyl vinyl ether			2-Chlorotoluene			2-Hexanone (Methyl N-Butyl Ketone)			4-Chlorotoluene			4-Methyl-2-pentanone (Methyl Isobutyl Ketone)			Acetone			Acrolein			Acrylonitrile		
				Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
Screening Criteria							4 [2]			0.16 [2]						2.5 [2]			25 [1]			0.014 [2]			0.0006 [2]		
P-114	P114-5-6-091415	5 - 6 ft	9/14/2015	< 0.0069	U		< 0.0069	U		< 0.014	U		< 0.0069	U		< 0.0069	U		0.0298		J	< 0.035	U		< 0.035	U	
P-114	P114-5-6-091415-DUP	5 - 6 ft	9/14/2015	< 0.0067	U		< 0.0067	U		< 0.013	U		< 0.0067	U		< 0.0067	U		0.0395		J	< 0.034	U		< 0.034	U	
P-114	P114-20-22-091515	20 - 22 ft	9/15/2015	< 0.0046	U		< 0.0046	U		< 0.0093	U		< 0.0046	U		< 0.0046	U		0.0097			< 0.023	U		< 0.023	U	

				VOCs																			
Location	Sample ID	Depth	Sample Date	Benzene			Bromobenzene			Bromochloromethane			Bromodichloromethane			Bromoform			Bromomethane			Carbon disulfide			Carbon tetrachloride		
				Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
Screening Criteria				0.03 [1]			0.86 [2]						0.6 [1]			0.8 [1]			0.2 [1]			32 [1]			0.07 [1]		
P-114	P114-5-6-091415	5 - 6 ft	9/14/2015	0.0012		J	< 0.0069	U		< 0.0069	U		< 0.0028	U		< 0.0028	U		< 0.0028	U		0.0034	J	J	< 0.0028	U	
P-114	P114-5-6-091415-DUP	5 - 6 ft	9/14/2015	0.0021		J	< 0.0067	U		< 0.0067	U		< 0.0027	U		< 0.0027	U		< 0.0027	U		0.0049	J	J	< 0.0027	U	
P-114	P114-20-22-091515	20 - 22 ft	9/15/2015	< 0.00046	U		< 0.0046	U		< 0.0046	U		< 0.0019	U		< 0.0019	U		< 0.0019	U		< 0.0046	U		< 0.0019	U	

				VOCs																			
Location	Sample ID	Depth	Sample Date	Chlorobenzene			Chlorodibromomethane			Chloroethane			Chloroform			Chloromethane			cis-1,2-Dichloroethene			cis-1,3-Dichloropropene			Cymene (p-Isopropyltoluene)		
				Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
Screening Criteria				1 [1]			0.4 [1]			1500 [2]			0.3 [1]			110 [2]			0.4 [1]								
P-114	P114-5-6-091415	5 - 6 ft	9/14/2015	< 0.0028	U		< 0.0028	U		< 0.0069	U		< 0.0028	U		0.0058	J	J	< 0.0028	U		< 0.0028	U		< 0.0069	U	
P-114	P114-5-6-091415-DUP	5 - 6 ft	9/14/2015	< 0.0027	U		< 0.0027	U		< 0.0067	U		< 0.0027	U		< 0.0067	U		< 0.0027	U		< 0.0027	U		< 0.0067	U	
P-114	P114-20-22-091515	20 - 22 ft	9/15/2015	< 0.0019	U		< 0.0019	U		< 0.0046	U		< 0.0019	U		< 0.0046	U		< 0.0019	U		< 0.0019	U		< 0.0046	U	

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APPENDIX A
SUMMARY OF SOIL ANALYTICAL DETECTIONS
P-114R

Location	Sample ID	Depth	Sample Date	VOCs																			
				Dibromomethane			Dichlorodifluoromethane			Dichloromethane (Methylene chloride)			Ethyl methacrylate			Ethylbenzene			Hexachlorobutadiene			Isopropylbenzene (Cumene)			m,p-Xylenes		
				Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
Screening Criteria				28 [2]			43 [2]			0.02 [1]						13 [1]			2.2 [2]			91 [2]			200 [1]		
P-114	P114-5-6-091415	5 - 6 ft	9/14/2015	< 0.0069	U		< 0.0028	U		< 0.0007	J	U	< 0.0069	U		< 0.0028	U		< 0.0069	U		0.0037	J	J	< 0.0028	U	
P-114	P114-5-6-091415-DUP	5 - 6 ft	9/14/2015	< 0.0067	U		< 0.0027	U		< 0.0027	U		< 0.0067	U		< 0.0027	U		< 0.0067	U		0.0228		J	< 0.0027	U	
P-114	P114-20-22-091515	20 - 22 ft	9/15/2015	< 0.0046	U		< 0.0019	U		< 0.0019	U		< 0.0046	U		< 0.0019	U		< 0.0046	U		< 0.0046	U		< 0.0019	U	

Location	Sample ID	Depth	Sample Date	VOCs																			
				Methyl tert-Butyl Ether (MTBE)			Naphthalene			n-Butylbenzene			n-Propylbenzene			o-Xylenes			sec-Butylbenzene			Styrene			tert-Butylbenzene		
				Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
Screening Criteria							12 [1]			52 [2]			31 [2]			190 [1]						4 [1]					
P-114	P114-5-6-091415	5 - 6 ft	9/14/2015	< 0.0028	U		< 0.0069	U		< 0.0069	U		0.0038	J	J	< 0.0028	U		0.0096		J	< 0.0069	U		< 0.0069	U	
P-114	P114-5-6-091415-DUP	5 - 6 ft	9/14/2015	< 0.0027	U		< 0.0067	U		< 0.0067	U		0.0332		J	< 0.0027	U		0.0537		J	< 0.0067	U		< 0.0067	U	
P-114	P114-20-22-091515	20 - 22 ft	9/15/2015	< 0.0019	U		< 0.0046	U		< 0.0046	U		< 0.0046	U		< 0.0019	U		< 0.0046	U		< 0.0046	U		< 0.0046	U	

Location	Sample ID	Depth	Sample Date	VOCs																			
				Tetrachloroethene			Toluene			trans-1,2-Dichloroethene			trans-1,3-Dichloropropene			Trichloroethene			Trichlorofluoromethane			Vinyl acetate			Vinyl chloride		
				Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
Screening Criteria				0.06 [1]			12 [1]			0.7 [1]						0.06 [1]			34 [2]			170 [1]			0.01 [1]		
P-114	P114-5-6-091415	5 - 6 ft	9/14/2015	< 0.0028	U		0.0006	J	J	< 0.0028	U		< 0.0028	U		< 0.0028	U		< 0.0028	U		< 0.0069	U		< 0.0028	U	
P-114	P114-5-6-091415-DUP	5 - 6 ft	9/14/2015	< 0.0027	U		< 0.0067	U		< 0.0027	U		< 0.0027	U		< 0.0027	U		< 0.0027	U		< 0.0067	U		< 0.0027	U	
P-114	P114-20-22-091515	20 - 22 ft	9/15/2015	< 0.0019	U		< 0.0046	U		< 0.0019	U		< 0.0019	U		< 0.0019	U		< 0.0019	U		< 0.0046	U		< 0.0019	U	

Location	Sample ID	Depth	Sample Date	VOCs		
				Xylenes (total)		
				Result (mg/kg)	Lab Quals	AECOM Quals
Screening Criteria				150 [1]		
P-114	P114-5-6-091415	5 - 6 ft	9/14/2015	< 0.0028	U	
P-114	P114-5-6-091415-DUP	5 - 6 ft	9/14/2015	< 0.0027	U	
P-114	P114-20-22-091515	20 - 22 ft	9/15/2015	< 0.0019	U	

Laboatory Qualifiers
< "U" = Not detected at the reporting limit.
J = The analyte was detected below the reporting limit. Result is estimated.

Note: Library searches for TICs are used to look for the presence of non-target analytes.
TICS reported are those present at levels above ten percent of associated internal standard responses.

AECOM Qualifiers
J = The result is estimated.
[ ] = Exceedance of residential soil screening criteria, see Notes for criteria source.

Notes:
1 Denotes screening criteria source from 35 I.A.C. 742 (TACO), Appendix B, Table A.
2 Denotes screening criteria source from IL EPA Toxicity Assessment Unit (Chemicals not in TACO, Tier 1 Tables).

LOG OF BORING AND WELL CONSTRUCTION DETAIL

P-114R

Starting Date: 9/14/15
Completion Date: 9/15/15
Casing Elevation: 429.26
Ground Elevation: 429.58

Quadrangle
Sec:34
T:5N
R:9W
UTM (or State Plane) Coord
N: (X):791384.5
E: (Y):2321181.1

Depth In feet	Well Construction	Inches Driven	Inches Recovered	PID/FID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
		12	12	4.9				Brown, silt and clay mixed with coarse gravel and sand, dry (FILL)	Airknifed to 10 feet below ground surface to clear for utilities and other underground obstructions.
		12	12	69.0					
		12	12	9.2			FILL	Black, silt and clay with fine - coarse gravel and sand, wet (FILL)	
		12	12	70.8					
		12	12	350					
5		12	12	586			CL	Soft, moist, dark gray, medium plastic, CLAY (CL), trace fine black sand	
		12	12	489.3				Medium stiff, dark gray and brown, high plastic, CLAY (CH), with silt	
		12	12	380			CH		
		12	12	392					
		12	12	167.1					
10		36	36	67.5				Stiff, gray, medium plastic, Silty CLAY (CL), trace brown and orange mottles	
				11.4			CL		
		60	60	8.8				Becomes soft	
15				5.5				Loose, dry to moist, light brown and orange, fine to medium grained, poorly graded SAND (SP), trace black	
		60	48	9.0				1" medium stiff, moist, gray, low plastic, silt and clay seam	
20				3.3			SP	2" medium stiff, moist, gray, low plastic, silt and clay seam Trace coarse sand and fine gravel	
				22.2				Becomes moist, coarse sand and fine gravel grades out Becomes dry to moist	

Completion Depth: **34.0 Ft bgs**
Project No.: **60400249**
Project Name: **WRR - Monitoring Well Installation**
Drilling Contractor: **Roberts Enviromental Drilling, Inc.**
Driller Name: **Pat Seymour**
Drilling Method: **Geoprobe (direct push)**
Drill Rig Type: **8040 DT**
Logged by: **Brian Smith, Sam Fisher**
County: **Madison**
Site ID No.: **1191150002**
Federal ID No.: **ILD080012305**

Water Depth: 25.5 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Air Knife/Hand Auger
Splitspoon Sampler
HSA- No Soil Sample
Geoprobe
Concrete
Cement/Bentonite Grout
Bentonite Seal
Filter Sand
Screen

AECOM (EVIRON) LOG (EPA FORMAT)+1 WELL P:\RESOURCES\GINTDATA\GINT\PROJECTS\21563721.02009 (WRR-MONITORING WELL INSTALLATION P-114 REPLACEMENT).GPJ P:\RESOURCES\GINTDATA\GINT\ENVIRONMENTAL\AECOM STL (ENVIRONME

LOG OF BORING AND WELL CONSTRUCTION DETAIL

P-114R

Starting Date: 9/14/15
Completion Date: 9/15/15
Casing Elevation: 429.26
Ground Elevation: 429.58

Quadrangle
Sec:34
T:5N
R:9W
UTM (or State Plane) Coord
N: (X):791384.5
E: (Y):2321181.1

Depth In feet	Well Construction	Inches Driven	Inches Recovered	PID/FID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
30		60	60	8.3 9.8			SP	Loose, wet, light brown and orange, fine to medium grained, poorly graded SAND (SP), trace black ▽	
		60	60	8.8 9.6 8.2					
35								Bottom of boring at 34' bgs	
40									
45									

Completion Depth: **34.0 Ft bgs**
Project No.: **60400249**
Project Name: **WRR - Monitoring Well Installation**
Drilling Contractor: **Roberts Enviromental Drilling, Inc.**
Driller Name: **Pat Seymour**
Drilling Method: **Geoprobe (direct push)**
Drill Rig Type: **8040 DT**
Logged by: **Brian Smith, Sam Fisher**
County: **Madison**
Site ID No.: **1191150002**
Federal ID No.: **ILD080012305**

Water Depth: 25.5 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

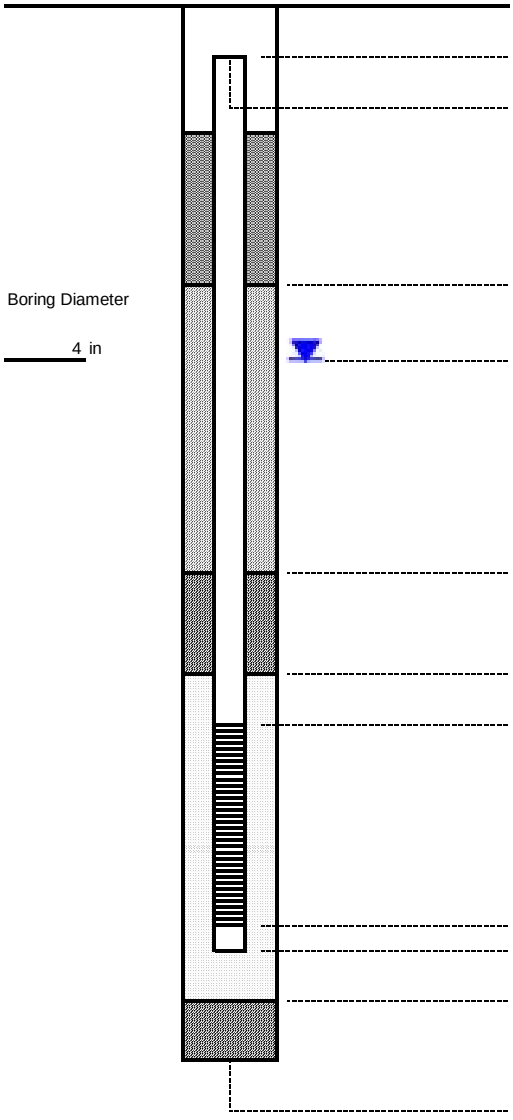
USC based on field visual observations

- Air Knife/Hand Auger
- Splitspoon Sampler
- HSA- No Soil Sample
- Geoprobe
- Concrete
- Cement/Bentonite Grout
- Bentonite Seal
- Filter Sand
- Screen

AECOM (EVIRON) LOG (EPA FORMAT)+1 WELL P:\RESOURCES\GINTDATA\GINT\PROJECTS\21563721.02009 (WRR-MONITORING WELL INSTALLATION P-114 REPLACEMENT).GPJ P:\RESOURCES\GINTDATA\GINTENVIRONMENTAL\AECOM STL (ENVIRONME

Monitoring Well Installation Details
Flush Mount Monitoring Well Construction Diagram

Project:	WRR - Monitoring Well Installation	Date Started:	9/14/2015	Well ID:	P-114R
Project Location:	Wood River Refinery - Roxana, IL	Date Completed:	9/15/2015		
Well Location:	West Property (east end of Pond 2)	Time Grout Set:	1445 (9/15/15)	Boring ID:	P-114R
Drilling Contractor:	Roberts Environmental Drilling, Inc.	Time Seal Set:	1325 (9/15/15)	Northing:	791384.53
Driller:	Pat Seymour	Type of Rig:	8040 DT	Easting:	2321181.07
Consulting Firm:	AECOM	Drilling Method:	Geoprobe (direct push)	Elevation Datum:	429.58
Geologist:	Brian Smith Sam Fisher	Owner:	Shell Oil Products US	Township: Range: Section:	5N 9W 34



Boring Diameter

4 in

	Depths (ft bgs)	Elevations (ft)
Ground Elevation:		429.58
Depth of Riser Below Ground:	0.32	
Elevation of Top of Riser Pipe:	0.32	429.26
ID/Type of Surface Casing:	12-inch diameter flush-mount vault	
Type of Surface Seal:	Concrete	
Bottom of Surface Seal:	1.00	428.58
Groundwater (after completion):	26.34	403.24
Type of Riser Pipe:	Schedule 40 PVC	
Riser Diameter:	2 in	
Type of Backfill:	Cement-bentonite grout	
Top of Seal:	19.33	410.25
Type of Seal:	Bentonite chips (hydrated)	
Top of Filter Pack	21.33	408.25
Top of Screen	23.33	406.25
Type of Filter Pack:	ANSI / NSF quartz filter sand	
Type of Screen:	Stainless steel	
Screen Diameter	2 in	
Screen Slot Size:	0.010 in	
Bottom of Screen:	33.33	396.25
Bottom of Blank Casing:	33.63	395.95
Backfill/Seal Below Well:	33.63	395.95
Type of Backfill/Seal Below Well:	Native (cave in) and placed sand	
Bottom of Boring:	34.00	395.58

DIAGRAM IS NOT TO SCALE

Appendix B.
Groundwater Sampling Data Sheets

LOW FLOW GROUNDW/ . SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW | PROJECT NUMBER: 60400249-21563720.03004 | FIELD PERSONNEL: SF DH

DATE: 10-6-15 | WEATHER: 75° P.Cloudy

MONITORING WELL ID: MW-1 | SAMPLE ID: MW1-ROX-100615

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 59.13 ft
Depth to Water (btoc): 40.83 ft
Depth to LNAPL/DNAPL (btoc): NF ft
Depth to Top of Screen (btoc): 48.80 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 18.30 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = 53.80 ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = — ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.2 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	1410	40.83	clear	none	7.04	1.397	203	0.52	5.311	19.87
600	1412	↓	↓	↓	6.97	1.396	176	0.20	3.176	19.58
1200	1414				6.95	~~1.399~~ 1.395	143	0.10	1.519	19.45
1800	1416				6.94	1.393	111	0.07	2.748	19.38
2400	1418				6.93	1.391	90	0.04	1.597	19.35
3000	1420				6.93	1.390	79	0.02	4.238	19.35
3600	1422				6.93	1.389	65	0.01	6.808	19.35
4200	1424				6.93	1.388	52	0.02	20.03	19.33
4800	1426				6.92	1.385	44	0.03	22.47	19.36
5400	1428				6.92	1.388	35	0.03	1.566	19.40

Samuel Fidler

Start Time: 1410 | Elapsed Time (min): 18 | Water Quality Meter ID & SN: TROLL 9500 - R25178
Stop Time: 1428 | Average Purge Rate (mL/min): 300 | Date Calibrated: 10-6-15

SAMPLING DATA

Sample Date: 6 Oct. 2015 | Sample Time: 1435 | Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow | Sample Flow Rate (mL/min): 300 | QA/QCSamples: none
VOA Vials, No Headspace ☒ Initials: SF

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Some air bubbles accumulated in flow-thru cell

Total Purge Volume: 5400 mL

LOW FLOW GROUNDWA[illegible] SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW | PROJECT NUMBER: 60400249-21563720.03004 | FIELD PERSONNEL: S. Fisher / D. Haxel

DATE: 12 Oct. 2015 | WEATHER: Sunny 73°

MONITORING WELL ID: MW-2 | SAMPLE ID: MW2-ROX-101215

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 60.20 ft
Depth to Water (btoc): 42.15 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 49.87 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 18.05 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = 54.87 ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = ____ ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = ____ ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = ____ ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 200.1 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	1057	42.15	slight tint	strong	6.81	1.458	-98	0.78	0.7940	21.70
600	1059				6.76	1.462	-104	0.36	2.933	21.40
1200	1101				6.75	1.458	-108	0.21	0.7541	21.42
1800	1103				6.74	1.455	-112	0.11	1.710	21.47
2400	1105				6.74	1.454	-116	0.09	1.195	21.52

Samuel Fisher

Start Time: 1057 | Elapsed Time (min): SF ~~1110~~ 8 | Water Quality Meter ID & SN: TROLL 9500 -- R25178

Stop Time: 1105 | Average Purge Rate (mL/min): 300 | Date Calibrated: 10-12-15

SAMPLING DATA

Sample Date: 10-12-15 | Sample Time: 1110 | Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow | Sample Flow Rate (mL/min): 300 | QA/QCSamples: none

VOA Vials, No Headspace ☒ Initials: SF

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 2400 mL

LOW FLOW GROUNDWA..R SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW | PROJECT NUMBER: 60400249-21563720.03004 | FIELD PERSONNEL: S. Fisher / D. Haxel

DATE: 9 Oct. 2015 | WEATHER: P. Cloudy 65°

MONITORING WELL ID: MW-3 | SAMPLE ID: MW3-ROX-100915 / MW3-ROX-100915-EB

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 45.00 ft
Depth to Water (btoc): 27.98 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 34.67 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 17.02 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = 39.67 ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = — ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	1248	27.98	clean	Moderate	6.97	1.243	-142	0.16	0.6750	19.31
600	1250	↓	↓	↓	6.99	1.256	-146	0.04	0.9128	19.33
1200	1252				6.99	1.273	-148	0.01	4.320	19.39
1800	1254				7.00	1.277	-148	0.01	4.917	19.49

9 Oct. 2015

Start Time: 1248 | Elapsed Time (min): ~~12~~ 6 | Water Quality Meter ID & SN: TROLL 9500 -- R25178

Stop Time: ~~1300~~ 1254 | Average Purge Rate (mL/min): 300 | Date Calibrated: 9 Oct. 2015

SAMPLING DATA

Sample Date: 9 Oct. 2015 | Sample Time: 1300 | Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow | Sample Flow Rate (mL/min): 300 | QA/QCSamples: Equipment Blank

VOA Vials, No Headspace ☒ Initials: DH

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 1800 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW | PROJECT NUMBER: 60400249-21563720.03004 | FIELD PERSONNEL: S. Fishea / D. Haxel

DATE: 19 Oct. 2015 | WEATHER: Sunny 60°

MONITORING WELL ID: MW-4 | SAMPLE ID: MW4-ROX-101915

INITIAL DATA

Well Diameter: 2 in 55.39
Total Well Depth (btoc): ~~56.39~~ ft
Depth to Water (btoc): 39.44 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): ~~46.06~~ ft
Screen Length: 10 ft 45.06

Water Column Height (do not include LNAPL or DNAPL): 15.95 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = 50.06 ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = — ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 94.3 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
STABLE: (over 3 readings)					+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp
0	0915	39.44	clear	none	6.63	1.496	-85	0.26	1.927	18.49
600	0917	↓	↓	↓	6.68	1.492	-93	0.09	-1.073	18.75
1200	0919				6.72	1.490	-97	0.07	-0.2670	18.84
1800	0921				6.74	1.486	-100	0.06	0.3663	18.97
2400	0923				6.75	1.481	-103	0.06	1.792	19.08

S. Fishea
19 Oct. 2015

Start Time: 0915 | Elapsed Time (min): 8 | Water Quality Meter ID & SN: TROLL 9500 -- R25178
Stop Time: 0923 | Average Purge Rate (mL/min): 300 | Date Calibrated: 19 Oct. 2015

SAMPLING DATA

Sample Date: 19 Oct. 2015 | Sample Time: 0935 | Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow | Sample Flow Rate (mL/min): 300 | QA/QCSamples: None
VOA Vials, No Headspace ☒ Initials: D.H.

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 2400 mL

LOW FLOW GROUNDWA[illegible] SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW | PROJECT NUMBER: 60400249-21563720.03004 | FIELD PERSONNEL: SF DH

DATE: 10-12-15 | WEATHER: 70° Sunny

MONITORING WELL ID: MW-5 | SAMPLE ID: MW5-ROX-101215 / MW5-ROX-101215-MS / MW5-ROX-101215-MSD

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 44.30 ft
Depth to Water (btoc): 27.53 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 33.97 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 16.77 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = 38.97 ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = — ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.2 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm) 1.494	ORP (mV) -111	DO (mg/L) 0.30	Turbidity (NTUs)	Temp (°C)
0	0953	27.53	clear	None	6.72	~~6.72~~	~~1.494~~	~~111~~	3.206	19.69
600	0955	↓	↓	↓	6.73	1.493	-115	0.09	0.4952	19.69
1200	0957				6.73	1.500	-118	0.04	-1.344	19.70
1800	0959				6.73	1.507	-119	0.01	0.6449	19.70

12 Oct 2015

Start Time: 0953 | Elapsed Time (min): ~~1015~~ 6 | Water Quality Meter ID & SN: TROLL 9500 -- R25178

Stop Time: 0959 | Average Purge Rate (mL/min): 300 | Date Calibrated: 10-12-15

SAMPLING DATA

Sample Date: 12 Oct. 2015 | Sample Time: 1015 | Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow | Sample Flow Rate (mL/min): 300 | QA/QC Samples: MS/MSD

VOA Vials, No Headspace ☒ Initials: DH

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 1800 mL

LOW FLOW GROUNDWA[illegible] SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW | PROJECT NUMBER: 60400249-21563720.03004 | FIELD PERSONNEL: S F DH

DATE: 10-7-15 | WEATHER: 70° F, Cloudy

MONITORING WELL ID: MW-6A | SAMPLE ID: MW6A-ROX-100715; MW6A-ROX-100715-EB

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 45.16 ft
Depth to Water (btoc): 29.77 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 34.83 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 15.39 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = 39.83 ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = — ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 1.3 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	1202	29.77	clear	~~some~~ slight	6.73	1.490	-96	1.35	0.7127	20.93
600	1204	↓	↓	↓	6.72	1.493	-104	0.36	-1.341	20.01
1200	1206				6.73	1.492	-107	0.13	-0.4268	19.68
1800	1208				6.74	1.488	-109	0.06	3.105	19.53
2400	1210				6.74	1.486	-110	0.03	5.182	19.47

Samuel Fisher

Start Time: 1202 | Elapsed Time (min): 8 | Water Quality Meter ID & SN: TROLL 9500 - R25178
Stop Time: 1210 | Average Purge Rate (mL/min): 300 | Date Calibrated: 10-7-15

SAMPLING DATA

Sample Date: 10-7-15 | Sample Time: 1215 | Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow | Sample Flow Rate (mL/min): 300 | QA/QCSamples: EB
VOA Vials, No Headspace [X] Initials: SF

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 2400 mL

LOW FLOW GROUNDWA.. .. SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW | PROJECT NUMBER: 60400249-21563720.03004 | FIELD PERSONNEL: S. Fisher / D. Hakel

DATE: 7 Oct. 2015 | WEATHER: P. Cloudy 75°

MONITORING WELL ID: MW-6B | SAMPLE ID: MW6B-ROX-100715

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 69.38 ft
Depth to Water (btoc): 29.80 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 64.05 ft
Screen Length: 5 ft

Water Column Height (do not include LNAPL or DNAPL): 39.58 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = 66.55 ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = — ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	1106	29.80	clear	none	7.05	0.9208	-36	0.50	2.500	20.50
600	1108	↓	↓	↓	6.98	0.9254	-50	0.25	0.1315	20.45
1200	1110				6.96	0.9308	-61	0.15	0.5387	20.37
1800	1112				6.95	0.9478	-70	0.12	4.783	20.34
2400	1114				6.94	0.9613	-77	0.06	12.33	20.14

Samuel Fisher

Start Time: 1106 | Elapsed Time (min): 8 | Water Quality Meter ID & SN: TROLL 9500 - R25178
Stop Time: 1114 | Average Purge Rate (mL/min): 300 | Date Calibrated: 7 Oct 2015

SAMPLING DATA

Sample Date: 7 Oct. 2015 | Sample Time: 1120 | Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow | Sample Flow Rate (mL/min): 300 | QA/QCSamples: NONE
VOA Vials, No Headspace [X] Initials: SF

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 2400 mL

LOW FLOW GROUNDWA..K SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW | PROJECT NUMBER: 60400249-21563720.03004 | FIELD PERSONNEL: SF DH

DATE: 10-7-15 | WEATHER: 65° P. Cloudy

MONITORING WELL ID: MW-6C | SAMPLE ID: MW6C-ROX-100715

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 90.28 ft
Depth to Water (btoc): 29.60 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 84.95 ft
Screen Length: 5 ft

Water Column Height (do not include LNAPL or DNAPL): 60.68 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = 87.45 ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = — ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	1017	29.60	Clear	none	7.02	1.014	-93	1.16	0.2251	19.36
600	1019	↓	↓	↓	6.99	1.032	-101	0.60	0.4909	19.20
1200	1021				6.99	1.037	-105	0.32	0.1825	19.16
1800	1023				6.98	1.039	-108	0.19	-0.0607	19.14
2400	1025				6.99	1.040	-110	0.14	-2.873	19.17

Samuel Fisher

Start Time: 1017 | Elapsed Time (min): 8 | Water Quality Meter ID & SN: TROLL 9500 -- RZ5178
Stop Time: 1025 | Average Purge Rate (mL/min): 300 | Date Calibrated: 10-7-15

SAMPLING DATA

Sample Date: 10-7-15 | Sample Time: 1030 | Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow | Sample Flow Rate (mL/min): 300 | QA/QCSamples: none
VOA Vials, No Headspace ☒ Initials: SF

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 2400 mL

LOW FLOW GROUNDWA..K SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW | PROJECT NUMBER: 60400249-21563720.03004 | FIELD PERSONNEL: SF DH

DATE: 10-7-15 | WEATHER: 65° P. Cloudy

MONITORING WELL ID: MW-6D | SAMPLE ID: MW6D-ROX-100715

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 110.05 ft
Depth to Water (btoc): 29.45 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 104.72 ft
Screen Length: 5 ft

Water Column Height (do not include LNAPL or DNAPL): 80.60 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = 107.22 ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = — ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.1 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	0925	29.45	clear	None	6.57	1.104	-78	2.88	9.692	19.03
600	0927	↓	↓	↓	6.78	1.130	-94	0.90	14.88	18.74
1200	0929				6.88	1.139	-107	0.40	17.01	18.75
1800	0931				6.93	1.145	-111	0.26	12.11	18.82
2400	0933				6.96	1.149	-116	0.18	8.865	18.87
3000	0935				6.98	1.154	-118	0.16	4.562	18.86

Samuel Fisher

Start Time: 0925 | Elapsed Time (min): 10 | Water Quality Meter ID & SN: TROLL 9500 -- R25178
Stop Time: 0935 | Average Purge Rate (mL/min): 300 | Date Calibrated: 7 Oct. 2015

SAMPLING DATA

Sample Date: 7 Oct. 2015 | Sample Time: 0940 | Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow | Sample Flow Rate (mL/min): 300 | QA/QCSamples: None
VOA Vials, No Headspace [X] Initials: SF

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 3000 mL

LOW FLOW GROUNDWA..R SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW | PROJECT NUMBER: 60400249-21563720.03004 | FIELD PERSONNEL: DChase/SFisher

DATE: 10-19-2015 | WEATHER: sunny, 70°F

MONITORING WELL ID: MW-7 | SAMPLE ID: MW7-ROX-101915 + DUP

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 52.92 ft
Depth to Water (btoc): 41.43 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 42.92 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 11.49 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = 47.92 ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = — ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.2 ppm
Wellbore PID/FID Reading: 4211.0 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	1422	41.43	none	none	6.72	1.511	-70	0.66	17.87	20.62
800	1424	↓	↓	↓	6.69	1.528	-72	0.31	15.27	20.26
1600	1426	↓	↓	↓	6.67	1.547	-73	0.20	12.01	20.13
2000	1427	41.49	↓	↓	6.66	1.563	-74	0.13	10.66	20.04
2800	1429	↓	↓	↓	6.66	1.570	-74	0.08	17.35	20.01

DAC

Start Time: 1422 | Elapsed Time (min): 7 min | Water Quality Meter ID & SN: TROLL 9500 -- R25178
Stop Time: 1429 | Average Purge Rate (mL/min): 400 | Date Calibrated: 10-19-2015

SAMPLING DATA

Sample Date: 10-19-15 | Sample Time: 1435 | Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow | Sample Flow Rate (mL/min): 400 | QA/QC Samples: DUP
VOA Vials, No Headspace: ☑ | Initials: DAC

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 2800 mL

LOW FLOW GROUNDWA . SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW | PROJECT NUMBER: 60400249-21563720.03004 | FIELD PERSONNEL: S. Fisher / D. Haxel

DATE: 19 Oct. 2015 | WEATHER: Sunny 65°

MONITORING WELL ID: MW-8 | SAMPLE ID: MW8-ROX-101915

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 43.60 ft
Depth to Water (btoc): 32.30 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 33.60 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 11.30 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = 38.60 ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = — ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 4611 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
STABLE: (over 3 readings)					+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp
0	1114	32.30	clear	strong	6.67	1.613	-64	0.89	20.27	19.22
600	1116	↓	↓	↓	6.64	1.630	-69	0.43	19.39	19.47
1200	1118				6.63	1.634	-72	0.27	9.077	19.59
1800	1120				6.63	1.631	-73	0.13	6.966	19.66
2400	1122				6.62	1.623	-74	0.12	9.723	19.72

S. Fisher D. Haxel 19 Oct. 2015

Start Time: 1114 | Elapsed Time (min): 8 | Water Quality Meter ID & SN: TROLL 9500 -- R25178
Stop Time: 1122 | Average Purge Rate (mL/min): 300 | Date Calibrated: 19 Oct. 2015

SAMPLING DATA

Sample Date: 19 Oct. 2015 | Sample Time: 1135 | Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow | Sample Flow Rate (mL/min): 300 | QA/QCSamples: NONE
VOA Vials, No Headspace ☒ Initials: D.H

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 2400 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW | PROJECT NUMBER: 60400249-21563720.03004 | FIELD PERSONNEL: SF DH

DATE: 10-8-15 | WEATHER: 80° Sunny

MONITORING WELL ID: MW-9 | SAMPLE ID: MW9-ROX-100815

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 56.78 ft
Depth to Water (btoc): 42.64 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 46.45 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 14.14 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = 51.45 ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = — ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
STABLE: (over 3 readings)					+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp
0	1127	42.64	clear	slight	6.69	1.633	-34	1.22	0.9707	20.19
600	1129				6.68	1.642	-37	0.76	0.2990	20.16
1200	1131				6.67	1.646	-40	0.55	0.3884	19.98
1800	1133				6.67	1.646	-42	0.42	1.409	20.00
2400	1135				6.67	1.645	-43	0.33	1.306	20.03
3000	1137				6.67	1.635	-43	0.27	0.4675	20.06

Samuel Fisher

Start Time: 1127 | Elapsed Time (min): 10 | Water Quality Meter ID & SN: TROLL 9500 -- R25178
Stop Time: 1137 | Average Purge Rate (mL/min): 300 | Date Calibrated: 10-8-15

SAMPLING DATA

Sample Date: 10-8-15 | Sample Time: 1140 | Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow | Sample Flow Rate (mL/min): 300 | QA/QCSamples: none
VOA Vials, No Headspace [X] | Initials: SF

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 3000 mL

LOW FLOW GROUNDWA . SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW PROJECT NUMBER: 60400249-21563720.03004 FIELD PERSONNEL: SF DH

DATE: 10-9-15 WEATHER: 60° Sporadic drizzle

MONITORING WELL ID: MW-10 SAMPLE ID: MW10-ROX-100915

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 54.76 ft
Depth to Water (btoc): 42.74 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 44.43 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 11.97 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = 49.43 ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = — ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
STABLE: (over 3 readings)					+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp
0	0919	42.79	clear	moderate	6.61	1.792	-91	0.83	5.648	18.14
600	0921	42.81	↓	↓	6.67	1.797	-95	0.50	8.489	18.34
1200	0923	↓	↓	↓	6.71	1.800	-99	0.31	2.802	18.48
1800	0925	↓	↓	↓	6.73	1.800	-103	0.20	2.146	18.59
2400	0927	↓	↓	↓	6.74	1.802	-105	0.15	1.156	18.77

Sal 8 1/4 ft
9 Oct. 2015

Start Time: 0919 Elapsed Time (min): 8 Water Quality Meter ID & SN: TROLL 9500 -- R-25178
Stop Time: 0927 Average Purge Rate (mL/min): 300 Date Calibrated: 9 Oct. 2015

SAMPLING DATA

Sample Date: 9 Oct. 2015 Sample Time: 0935 Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): 300 QA/QCSamples: NONE
VOA Vials, No Headspace ☒ Initials: D.A

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 2400 mL

LOW FLOW GROUNDWA[illegible] SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW | PROJECT NUMBER: 60400249-21563720.03004 | FIELD PERSONNEL: S. Fisher / D. Haxel

DATE: 8 Oct. 2015 | WEATHER: Sunny 80°

MONITORING WELL ID: SF ~~MW-27~~ MW-11 | SAMPLE ID: MW11-ROX-100815

INITIAL DATA

Well Diameter: 2 in | SF 51.99
Total Well Depth (btoc): ~~60.84~~ ft
Depth to Water (btoc): 40.15 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): ~~39.79~~ ft | SF
Screen Length: 10 ft | 41.66

Water Column Height (do not include LNAPL or DNAPL): 11.84 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = 46.66 ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = — ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	1448	40.15	clear	slight	6.74	1.512	-74	1.79	0.2163	20.54
600	1450	↓	↓	↓	6.71	1.527	-78	0.85	2.848	19.76
1200	1452				6.71	1.532	-81	0.56	-0.5231	19.31
1800	1454				6.71	1.533	-82	0.40	2.757	19.02
2400	1456				6.70	1.534	-82	0.31	-0.2912	18.95

[signature] 8 Oct. 2015

Start Time: 1448 | Elapsed Time (min): 8 | Water Quality Meter ID & SN: TROLL 9500 -- R25178
Stop Time: 1456 | Average Purge Rate (mL/min): 300 | Date Calibrated: 8 Oct. 2015

SAMPLING DATA

Sample Date: 8 Oct. 2015 | Sample Time: 1500 | Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow | Sample Flow Rate (mL/min): 300 | QA/QCSamples: NONE
VOA Vials, No Headspace ☒ Initials: D.H.

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 2400 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW | PROJECT NUMBER: 60400249-21563720.03004 | FIELD PERSONNEL: S.Fisher / D.Haxel

DATE: 10-8-15 | WEATHER: Sunny 70°

MONITORING WELL ID: MW-12 | SAMPLE ID: MW12-ROX-100815, MW12-ROX-100815-DUP

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 52.25 ft
Depth to Water (btoc): 40.54 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 41.92 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 11.71 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen+0.5*(Screen Length) = — ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at: SF 46.92
Depth to Top of Screen+0.5*(Water Column Height) = ~~47.78~~ ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	1006	40.54	clear	none	6.59	1.188	191	3.39	9.532	19.87
600	1008				6.68	1.205	200	2.44	7.973	19.58
1200	1010				6.70	1.212	207	2.22	7.461	19.49
1800	1012				6.72	1.217	212	2.08	6.106	19.50
2400	1014				6.73	1.224	216	1.94	4.988	19.48
3000	1016				6.74	1.226	219	1.80	2.487	19.52
3600	1018				6.74	1.230	222	1.70	1.539	19.56
4200	1020				6.75	1.230	224	1.62	0.9595	19.69

Samuel Fisher

Start Time: 1006 | Elapsed Time (min): 14 | Water Quality Meter ID & SN: TROLL 9500 -- R25178

Stop Time: 1020 | Average Purge Rate (mL/min): 300 | Date Calibrated: 10-8-15

SAMPLING DATA

Sample Date: 10-8-15 | Sample Time: 1025 | Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow | Sample Flow Rate (mL/min): 300 | QA/QCSamples: Duplicate

VOA Vials, No Headspace [X] Initials: SF

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 4200 mL

LOW FLOW GROUNDWA[illegible] SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW | PROJECT NUMBER: 60400249-21563720.03004 | FIELD PERSONNEL: SF DH

DATE: 10-5-15 | WEATHER: 70° P.Cloudy

MONITORING WELL ID: MW-13 | SAMPLE ID: MW13-ROX-100515

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 35.82 ft
Depth to Water (btoc): 27.34 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 25.57 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 8.48 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = ___ ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = 31.58 ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = ___ ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = ___ ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 110.2 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	1435	27.34	slightly foggy	slight	6.63	1.379	-109	0.18	6.692	20.04
600	1437	↓			6.63	1.385	-111	0.07	2.726	19.99
1200	1439	27.37			6.64	1.391	-112	0.06	3.001	20.07
1800	1441	↓			6.64	1.393	-113	0.04	2.608	20.03

Samuel Fisher

Start Time: 1435 | Elapsed Time (min): 6 | Water Quality Meter ID & SN: TROLL 9500 -- R25178
Stop Time: 1441 | Average Purge Rate (mL/min): 300 | Date Calibrated: 10-5-15

SAMPLING DATA

Sample Date: 10-5-35 | Sample Time: 1445 | Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow | Sample Flow Rate (mL/min): 300 | QA/QC Samples: none
VOA Vials, No Headspace [X] Initials: SF

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 1800 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW | PROJECT NUMBER: 60400249-21563720.03004 | FIELD PERSONNEL: SF DH

DATE: 10-13-15 | WEATHER: 60° Clear

MONITORING WELL ID: ~~MW-22~~ SF MW-14 | SAMPLE ID: MW14-ROX-101315

INITIAL DATA

Well Diameter): 2 in 44.00
Total Well Depth (btoc): ~~ST 48.13~~ ft
Depth to Water (btoc): 31.88 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): ~~38.27~~ ft SF
Screen Length: 10 ft ~~37.88~~ 33.42

Water Column Height (do not include LNAPL or DNAPL): 12.12 SF ~~16.25~~ ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = ~~42.88~~ ST ft btoc 38.42
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = ___ ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = ___ ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = ___ ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 26.0 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
STABLE: (over 3 readings)					+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp
0	935	31.88	slight tint	none	6.60	1.740	-38	0.47	21.88	19.72
600	937	↓	↓	↓	6.58	1.774	-42	0.11	18.16	19.70
1200	939				6.58	1.765	-46	0.06	17.52	19.69
1800	941				6.58	1.768	-49	0.08	18.19	19.70

Samuel Fisher

Start Time: 935 | Elapsed Time (min): 6 | Water Quality Meter ID & SN: TROLL 9500 -- R25178
Stop Time: 941 | Average Purge Rate (mL/min): 300 | Date Calibrated: 10-13-15

SAMPLING DATA

Sample Date: 10-13-15 | Sample Time: 0945 | Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow | Sample Flow Rate (mL/min): 300 | QA/QCSamples: none
VOA Vials, No Headspace [X] Initials: SF

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

-purged ~3000 mL before connecting to trail to allow orange water to clear out
-~~Ignore pump placement~~ data was mistakenly entered into MW-22 on Rugged Reader. Disregard that entry.

Total Purge Volume: 4800 mL

LOW FLOW GROUNDWA[illegible] SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW | PROJECT NUMBER: 60400249-21563720.03004 | FIELD PERSONNEL: S F DH

DATE: 10-7-15 | WEATHER: ~~85°~~ P. Cloudy

MONITORING WELL ID: MW-16 | SAMPLE ID: MW16-ROX-100715

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 47.31 ft
Depth to Water (btoc): 41.83 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): ~~37.43~~ 37.06
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 5.48 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = — ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = 44.57 ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	1417	41.83	slightly foggy	slight	6.63	1.887	13	0.92	28.53	21.09
600	1419	↓	↓	↓	6.62	1.927	-12	0.49	24.47	20.50
1200	1421	41.89			6.61	1.961	-26	0.32	16.44	20.24
1800	1423	↓			6.61	1.985	-0.35	0.29	13.61	20.18
2400	1425	41.92			6.61	2.005	-41 ~~0.0~~ SF	0.28	9.551	20.15

Samuel Fisher

Start Time: 1417
Stop Time: 1425
Elapsed Time (min): 8
Average Purge Rate (mL/min): 300
Water Quality Meter ID & SN: TROLL 9500 -- R25178
Date Calibrated: 10-7-15

SAMPLING DATA

Sample Date: 10-7-15 | Sample Time: 1430 | Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow | Sample Flow Rate (mL/min): 300 | QA/QCSamples: none
VOA Vials, No Headspace ☒ Initials: SF

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)
-did not write down first set of parameters because flow-thru cell was not full yet

Total Purge Volume: 2400 mL

LOW FLOW GROUNDWA . SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW PROJECT NUMBER: 60400249-21563720.03004 FIELD PERSONNEL: S. Fisher / D. Hakel

DATE: 14 Oct. 2015 WEATHER: Sunny 78°

MONITORING WELL ID: ~~MW-14~~ MW-22 SAMPLE ID: MW22-ROX-101415

INITIAL DATA

Well Diameter): 2 in 48.13
Total Well Depth (btoc): ~~44.00~~ ft
Depth to Water (btoc): 40.54 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): ~~33.42~~ ft
Screen Length: 10 ft 37.88

Water Column Height (do not include LNAPL or DNAPL): 7.59 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = ____ ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = 44.33 ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = ____ ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = ____ ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.5 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
STABLE: (over 3 readings)					+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp
~~0~~	1505	40.54	slight green tint	Moderate	6.69	1.285	-88	0.36	2.089	21.92
600	1507				6.65	1.312	-88	0.21	3.472	21.70
1200	1509				6.63	1.345	-89	0.20	7.371	21.87
1800	1511				6.62	1.363	-90	0.18	3.045	22.06

Unit Ltd
14 Oct. 2015

Start Time: 1505 Elapsed Time (min): 6 Water Quality Meter ID & SN: TROLL 9500 -- R25178

Stop Time: 1511 Average Purge Rate (mL/min): 300 Date Calibrated: 14 Oct. 2015

SAMPLING DATA

Sample Date: 14 Oct. 2015 Sample Time: 1520 Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): 300 QA/QCSamples: NONE

VOA Vials, No Headspace ~~X~~ Initials: DH.

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 1800 mL

LOW FLOW GROUNDWA . SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW | PROJECT NUMBER: 60400249-21563720.03004 | FIELD PERSONNEL: J. Fisher / D. Haxel

DATE: 5 Oct. 2015 | WEATHER: Cloudy 60°

MONITORING WELL ID: MW-23 | SAMPLE ID: MW23-ROX-100515

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 39.27 ft
Depth to Water (btoc): 28.89 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 29.02 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 10.38 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = 34.02 ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = — ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 3.9 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	1034	28.89	clear	slight	6.63	1.205	-88	0.37	6.063	19.13
600	1036	28.89	↓	↓	6.62	1.208	-93	0.14	1.681	19.11
1200	1038	28.89			6.62	1.210	-96	0.09	2.265	19.09
1800	1040	28.89			6.62	1.211	-98	0.05	0.4741	19.04

Samuel Fisher

Start Time: 1034 | Elapsed Time (min): 6 | Water Quality Meter ID & SN: TROLL 9500 -- R25178
Stop Time: 1040 | Average Purge Rate (mL/min): 300 | Date Calibrated: 10-5-15

SAMPLING DATA

Sample Date: 10-5-15 | Sample Time: 1045 | Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow | Sample Flow Rate (mL/min): 300 | QA/QCSamples: none
VOA Vials, No Headspace ☒ Initials: SF

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 1800 mL

LOW FLOW GROUNDWA[illegible] SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW | PROJECT NUMBER: 60400249-21563720.03004 | FIELD PERSONNEL: SFDH

DATE: 10-7-15 | WEATHER: 80° P. Cloudy

MONITORING WELL ID: MW-24 | SAMPLE ID: MW24-ROX-100715

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 49.14 ft
Depth to Water (btoc): 41.45 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 38.89 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 7.69 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = — ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at: SF 45.30
Depth to Top of Screen + 0.5*(Water Column Height) = ~~42.44~~ ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 41.7 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	1505	41.45	clear	none	6.95	1.317	94	6.96	0.4526	21.12
600	1507	↓			6.91	1.326	100	6.77	-2.982	20.88
1200	1509				6.87	1.340	105	6.36	0.5259	20.95
1800	1511	↓			6.85	1.374	111	5.61	-3.251	20.98
2400	1513	41.48			6.84	1.393	116	5.14	-1.706	20.96
3000	1515				6.83	1.400	121	4.93	-3.412	21.40
3600	1517				6.83	1.405	128	4.69	-0.1017	21.47
4200	1519				6.83	1.404	130	4.68	-3.797	21.70
4800	1521				6.83	1.398	134	4.73	-0.3195	22.02

Samuel Fisher

Start Time: 1505 | Elapsed Time (min): 16 | Water Quality Meter ID & SN: TROLL 9500 -- R25178
Stop Time: 1521 | Average Purge Rate (mL/min): 300 | Date Calibrated: 10-7-15

SAMPLING DATA

Sample Date: 10-7-15 | Sample Time: 1525 | Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow | Sample Flow Rate (mL/min): 300 | QA/QCSamples: none
VOA Vials, No Headspace ☒ Initials: SF

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 4800 mL

LOW FLOW GROUNDWA[illegible] SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW | PROJECT NUMBER: 60400249-21563720.03004 | FIELD PERSONNEL: S. Fisher / D. Haxec

DATE: 19 Oct. 2015 | WEATHER: Sunny 65°

MONITORING WELL ID: MW-25 | SAMPLE ID: MW25-ROX-101915

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 45.84 ft
Depth to Water (btoc): 36.55 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 35.59 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 9.29 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = ~~40.59~~ ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at: 41.19
Depth to Top of Screen + 0.5*(Water Column Height) = ___ ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = ___ ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = ___ ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.3 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	1024	36.55	cloudy	slight	6.83	1.332	-90	0.41	18.12	18.83
600	1026	36.60			6.80	1.334	-94	0.16	14.79	19.14
1200	1028	↓	↓	↓	6.79	1.334	-96	0.05	18.57	19.30
1800	1030				6.79	1.337	-96	0.02	12.26	19.39

D. Haxec 19 Oct. 2015

Start Time: 1024 | Elapsed Time (min): 6 | Water Quality Meter ID & SN: TROLL 9500 -- R25178
Stop Time: 1030 | Average Purge Rate (mL/min): 300 | Date Calibrated: 19 Oct. 2015

SAMPLING DATA

Sample Date: 19 Oct. 2015 | Sample Time: 1040 | Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow | Sample Flow Rate (mL/min): 300 | QA/QCSamples: None
VOA Vials, No Headspace ☒ Initials: DH

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 1800 mL

LOW FLOW GROUNDWA . SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW | PROJECT NUMBER: 60400249-21563720.03004 | FIELD PERSONNEL: S F DH

DATE: 10-6-15 | WEATHER: 75° P. Cloudy

MONITORING WELL ID: MW-26 | SAMPLE ID: MW26-ROX-100615

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 48.40 ft
Depth to Water (btoc): 39.19 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 38.15 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 9.21 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = — ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = 43.80 ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 1.3 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	1309	39.19	slightly foggy	none	6.94	0.909	233	1.34	1.978	22.17
600	1311	↓	Clear	↓	6.94	0.9065	255	1.07	0.6871	22.33
1200	1313		↓		6.99	0.9125	268	0.83	4.297	21.96
1800	1315				7.00	0.9105	278	0.78	1.544	21.76
2400	1317				7.00	0.9117	286	0.80	0.3531	21.69
3000	1319				7.00	0.9136	294	0.84	0.3445	21.58

Samuel Fisher

Start Time: 1309 | Elapsed Time (min): 10 | Water Quality Meter ID & SN: TROLL 9500 -- R25178
Stop Time: 1319 | Average Purge Rate (mL/min): 300 | Date Calibrated: 10-6-15

SAMPLING DATA

Sample Date: 10-6-15 | Sample Time: 1325 | Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow | Sample Flow Rate (mL/min): 300 | QA/QC Samples: none
VOA Vials, No Headspace [X] Initials: SF

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (125 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

water was clear the whole time. The measuring cup was just dirty at first. Total Purge Volume: 3000 mL

LOW FLOW GROUNDWA[illegible] SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW | PROJECT NUMBER: 60400249-21563720.03004 | FIELD PERSONNEL: S. Fisher / D. Hartzell

DATE: 8 Oct. 2015 | WEATHER: Sunny 80°

MONITORING WELL ID: ~~MW-11~~ MW-27 | SAMPLE ID: MW27-ROX-100815

INITIAL DATA

Well Diameter: 2 in | Total Well Depth (btoc): ~~51.00~~ ft | Depth to Water (btoc): 40.32 ft | Depth to LNAPL/DNAPL (btoc): — ft | Depth to Top of Screen (btoc): ~~41.66~~ ft | Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): ~~41.67~~ 9.72 ft btoc

If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = ~~46.66~~ ft btoc 44.79

If Depth to Top of Screen is < Depth to Water, Place Pump at: —
Depth to Top of Screen + 0.5*(Water Column Height) = _____ ft btoc

If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = — ft btoc

If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell: 600* mL | Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL | Ambient PID/FID Reading: 0.0 ppm | Wellbore PID/FID Reading: 92.1 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	1349	40.55	clear	none	6.79	1.082	34	0.82	6.813	20.26
600	1351	40.58	↓	↓	6.73	1.082	31	0.62	3.058	19.69
1200	1353	↓			6.71	1.084	33	0.60	-1.432	19.26
1800	1355				6.70	1.085	34	0.60	2.264	19.13

Start Time: 1349 | Elapsed Time (min): 6 | Water Quality Meter ID & SN: TROLL 9500 -- R25178

Stop Time: 1355 | Average Purge Rate (mL/min): 300 | Date Calibrated: 8 Oct. 2015

SAMPLING DATA

Sample Date: 8 Oct. 2015 | Sample Time: 1400 | Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow | Sample Flow Rate (mL/min): 300 | QA/QC Samples: none

VOA Vials, No Headspace ☑ Initials: D.H

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Purged directly into bucket before connecting to troll to allow sediment water to become visually sediment-free. Rugged reader data had erroneous DTB entered. Ignore that. Total Purge Volume: 1800 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW | PROJECT NUMBER: 60400249-21563720.03004 | FIELD PERSONNEL: S. Fisher / D. Haxel

DATE: 12 Oct. 2015 | WEATHER: P. Sunny, breezy, 78°

MONITORING WELL ID: MW-28 | SAMPLE ID: MW28-ROX-101215 / MW28-ROX-101215-Dup

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 43.86 ft
Depth to Water (btoc): 40.04 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 33.61 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 3.82 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = — ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at: SF 41.95
Depth to Top of Screen + 0.5*(Water Column Height) = ~~35.52~~ ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
STABLE: (over 3 readings)					+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp
0	1300	40.04	slight tint	NONE	6.67	2.224	53	0.74	14.26	21.70
600	1302	"			6.64	2.265	64	0.32	7.887	20.39
1200	1304	40.14			6.63	2.289	69	0.20	3.714	19.93
1800	1306	"			6.62	2.303	69	0.12	-0.0913	19.68

Start Time: 1300 | Elapsed Time (min): 6 | Water Quality Meter ID & SN: TROLL 9500 -- R25178
Stop Time: 1306 | Average Purge Rate (mL/min): 300 | Date Calibrated: 12 Oct. 2015

SAMPLING DATA

Sample Date: 12 Oct. 2015 | Sample Time: 1310 | Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow | Sample Flow Rate (mL/min): 300 | QA/QC Samples: Duplicate
VOA Vials, No Headspace ☒ Initials: DH.

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 1800 mL

LOW FLOW GROUNDWA. . SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW PROJECT NUMBER: 60400249-21563720.03004 FIELD PERSONNEL: SF DH

DATE: 10-9-15 WEATHER: 65° Overcast

MONITORING WELL ID: P-54 SAMPLE ID: P54-ROX-100915

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 63.00 ft
Depth to Water (btoc): 40.20 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 38.00 ft
Screen Length: 25 ft

Water Column Height (do not include LNAPL or DNAPL): 22.80 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = — ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = — ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = 45.20 USE 50.20 ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
STABLE: (over 3 readings)					+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp
0	1021	40.20	clear	none	6.89	1.272	68	5.93	11.48	17.30
600	1023				6.87	1.270	76	5.83	8.392	17.43
1200	1025				6.86	1.265	82	5.71	7.672	17.52
1800	1027				6.85	1.256	88	5.54	7.788	17.58
2400	1029				6.84	1.241	92	5.28	1.875	17.63
3000	1031				6.83	1.224	95	4.92	6.147	17.67
3600	1033				6.83	1.211	99	4.61	5.086	17.67
4200	1035				6.82	1.205	101	4.42	-0.2924	17.69
4800	1037				6.82	1.198	104	4.21	3.830	17.72
5400	1039				6.81	1.193	107	4.03	2.016	17.73
6000	1041				6.81	1.192	109	3.90	4.512	17.70
6600	1043				6.81	1.193	111	3.89	1.448	17.71
							DH			
						9 Oct. 2015				

Start Time: 1021 Elapsed Time (min): 22 Water Quality Meter ID & SN: TROLL 9500 -- R25178
Stop Time: 1043 Average Purge Rate (mL/min): 300 Date Calibrated: 10-9-15

SAMPLING DATA

Sample Date: 9 Oct. 2015 Sample Time: 1045 Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): 300 QA/QCSamples: None
VOA Vials, No Headspace ☒ Initials: DH

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 6600 mL

LOW FLOW GROUNDWA[illegible] SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW **PROJECT NUMBER:** 60400249-21563720.03004 **FIELD PERSONNEL:** SF DH

DATE: 10-13-15 **WEATHER:** 70° Clear

MONITORING WELL ID: P-55R **SAMPLE ID:** no sample

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 50.68 ft
Depth to Water (btoc): SF ~~43.79~~ ft
Depth to LNAPL/DNAPL (btoc): ~~43.72~~ ft SF
Depth to Top of Screen (btoc): 40.43 ft
Screen Length: 10 ft

41.85
41.84

Water Column Height (do not include LNAPL or DNAPL): — ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = — ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = — ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: SF ~~181.1~~ 397.6 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

STABLE: (over 3 readings) +/- 0.2 +/-3% +/-20 +/-0.2 mg /L or +/-10% Monitor Turb Readings (<50) Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)

Start Time: Elapsed Time (min): — Water Quality Meter ID & SN: TROLL 9500 -- —

Stop Time: Average Purge Rate (mL/min): — Date Calibrated: —

SAMPLING DATA

Sample Date: Sample Time: Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): QA/QC Samples:

VOA Vials, No Headspace ☐ Initials:

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

not sampled due to product

Total Purge Volume: mL

LOW FLOW GROUNDWA. .. SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW | PROJECT NUMBER: 60400249-21563720.03004 | FIELD PERSONNEL: S. Fisher / D. Haxel

DATE: 14 Oct. 2015 | WEATHER: Sunny 76°

MONITORING WELL ID: P-56 | SAMPLE ID: P56-WAR-101415 / P56-ROX-101415 | P56-ROX-101415-EB / P56-ROX DUP P56-WAR-101415-EB

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 65.82 ft
Depth to Water (btoc): 44.85 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 40.82 ft
Screen Length: 25 ft

Water Column Height (do not include LNAPL or DNAPL): 20.97 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = — ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = — ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = 49.85 ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
STABLE: (over 3 readings)					+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp
0	1245	44.85	Gray	Slight	6.88	2.121	-72	0.25	13.02	24.53
600	1247	↓	↓	↓	6.87	2.133	-91	0.06	18.60	24.19
1200	1249				6.86	2.119	-104	0.02	16.81	23.98
1800	1251				6.86	2.096	-114	0.02	19.83	23.90
2400	1253				6.85	2.067	-121	0.01	20.89	23.88

D. Haxel 14 Oct. 2015

Start Time: 1245 | Elapsed Time (min): 8 | Water Quality Meter ID & SN: TROLL 9500 -- R25178
Stop Time: 1253 | Average Purge Rate (mL/min): 300 | Date Calibrated: 14 Oct. 2015

SAMPLING DATA

Sample Date: 14 Oct. 2015 | Sample Time: 1300 | Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow | Sample Flow Rate (mL/min): 300 | QA/QCSamples: Equipment Blank
VOA Vials, No Headspace ☒ Initials: D.H.

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 2400 mL

LOW FLOW GROUNDWA[illegible] SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW | PROJECT NUMBER: 60400249-21563720.03004 | FIELD PERSONNEL: S. Fisher / D. Haxel

DATE: 15 Oct. 2015 | WEATHER: Sunny 75°

MONITORING WELL ID: P-57 | SAMPLE ID: P57-ROX-101515

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 54.19 ft
Depth to Water (btoc): 45.56 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 44.19 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 8.63 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = — ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = 48.51 ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.3 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	1346	45.56	slight tint	slight	6.51	1.781	-92	0.83	4.632	24.99
600	1348	↓	↓	↓	6.51	1.786	-96	0.50	5.231	24.94
1200	1350				6.51	1.795	-99	0.32	5.670	24.97
1800	1352				6.51	1.803	-102	0.24	3.429	24.99
2400	1354				6.52	1.810	-103	0.15	4.083	25.05

Jil Haxel 15 Oct. 2015

Start Time: 1346 | Elapsed Time (min): 8 | Water Quality Meter ID & SN: TROLL 9500 -- R25178
Stop Time: 1354 | Average Purge Rate (mL/min): 300 | Date Calibrated: 15 Oct. 2015

SAMPLING DATA

Sample Date: 15 Oct. 2015 | Sample Time: 1405 | Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow | Sample Flow Rate (mL/min): 300 | QA/QCSamples: NONE
VOA Vials, No Headspace ☒ Initials: D.H.

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 2400 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW | PROJECT NUMBER: 60400249-21563720.03004 | FIELD PERSONNEL: S. Fisher / D. Haxel

DATE: 16 Oct. 2015 | WEATHER: Sunny 63°

MONITORING WELL ID: P-58 | SAMPLE ID: P58-ROX-101615

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 65.21 ft
Depth to Water (btoc): 43.45 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 40.21 ft
Screen Length: 25 ft

Water Column Height (do not include LNAPL or DNAPL): 21.76 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = — ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = — ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = 48.45 ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
STABLE: (over 3 readings)					+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp
0	0922	43.45	slight green	moderate	6.44	1.728	-75	1.33	1.477	21.01
600	0924	↓	↓	↓	6.47	1.728	-82	0.80	0.7947	21.85
1200	0926				6.47	1.719	-86	0.47	2.613	22.27
1800	0928				6.47	1.709	-87	0.22	0.8467	22.49
2400	0930	43.70			6.47	1.699	-90	0.14	0.9785	22.75
3000	0932	"			6.47	1.693	-91	0.08	2.587	22.79

Start Time: 0922 | Elapsed Time (min): 10 | Water Quality Meter ID & SN: TROLL 9500 -- R25178

Stop Time: 0932 | Average Purge Rate (mL/min): 300 | Date Calibrated: 16 Oct. 2015

SAMPLING DATA

Sample Date: 16 Oct. 2015 | Sample Time: 0940 | Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow | Sample Flow Rate (mL/min): 300 | QA/QC Samples: NONE

VOA Vials, No Headspace ☒ Initials: D.H.

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 3000 mL

LOW FLOW GROUNDWA[illegible] SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW PROJECT NUMBER: 60400249-21563720.03004 FIELD PERSONNEL: S. Fisher / D. Haxel

DATE: 15 Oct. 2015 WEATHER: Sunny 70°

MONITORING WELL ID: P-59 SAMPLE ID: P59-ROX-101515 / P59-WRR-101515

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 72.91 ft
Depth to Water (btoc): 45.75 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 47.91 ft
Screen Length: 25 ft

Water Column Height (do not include LNAPL or DNAPL): 27.16 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = ——— ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = ——— ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = 52.91 ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = ——— ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 301.2 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
STABLE: (over 3 readings)					+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp
0	1050	45.75	slight green tint	slight	6.55	1.759	-102	0.85	-1.396	25.51
600	1052	↓	↓	↓	6.55	1.769	-109	0.23	1.266	25.98
1200	1054				6.55	1.775	-112	0.11	-2.965	26.25
1800	1056				6.55	1.771	-114	0.05	-2.264	26.20
2400	1058				6.54	1.773	-114	0.04	0.9636	26.13

Start Time: 1050 Elapsed Time (min): 8 Water Quality Meter ID & SN: TROLL 9500 -- R25178

Stop Time: 1058 Average Purge Rate (mL/min): 300 Date Calibrated: 15 Oct. 2015

SAMPLING DATA

Sample Date: 15 Oct. 2015 Sample Time: 1115 Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): 300 QA/QCSamples: NONE

VOA Vials, No Headspace ☒ Initials: DH.

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 2400 mL

LOW FLOW GROUNDWA[illegible] SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW PROJECT NUMBER: 60400249-21563720.03004 FIELD PERSONNEL: S. Fisher / D. Haxel

DATE: 14 Oct. 2015 WEATHER: Sunny 65°

MONITORING WELL ID: P-60-12S (PERCHED) SAMPLE ID: not sampled

INITIAL DATA

Well Diameter): 0.75 in
Total Well Depth (btoc): 23.84 ft
Depth to Water (btoc): NE ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 13.84 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type:

	STABLE: (over 3 readings)	+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)

Start Time: Elapsed Time (min): Water Quality Meter ID & SN: TROLL 9500 --

Stop Time: Average Purge Rate (mL/min): Date Calibrated:

SAMPLING DATA

Sample Date: Sample Time: Lab Analysis: VOC, SVOC

Sample Method: Peristaltic Pump / Low Flow Sample Flow Rate (mL/min): QA/QCSamples:

VOA Vials, No Headspace ☐ Initials:

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

well dry, not sampled

Total Purge Volume: mL

LOW FLOW GROUNDWA[illegible] SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW PROJECT NUMBER: 60400249-21563720.03004 FIELD PERSONNEL: SF DH

DATE: 10-14-15 WEATHER: 65° Sunny

MONITORING WELL ID: P-60-13S (PERCHED) SAMPLE ID: not sampled

INITIAL DATA

Well Diameter): 0.75 in
Total Well Depth (btoc): 20.00 ft
Depth to Water (btoc): 18.59 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 10.00 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): ~ ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = ~ ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = ~ ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = ~ ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = ~ ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: ~

	STABLE: (over 3 readings)	+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)

Start Time: Elapsed Time (min): Water Quality Meter ID & SN: TROLL 9500 --

Stop Time: Average Purge Rate (mL/min): Date Calibrated:

SAMPLING DATA

Sample Date: Sample Time: Lab Analysis: VOC, SVOC

Sample Method: Peristaltic Pump / Low Flow Sample Flow Rate (mL/min): QA/QCSamples:

VOA Vials, No Headspace ☐ Initials:

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Not enough water to sample

Total Purge Volume: ~ mL

LOW FLOW GROUNDWA . SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW | PROJECT NUMBER: 60400249-21563720.03004 | FIELD PERSONNEL: SF DH

DATE: 10-13-15 | WEATHER: 65° Sunny

MONITORING WELL ID: P-66 | SAMPLE ID: P66-ROX-101315

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 59.72 ft
Depth to Water (btoc): 34.84 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 34.72 ft
Screen Length: 25 ft

Water Column Height (do not include LNAPL or DNAPL): 24.88 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = — ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = 39.84 ~~47.28~~ ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 2.1 ppm
Wellbore PID/FID Reading: 1.8 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	1118	34.84	clear	none	6.50	1.224	-85	0.74	6.782	20.33
600	1120	↓	↓	↓	6.45	1.210	-82	0.26	0.3562	20.71
1200	1122				6.44	1.202	-83	0.20	4.234	20.89
1800	1124				6.43	1.201	-83	0.16	4.272	21.10

Samuel Fisher

Start Time: 1118 | Elapsed Time (min): 6 ~~+130~~ SF | Water Quality Meter ID & SN: TROLL 9500 -- R25178
Stop Time: 1124 | Average Purge Rate (mL/min): 300 | Date Calibrated: 10-13-15

SAMPLING DATA

Sample Date: 10-13-15 | Sample Time: 1130 | Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow | Sample Flow Rate (mL/min): 300 | QA/QCSamples: none
VOA Vials, No Headspace [X] Initials: SF

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 1800 mL

LOW FLOW GROUNDWA[illegible] SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW PROJECT NUMBER: 60400249-21563720.03004 FIELD PERSONNEL: SF DH

DATE: 10-13-15 WEATHER: 70° Clear

MONITORING WELL ID: P-68 SAMPLE ID: no sample

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 70.26 ft
Depth to Water (btoc): 43.79 ft
Depth to LNAPL/DNAPL (btoc): 43.72 ft
Depth to Top of Screen (btoc): 45.26 ft
Screen Length: 25 ft

Water Column Height (do not include LNAPL or DNAPL): ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is ≤10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 181.1 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)

Start Time: Elapsed Time (min): Water Quality Meter ID & SN: TROLL 9500 --

Stop Time: Average Purge Rate (mL/min): Date Calibrated:

SAMPLING DATA

Sample Date: Sample Time: Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): QA/QC Samples:

VOA Vials, No Headspace ☐ Initials:

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

not sampled due to product

Total Purge Volume: mL

LOW FLOW GROUNDWA .(SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW PROJECT NUMBER: 60400249-21563720.03004 FIELD PERSONNEL: S. Fisher / D. Haxel

DATE: 14 Oct. 2015 WEATHER: Sunny 70°

MONITORING WELL ID: P-74 SAMPLE ID: P74-ROX-101415

INITIAL DATA

Well Diameter): 4 in
Total Well Depth (btoc): 69.43 ft
Depth to Water (btoc): 41.75 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 44.43 ft
Screen Length: 25 ft

Water Column Height (do not include LNAPL or DNAPL): 27.68 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = — ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = — ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = 49.43 ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

STABLE: (over 3 readings) +/- 0.2 +/-3% +/-20 +/-0.2 mg /L or +/-10% Monitor Turb Readings (<50) Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	1039	41.75	slight brwn	slight	6.29	0.3603	-57	0.75	-2.615	20.41
600	1041	↓	↓	↓	6.33	0.3668	-63	0.35	1.606	20.46
1200	1043				6.36	0.3718	-67	0.21	5.999	20.49
1800	1045				6.37	0.3743	-69	0.15	-0.7139	20.62

14 Oct. 2015

Start Time: 1039 Elapsed Time (min): 7 Water Quality Meter ID & SN: TROLL 9500 -- R25178

Stop Time: 1046 Average Purge Rate (mL/min): 300 Date Calibrated: 14 Oct. 2015

SAMPLING DATA

Sample Date: 14 Oct. 2015 Sample Time: 1050 Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow Sample Flow Rate (mL/min): 300 QA/QCSamples: None

VOA Vials, No Headspace ☑ Initials: D. Haxel

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 1800 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW PROJECT NUMBER: 60400249-21563720.03004 FIELD PERSONNEL: NChase/CWilliams

DATE: 10-15-15 WEATHER: Sunny 75°F

MONITORING WELL ID: P-93A SAMPLE ID: P93A-Rox-101515 + P93A-WRR-101515 +Dup +Dup

INITIAL DATA

Well Diameter: 2 in 53.07
Total Well Depth (btoc): ~~54.56~~ ft
Depth to Water (btoc): 43.69 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): ~~44.56~~ ft
Screen Length: 10 ft 43.07

Water Column Height (do not include LNAPL or DNAPL): 9.38 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = - ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = 48.38 ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = - ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = - ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH (STABLE: +/- 0.2)	Specific Cond. (mS/cm) (+/-3%)	ORP (mV) (+/-20)	DO (mg/L) (+/-0.2 mg /L or +/-10%)	Turbidity (NTUs) (Monitor Turb Readings (<50))	Temp (°C) (Monitor Temp)
0	1433	43.74	none	none	6.68	1.689	-0	0.61	50.86	20.81
1200	1437				6.68	1.692	-3	0.36	32.38	20.58
1500	1438				6.68	1.687	-5	0.21	22.87	20.25
2100	1440				6.68	1.677	-3	0.17	16.30	20.18

Start Time: 1433 Elapsed Time (min): 7 Water Quality Meter ID & SN: TROLL 9500 -- R25438

Stop Time: 1440 Average Purge Rate (mL/min): 300 Date Calibrated: 10-15-15

SAMPLING DATA

Sample Date: 10-15-15 Sample Time: 1445 Lab Analysis: VOC, SVOC (Metals split sample)

Sample Method: ~~Bladder Pump~~ / Low Flow OR Monsoon Pump Sample Flow Rate (mL/min): 300 QA/QC Samples: Dup

VOA Vials, No Headspace ☒ Initials: NAC CW

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 2100 mL

LOW FLOW GROUNDWA... SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW | PROJECT NUMBER: 60400249-21563720.03004 | FIELD PERSONNEL: DChaselCWilliams

DATE: 10-15-15 | WEATHER: Sunny 70°F

MONITORING WELL ID: P-93B | SAMPLE ID: P93B-ROX-101515 + P93B-WRR-101515

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 76.60 ft
Depth to Water (btoc): 45.18 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 74.60 ft
Screen Length: 2 ft

Water Column Height (do not include LNAPL or DNAPL): 31.42 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = — ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = — ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

@ 75.60' dedicated well wizard.

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Dedicated Well Wizard

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH (STABLE: +/- 0.2 over 3 readings)	Specific Cond. (mS/cm) (+/-3%)	ORP (mV) +/-20	DO (mg/L) +/-0.2 mg/L or +/-10%	Turbidity (NTUs) Monitor Turb Readings (<50)	Temp (°C) Monitor Temp
0	1030	45.18	none	none	6.94	1.411	-96	0.21	79.22	18.95
800	1034	↓	↓	↓	6.93	1.403	-94	0.29	86.77	19.19
1500	1037	↓	↓	↓	6.93	1.400	-93	0.34	87.66	19.35
2300	1041	↓	↓	↓	6.93	1.397	-93	0.37	91.70	19.48

5%

Start Time: 1030 | Elapsed Time (min): 11 | Water Quality Meter ID & SN: TROLL 9500 -- R25438

Stop Time: 1041 | Average Purge Rate (mL/min): 200 | Date Calibrated: 10-15-15

SAMPLING DATA

Sample Date: 10-15-15 | Sample Time: 1045 | Lab Analysis: VOC, SVOC (D metals split sample)

Sample Method: Bladder Pump / Low Flow | Sample Flow Rate (mL/min): 200 | QA/QCSamples: none

VOA Vials, No Headspace ☒ Initials: DMC CW

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 2300 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW | PROJECT NUMBER: 60400249-21563720.03004 | FIELD PERSONNEL: S. Fisher / D. Haxel

DATE: 14 Oct. 2015 | WEATHER: Sunny 75°

MONITORING WELL ID: P-93C | SAMPLE ID: P93C-ROX-101415 and P93C-WRR-101415

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 97.47 ft
Depth to Water (btoc): 44.91 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 92.47 ft
Screen Length: 5 ft

Water Column Height (do not include LNAPL or DNAPL): 52.56 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = 94.97 ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = — ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 24.5 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	1136	44.91	CLEAR	NONE	7.27	1.186	-103	1.02	5.676	20.88
600	1138	↓	↓	↓	6.99	1.239	-96	0.55	6.362	20.43
1200	1140				6.91	1.259	-94	0.33	3.512	20.25
1800	1142				6.88	1.270	-93	0.23	2.906	20.26
2400	1144				6.87	1.262	-93	0.20	0.6872	20.39

S. Fisher 14 Oct. 2015

Start Time: 1136 | Elapsed Time (min): 8 | Water Quality Meter ID & SN: TROLL 9500 -- R25178
Stop Time: 1144 | Average Purge Rate (mL/min): 300 | Date Calibrated: 14 Oct. 2015

SAMPLING DATA

Sample Date: 14 Oct. 2015 | Sample Time: 1150 | Lab Analysis: VOC, SVOC
Sample Method: ~~Bladder Pump~~ / Low Flow Monsoon Pump | Sample Flow Rate (mL/min): 300 | QA/QCSamples: NONE
VOA Vials, No Headspace ☒ Initials: DH

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 2400 mL

LOW FLOW GROUNDWA . SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW **PROJECT NUMBER:** 60400249-21563720.03004 **FIELD PERSONNEL:** DChase/CWilliams

DATE: 10-15-15 **WEATHER:** sunny 75°F

MONITORING WELL ID: P-93D **SAMPLE ID:** P93D-ROX-101515 + P93D-WRR-101515

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 128.00 ft
Depth to Water (btoc): 45.28 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 125.75 ft
Screen Length: 2 ft

Water Column Height (do not include LNAPL or DNAPL): 82.72 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = — ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = — ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

dedicated @126.75' well wizard

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Dedicated Well Wizard

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
STABLE: (over 3 readings)					+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp
0	1350	45.28	none	none	7.12	1.572	-200	1.10	1.664	20.65
1800	1359	↓	↓	↓	7.09	1.540	-194	0.17	2.255	19.55
3600	1403				7.07	1.585	-195	0.10	1.687	19.39
4800	1409				7.08	1.568	-194	0.09	2.169	19.30

5%

Start Time: 1350 **Elapsed Time (min):** 19 **Water Quality Meter ID & SN:** TROLL 9500 -- R25438

Stop Time: 1409 **Average Purge Rate (mL/min):** 300 **Date Calibrated:** 10-15-15

SAMPLING DATA

Sample Date: 10-15-15 **Sample Time:** 1415 **Lab Analysis:** VOC, SVOC (Dmetals split sample)

Sample Method: Monsoon Pump / Low Flow **Sample Flow Rate (mL/min):** 300 **QA/QCSamples:** none

VOA Vials, No Headspace ☑ **Initials:** DAA CW

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 4800 mL

LOW FLOW GROUNDW[illegible] SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW **PROJECT NUMBER:** 60400249-21563720.03004 **FIELD PERSONNEL:** SF DH

DATE: 10-5-15 **WEATHER:** 60° Overcast

MONITORING WELL ID: P-114R **SAMPLE ID:** P114R-ROX-100515, P114R-ROX-100515-MS, P114R-ROX-100515-MSD, P114R-100515-EB

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 33.31 ft
Depth to Water (btoc): 26.24 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 23.01 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 7.07 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = — ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = 29.78 ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 1.1 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel ~~Dedicated Well Wizard~~ Submersible Pump

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
					STABLE: (over 3 readings)	+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp
0	1216	26.24	slightly foggy	slight	6.80	1.259	-140	0.21	18.69	20.67
600	1218	26.30	↓	↓	6.81	1.257	-142	0.11	13.84	20.85
1200	1220	↓	↓	↓	6.81	1.257	-144	0.08	8.858	21.06
1800	1222	↓	↓	↓	6.81	1.256	-146	0.03	4.256	21.19

[signature]
5 Oct. 2015

Start Time: 1216
Stop Time: 1222
Elapsed Time (min): 6
Average Purge Rate (mL/min): 300
Water Quality Meter ID & SN: TROLL 9500 -- R25178
Date Calibrated: 10-5-15

SAMPLING DATA

Sample Date: 10-5-15
Sample Method: Monsoon Pump ~~Bladder Pump~~ / Low Flow
VOA Vials, No Headspace ☒ Initials: D.H.
Sample Time: 1230
Sample Flow Rate (mL/min): 300
Lab Analysis: VOC, SVOC
QA/QCSamples: EB, MS/MSD

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 1800 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW | PROJECT NUMBER: 60400249-21563720.03004 | FIELD PERSONNEL: S. Fisher / D. Haxel

DATE: 12 Oct. 2015 | WEATHER: Sunny 70°

MONITORING WELL ID: ROST-3-MW | SAMPLE ID: ROSTMW3-ROX-101215

INITIAL DATA

Well Diameter): 2 in
Total Well Depth (btoc): 48.06 ft
Depth to Water (btoc): 40.29 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 37.81 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 7.77 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = — ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = 44.17 ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 2.6 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	0900	40.29	clear	slight	6.65	1.224	-105	0.75	-0.7079	18.90
600	0902	40.41			6.72	1.223	-110	0.37	2.650	18.68
1200	0904				6.74	1.222	-111	0.19	2.553	18.56
1800	0906				6.76	1.221	-114	0.14	1.014	18.57
2400	0908				6.77	1.219	-118	0.07	2.219	18.58

S. Fisher
12 Oct. 2015

Start Time: 0900 | Elapsed Time (min): ~~10~~ 8 | Water Quality Meter ID & SN: TROLL 9500 -- R25178

Stop Time: ~~0910~~ 0908 | Average Purge Rate (mL/min): 300 | Date Calibrated: 12 Oct. 2015

SAMPLING DATA

Sample Date: 0900 | Sample Time: 0915 | Lab Analysis: VOC, SVOC

Sample Method: Monsoon Pump / Low Flow | Sample Flow Rate (mL/min): 300 | QA/QCSamples: NONE

VOA Vials, No Headspace ☒ Initials: D.H

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 2400 mL

LOW FLOW GROUNDWA[illegible] SAMPLING DATA SHEET

PROJECT NUMBER: 60400249-21563720.03004

PROJECT NAME: Roxana 4Q15 GW

FIELD PERSONNEL: S. Fisher / D. Haxel

DATE: 12 Oct. 2015

WEATHER: P. Cloudy 720

MONITORING WELL ID: ROST-4-PZ(C)

SAMPLE ID: ROST4PZ(C)-ROX-101215

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 45.20 ft
Depth to Water (btoc): 40.35 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 34.95 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 4.85 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = — ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = 42.67 ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

	STABLE: (over 3 readings)	+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
0	1401	40.35	blackish	strong	6.91	2.259	-101	0.68	11.18	20.06
600	1403	↓	↓	↓	6.90	2.244	-105	0.24	12.00	19.69
1200	1405				6.90	2.232	-109	0.08	7.104	19.58
1800	1407				6.90	2.219	-111	0.05	3.061	19.53
2400	1409				6.90	2.211	-113	0.02	2.411	19.49

[illegible]
12 Oct. 2015

Start Time: 1401
Stop Time: 1409

Elapsed Time (min): 8
Average Purge Rate (mL/min): 300

Water Quality Meter ID & SN: TROLL 9500 -- R25178
Date Calibrated: 12 Oct. 2015

SAMPLING DATA

Sample Date: 12 Oct. 2015
Sample Time: 1415
Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow
Sample Flow Rate (mL/min): 300
QA/QCSamples: None
VOA Vials, No Headspace ☒ Initials: DH

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Total Purge Volume: 2400 mL

LOW FLOW GROUNDWA... SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW **PROJECT NUMBER:** 60400249-21563720.03004 **FIELD PERSONNEL:** S. Fisher / D. Haxel

DATE: 6 Oct 2015 **WEATHER:** P. Cloudy 70° / 10:40

MONITORING WELL ID: ROST-5-PZ (PERCHED) **SAMPLE ID:** None

INITIAL DATA

DTB = 22.98

Well Diameter): 1 in
Total Well Depth (btoc): 23.20 ft
Depth to Water (btoc): NE ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 13.20 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): — ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = — ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = — ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.2 ppm

PURGE DATA

Pump Type: —

STABLE: (over 3 readings)	+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)

6 Oct 2015

Start Time: — Elapsed Time (min): — Water Quality Meter ID & SN: TROLL 9500 -- —

Stop Time: — Average Purge Rate (mL/min): — Date Calibrated: —

SAMPLING DATA

Sample Date: — Sample Time: — Lab Analysis: VOC, SVOC

Sample Method: Peristaltic Pump / Low Flow Sample Flow Rate (mL/min): — QA/QC Samples: —

VOA Vials, No Headspace ☐ Initials: —

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Well dry. No sample collected

Total Purge Volume: mL

LOW FLOW GROUNDWA[illegible] SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW **PROJECT NUMBER:** 60400249-21563720.03004 **FIELD PERSONNEL:** S. Fisher / D. HAXEL

DATE: 6 Oct. 2015 **WEATHER:** P. Cloudy 75° 10:35

MONITORING WELL ID: ROST-7-PZ (PERCHED) **SAMPLE ID:** NONE

INITIAL DATA

DTB = 28.83

Well Diameter): 1 in
Total Well Depth (btoc): 30.00 ft
Depth to Water (btoc): 20.80 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 20.00 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 8.03 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = — ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = — ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 1.2 ppm

PURGE DATA

Pump Type: —

STABLE: (over 3 readings)	+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)

Start Time: — Elapsed Time (min): — Water Quality Meter ID & SN: TROLL 9500 -- —

Stop Time: — Average Purge Rate (mL/min): — Date Calibrated: —

SAMPLING DATA

Sample Date: — Sample Time: — Lab Analysis: VOC, SVOC

Sample Method: Peristaltic Pump / Low Flow Sample Flow Rate (mL/min): — QA/QC Samples: —

VOA Vials, No Headspace ☑ ~~Initials:~~ —

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Well not sampled due to insufficient amounts of water.

Total Purge Volume: mL

6 Oct. 2015

LOW FLOW GROUNDWA[illegible]R SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW PROJECT NUMBER: 60400249-21563720.03004 FIELD PERSONNEL: S. Fisher / D. Haxel

DATE: 6 Oct. 2015 WEATHER: P. Cloudy 75° 10:50

MONITORING WELL ID: ROST-10-PZ (PERCHED) SAMPLE ID: NONE

INITIAL DATA

DTB = 19.85

Well Diameter): 1 in
Total Well Depth (btoc): 20.00 ft
Depth to Water (btoc): NE ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): 10.00 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): — ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = — ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = — ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: —

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)

STABLE: (over 3 readings) +/- 0.2 +/-3% +/-20 +/-0.2 mg /L or +/-10% Monitor Turb Readings (<50) Monitor Temp

Start Time: — Elapsed Time (min): — Water Quality Meter ID & SN: TROLL 9500 --
Stop Time: — Average Purge Rate (mL/min): — Date Calibrated: —

SAMPLING DATA

Sample Date: — Sample Time: — Lab Analysis: VOC, SVOC
Sample Method: Peristaltic Pump / Low Flow Sample Flow Rate (mL/min): — QA/QCSamples: —
VOA Vials, No Headspace ☐ Initials: —

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH_ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Well dry. No sample collected.

Total Purge Volume: — mL

LOW FLOW GROUNDWA[illegible]R SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW PROJECT NUMBER: 60400249-21563720.03004 FIELD PERSONNEL: S. Fisher / D. Haxel

DATE: 6 Oct. 2015 WEATHER: P. Cloudy 75°

MONITORING WELL ID: ROST-21-PZ (PERCHED) SAMPLE ID: NONE

INITIAL DATA

DTB = 19.83

Well Diameter): 1 in
Total Well Depth (btoc): 20.00 ft
Depth to Water (btoc): 19.40 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 10.00 ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 0.43 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = — ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = — ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell : 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.2 ppm

PURGE DATA

Pump Type: —

	STABLE: (over 3 readings)	+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)

Start Time: — Elapsed Time (min): — Water Quality Meter ID & SN: TROLL 9500 --

Stop Time: — Average Purge Rate (mL/min): — Date Calibrated: —

SAMPLING DATA

Sample Date: — Sample Time: — Lab Analysis: VOC, SVOC

Sample Method: Peristaltic Pump / Low Flow Sample Flow Rate (mL/min): — QA/QCSamples: —

VOA Vials, No Headspace ☐ Initials: —

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (725 mL) - pH ORP (16 mL) - RDO (56 mL) - Cond (13 mL) - Turb (40 mL)

Well not sampled due to not enough water in well preventing sampling Per SOP.

Total Purge Volume: — mL

LOW FLOW GROUNDWA[illegible] SAMPLING DATA SHEET

PROJECT NAME: Roxana 4Q15 GW | PROJECT NUMBER: 60400249-21563720.03004 | FIELD PERSONNEL: S. Fisher / D. Haxel

DATE: 15 Oct. 2015 | WEATHER: Sunny 65°

MONITORING WELL ID: T-12 | SAMPLE ID: T12-ROX-101515 / T12-WRR-101515

INITIAL DATA

Well Diameter): 6 in 72.83
Total Well Depth (btoc): ~~72.45~~ ft
Depth to Water (btoc): 43.72 ft
Depth to LNAPL/DNAPL (btoc): NE ft
Depth to Top of Screen (btoc): ~~46.45~~ ft
Screen Length: 26 ft 46.83

Water Column Height (do not include LNAPL or DNAPL): 29.11 ft btoc
If Depth to Top of Screen is > Depth to Water, and screen length is <=10' Place Pump at:
Depth to Top of Screen + 0.5*(Screen Length) = — ft btoc
If Depth to Top of Screen is < Depth to Water, Place Pump at:
Depth to Top of Screen + 0.5*(Water Column Height) = — ft btoc
If Screen Length >10', Place Pump at: 0.5*(Upper 10' of Screen OR Upper 10' of Water Column, whichever is deeper) = 51.83 ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell: 600* mL
Minimum Purge Volume = (3 x Flow Cell Volume): 1800 mL
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 6.1 ppm

PURGE DATA

Pump Type: Monsoon Stainless Steel Submersible Pump

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Specific Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)	Temp (°C)
STABLE: (over 3 readings)					+/- 0.2	+/-3%	+/-20	+/-0.2 mg /L or +/-10%	Monitor Turb Readings (<50)	Monitor Temp
0	0949	43.72	clear	slight	6.45	1.206	-103	1.20	7.064	22.60
600	0951				6.56	1.227	-113	0.61	5.549	22.88
1200	0953				6.60	1.232	-118	0.27	-6.718	23.07
1800	0955				6.62	1.231	-122	0.14	-6.052	23.13
2400	0957				6.63	1.233	-124	0.11	-1.484	23.15
3000	0959				6.64	1.232	-125	0.09	0.9143	23.19

15 Oct. 2015

Start Time: 0949 | Elapsed Time (min): 10 | Water Quality Meter ID & SN: TROLL 9500 -- R25178
Stop Time: 0959 | Average Purge Rate (mL/min): 300 | Date Calibrated: 15 Oct. 2015

SAMPLING DATA

Sample Date: 15 Oct. 2015 | Sample Time: 1010 | Lab Analysis: VOC, SVOC
Sample Method: Monsoon Pump / Low Flow | Sample Flow Rate (mL/min): 300 | QA/QCSamples: NONE
VOA Vials, No Headspace ☒ Initials: D.H.

COMMENTS:

Total Purge Volume: 3000 mL

Appendix C.
Data Review Forms and Laboratory Analytical Reports

Roxana Groundwater Quarterly – 4th Quarter 2015 Data Review

Laboratory SDG: 400-112002-Rev.1

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 11/13/2015

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2014

Sample Identification	Sample Identification
TB-ROX-100515-8260	TB-ROX-100515-8011
P114R-ROX-100515-EB	P114R-ROX-100515
MW13-ROX-100515	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, although not indicated in the laboratory case narrative, 2-methylnaphthalene was detected in the equipment blank. The LCS recovery for acetone was outside evaluation criteria. The SVOC surrogate recovery for terphenyl-d_{14} was outside evaluation criteria in sample P114-ROX-100515. VOC MSD and SVOC MS/MSD recoveries and VOC and SVOC MS/MSD RPDs were outside evaluation criteria in sample P114-ROX-100515. These issues are addressed further in the appropriate sections below.

Additionally, the continuing calibration verification for acetone exceeded evaluation criteria; associated samples were non-detect for acetone, therefore no qualification was required. Also, the laboratory report was revised to correctly include 1,2-diphenylhydrazine, acenaphthylene, and benzo(g,h,i)perylene in the report, which had been inadvertently omitted by the laboratory. Three of 69 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds, results may be biased low due to the presence of HCl in the preservative.

The cooler receipt form did not indicate any problems.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/ Amount
P114R-ROX-100515-EB	PAHs	2-Methylnaphthalene	0.028 µg/L

Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification. No qualification of data was required.

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS ID	Parameter	Analyte	LCS Percent Recovery	LCS Criteria
LCS 400-278883/1002	VOCs	Acetone	**227**	43-160

Analytical data reported as non-detect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. No qualification of data was required.

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Sample ID	Parameter	Surrogate	Recovery (%)	Criteria (%)
P114R-ROX-100515	SVOCs	Terphenyl-d_{14}	**52**	53-125

Qualifications due to surrogate recoveries were not required due to only one of six SVOC surrogate recoveries being outside evaluation criteria in sample P114-ROX-100515. No qualification of data was required.

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

Yes, sample P114-ROX-100515 was spiked and analyzed for Method 8260 VOCs, Method 8011 VOCs, SVOCs, and PAHs.

Were MS/MSD recoveries within evaluation criteria?

No

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery (%)	RPD	MS/MSD/ RPD Criteria
P114R-ROX-100515	VOCs	Bromoform	111/**144**	26	50-140/30
P114R-ROX-100515	VOCs	Chloroethane	119/86	**33**	50-151/30
P114R-ROX-100515	VOCs	Chloromethane	135/91	**39**	49-148/31
P114R-ROX-100515	VOCs	Vinyl acetate	158/**166**	5	26-160/33
P114R-ROX-100515	VOCs	Vinyl chloride	127/83	**41**	46-152/30
P114R-ROX-100515	SVOCs	3,3'-Dichlorobenzidine	**0/0**	**NC**	10-172/58

LCS/LCSD recoveries were within evaluation criteria; no further qualification of data was required.

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

Yes

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples analyzed as part of this SDG?

No

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

11.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; samples analyzed did not require dilution.

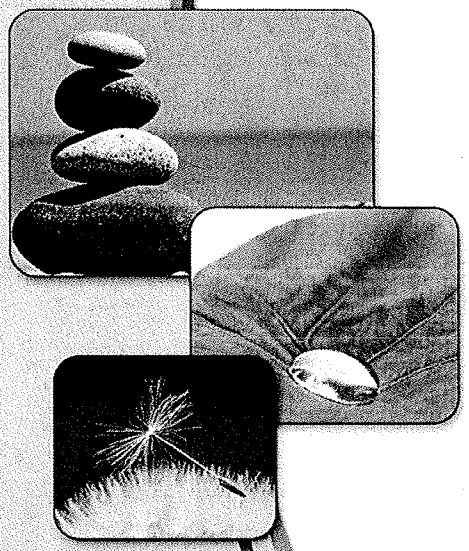
12.0 Additional Qualifications

Were additional qualifications applied?

No

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-112002-1
TestAmerica SDG: Proj. 6400249-21563720.03004
Client Project/Site: ROXANA QUARTERLY GW
Revision: 1

For:
AECOM Technical Services Inc.
1001 Highlands Plaza Dr. West
St. Louis, Missouri 63110

Attn: Mrs. Elizabeth Kunkel

Carolyn S. Hooper

Authorized for release by:
10/26/2015 5:35:14 PM

Carolyn Hooper, Project Manager I
(850)474-1001
carolyn.hooper@testamericainc.com

Reviewed 11/13/15 LH

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Job ID: 400-112002-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-112002-1

Revision 1
This report has been revised to include 1,2-diphenylhydrazine in the semi-volatile list by method 8270. This compound was inadvertently unchecked during final review of 8270 compound list and omitted from the original report.
An additional reference has been included in the GC/MS VOA method 8260 section about preservation.

Receipt
The samples were received on 10/6/2015 10:03 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 3.0°C, 3.3°C and 3.8°C.

GC/MS VOA
Method 8260B: The preservative used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: TB-ROX-100515-8260 (400-112002-1), P114R-ROX-100515-EB (400-112002-3), P114R-ROX-100515 (400-112002-4) and MW13-ROX-100515 (400-112002-5). The requested target analyte list includes 2-chloroethyl vinyl ether, Acrolein, and Acrylonitrile which are acid-labile compounds that degrade in an acidic medium.

The continuing calibration verification (CCV) associated with batch 278883 recovered above the upper control limit for Acetone. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

The matrix spike / matrix spike duplicate (MS/MSD) precision for batch 278883 was outside control limits for several analytes. Sample matrix interference and/or non-homogeneity are suspected.

The matrix spike duplicate (MSD) recoveries for 278883 were outside control limits for two analytes. Sample matrix interference and/or non-homogeneity are suspected.

GC/MS Semi VOA
Method 8270C: Surrogate recovery for the following sample was outside control limits: P114R-ROX-100515 (400-112002-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

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Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-112002-1
SDG: Proj. 6400249-21563720.03004

Client Sample ID: TB-ROX-100515-8260 — Lab Sample ID: 400-112002-1

No Detections.

Client Sample ID: TB-ROX-100515-8011 — Lab Sample ID: 400-112002-2

No Detections.

Client Sample ID: P114R-ROX-100515-EB — Lab Sample ID: 400-112002-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.028	J	0.20	0.020	ug/L	1		8270C LL	Total/NA

Client Sample ID: P114R-ROX-100515 — Lab Sample ID: 400-112002-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.071	J	0.20	0.040	ug/L	1		8270C LL	Total/NA
Benzo[b]fluoranthene	0.070	J	0.20	0.040	ug/L	1		8270C LL	Total/NA
Benzo[k]fluoranthene	0.060	J	0.20	0.040	ug/L	1		8270C LL	Total/NA

Client Sample ID: MW13-ROX-100515 — Lab Sample ID: 400-112002-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	0.85		0.20	0.020	ug/L	1		8270C LL	Total/NA

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-112002-1
SDG: Proj. 6400249-21563720.03004

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-112002-1	TB-ROX-100515-8260	Water	10/05/15 00:00	10/06/15 10:03
400-112002-2	TB-ROX-100515-8011	Water	10/05/15 00:00	10/06/15 10:03
400-112002-3	P114R-ROX-100515-EB	Water	10/05/15 11:20	10/06/15 10:03
400-112002-4	P114R-ROX-100515	Water	10/05/15 12:30	10/06/15 10:03
400-112002-5	MW13-ROX-100515	Water	10/05/15 14:45	10/06/15 10:03

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Client Sample ID: TB-ROX-100515-8260
Date Collected: 10/05/15 00:00
Date Received: 10/06/15 10:03

Lab Sample ID: 400-112002-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	*	25	10	ug/L			10/15/15 08:32	1
Acrolein	ND		20	10	ug/L			10/15/15 08:32	1
Acrylonitrile	ND		10	2.8	ug/L			10/15/15 08:32	1
Benzene	ND		1.0	0.38	ug/L			10/15/15 08:32	1
Bromobenzene	ND		1.0	0.54	ug/L			10/15/15 08:32	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/15/15 08:32	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/15/15 08:32	1
Bromoform	ND		5.0	0.71	ug/L			10/15/15 08:32	1
Bromomethane	ND		1.0	0.98	ug/L			10/15/15 08:32	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/15/15 08:32	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/15/15 08:32	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/15/15 08:32	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/15/15 08:32	1
Chloroethane	ND		1.0	0.76	ug/L			10/15/15 08:32	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/15/15 08:32	1
Chloroform	ND		1.0	0.60	ug/L			10/15/15 08:32	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/15/15 08:32	1
Chloromethane	ND		1.0	0.83	ug/L			10/15/15 08:32	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/15/15 08:32	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/15/15 08:32	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/15/15 08:32	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/15/15 08:32	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/15/15 08:32	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/15/15 08:32	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/15/15 08:32	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/15/15 08:32	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/15/15 08:32	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/15/15 08:32	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/15/15 08:32	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/15/15 08:32	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/15/15 08:32	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/15/15 08:32	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/15/15 08:32	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/15/15 08:32	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/15/15 08:32	1
2-Hexanone	ND		25	3.1	ug/L			10/15/15 08:32	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/15/15 08:32	1
Methylene bromide	ND		5.0	0.59	ug/L			10/15/15 08:32	1
Methylene chloride	ND		5.0	3.0	ug/L			10/15/15 08:32	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/15/15 08:32	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/15/15 08:32	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/15/15 08:32	1
Naphthalene	ND		1.0	1.0	ug/L			10/15/15 08:32	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/15/15 08:32	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/15/15 08:32	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/15/15 08:32	1
o-Xylene	ND		5.0	0.60	ug/L			10/15/15 08:32	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/15/15 08:32	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/15/15 08:32	1

Client Sample ID: TB-ROX-100515-8260
Date Collected: 10/05/15 00:00
Date Received: 10/06/15 10:03

Lab Sample ID: 400-112002-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/15/15 08:32	1
Styrene	ND		1.0	1.0	ug/L			10/15/15 08:32	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/15/15 08:32	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/15/15 08:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/15/15 08:32	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/15/15 08:32	1
Toluene	ND		1.0	0.70	ug/L			10/15/15 08:32	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/15/15 08:32	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/15/15 08:32	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/15/15 08:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/15/15 08:32	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/15/15 08:32	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/15/15 08:32	1
Trichloroethene	ND		1.0	0.50	ug/L			10/15/15 08:32	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/15/15 08:32	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/15/15 08:32	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/15/15 08:32	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/15/15 08:32	1
Vinyl acetate	ND		25	2.0	ug/L			10/15/15 08:32	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/15/15 08:32	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/15/15 08:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*78 - 118*		*10/15/15 08:32*	*1*
Dibromofluoromethane	*113*		*81 - 121*		*10/15/15 08:32*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*10/15/15 08:32*	*1*

Client Sample ID: TB-ROX-100515-8011
Date Collected: 10/05/15 00:00
Date Received: 10/06/15 10:03

Lab Sample ID: 400-112002-2
Matrix: Water

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/12/15 08:45	10/12/15 18:24	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/12/15 08:45	10/12/15 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*51 - 149*	*10/12/15 08:45*	*10/12/15 18:24*	*1*

Client Sample ID: P114R-ROX-100515-EB

Date Collected: 10/05/15 11:20
Date Received: 10/06/15 10:03

Lab Sample ID: 400-112002-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	*	25	10	ug/L			10/15/15 08:56	1
Acrolein	ND		20	10	ug/L			10/15/15 08:56	1
Acrylonitrile	ND		10	2.8	ug/L			10/15/15 08:56	1
Benzene	ND		1.0	0.38	ug/L			10/15/15 08:56	1
Bromobenzene	ND		1.0	0.54	ug/L			10/15/15 08:56	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/15/15 08:56	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/15/15 08:56	1
Bromoform	ND		5.0	0.71	ug/L			10/15/15 08:56	1
Bromomethane	ND		1.0	0.98	ug/L			10/15/15 08:56	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/15/15 08:56	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/15/15 08:56	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/15/15 08:56	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/15/15 08:56	1
Chloroethane	ND		1.0	0.76	ug/L			10/15/15 08:56	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/15/15 08:56	1
Chloroform	ND		1.0	0.60	ug/L			10/15/15 08:56	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/15/15 08:56	1
Chloromethane	ND		1.0	0.83	ug/L			10/15/15 08:56	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/15/15 08:56	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/15/15 08:56	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/15/15 08:56	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/15/15 08:56	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/15/15 08:56	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/15/15 08:56	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/15/15 08:56	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/15/15 08:56	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/15/15 08:56	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/15/15 08:56	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/15/15 08:56	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/15/15 08:56	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/15/15 08:56	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/15/15 08:56	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/15/15 08:56	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/15/15 08:56	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/15/15 08:56	1
2-Hexanone	ND		25	3.1	ug/L			10/15/15 08:56	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/15/15 08:56	1
Methylene bromide	ND		5.0	0.59	ug/L			10/15/15 08:56	1
Methylene chloride	ND		5.0	3.0	ug/L			10/15/15 08:56	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/15/15 08:56	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/15/15 08:56	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/15/15 08:56	1
Naphthalene	ND		1.0	1.0	ug/L			10/15/15 08:56	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/15/15 08:56	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/15/15 08:56	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/15/15 08:56	1
o-Xylene	ND		5.0	0.60	ug/L			10/15/15 08:56	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/15/15 08:56	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/15/15 08:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/15/15 08:56	1
Styrene	ND		1.0	1.0	ug/L			10/15/15 08:56	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/15/15 08:56	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/15/15 08:56	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/15/15 08:56	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/15/15 08:56	1
Toluene	ND		1.0	0.70	ug/L			10/15/15 08:56	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/15/15 08:56	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/15/15 08:56	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/15/15 08:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/15/15 08:56	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/15/15 08:56	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/15/15 08:56	1
Trichloroethene	ND		1.0	0.50	ug/L			10/15/15 08:56	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/15/15 08:56	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/15/15 08:56	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/15/15 08:56	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/15/15 08:56	1
Vinyl acetate	ND		25	2.0	ug/L			10/15/15 08:56	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/15/15 08:56	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/15/15 08:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*78 - 118*		*10/15/15 08:56*	*1*
Dibromofluoromethane	*111*		*81 - 121*		*10/15/15 08:56*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*10/15/15 08:56*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 16:59	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 16:59	1
Anthracene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 16:59	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 16:59	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 16:59	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 16:59	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 16:59	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 16:59	1
Chrysene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 16:59	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 16:59	1
Fluoranthene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 16:59	1
Fluorene	ND		0.20	0.021	ug/L		10/09/15 11:17	10/13/15 16:59	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 16:59	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 16:59	1
2-Methylnaphthalene	0.028	J	0.20	0.020	ug/L		10/09/15 11:17	10/13/15 16:59	1
Phenanthrene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 16:59	1
Pyrene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*85*		*15 - 122*	*10/09/15 11:17*	*10/13/15 16:59*	*1*
Nitrobenzene-d5	*95*		*19 - 130*	*10/09/15 11:17*	*10/13/15 16:59*	*1*

Client Sample ID: P114R-ROX-100515-EB

Date Collected: 10/05/15 11:20
Date Received: 10/06/15 10:03

Lab Sample ID: 400-112002-3

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	120		33 - 138	10/09/15 11:17	10/13/15 16:59	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/09/15 11:17	10/13/15 18:00	1
Benzenethiol	ND		10	1.7	ug/L		10/09/15 11:17	10/13/15 18:00	1
Benzoic acid	ND		30	7.3	ug/L		10/09/15 11:17	10/13/15 18:00	1
Benzyl alcohol	ND		10	2.0	ug/L		10/09/15 11:17	10/13/15 18:00	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/09/15 11:17	10/13/15 18:00	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/09/15 11:17	10/13/15 18:00	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/09/15 11:17	10/13/15 18:00	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/09/15 11:17	10/13/15 18:00	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/09/15 11:17	10/13/15 18:00	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/09/15 11:17	10/13/15 18:00	1
4-Chloroaniline	ND		10	3.4	ug/L		10/09/15 11:17	10/13/15 18:00	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/09/15 11:17	10/13/15 18:00	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/09/15 11:17	10/13/15 18:00	1
2-Chlorophenol	ND		10	2.2	ug/L		10/09/15 11:17	10/13/15 18:00	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/09/15 11:17	10/13/15 18:00	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/09/15 11:17	10/13/15 18:00	1
Dibenzofuran	ND		10	0.52	ug/L		10/09/15 11:17	10/13/15 18:00	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/09/15 11:17	10/13/15 18:00	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/09/15 11:17	10/13/15 18:00	1
Diethyl phthalate	ND		10	0.70	ug/L		10/09/15 11:17	10/13/15 18:00	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/09/15 11:17	10/13/15 18:00	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/09/15 11:17	10/13/15 18:00	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/09/15 11:17	10/13/15 18:00	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/09/15 11:17	10/13/15 18:00	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/09/15 11:17	10/13/15 18:00	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/09/15 11:17	10/13/15 18:00	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/09/15 11:17	10/13/15 18:00	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/09/15 11:17	10/13/15 18:00	1
1,4-Dioxane	ND		10	1.0	ug/L		10/09/15 11:17	10/13/15 18:00	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/09/15 11:17	10/13/15 18:00	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/09/15 11:17	10/13/15 18:00	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/09/15 11:17	10/13/15 18:00	1
Hexachloroethane	ND		10	4.2	ug/L		10/09/15 11:17	10/13/15 18:00	1
Indene	ND		10	1.0	ug/L		10/09/15 11:17	10/13/15 18:00	1
Isophorone	ND		10	0.57	ug/L		10/09/15 11:17	10/13/15 18:00	1
2-Methylphenol	ND		10	1.8	ug/L		10/09/15 11:17	10/13/15 18:00	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/09/15 11:17	10/13/15 18:00	1
2-Nitroaniline	ND		10	2.2	ug/L		10/09/15 11:17	10/13/15 18:00	1
3-Nitroaniline	ND		10	1.8	ug/L		10/09/15 11:17	10/13/15 18:00	1
4-Nitroaniline	ND		10	2.5	ug/L		10/09/15 11:17	10/13/15 18:00	1
Nitrobenzene	ND		10	0.55	ug/L		10/09/15 11:17	10/13/15 18:00	1
2-Nitrophenol	ND		10	0.65	ug/L		10/09/15 11:17	10/13/15 18:00	1
4-Nitrophenol	ND		10	2.1	ug/L		10/09/15 11:17	10/13/15 18:00	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/09/15 11:17	10/13/15 18:00	1

Client Sample ID: P114R-ROX-100515-EB

Date Collected: 10/05/15 11:20
Date Received: 10/06/15 10:03

Lab Sample ID: 400-112002-3

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/09/15 11:17	10/13/15 18:00	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/09/15 11:17	10/13/15 18:00	1
Pentachlorophenol	ND		20	1.8	ug/L		10/09/15 11:17	10/13/15 18:00	1
Phenol	ND		10	2.6	ug/L		10/09/15 11:17	10/13/15 18:00	1
Pyridine	ND		10	3.2	ug/L		10/09/15 11:17	10/13/15 18:00	1
Quinoline	ND		10	6.0	ug/L		10/09/15 11:17	10/13/15 18:00	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/09/15 11:17	10/13/15 18:00	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/09/15 11:17	10/13/15 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*54*		*10 - 120*	*10/09/15 11:17*	*10/13/15 18:00*	*1*
2-Fluorobiphenyl	*75*		*34 - 120*	*10/09/15 11:17*	*10/13/15 18:00*	*1*
2,4,6-Tribromophenol	*82*		*15 - 135*	*10/09/15 11:17*	*10/13/15 18:00*	*1*
Nitrobenzene-d5	*81*		*27 - 120*	*10/09/15 11:17*	*10/13/15 18:00*	*1*
Phenol-d5	*56*		*10 - 120*	*10/09/15 11:17*	*10/13/15 18:00*	*1*
Terphenyl-d14	*89*		*53 - 125*	*10/09/15 11:17*	*10/13/15 18:00*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/12/15 08:45	10/12/15 18:54	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/12/15 08:45	10/12/15 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*51 - 149*	*10/12/15 08:45*	*10/12/15 18:54*	*1*

Client Sample ID: P114R-ROX-100515

Date Collected: 10/05/15 12:30
Date Received: 10/06/15 10:03

Lab Sample ID: 400-112002-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	*	25	10	ug/L			10/15/15 09:20	1
Acrolein	ND		20	10	ug/L			10/15/15 09:20	1
Acrylonitrile	ND		10	2.8	ug/L			10/15/15 09:20	1
Benzene	ND		1.0	0.38	ug/L			10/15/15 09:20	1
Bromobenzene	ND		1.0	0.54	ug/L			10/15/15 09:20	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/15/15 09:20	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/15/15 09:20	1
Bromoform	ND	F1	5.0	0.71	ug/L			10/15/15 09:20	1
Bromomethane	ND		1.0	0.98	ug/L			10/15/15 09:20	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/15/15 09:20	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/15/15 09:20	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/15/15 09:20	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/15/15 09:20	1
Chloroethane	ND	F2	1.0	0.76	ug/L			10/15/15 09:20	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/15/15 09:20	1
Chloroform	ND		1.0	0.60	ug/L			10/15/15 09:20	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/15/15 09:20	1
Chloromethane	ND	F2	1.0	0.83	ug/L			10/15/15 09:20	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/15/15 09:20	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/15/15 09:20	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/15/15 09:20	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/15/15 09:20	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/15/15 09:20	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/15/15 09:20	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/15/15 09:20	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/15/15 09:20	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/15/15 09:20	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/15/15 09:20	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/15/15 09:20	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/15/15 09:20	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/15/15 09:20	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/15/15 09:20	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/15/15 09:20	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/15/15 09:20	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/15/15 09:20	1
2-Hexanone	ND		25	3.1	ug/L			10/15/15 09:20	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/15/15 09:20	1
Methylene bromide	ND		5.0	0.59	ug/L			10/15/15 09:20	1
Methylene chloride	ND		5.0	3.0	ug/L			10/15/15 09:20	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/15/15 09:20	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/15/15 09:20	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/15/15 09:20	1
Naphthalene	ND		1.0	1.0	ug/L			10/15/15 09:20	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/15/15 09:20	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/15/15 09:20	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/15/15 09:20	1
o-Xylene	ND		5.0	0.60	ug/L			10/15/15 09:20	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/15/15 09:20	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/15/15 09:20	1

Client Sample ID: P114R-ROX-100515

Date Collected: 10/05/15 12:30
Date Received: 10/06/15 10:03

Lab Sample ID: 400-112002-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/15/15 09:20	1
Styrene	ND		1.0	1.0	ug/L			10/15/15 09:20	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/15/15 09:20	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/15/15 09:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/15/15 09:20	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/15/15 09:20	1
Toluene	ND		1.0	0.70	ug/L			10/15/15 09:20	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/15/15 09:20	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/15/15 09:20	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/15/15 09:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/15/15 09:20	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/15/15 09:20	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/15/15 09:20	1
Trichloroethene	ND		1.0	0.50	ug/L			10/15/15 09:20	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/15/15 09:20	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/15/15 09:20	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/15/15 09:20	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/15/15 09:20	1
Vinyl acetate	ND	F1	25	2.0	ug/L			10/15/15 09:20	1
Vinyl chloride	ND	F2	1.0	0.50	ug/L			10/15/15 09:20	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/15/15 09:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*78 - 118*		*10/15/15 09:20*	*1*
Dibromofluoromethane	*111*		*81 - 121*		*10/15/15 09:20*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*10/15/15 09:20*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 12:00	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 12:00	1
Anthracene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 12:00	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 12:00	1
Benzo[a]pyrene	**0.071**	J	0.20	0.040	ug/L		10/09/15 11:17	10/13/15 12:00	1
Benzo[b]fluoranthene	**0.070**	J	0.20	0.040	ug/L		10/09/15 11:17	10/13/15 12:00	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 12:00	1
Benzo[k]fluoranthene	**0.060**	J	0.20	0.040	ug/L		10/09/15 11:17	10/13/15 12:00	1
Chrysene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 12:00	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 12:00	1
Fluoranthene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 12:00	1
Fluorene	ND		0.20	0.021	ug/L		10/09/15 11:17	10/13/15 12:00	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 12:00	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 12:00	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 12:00	1
Phenanthrene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 12:00	1
Pyrene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 12:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*84*		*15 - 122*	*10/09/15 11:17*	*10/13/15 12:00*	*1*
Nitrobenzene-d5	*87*		*19 - 130*	*10/09/15 11:17*	*10/13/15 12:00*	*1*

Client Sample ID: P114R-ROX-100515

Date Collected: 10/05/15 12:30
Date Received: 10/06/15 10:03

Lab Sample ID: 400-112002-4

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	62		33 - 138	10/09/15 11:17	10/13/15 12:00	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/09/15 11:17	10/13/15 17:24	1
Benzenethiol	ND		10	1.7	ug/L		10/09/15 11:17	10/13/15 17:24	1
Benzoic acid	ND		30	7.3	ug/L		10/09/15 11:17	10/13/15 17:24	1
Benzyl alcohol	ND		10	2.0	ug/L		10/09/15 11:17	10/13/15 17:24	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/09/15 11:17	10/13/15 17:24	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/09/15 11:17	10/13/15 17:24	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/09/15 11:17	10/13/15 17:24	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/09/15 11:17	10/13/15 17:24	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/09/15 11:17	10/13/15 17:24	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/09/15 11:17	10/13/15 17:24	1
4-Chloroaniline	ND		10	3.4	ug/L		10/09/15 11:17	10/13/15 17:24	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/09/15 11:17	10/13/15 17:24	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/09/15 11:17	10/13/15 17:24	1
2-Chlorophenol	ND		10	2.2	ug/L		10/09/15 11:17	10/13/15 17:24	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/09/15 11:17	10/13/15 17:24	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/09/15 11:17	10/13/15 17:24	1
Dibenzofuran	ND		10	0.52	ug/L		10/09/15 11:17	10/13/15 17:24	1
3,3'-Dichlorobenzidine	ND	F1	10	2.6	ug/L		10/09/15 11:17	10/13/15 17:24	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/09/15 11:17	10/13/15 17:24	1
Diethyl phthalate	ND		10	0.70	ug/L		10/09/15 11:17	10/13/15 17:24	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/09/15 11:17	10/13/15 17:24	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/09/15 11:17	10/13/15 17:24	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/09/15 11:17	10/13/15 17:24	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/09/15 11:17	10/13/15 17:24	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/09/15 11:17	10/13/15 17:24	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/09/15 11:17	10/13/15 17:24	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/09/15 11:17	10/13/15 17:24	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/09/15 11:17	10/13/15 17:24	1
1,4-Dioxane	ND		10	1.0	ug/L		10/09/15 11:17	10/13/15 17:24	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/09/15 11:17	10/13/15 17:24	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/09/15 11:17	10/13/15 17:24	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/09/15 11:17	10/13/15 17:24	1
Hexachloroethane	ND		10	4.2	ug/L		10/09/15 11:17	10/13/15 17:24	1
Indene	ND		10	1.0	ug/L		10/09/15 11:17	10/13/15 17:24	1
Isophorone	ND		10	0.57	ug/L		10/09/15 11:17	10/13/15 17:24	1
2-Methylphenol	ND		10	1.8	ug/L		10/09/15 11:17	10/13/15 17:24	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/09/15 11:17	10/13/15 17:24	1
2-Nitroaniline	ND		10	2.2	ug/L		10/09/15 11:17	10/13/15 17:24	1
3-Nitroaniline	ND		10	1.8	ug/L		10/09/15 11:17	10/13/15 17:24	1
4-Nitroaniline	ND		10	2.5	ug/L		10/09/15 11:17	10/13/15 17:24	1
Nitrobenzene	ND		10	0.55	ug/L		10/09/15 11:17	10/13/15 17:24	1
2-Nitrophenol	ND		10	0.65	ug/L		10/09/15 11:17	10/13/15 17:24	1
4-Nitrophenol	ND		10	2.1	ug/L		10/09/15 11:17	10/13/15 17:24	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/09/15 11:17	10/13/15 17:24	1

Client Sample ID: P114R-ROX-100515
Date Collected: 10/05/15 12:30
Date Received: 10/06/15 10:03

Lab Sample ID: 400-112002-4
Matrix: Water

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Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/09/15 11:17	10/13/15 17:24	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/09/15 11:17	10/13/15 17:24	1
Pentachlorophenol	ND		20	1.8	ug/L		10/09/15 11:17	10/13/15 17:24	1
Phenol	ND		10	2.6	ug/L		10/09/15 11:17	10/13/15 17:24	1
Pyridine	ND		10	3.2	ug/L		10/09/15 11:17	10/13/15 17:24	1
Quinoline	ND		10	6.0	ug/L		10/09/15 11:17	10/13/15 17:24	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/09/15 11:17	10/13/15 17:24	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/09/15 11:17	10/13/15 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*47*		*10 - 120*	*10/09/15 11:17*	*10/13/15 17:24*	*1*
2-Fluorobiphenyl	*82*		*34 - 120*	*10/09/15 11:17*	*10/13/15 17:24*	*1*
2,4,6-Tribromophenol	*77*		*15 - 135*	*10/09/15 11:17*	*10/13/15 17:24*	*1*
Nitrobenzene-d5	*86*		*27 - 120*	*10/09/15 11:17*	*10/13/15 17:24*	*1*
Phenol-d5	*50*		*10 - 120*	*10/09/15 11:17*	*10/13/15 17:24*	*1*
Terphenyl-d14	*52*		*53 - 125*	*10/09/15 11:17*	*10/13/15 17:24*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/12/15 08:45	10/12/15 19:24	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/12/15 08:45	10/12/15 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*85*		*51 - 149*	*10/12/15 08:45*	*10/12/15 19:24*	*1*

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-112002-1
SDG: Proj. 6400249-21563720.03004

Client Sample ID: MW13-ROX-100515

Date Collected: 10/05/15 14:45
Date Received: 10/06/15 10:03

Lab Sample ID: 400-112002-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	*	25	10	ug/L			10/15/15 09:44	1
Acrolein	ND		20	10	ug/L			10/15/15 09:44	1
Acrylonitrile	ND		10	2.8	ug/L			10/15/15 09:44	1
Benzene	ND		1.0	0.38	ug/L			10/15/15 09:44	1
Bromobenzene	ND		1.0	0.54	ug/L			10/15/15 09:44	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/15/15 09:44	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/15/15 09:44	1
Bromoform	ND		5.0	0.71	ug/L			10/15/15 09:44	1
Bromomethane	ND		1.0	0.98	ug/L			10/15/15 09:44	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/15/15 09:44	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/15/15 09:44	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/15/15 09:44	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/15/15 09:44	1
Chloroethane	ND		1.0	0.76	ug/L			10/15/15 09:44	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/15/15 09:44	1
Chloroform	ND		1.0	0.60	ug/L			10/15/15 09:44	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/15/15 09:44	1
Chloromethane	ND		1.0	0.83	ug/L			10/15/15 09:44	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/15/15 09:44	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/15/15 09:44	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/15/15 09:44	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/15/15 09:44	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/15/15 09:44	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/15/15 09:44	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/15/15 09:44	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/15/15 09:44	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/15/15 09:44	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/15/15 09:44	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/15/15 09:44	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/15/15 09:44	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/15/15 09:44	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/15/15 09:44	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/15/15 09:44	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/15/15 09:44	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/15/15 09:44	1
2-Hexanone	ND		25	3.1	ug/L			10/15/15 09:44	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/15/15 09:44	1
Methylene bromide	ND		5.0	0.59	ug/L			10/15/15 09:44	1
Methylene chloride	ND		5.0	3.0	ug/L			10/15/15 09:44	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/15/15 09:44	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/15/15 09:44	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/15/15 09:44	1
Naphthalene	ND		1.0	1.0	ug/L			10/15/15 09:44	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/15/15 09:44	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/15/15 09:44	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/15/15 09:44	1
o-Xylene	ND		5.0	0.60	ug/L			10/15/15 09:44	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/15/15 09:44	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/15/15 09:44	1

Client Sample ID: MW13-ROX-100515

Date Collected: 10/05/15 14:45
Date Received: 10/06/15 10:03

Lab Sample ID: 400-112002-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/15/15 09:44	1
Styrene	ND		1.0	1.0	ug/L			10/15/15 09:44	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/15/15 09:44	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/15/15 09:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/15/15 09:44	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/15/15 09:44	1
Toluene	ND		1.0	0.70	ug/L			10/15/15 09:44	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/15/15 09:44	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/15/15 09:44	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/15/15 09:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/15/15 09:44	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/15/15 09:44	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/15/15 09:44	1
Trichloroethene	ND		1.0	0.50	ug/L			10/15/15 09:44	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/15/15 09:44	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/15/15 09:44	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/15/15 09:44	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/15/15 09:44	1
Vinyl acetate	ND		25	2.0	ug/L			10/15/15 09:44	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/15/15 09:44	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/15/15 09:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*78 - 118*		*10/15/15 09:44*	*1*
Dibromofluoromethane	*110*		*81 - 121*		*10/15/15 09:44*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*10/15/15 09:44*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 17:36	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 17:36	1
Anthracene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 17:36	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 17:36	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 17:36	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 17:36	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 17:36	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 17:36	1
Chrysene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 17:36	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 17:36	1
Fluoranthene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 17:36	1
Fluorene	ND		0.20	0.021	ug/L		10/09/15 11:17	10/13/15 17:36	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 17:36	1
1-Methylnaphthalene	0.85		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 17:36	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 17:36	1
Phenanthrene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 17:36	1
Pyrene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*15 - 122*	*10/09/15 11:17*	*10/13/15 17:36*	*1*
Nitrobenzene-d5	*75*		*19 - 130*	*10/09/15 11:17*	*10/13/15 17:36*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	67		33 - 138	10/09/15 11:17	10/13/15 17:36	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/09/15 11:17	10/13/15 18:37	1
Benzenethiol	ND		10	1.7	ug/L		10/09/15 11:17	10/13/15 18:37	1
Benzoic acid	ND		30	7.3	ug/L		10/09/15 11:17	10/13/15 18:37	1
Benzyl alcohol	ND		10	2.0	ug/L		10/09/15 11:17	10/13/15 18:37	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/09/15 11:17	10/13/15 18:37	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/09/15 11:17	10/13/15 18:37	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/09/15 11:17	10/13/15 18:37	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/09/15 11:17	10/13/15 18:37	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/09/15 11:17	10/13/15 18:37	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/09/15 11:17	10/13/15 18:37	1
4-Chloroaniline	ND		10	3.4	ug/L		10/09/15 11:17	10/13/15 18:37	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/09/15 11:17	10/13/15 18:37	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/09/15 11:17	10/13/15 18:37	1
2-Chlorophenol	ND		10	2.2	ug/L		10/09/15 11:17	10/13/15 18:37	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/09/15 11:17	10/13/15 18:37	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/09/15 11:17	10/13/15 18:37	1
Dibenzofuran	ND		10	0.52	ug/L		10/09/15 11:17	10/13/15 18:37	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/09/15 11:17	10/13/15 18:37	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/09/15 11:17	10/13/15 18:37	1
Diethyl phthalate	ND		10	0.70	ug/L		10/09/15 11:17	10/13/15 18:37	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/09/15 11:17	10/13/15 18:37	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/09/15 11:17	10/13/15 18:37	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/09/15 11:17	10/13/15 18:37	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/09/15 11:17	10/13/15 18:37	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/09/15 11:17	10/13/15 18:37	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/09/15 11:17	10/13/15 18:37	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/09/15 11:17	10/13/15 18:37	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/09/15 11:17	10/13/15 18:37	1
1,4-Dioxane	ND		10	1.0	ug/L		10/09/15 11:17	10/13/15 18:37	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/09/15 11:17	10/13/15 18:37	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/09/15 11:17	10/13/15 18:37	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/09/15 11:17	10/13/15 18:37	1
Hexachloroethane	ND		10	4.2	ug/L		10/09/15 11:17	10/13/15 18:37	1
Indene	ND		10	1.0	ug/L		10/09/15 11:17	10/13/15 18:37	1
Isophorone	ND		10	0.57	ug/L		10/09/15 11:17	10/13/15 18:37	1
2-Methylphenol	ND		10	1.8	ug/L		10/09/15 11:17	10/13/15 18:37	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/09/15 11:17	10/13/15 18:37	1
2-Nitroaniline	ND		10	2.2	ug/L		10/09/15 11:17	10/13/15 18:37	1
3-Nitroaniline	ND		10	1.8	ug/L		10/09/15 11:17	10/13/15 18:37	1
4-Nitroaniline	ND		10	2.5	ug/L		10/09/15 11:17	10/13/15 18:37	1
Nitrobenzene	ND		10	0.55	ug/L		10/09/15 11:17	10/13/15 18:37	1
2-Nitrophenol	ND		10	0.65	ug/L		10/09/15 11:17	10/13/15 18:37	1
4-Nitrophenol	ND		10	2.1	ug/L		10/09/15 11:17	10/13/15 18:37	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/09/15 11:17	10/13/15 18:37	1

Client Sample ID: MW13-ROX-100515

Date Collected: 10/05/15 14:45
Date Received: 10/06/15 10:03

Lab Sample ID: 400-112002-5

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/09/15 11:17	10/13/15 18:37	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/09/15 11:17	10/13/15 18:37	1
Pentachlorophenol	ND		20	1.8	ug/L		10/09/15 11:17	10/13/15 18:37	1
Phenol	ND		10	2.6	ug/L		10/09/15 11:17	10/13/15 18:37	1
Pyridine	ND		10	3.2	ug/L		10/09/15 11:17	10/13/15 18:37	1
Quinoline	ND		10	6.0	ug/L		10/09/15 11:17	10/13/15 18:37	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/09/15 11:17	10/13/15 18:37	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/09/15 11:17	10/13/15 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*62*		*10 - 120*	*10/09/15 11:17*	*10/13/15 18:37*	*1*
2-Fluorobiphenyl	*90*		*34 - 120*	*10/09/15 11:17*	*10/13/15 18:37*	*1*
2,4,6-Tribromophenol	*100*		*15 - 135*	*10/09/15 11:17*	*10/13/15 18:37*	*1*
Nitrobenzene-d5	*83*		*27 - 120*	*10/09/15 11:17*	*10/13/15 18:37*	*1*
Phenol-d5	*70*		*10 - 120*	*10/09/15 11:17*	*10/13/15 18:37*	*1*
Terphenyl-d14	*57*		*53 - 125*	*10/09/15 11:17*	*10/13/15 18:37*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/12/15 08:45	10/12/15 19:53	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/12/15 08:45	10/12/15 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*51 - 149*	*10/12/15 08:45*	*10/12/15 19:53*	*1*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
X	Surrogate is outside control limits

Glossary

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

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-112002-1
SDG: Proj. 6400249-21563720.03004

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(78-118)	(81-121)	(80-120)
400-112002-1	TB-ROX-100515-8260	96	113	89
400-112002-3	P114R-ROX-100515-EB	94	111	90
400-112002-4	P114R-ROX-100515	94	111	89
400-112002-4 MS	P114R-ROX-100515-MS	101	102	94
400-112002-4 MSD	P114R-ROX-100515-MSD	97	101	95
400-112002-5	MW13-ROX-100515	94	110	90
LCS 400-278883/1002	Lab Control Sample	97	102	93
MB 400-278883/4	Method Blank	89	109	90

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	FBP	TBP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(10-120)	(34-120)	(15-135)	(27-120)	(10-120)	(53-125)
400-112002-3	P114R-ROX-100515-EB	54	75	82	81	56	89
400-112002-4	P114R-ROX-100515	47	82	77	86	50	52 X
400-112002-4 MS	P114R-ROX-100515-MS	61	95	96	77	65	53
400-112002-4 MSD	P114R-ROX-100515-MSD	71	104	128	99	89	77
400-112002-5	MW13-ROX-100515	62	90	100	83	70	57
LCS 400-278092/2-A	Lab Control Sample	92	111	132	110	105	112
MB 400-278092/1-A	Method Blank	89	108	115	112	104	116

Surrogate Legend

2FP = 2-Fluorophenol
FBP = 2-Fluorobiphenyl
TBP = 2,4,6-Tribromophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = Terphenyl-d14

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPH
Lab Sample ID	Client Sample ID	(15-122)	(19-130)	(33-138)
400-112002-3	P114R-ROX-100515-EB	85	95	120
400-112002-4	P114R-ROX-100515	84	87	62
400-112002-4 MS	P114R-ROX-100515-MS	96	79	52
400-112002-4 MSD	P114R-ROX-100515-MSD	99	96	70
400-112002-5	MW13-ROX-100515	78	75	67
LCS 400-278092/2-A	Lab Control Sample	96	99	99
MB 400-278092/1-A	Method Blank	79	89	112

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-112002-1
SDG: Proj. 6400249-21563720.03004

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5
TPH = Terphenyl-d14

Method: 8011 - EDB and DBCP in Water by Microextraction

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	**Client Sample ID**	**BFB1 (51-149)**
400-112002-2	TB-ROX-100515-8011	92
400-112002-3	P114R-ROX-100515-EB	94
400-112002-4	P114R-ROX-100515	85
400-112002-4 MS	P114R-ROX-100515-MS	84
400-112002-4 MSD	P114R-ROX-100515-MSD	85
400-112002-5	MW13-ROX-100515	88
LCS 400-278346/2-A	Lab Control Sample	104
MB 400-278346/1-A	Method Blank	92

Surrogate Legend

BFB = 4-Bromofluorobenzene

GC/MS VOA

Analysis Batch: 278883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112002-1	TB-ROX-100515-8260	Total/NA	Water	8260B	
400-112002-3	P114R-ROX-100515-EB	Total/NA	Water	8260B	
400-112002-4	P114R-ROX-100515	Total/NA	Water	8260B	
400-112002-4 MS	P114R-ROX-100515-MS	Total/NA	Water	8260B	
400-112002-4 MSD	P114R-ROX-100515-MSD	Total/NA	Water	8260B	
400-112002-5	MW13-ROX-100515	Total/NA	Water	8260B	
LCS 400-278883/1002	Lab Control Sample	Total/NA	Water	8260B	
MB 400-278883/4	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 278092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112002-3	P114R-ROX-100515-EB	Total/NA	Water	3520C	
400-112002-4	P114R-ROX-100515	Total/NA	Water	3520C	
400-112002-4 MS	P114R-ROX-100515-MS	Total/NA	Water	3520C	
400-112002-4 MSD	P114R-ROX-100515-MSD	Total/NA	Water	3520C	
400-112002-5	MW13-ROX-100515	Total/NA	Water	3520C	
LCS 400-278092/2-A	Lab Control Sample	Total/NA	Water	3520C	
MB 400-278092/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 278326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-278092/2-A	Lab Control Sample	Total/NA	Water	8270C LL	278092
MB 400-278092/1-A	Method Blank	Total/NA	Water	8270C LL	278092

Analysis Batch: 278447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112002-3	P114R-ROX-100515-EB	Total/NA	Water	8270C	278092
400-112002-4	P114R-ROX-100515	Total/NA	Water	8270C	278092
400-112002-4 MS	P114R-ROX-100515-MS	Total/NA	Water	8270C	278092
400-112002-4 MSD	P114R-ROX-100515-MSD	Total/NA	Water	8270C	278092
400-112002-5	MW13-ROX-100515	Total/NA	Water	8270C	278092
LCS 400-278092/2-A	Lab Control Sample	Total/NA	Water	8270C	278092
MB 400-278092/1-A	Method Blank	Total/NA	Water	8270C	278092

Analysis Batch: 278503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112002-3	P114R-ROX-100515-EB	Total/NA	Water	8270C LL	278092
400-112002-4	P114R-ROX-100515	Total/NA	Water	8270C LL	278092
400-112002-4 MS	P114R-ROX-100515-MS	Total/NA	Water	8270C LL	278092
400-112002-4 MSD	P114R-ROX-100515-MSD	Total/NA	Water	8270C LL	278092
400-112002-5	MW13-ROX-100515	Total/NA	Water	8270C LL	278092

GC Semi VOA

Prep Batch: 278346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112002-2	TB-ROX-100515-8011	Total/NA	Water	8011	
400-112002-3	P114R-ROX-100515-EB	Total/NA	Water	8011	

GC Semi VOA (Continued)

Prep Batch: 278346 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112002-4	P114R-ROX-100515	Total/NA	Water	8011	
400-112002-4 MS	P114R-ROX-100515-MS	Total/NA	Water	8011	
400-112002-4 MSD	P114R-ROX-100515-MSD	Total/NA	Water	8011	
400-112002-5	MW13-ROX-100515	Total/NA	Water	8011	
LCS 400-278346/2-A	Lab Control Sample	Total/NA	Water	8011	
MB 400-278346/1-A	Method Blank	Total/NA	Water	8011	

Analysis Batch: 278462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112002-2	TB-ROX-100515-8011	Total/NA	Water	8011	278346
400-112002-3	P114R-ROX-100515-EB	Total/NA	Water	8011	278346
400-112002-4	P114R-ROX-100515	Total/NA	Water	8011	278346
400-112002-4 MS	P114R-ROX-100515-MS	Total/NA	Water	8011	278346
400-112002-4 MSD	P114R-ROX-100515-MSD	Total/NA	Water	8011	278346
400-112002-5	MW13-ROX-100515	Total/NA	Water	8011	278346
LCS 400-278346/2-A	Lab Control Sample	Total/NA	Water	8011	278346
MB 400-278346/1-A	Method Blank	Total/NA	Water	8011	278346

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

Lab Sample ID: MB 400-278883/4
Matrix: Water
Analysis Batch: 278883

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/15/15 08:07	1
Acrolein	ND		20	10	ug/L			10/15/15 08:07	1
Acrylonitrile	ND		10	2.8	ug/L			10/15/15 08:07	1
Benzene	ND		1.0	0.38	ug/L			10/15/15 08:07	1
Bromobenzene	ND		1.0	0.54	ug/L			10/15/15 08:07	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/15/15 08:07	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/15/15 08:07	1
Bromoform	ND		5.0	0.71	ug/L			10/15/15 08:07	1
Bromomethane	ND		1.0	0.98	ug/L			10/15/15 08:07	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/15/15 08:07	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/15/15 08:07	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/15/15 08:07	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/15/15 08:07	1
Chloroethane	ND		1.0	0.76	ug/L			10/15/15 08:07	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/15/15 08:07	1
Chloroform	ND		1.0	0.60	ug/L			10/15/15 08:07	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/15/15 08:07	1
Chloromethane	ND		1.0	0.83	ug/L			10/15/15 08:07	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/15/15 08:07	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/15/15 08:07	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/15/15 08:07	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/15/15 08:07	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/15/15 08:07	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/15/15 08:07	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/15/15 08:07	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/15/15 08:07	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/15/15 08:07	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/15/15 08:07	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/15/15 08:07	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/15/15 08:07	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/15/15 08:07	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/15/15 08:07	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/15/15 08:07	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/15/15 08:07	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/15/15 08:07	1
2-Hexanone	ND		25	3.1	ug/L			10/15/15 08:07	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/15/15 08:07	1
Methylene bromide	ND		5.0	0.59	ug/L			10/15/15 08:07	1
Methylene chloride	ND		5.0	3.0	ug/L			10/15/15 08:07	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/15/15 08:07	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/15/15 08:07	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/15/15 08:07	1
Naphthalene	ND		1.0	1.0	ug/L			10/15/15 08:07	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/15/15 08:07	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/15/15 08:07	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/15/15 08:07	1
o-Xylene	ND		5.0	0.60	ug/L			10/15/15 08:07	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/15/15 08:07	1

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

Lab Sample ID: MB 400-278883/4
Matrix: Water
Analysis Batch: 278883

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/15/15 08:07	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/15/15 08:07	1
Styrene	ND		1.0	1.0	ug/L			10/15/15 08:07	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/15/15 08:07	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/15/15 08:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/15/15 08:07	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/15/15 08:07	1
Toluene	ND		1.0	0.70	ug/L			10/15/15 08:07	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/15/15 08:07	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/15/15 08:07	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/15/15 08:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/15/15 08:07	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/15/15 08:07	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/15/15 08:07	1
Trichloroethene	ND		1.0	0.50	ug/L			10/15/15 08:07	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/15/15 08:07	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/15/15 08:07	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/15/15 08:07	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/15/15 08:07	1
Vinyl acetate	ND		25	2.0	ug/L			10/15/15 08:07	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/15/15 08:07	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/15/15 08:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*78 - 118*		*10/15/15 08:07*	*1*
Dibromofluoromethane	*109*		*81 - 121*		*10/15/15 08:07*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*10/15/15 08:07*	*1*

Lab Sample ID: LCS 400-278883/1002
Matrix: Water
Analysis Batch: 278883

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	455	*	ug/L		227	43 - 160
Acrolein	500	585		ug/L		117	38 - 160
Acrylonitrile	500	606		ug/L		121	64 - 142
Benzene	50.0	50.9		ug/L		102	70 - 130
Bromobenzene	50.0	45.4		ug/L		91	70 - 132
Bromochloromethane	50.0	48.2		ug/L		96	70 - 130
Bromodichloromethane	50.0	59.7		ug/L		119	67 - 133
Bromoform	50.0	57.7		ug/L		115	57 - 140
Bromomethane	50.0	30.4		ug/L		61	10 - 160
2-Butanone (MEK)	200	283		ug/L		141	61 - 145
Carbon disulfide	50.0	57.7		ug/L		115	61 - 137
Carbon tetrachloride	50.0	60.5		ug/L		121	61 - 137
Chlorobenzene	50.0	44.8		ug/L		90	70 - 130
Chloroethane	50.0	47.5		ug/L		95	55 - 141
2-Chloroethyl vinyl ether	50.0	44.6		ug/L		89	10 - 160

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

Lab Sample ID: LCS 400-278883/1002
Matrix: Water
Analysis Batch: 278883

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	50.0	51.4		ug/L		103	69 - 130
1-Chlorohexane	50.0	48.8		ug/L		98	69 - 130
Chloromethane	50.0	57.8		ug/L		116	58 - 137
cis-1,2-Dichloroethene	50.0	50.7		ug/L		101	68 - 130
cis-1,3-Dichloropropene	50.0	53.1		ug/L		106	69 - 132
Dibromochloromethane	50.0	49.9		ug/L		100	67 - 135
1,2-Dichlorobenzene	50.0	43.5		ug/L		87	67 - 130
1,3-Dichlorobenzene	50.0	44.6		ug/L		89	70 - 130
1,4-Dichlorobenzene	50.0	44.2		ug/L		88	70 - 130
Dichlorodifluoromethane	50.0	34.6		ug/L		69	41 - 146
1,1-Dichloroethane	50.0	52.7		ug/L		105	70 - 130
1,2-Dichloroethane	50.0	59.4		ug/L		119	69 - 130
1,1-Dichloroethene	50.0	49.8		ug/L		100	63 - 134
1,2-Dichloropropane	50.0	51.6		ug/L		103	70 - 130
1,3-Dichloropropane	50.0	46.0		ug/L		92	70 - 130
2,2-Dichloropropane	50.0	47.5		ug/L		95	52 - 135
1,1-Dichloropropene	50.0	49.6		ug/L		99	70 - 130
Ethylbenzene	50.0	44.4		ug/L		89	70 - 130
Ethyl methacrylate	50.0	47.8		ug/L		96	68 - 130
Hexachlorobutadiene	50.0	42.4		ug/L		85	53 - 140
2-Hexanone	200	234		ug/L		117	65 - 137
Isopropylbenzene	50.0	43.0		ug/L		86	70 - 130
Methylene bromide	50.0	52.4		ug/L		105	70 - 130
Methylene chloride	50.0	51.7		ug/L		103	66 - 135
4-Methyl-2-pentanone (MIBK)	200	230		ug/L		115	69 - 138
Methyl tert-butyl ether	50.0	50.2		ug/L		100	66 - 130
m-Xylene & p-Xylene	50.0	44.2		ug/L		88	70 - 130
Naphthalene	50.0	41.0		ug/L		82	47 - 149
n-Butylbenzene	50.0	48.4		ug/L		97	67 - 130
N-Propylbenzene	50.0	48.3		ug/L		97	70 - 130
o-Chlorotoluene	50.0	42.6		ug/L		85	70 - 130
o-Xylene	50.0	44.2		ug/L		88	70 - 130
p-Chlorotoluene	50.0	43.4		ug/L		87	70 - 130
p-Isopropyltoluene	50.0	45.2		ug/L		90	65 - 130
sec-Butylbenzene	50.0	43.2		ug/L		86	66 - 130
Styrene	50.0	42.7		ug/L		85	70 - 130
tert-Butylbenzene	50.0	51.1		ug/L		102	64 - 139
1,1,1,2-Tetrachloroethane	50.0	51.0		ug/L		102	67 - 131
1,1,2,2-Tetrachloroethane	50.0	49.8		ug/L		100	70 - 131
Tetrachloroethene	50.0	42.6		ug/L		85	65 - 130
Toluene	50.0	44.5		ug/L		89	70 - 130
trans-1,2-Dichloroethene	50.0	49.9		ug/L		100	70 - 130
trans-1,3-Dichloropropene	50.0	46.6		ug/L		93	63 - 130
1,2,3-Trichlorobenzene	50.0	43.9		ug/L		88	60 - 138
1,2,4-Trichlorobenzene	50.0	43.8		ug/L		88	60 - 140
1,1,1-Trichloroethane	50.0	52.0		ug/L		104	68 - 130
1,1,2-Trichloroethane	50.0	47.1		ug/L		94	70 - 130
Trichloroethene	50.0	51.7		ug/L		103	70 - 130

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

Lab Sample ID: LCS 400-278883/1002
Matrix: Water
Analysis Batch: 278883

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	44.6		ug/L		89	65 - 138
1,2,3-Trichloropropane	50.0	44.7		ug/L		89	70 - 130
1,2,4-Trimethylbenzene	50.0	45.6		ug/L		91	70 - 130
1,3,5-Trimethylbenzene	50.0	42.8		ug/L		86	69 - 130
Vinyl acetate	100	131		ug/L		131	26 - 160
Vinyl chloride	50.0	51.9		ug/L		104	59 - 136
Xylenes, Total	100	88.4		ug/L		88	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*78 - 118*
Dibromofluoromethane	*102*		*81 - 121*
Toluene-d8 (Surr)	*93*		*80 - 120*

Lab Sample ID: 400-112002-4 MS
Matrix: Water
Analysis Batch: 278883

Client Sample ID: P114R-ROX-100515-MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND	*	200	212		ug/L		106	43 - 160
Acrolein	ND		500	569		ug/L		114	38 - 160
Acrylonitrile	ND		500	581		ug/L		116	62 - 149
Benzene	ND		50.0	50.6		ug/L		101	56 - 142
Bromobenzene	ND		50.0	45.0		ug/L		90	59 - 136
Bromochloromethane	ND		50.0	48.3		ug/L		97	64 - 140
Bromodichloromethane	ND		50.0	58.1		ug/L		116	59 - 143
Bromoform	ND	F1	50.0	55.3		ug/L		111	50 - 140
Bromomethane	ND		50.0	38.9		ug/L		78	10 - 160
2-Butanone (MEK)	ND		200	200		ug/L		100	55 - 150
Carbon disulfide	ND		50.0	57.1		ug/L		114	48 - 152
Carbon tetrachloride	ND		50.0	60.2		ug/L		120	55 - 145
Chlorobenzene	ND		50.0	45.0		ug/L		90	64 - 130
Chloroethane	ND	F2	50.0	59.5		ug/L		119	50 - 151
2-Chloroethyl vinyl ether	ND		50.0	15.0		ug/L		30	10 - 160
Chloroform	ND		50.0	51.4		ug/L		103	60 - 141
1-Chlorohexane	ND		50.0	48.1		ug/L		96	56 - 136
Chloromethane	ND	F2	50.0	67.5		ug/L		135	49 - 148
cis-1,2-Dichloroethene	ND		50.0	50.7		ug/L		101	59 - 143
cis-1,3-Dichloropropene	ND		50.0	52.0		ug/L		104	57 - 140
Dibromochloromethane	ND		50.0	48.6		ug/L		97	56 - 143
1,2-Dichlorobenzene	ND		50.0	43.6		ug/L		87	52 - 137
1,3-Dichlorobenzene	ND		50.0	44.1		ug/L		88	54 - 135
1,4-Dichlorobenzene	ND		50.0	44.6		ug/L		89	53 - 135
Dichlorodifluoromethane	ND		50.0	48.2		ug/L		96	16 - 160
1,1-Dichloroethane	ND		50.0	51.9		ug/L		104	61 - 144
1,2-Dichloroethane	ND		50.0	57.8		ug/L		116	60 - 141
1,1-Dichloroethene	ND		50.0	49.5		ug/L		99	54 - 147
1,2-Dichloropropane	ND		50.0	51.2		ug/L		102	66 - 137
1,3-Dichloropropane	ND		50.0	45.4		ug/L		91	66 - 133

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

Lab Sample ID: 400-112002-4 MS
Matrix: Water
Analysis Batch: 278883

Client Sample ID: P114R-ROX-100515-MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	ND		50.0	47.5		ug/L		95	42 - 144
1,1-Dichloropropene	ND		50.0	49.8		ug/L		100	65 - 136
Ethylbenzene	ND		50.0	44.4		ug/L		89	58 - 131
Ethyl methacrylate	ND		50.0	45.6		ug/L		91	64 - 130
Hexachlorobutadiene	ND		50.0	43.0		ug/L		86	31 - 149
2-Hexanone	ND		200	196		ug/L		98	65 - 140
Isopropylbenzene	ND		50.0	42.7		ug/L		85	56 - 133
Methylene bromide	ND		50.0	51.7		ug/L		103	63 - 138
Methylene chloride	ND		50.0	50.4		ug/L		101	60 - 146
4-Methyl-2-pentanone (MIBK)	ND		200	213		ug/L		106	63 - 146
Methyl tert-butyl ether	ND		50.0	49.4		ug/L		99	59 - 137
m-Xylene & p-Xylene	ND		50.0	44.0		ug/L		88	57 - 130
Naphthalene	ND		50.0	40.9		ug/L		82	25 - 160
n-Butylbenzene	ND		50.0	48.9		ug/L		98	41 - 142
N-Propylbenzene	ND		50.0	48.8		ug/L		98	51 - 138
o-Chlorotoluene	ND		50.0	41.7		ug/L		83	53 - 134
o-Xylene	ND		50.0	44.3		ug/L		89	61 - 130
p-Chlorotoluene	ND		50.0	43.3		ug/L		87	54 - 133
p-Isopropyltoluene	ND		50.0	45.8		ug/L		92	48 - 139
sec-Butylbenzene	ND		50.0	43.7		ug/L		87	50 - 138
Styrene	ND		50.0	42.1		ug/L		84	58 - 131
tert-Butylbenzene	ND		50.0	51.7		ug/L		103	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	51.4		ug/L		103	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	48.0		ug/L		96	66 - 135
Tetrachloroethene	ND		50.0	41.8		ug/L		84	52 - 133
Toluene	ND		50.0	43.5		ug/L		87	65 - 130
trans-1,2-Dichloroethene	ND		50.0	50.6		ug/L		101	61 - 143
trans-1,3-Dichloropropene	ND		50.0	45.4		ug/L		91	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	44.7		ug/L		89	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	43.5		ug/L		87	39 - 148
1,1,1-Trichloroethane	ND		50.0	51.2		ug/L		102	57 - 142
1,1,2-Trichloroethane	ND		50.0	45.4		ug/L		91	66 - 131
Trichloroethene	ND		50.0	50.6		ug/L		101	64 - 136
Trichlorofluoromethane	ND		50.0	54.8		ug/L		110	54 - 156
1,2,3-Trichloropropane	ND		50.0	43.9		ug/L		88	65 - 133
1,2,4-Trimethylbenzene	ND		50.0	45.6		ug/L		91	50 - 139
1,3,5-Trimethylbenzene	ND		50.0	42.8		ug/L		86	52 - 135
Vinyl acetate	ND	F1	100	158		ug/L		158	26 - 160
Vinyl chloride	ND	F2	50.0	63.3		ug/L		127	46 - 152
Xylenes, Total	ND		100	88.2		ug/L		88	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*78 - 118*
Dibromofluoromethane	*102*		*81 - 121*
Toluene-d8 (Surr)	*94*		*80 - 120*

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

Lab Sample ID: 400-112002-4 MSD
Matrix: Water
Analysis Batch: 278883

Client Sample ID: P114R-ROX-100515-MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND	*	200	205		ug/L		102	43 - 160	3	30
Acrolein	ND		500	505		ug/L		101	38 - 160	12	31
Acrylonitrile	ND		500	626		ug/L		125	62 - 149	7	30
Benzene	ND		50.0	54.9		ug/L		110	56 - 142	8	30
Bromobenzene	ND		50.0	48.8		ug/L		98	59 - 136	8	30
Bromochloromethane	ND		50.0	51.7		ug/L		103	64 - 140	7	30
Bromodichloromethane	ND		50.0	66.7		ug/L		133	59 - 143	14	30
Bromoform	ND	F1	50.0	71.8	F1	ug/L		144	50 - 140	26	30
Bromomethane	ND		50.0	26.9		ug/L		54	10 - 160	36	50
2-Butanone (MEK)	ND		200	234		ug/L		117	55 - 150	16	30
Carbon disulfide	ND		50.0	61.1		ug/L		122	48 - 152	7	30
Carbon tetrachloride	ND		50.0	67.7		ug/L		135	55 - 145	12	30
Chlorobenzene	ND		50.0	49.6		ug/L		99	64 - 130	10	30
Chloroethane	ND	F2	50.0	42.8	F2	ug/L		86	50 - 151	33	30
2-Chloroethyl vinyl ether	ND		50.0	23.3		ug/L		47	10 - 160	43	50
Chloroform	ND		50.0	54.7		ug/L		109	60 - 141	6	30
1-Chlorohexane	ND		50.0	50.8		ug/L		102	56 - 136	5	30
Chloromethane	ND	F2	50.0	45.3	F2	ug/L		91	49 - 148	39	31
cis-1,2-Dichloroethene	ND		50.0	52.9		ug/L		106	59 - 143	4	30
cis-1,3-Dichloropropene	ND		50.0	60.3		ug/L		121	57 - 140	15	30
Dibromochloromethane	ND		50.0	58.0		ug/L		116	56 - 143	18	30
1,2-Dichlorobenzene	ND		50.0	47.0		ug/L		94	52 - 137	7	30
1,3-Dichlorobenzene	ND		50.0	47.3		ug/L		95	54 - 135	7	30
1,4-Dichlorobenzene	ND		50.0	48.3		ug/L		97	53 - 135	8	30
Dichlorodifluoromethane	ND		50.0	35.4		ug/L		71	16 - 160	31	31
1,1-Dichloroethane	ND		50.0	54.0		ug/L		108	61 - 144	4	30
1,2-Dichloroethane	ND		50.0	59.0		ug/L		118	60 - 141	2	30
1,1-Dichloroethene	ND		50.0	46.3		ug/L		93	54 - 147	7	30
1,2-Dichloropropane	ND		50.0	56.4		ug/L		113	66 - 137	10	30
1,3-Dichloropropane	ND		50.0	49.2		ug/L		98	66 - 133	8	30
2,2-Dichloropropane	ND		50.0	57.8		ug/L		116	42 - 144	20	31
1,1-Dichloropropene	ND		50.0	52.6		ug/L		105	65 - 136	6	30
Ethylbenzene	ND		50.0	49.3		ug/L		99	58 - 131	10	30
Ethyl methacrylate	ND		50.0	54.2		ug/L		108	64 - 130	17	30
Hexachlorobutadiene	ND		50.0	48.5		ug/L		97	31 - 149	12	36
2-Hexanone	ND		200	231		ug/L		115	65 - 140	16	30
Isopropylbenzene	ND		50.0	47.7		ug/L		95	56 - 133	11	30
Methylene bromide	ND		50.0	57.0		ug/L		114	63 - 138	10	30
Methylene chloride	ND		50.0	52.9		ug/L		106	60 - 146	5	32
4-Methyl-2-pentanone (MIBK)	ND		200	246		ug/L		123	63 - 146	14	30
Methyl tert-butyl ether	ND		50.0	58.9		ug/L		118	59 - 137	18	30
m-Xylene & p-Xylene	ND		50.0	49.0		ug/L		98	57 - 130	11	30
Naphthalene	ND		50.0	47.2		ug/L		94	25 - 160	14	30
n-Butylbenzene	ND		50.0	50.0		ug/L		100	41 - 142	2	31
N-Propylbenzene	ND		50.0	51.6		ug/L		103	51 - 138	5	30
o-Chlorotoluene	ND		50.0	44.7		ug/L		89	53 - 134	7	30
o-Xylene	ND		50.0	47.3		ug/L		95	61 - 130	7	30
p-Chlorotoluene	ND		50.0	45.8		ug/L		92	54 - 133	6	30

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

Lab Sample ID: 400-112002-4 MSD
Matrix: Water
Analysis Batch: 278883

Client Sample ID: P114R-ROX-100515-MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
p-Isopropyltoluene	ND		50.0	49.5		ug/L		99	48 - 139	8	30
sec-Butylbenzene	ND		50.0	45.8		ug/L		92	50 - 138	5	30
Styrene	ND		50.0	47.3		ug/L		95	58 - 131	12	30
tert-Butylbenzene	ND		50.0	55.9		ug/L		112	54 - 146	8	30
1,1,1,2-Tetrachloroethane	ND		50.0	60.2		ug/L		120	59 - 137	16	30
1,1,2,2-Tetrachloroethane	ND		50.0	52.1		ug/L		104	66 - 135	8	30
Tetrachloroethene	ND		50.0	47.7		ug/L		95	52 - 133	13	30
Toluene	ND		50.0	49.2		ug/L		98	65 - 130	12	30
trans-1,2-Dichloroethene	ND		50.0	53.1		ug/L		106	61 - 143	5	30
trans-1,3-Dichloropropene	ND		50.0	55.4		ug/L		111	53 - 133	20	30
1,2,3-Trichlorobenzene	ND		50.0	49.3		ug/L		99	43 - 145	10	30
1,2,4-Trichlorobenzene	ND		50.0	46.3		ug/L		93	39 - 148	6	30
1,1,1-Trichloroethane	ND		50.0	57.7		ug/L		115	57 - 142	12	30
1,1,2-Trichloroethane	ND		50.0	50.7		ug/L		101	66 - 131	11	30
Trichloroethene	ND		50.0	56.0		ug/L		112	64 - 136	10	30
Trichlorofluoromethane	ND		50.0	42.5		ug/L		85	54 - 156	25	30
1,2,3-Trichloropropane	ND		50.0	47.1		ug/L		94	65 - 133	7	30
1,2,4-Trimethylbenzene	ND		50.0	49.9		ug/L		100	50 - 139	9	30
1,3,5-Trimethylbenzene	ND		50.0	46.1		ug/L		92	52 - 135	7	30
Vinyl acetate	ND	F1	100	166	F1	ug/L		166	26 - 160	5	33
Vinyl chloride	ND	F2	50.0	41.6	F2	ug/L		83	46 - 152	41	30
Xylenes, Total	ND		100	96.3		ug/L		96	59 - 130	9	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*78 - 118*
Dibromofluoromethane	*101*		*81 - 121*
Toluene-d8 (Surr)	*95*		*80 - 120*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-278092/1-A
Matrix: Water
Analysis Batch: 278447

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278092

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/09/15 11:17	10/13/15 14:56	1
Benzenethiol	ND		10	1.7	ug/L		10/09/15 11:17	10/13/15 14:56	1
Benzoic acid	ND		30	7.3	ug/L		10/09/15 11:17	10/13/15 14:56	1
Benzyl alcohol	ND		10	2.0	ug/L		10/09/15 11:17	10/13/15 14:56	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/09/15 11:17	10/13/15 14:56	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/09/15 11:17	10/13/15 14:56	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/09/15 11:17	10/13/15 14:56	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/09/15 11:17	10/13/15 14:56	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/09/15 11:17	10/13/15 14:56	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/09/15 11:17	10/13/15 14:56	1
4-Chloroaniline	ND		10	3.4	ug/L		10/09/15 11:17	10/13/15 14:56	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/09/15 11:17	10/13/15 14:56	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/09/15 11:17	10/13/15 14:56	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-278092/1-A
Matrix: Water
Analysis Batch: 278447

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278092

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		10	2.2	ug/L		10/09/15 11:17	10/13/15 14:56	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/09/15 11:17	10/13/15 14:56	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/09/15 11:17	10/13/15 14:56	1
Dibenzofuran	ND		10	0.52	ug/L		10/09/15 11:17	10/13/15 14:56	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/09/15 11:17	10/13/15 14:56	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/09/15 11:17	10/13/15 14:56	1
Diethyl phthalate	ND		10	0.70	ug/L		10/09/15 11:17	10/13/15 14:56	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/09/15 11:17	10/13/15 14:56	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/09/15 11:17	10/13/15 14:56	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/09/15 11:17	10/13/15 14:56	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/09/15 11:17	10/13/15 14:56	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/09/15 11:17	10/13/15 14:56	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/09/15 11:17	10/13/15 14:56	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/09/15 11:17	10/13/15 14:56	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/09/15 11:17	10/13/15 14:56	1
1,4-Dioxane	ND		10	1.0	ug/L		10/09/15 11:17	10/13/15 14:56	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/09/15 11:17	10/13/15 14:56	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/09/15 11:17	10/13/15 14:56	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/09/15 11:17	10/13/15 14:56	1
Hexachloroethane	ND		10	4.2	ug/L		10/09/15 11:17	10/13/15 14:56	1
Indene	ND		10	1.0	ug/L		10/09/15 11:17	10/13/15 14:56	1
Isophorone	ND		10	0.57	ug/L		10/09/15 11:17	10/13/15 14:56	1
2-Methylphenol	ND		10	1.8	ug/L		10/09/15 11:17	10/13/15 14:56	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/09/15 11:17	10/13/15 14:56	1
2-Nitroaniline	ND		10	2.2	ug/L		10/09/15 11:17	10/13/15 14:56	1
3-Nitroaniline	ND		10	1.8	ug/L		10/09/15 11:17	10/13/15 14:56	1
4-Nitroaniline	ND		10	2.5	ug/L		10/09/15 11:17	10/13/15 14:56	1
Nitrobenzene	ND		10	0.55	ug/L		10/09/15 11:17	10/13/15 14:56	1
2-Nitrophenol	ND		10	0.65	ug/L		10/09/15 11:17	10/13/15 14:56	1
4-Nitrophenol	ND		10	2.1	ug/L		10/09/15 11:17	10/13/15 14:56	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/09/15 11:17	10/13/15 14:56	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/09/15 11:17	10/13/15 14:56	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/09/15 11:17	10/13/15 14:56	1
Pentachlorophenol	ND		20	1.8	ug/L		10/09/15 11:17	10/13/15 14:56	1
Phenol	ND		10	2.6	ug/L		10/09/15 11:17	10/13/15 14:56	1
Pyridine	ND		10	3.2	ug/L		10/09/15 11:17	10/13/15 14:56	1
Quinoline	ND		10	6.0	ug/L		10/09/15 11:17	10/13/15 14:56	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/09/15 11:17	10/13/15 14:56	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/09/15 11:17	10/13/15 14:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*89*		*10 - 120*	*10/09/15 11:17*	*10/13/15 14:56*	*1*
2-Fluorobiphenyl	*108*		*34 - 120*	*10/09/15 11:17*	*10/13/15 14:56*	*1*
2,4,6-Tribromophenol	*115*		*15 - 135*	*10/09/15 11:17*	*10/13/15 14:56*	*1*
Nitrobenzene-d5	*112*		*27 - 120*	*10/09/15 11:17*	*10/13/15 14:56*	*1*
Phenol-d5	*104*		*10 - 120*	*10/09/15 11:17*	*10/13/15 14:56*	*1*
Terphenyl-d14	*116*		*53 - 125*	*10/09/15 11:17*	*10/13/15 14:56*	*1*

Lab Sample ID: LCS 400-278092/2-A
Matrix: Water
Analysis Batch: 278447

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278092

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	30.0	25.9		ug/L		86	10 - 145
Benzoic acid	110	132		ug/L		120	10 - 120
Benzyl alcohol	30.0	29.2		ug/L		97	51 - 121
Bis(2-chloroethoxy)methane	30.0	28.0		ug/L		93	54 - 123
Bis(2-chloroethyl)ether	30.0	26.7		ug/L		89	47 - 120
bis (2-chloroisopropyl) ether	30.0	24.0		ug/L		80	20 - 142
Bis(2-ethylhexyl) phthalate	30.0	32.2		ug/L		107	62 - 140
4-Bromophenyl phenyl ether	30.0	29.3		ug/L		98	62 - 132
Butyl benzyl phthalate	30.0	30.9		ug/L		103	51 - 150
4-Chloroaniline	30.0	23.8		ug/L		79	32 - 128
4-Chloro-3-methylphenol	30.0	32.0		ug/L		107	47 - 135
2-Chloronaphthalene	30.0	28.6		ug/L		95	24 - 150
2-Chlorophenol	30.0	27.7		ug/L		92	45 - 120
4-Chlorophenyl phenyl ether	30.0	28.7		ug/L		96	61 - 133
Dibenzofuran	30.0	28.7		ug/L		96	62 - 124
3,3'-Dichlorobenzidine	30.0	33.8		ug/L		113	16 - 167
2,4-Dichlorophenol	30.0	31.5		ug/L		105	52 - 125
Diethyl phthalate	30.0	31.7		ug/L		106	55 - 140
2,4-Dimethylphenol	30.0	29.1		ug/L		97	52 - 121
Dimethyl phthalate	30.0	30.3		ug/L		101	50 - 133
Di-n-butyl phthalate	30.0	31.1		ug/L		104	59 - 144
4,6-Dinitro-o-cresol	60.0	67.2		ug/L		112	46 - 136
2,4-Dinitrophenol	86.0	101		ug/L		118	22 - 146
2,4-Dinitrotoluene	30.0	31.8		ug/L		106	54 - 141
2,6-Dinitrotoluene	30.0	32.0		ug/L		107	61 - 130
Di-n-octyl phthalate	30.0	31.0		ug/L		103	55 - 140
1,4-Dioxane	30.0	21.5		ug/L		72	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	30.0	26.2		ug/L		87	55 - 139
Hexachlorobenzene	30.0	29.8		ug/L		99	60 - 138
Hexachlorocyclopentadiene	30.0	17.1	J	ug/L		57	1 - 139
Hexachloroethane	30.0	25.6		ug/L		85	46 - 121
Indene	30.0	29.4		ug/L		98	17 - 141
Indeno[1,2,3-cd]pyrene	30.0	32.5		ug/L		108	55 - 135
Isophorone	30.0	29.0		ug/L		97	57 - 122
2-Methylphenol	30.0	28.2		ug/L		94	38 - 121
3 & 4 Methylphenol	30.0	28.8		ug/L		96	43 - 126
2-Nitroaniline	30.0	29.3		ug/L		98	52 - 135
3-Nitroaniline	30.0	26.4		ug/L		88	51 - 128
4-Nitroaniline	30.0	30.6		ug/L		102	38 - 141
Nitrobenzene	30.0	28.2		ug/L		94	52 - 128
2-Nitrophenol	30.0	31.7		ug/L		106	47 - 129
4-Nitrophenol	60.0	61.4		ug/L		102	34 - 137
N-Nitrosodimethylamine	30.0	24.9		ug/L		83	21 - 134
N-Nitrosodi-n-propylamine	30.0	26.6		ug/L		89	41 - 143
N-Nitrosodiphenylamine	60.0	57.6		ug/L		96	10 - 185
Pentachlorophenol	60.0	64.5		ug/L		108	38 - 138
Phenol	30.0	26.8		ug/L		89	37 - 120
Pyridine	30.0	22.7		ug/L		76	10 - 127
2,4,5-Trichlorophenol	30.0	33.7		ug/L		112	53 - 130

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-278092/2-A
Matrix: Water
Analysis Batch: 278447

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278092

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,6-Trichlorophenol	30.0	33.1		ug/L		110	52 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol	*92*		*10 - 120*
2-Fluorobiphenyl	*111*		*34 - 120*
2,4,6-Tribromophenol	*132*		*15 - 135*
Nitrobenzene-d5	*110*		*27 - 120*
Phenol-d5	*105*		*10 - 120*
Terphenyl-d14	*112*		*53 - 125*

Lab Sample ID: 400-112002-4 MS
Matrix: Water
Analysis Batch: 278447

Client Sample ID: P114R-ROX-100515-MS
Prep Type: Total/NA
Prep Batch: 278092

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	ND		30.0	10.6		ug/L		35	10 - 143
Benzoic acid	ND		110	94.8		ug/L		86	10 - 134
Benzyl alcohol	ND		30.0	26.3		ug/L		88	10 - 154
Bis(2-chloroethoxy)methane	ND		30.0	24.1		ug/L		80	14 - 147
Bis(2-chloroethyl)ether	ND		30.0	28.1		ug/L		94	28 - 130
bis (2-chloroisopropyl) ether	ND		30.0	34.9		ug/L		116	10 - 141
Bis(2-ethylhexyl) phthalate	ND		30.0	27.4		ug/L		91	43 - 160
4-Bromophenyl phenyl ether	ND		30.0	27.5		ug/L		92	26 - 159
Butyl benzyl phthalate	ND		30.0	26.7		ug/L		89	43 - 151
4-Chloroaniline	ND		30.0	9.74	J	ug/L		32	10 - 152
4-Chloro-3-methylphenol	ND		30.0	24.7		ug/L		82	17 - 156
2-Chloronaphthalene	ND		30.0	26.6		ug/L		89	10 - 155
2-Chlorophenol	ND		30.0	20.1		ug/L		67	19 - 130
4-Chlorophenyl phenyl ether	ND		30.0	26.7		ug/L		89	25 - 161
Dibenzofuran	ND		30.0	26.8		ug/L		89	18 - 157
3,3'-Dichlorobenzidine	ND	F1	30.0	ND	F1	ug/L		0	10 - 172
2,4-Dichlorophenol	ND		30.0	22.8		ug/L		76	16 - 147
Diethyl phthalate	ND		30.0	25.9		ug/L		86	23 - 160
2,4-Dimethylphenol	ND		30.0	23.9		ug/L		80	25 - 146
Dimethyl phthalate	ND		30.0	23.1		ug/L		77	11 - 158
Di-n-butyl phthalate	ND		30.0	27.5		ug/L		92	28 - 162
4,6-Dinitro-o-cresol	ND		60.0	57.6		ug/L		96	10 - 168
2,4-Dinitrophenol	ND		86.0	81.6		ug/L		95	10 - 166
2,4-Dinitrotoluene	ND		30.0	25.9		ug/L		86	26 - 158
2,6-Dinitrotoluene	ND		30.0	25.7		ug/L		86	19 - 157
Di-n-octyl phthalate	ND		30.0	26.8		ug/L		89	42 - 150
1,4-Dioxane	ND		30.0	18.2		ug/L		61	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	ND		30.0	24.9		ug/L		83	19 - 162
Hexachlorobenzene	ND		30.0	26.5		ug/L		88	45 - 145
Hexachlorocyclopentadiene	ND		30.0	13.2	J	ug/L		44	10 - 151
Hexachloroethane	ND		30.0	18.3		ug/L		61	29 - 130
Indene	ND		30.0	22.6		ug/L		75	22 - 130

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-112002-4 MS
Matrix: Water
Analysis Batch: 278447

Client Sample ID: P114R-ROX-100515-MS
Prep Type: Total/NA
Prep Batch: 278092

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Indeno[1,2,3-cd]pyrene	ND		30.0	26.2		ug/L		87	41 - 147
Isophorone	ND		30.0	24.9		ug/L		83	24 - 144
2-Methylphenol	ND		30.0	20.6		ug/L		69	22 - 130
3 & 4 Methylphenol	ND		30.0	18.9	J	ug/L		63	31 - 130
2-Nitroaniline	ND		30.0	22.1		ug/L		74	10 - 162
3-Nitroaniline	ND		30.0	9.72	J	ug/L		32	10 - 163
4-Nitroaniline	ND		30.0	14.3		ug/L		48	10 - 162
Nitrobenzene	ND		30.0	21.3		ug/L		71	34 - 135
2-Nitrophenol	ND		30.0	23.9		ug/L		80	27 - 134
4-Nitrophenol	ND		60.0	40.9		ug/L		68	10 - 175
N-Nitrosodimethylamine	ND		30.0	20.7		ug/L		69	10 - 139
N-Nitrosodi-n-propylamine	ND		30.0	27.4		ug/L		91	13 - 147
N-Nitrosodiphenylamine	ND		60.0	55.4		ug/L		92	31 - 150
Pentachlorophenol	ND		60.0	61.9		ug/L		103	10 - 180
Phenol	ND		30.0	17.6		ug/L		59	23 - 130
Pyridine	ND		30.0	16.4		ug/L		55	10 - 130
2,4,5-Trichlorophenol	ND		30.0	26.4		ug/L		88	43 - 137
2,4,6-Trichlorophenol	ND		30.0	25.7		ug/L		86	42 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorophenol	*61*		*10 - 120*
2-Fluorobiphenyl	*95*		*34 - 120*
2,4,6-Tribromophenol	*96*		*15 - 135*
Nitrobenzene-d5	*77*		*27 - 120*
Phenol-d5	*65*		*10 - 120*
Terphenyl-d14	*53*		*53 - 125*

Lab Sample ID: 400-112002-4 MSD
Matrix: Water
Analysis Batch: 278447

Client Sample ID: P114R-ROX-100515-MSD
Prep Type: Total/NA
Prep Batch: 278092

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	ND		30.0	7.64	J	ug/L		25	10 - 143	32	63
Benzoic acid	ND		110	132		ug/L		120	10 - 134	33	49
Benzyl alcohol	ND		30.0	29.6		ug/L		99	10 - 154	12	37
Bis(2-chloroethoxy)methane	ND		30.0	26.9		ug/L		90	14 - 147	11	70
Bis(2-chloroethyl)ether	ND		30.0	31.3		ug/L		104	28 - 130	11	42
bis (2-chloroisopropyl) ether	ND		30.0	25.1		ug/L		84	10 - 141	33	41
Bis(2-ethylhexyl) phthalate	ND		30.0	31.9		ug/L		106	43 - 160	15	35
4-Bromophenyl phenyl ether	ND		30.0	30.2		ug/L		101	26 - 159	9	30
Butyl benzyl phthalate	ND		30.0	30.9		ug/L		103	43 - 151	15	32
4-Chloroaniline	ND		30.0	9.84	J	ug/L		33	10 - 152	1	94
4-Chloro-3-methylphenol	ND		30.0	32.7		ug/L		109	17 - 156	28	40
2-Chloronaphthalene	ND		30.0	28.2		ug/L		94	10 - 155	6	29
2-Chlorophenol	ND		30.0	24.8		ug/L		83	19 - 130	21	42
4-Chlorophenyl phenyl ether	ND		30.0	28.6		ug/L		95	25 - 161	7	27
Dibenzofuran	ND		30.0	28.4		ug/L		95	18 - 157	6	29
3,3'-Dichlorobenzidine	ND	F1	30.0	ND	F1	ug/L		0	10 - 172	NC	58

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-112002-4 MSD
Matrix: Water
Analysis Batch: 278447

Client Sample ID: P114R-ROX-100515-MSD
Prep Type: Total/NA
Prep Batch: 278092

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-Dichlorophenol	ND		30.0	29.8		ug/L		99	16 - 147	26	43
Diethyl phthalate	ND		30.0	30.2		ug/L		101	23 - 160	15	40
2,4-Dimethylphenol	ND		30.0	30.4		ug/L		101	25 - 146	24	47
Dimethyl phthalate	ND		30.0	29.3		ug/L		98	11 - 158	24	36
Di-n-butyl phthalate	ND		30.0	30.5		ug/L		102	28 - 162	10	32
4,6-Dinitro-o-cresol	ND		60.0	67.6		ug/L		113	10 - 168	16	42
2,4-Dinitrophenol	ND		86.0	103		ug/L		120	10 - 166	24	36
2,4-Dinitrotoluene	ND		30.0	30.5		ug/L		102	26 - 158	16	28
2,6-Dinitrotoluene	ND		30.0	31.3		ug/L		104	19 - 157	19	28
Di-n-octyl phthalate	ND		30.0	31.7		ug/L		106	42 - 150	17	35
1,4-Dioxane	ND		30.0	20.6		ug/L		69	10 - 130	12	40
1,2-Diphenylhydrazine (as Azobenzene)	ND		30.0	26.3		ug/L		88	19 - 162	6	40
Hexachlorobenzene	ND		30.0	30.9		ug/L		103	45 - 145	15	33
Hexachlorocyclopentadiene	ND		30.0	14.2	J	ug/L		47	10 - 151	7	50
Hexachloroethane	ND		30.0	21.0		ug/L		70	29 - 130	14	41
Indene	ND		30.0	24.1		ug/L		80	22 - 130	7	40
Indeno[1,2,3-cd]pyrene	ND		30.0	29.4		ug/L		98	41 - 147	12	34
Isophorone	ND		30.0	25.0		ug/L		83	24 - 144	1	33
2-Methylphenol	ND		30.0	26.4		ug/L		88	22 - 130	25	47
3 & 4 Methylphenol	ND		30.0	24.5		ug/L		82	31 - 130	26	47
2-Nitroaniline	ND		30.0	28.3		ug/L		94	10 - 162	25	33
3-Nitroaniline	ND		30.0	8.59	J	ug/L		29	10 - 163	12	39
4-Nitroaniline	ND		30.0	9.80	J	ug/L		33	10 - 162	37	50
Nitrobenzene	ND		30.0	26.0		ug/L		87	34 - 135	20	35
2-Nitrophenol	ND		30.0	30.6		ug/L		102	27 - 134	25	43
4-Nitrophenol	ND		60.0	61.0		ug/L		102	10 - 175	39	82
N-Nitrosodimethylamine	ND		30.0	24.1		ug/L		80	10 - 139	15	62
N-Nitrosodi-n-propylamine	ND		30.0	29.8		ug/L		99	13 - 147	8	36
N-Nitrosodiphenylamine	ND		60.0	58.5		ug/L		98	31 - 150	5	34
Pentachlorophenol	ND		60.0	72.5		ug/L		121	10 - 180	16	42
Phenol	ND		30.0	24.5		ug/L		82	23 - 130	33	52
Pyridine	ND		30.0	23.6		ug/L		79	10 - 130	36	55
2,4,5-Trichlorophenol	ND		30.0	34.1		ug/L		114	43 - 137	25	42
2,4,6-Trichlorophenol	ND		30.0	32.5		ug/L		108	42 - 135	23	44

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorophenol	*71*		*10 - 120*
2-Fluorobiphenyl	*104*		*34 - 120*
2,4,6-Tribromophenol	*128*		*15 - 135*
Nitrobenzene-d5	*99*		*27 - 120*
Phenol-d5	*89*		*10 - 120*
Terphenyl-d14	*77*		*53 - 125*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 400-278092/1-A
Matrix: Water
Analysis Batch: 278326

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278092

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/12/15 17:56	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/12/15 17:56	1
Anthracene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/12/15 17:56	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/12/15 17:56	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/12/15 17:56	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/12/15 17:56	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/12/15 17:56	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/12/15 17:56	1
Chrysene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/12/15 17:56	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/12/15 17:56	1
Fluoranthene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/12/15 17:56	1
Fluorene	ND		0.20	0.021	ug/L		10/09/15 11:17	10/12/15 17:56	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/12/15 17:56	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/12/15 17:56	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/12/15 17:56	1
Phenanthrene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/12/15 17:56	1
Pyrene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/12/15 17:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*15 - 122*	*10/09/15 11:17*	*10/12/15 17:56*	*1*
Nitrobenzene-d5	*89*		*19 - 130*	*10/09/15 11:17*	*10/12/15 17:56*	*1*
Terphenyl-d14	*112*		*33 - 138*	*10/09/15 11:17*	*10/12/15 17:56*	*1*

Lab Sample ID: LCS 400-278092/2-A
Matrix: Water
Analysis Batch: 278326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278092

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	30.0	27.1		ug/L		90	41 - 120
Acenaphthylene	30.0	27.7		ug/L		92	44 - 120
Anthracene	30.0	27.1		ug/L		90	49 - 120
Benzo[a]anthracene	30.0	26.6		ug/L		89	61 - 135
Benzo[a]pyrene	30.0	27.5		ug/L		92	52 - 120
Benzo[b]fluoranthene	30.0	28.4		ug/L		95	53 - 134
Benzo[g,h,i]perylene	30.0	21.8		ug/L		73	47 - 133
Benzo[k]fluoranthene	30.0	27.8		ug/L		93	57 - 134
Chrysene	30.0	29.8		ug/L		99	55 - 122
Dibenz(a,h)anthracene	30.0	22.5		ug/L		75	48 - 146
Fluoranthene	30.0	27.1		ug/L		90	54 - 128
Fluorene	30.0	30.2		ug/L		101	45 - 125
Indeno[1,2,3-cd]pyrene	30.0	23.1		ug/L		77	43 - 142
1-Methylnaphthalene	30.0	26.8		ug/L		89	41 - 120
2-Methylnaphthalene	30.0	26.9		ug/L		90	32 - 124
Phenanthrene	30.0	26.5		ug/L		88	48 - 120
Pyrene	30.0	28.6		ug/L		95	48 - 132

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 400-278092/2-A
Matrix: Water
Analysis Batch: 278326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278092

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*96*		*15 - 122*
Nitrobenzene-d5	*99*		*19 - 130*
Terphenyl-d14	*99*		*33 - 138*

Lab Sample ID: 400-112002-4 MS
Matrix: Water
Analysis Batch: 278503

Client Sample ID: P114R-ROX-100515-MS
Prep Type: Total/NA
Prep Batch: 278092

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		30.0	30.1		ug/L		100	35 - 113
Acenaphthylene	ND		30.0	30.3		ug/L		101	41 - 118
Anthracene	ND		30.0	29.0		ug/L		97	45 - 122
Benzo[a]anthracene	ND		30.0	26.1		ug/L		87	55 - 133
Benzo[a]pyrene	0.071	J	30.0	26.6		ug/L		88	50 - 108
Benzo[b]fluoranthene	0.070	J	30.0	26.8		ug/L		89	50 - 128
Benzo[g,h,i]perylene	ND		30.0	25.0		ug/L		83	46 - 133
Benzo[k]fluoranthene	0.060	J	30.0	24.9		ug/L		83	52 - 128
Chrysene	ND		30.0	29.0		ug/L		97	52 - 116
Dibenz(a,h)anthracene	ND		30.0	25.7		ug/L		86	52 - 143
Fluoranthene	ND		30.0	27.8		ug/L		93	32 - 150
Fluorene	ND		30.0	33.5		ug/L		112	15 - 150
Indeno[1,2,3-cd]pyrene	ND		30.0	25.7		ug/L		86	41 - 141
1-Methylnaphthalene	ND		30.0	28.8		ug/L		96	10 - 150
2-Methylnaphthalene	ND		30.0	28.7		ug/L		96	10 - 150
Phenanthrene	ND		30.0	28.4		ug/L		95	36 - 125
Pyrene	ND		30.0	30.0		ug/L		100	41 - 127

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*96*		*15 - 122*
Nitrobenzene-d5	*79*		*19 - 130*
Terphenyl-d14	*52*		*33 - 138*

Lab Sample ID: 400-112002-4 MSD
Matrix: Water
Analysis Batch: 278503

Client Sample ID: P114R-ROX-100515-MSD
Prep Type: Total/NA
Prep Batch: 278092

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		30.0	29.9		ug/L		100	35 - 113	1	49
Acenaphthylene	ND		30.0	30.5		ug/L		102	41 - 118	1	48
Anthracene	ND		30.0	29.0		ug/L		97	45 - 122	0	56
Benzo[a]anthracene	ND		30.0	29.1		ug/L		97	55 - 133	11	57
Benzo[a]pyrene	0.071	J	30.0	29.6		ug/L		98	50 - 108	11	59
Benzo[b]fluoranthene	0.070	J	30.0	30.5		ug/L		101	50 - 128	13	62
Benzo[g,h,i]perylene	ND		30.0	27.0		ug/L		90	46 - 133	8	58
Benzo[k]fluoranthene	0.060	J	30.0	28.4		ug/L		94	52 - 128	13	58
Chrysene	ND		30.0	32.6		ug/L		109	52 - 116	12	59
Dibenz(a,h)anthracene	ND		30.0	28.2		ug/L		94	52 - 143	9	60
Fluoranthene	ND		30.0	29.2		ug/L		97	32 - 150	5	59

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: 400-112002-4 MSD
Matrix: Water
Analysis Batch: 278503

Client Sample ID: P114R-ROX-100515-MSD
Prep Type: Total/NA
Prep Batch: 278092

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluorene	ND		30.0	33.6		ug/L		112	15 - 150	0	49
Indeno[1,2,3-cd]pyrene	ND		30.0	28.0		ug/L		93	41 - 141	8	58
1-Methylnaphthalene	ND		30.0	28.9		ug/L		96	10 - 150	0	66
2-Methylnaphthalene	ND		30.0	28.8		ug/L		96	10 - 150	0	66
Phenanthrene	ND		30.0	29.0		ug/L		97	36 - 125	2	69
Pyrene	ND		30.0	31.9		ug/L		106	41 - 127	6	58

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*99*		*15 - 122*
Nitrobenzene-d5	*96*		*19 - 130*
Terphenyl-d14	*70*		*33 - 138*

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-278346/1-A
Matrix: Water
Analysis Batch: 278462

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278346

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/12/15 08:45	10/12/15 10:58	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/12/15 08:45	10/12/15 10:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*51 - 149*	*10/12/15 08:45*	*10/12/15 10:58*	*1*

Lab Sample ID: LCS 400-278346/2-A
Matrix: Water
Analysis Batch: 278462

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278346

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.100	0.0963		ug/L		96	60 - 140
1,2-Dibromoethane	0.100	0.106		ug/L		106	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*51 - 149*

Lab Sample ID: 400-112002-4 MS
Matrix: Water
Analysis Batch: 278462

Client Sample ID: P114R-ROX-100515-MS
Prep Type: Total/NA
Prep Batch: 278346

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	ND		0.0967	0.0888		ug/L		92	65 - 135
1,2-Dibromoethane	ND	F2 F1 *	0.0967	0.105		ug/L		109	65 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*84*		*51 - 149*

Method: 8011 - EDB and DBCP in Water by Microextraction (Continued)

Lab Sample ID: 400-112002-4 MSD
Matrix: Water
Analysis Batch: 278462

Client Sample ID: P114R-ROX-100515-MSD
Prep Type: Total/NA
Prep Batch: 278346

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	ND		0.100	0.101		ug/L		101	65 - 135	13	20
1,2-Dibromoethane	ND	F2 F1 *	0.100	0.115		ug/L		115	65 - 135	9	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*85*		*51 - 149*

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-112002-1
SDG: Proj. 6400249-21563720.03004

Client Sample ID: TB-ROX-100515-8260

Date Collected: 10/05/15 00:00
Date Received: 10/06/15 10:03

Lab Sample ID: 400-112002-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	278883	10/15/15 08:32	WPD	TAL PEN

Client Sample ID: TB-ROX-100515-8011

Date Collected: 10/05/15 00:00
Date Received: 10/06/15 10:03

Lab Sample ID: 400-112002-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35.2 mL	35 mL	278346	10/12/15 08:45	AM	TAL PEN
Total/NA	Analysis	8011		1	35.2 mL	35 mL	278462	10/12/15 18:24	AM	TAL PEN

Client Sample ID: P114R-ROX-100515-EB

Date Collected: 10/05/15 11:20
Date Received: 10/06/15 10:03

Lab Sample ID: 400-112002-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	278883	10/15/15 08:56	WPD	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278092	10/09/15 11:17	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278447	10/13/15 18:00	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278092	10/09/15 11:17	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	278503	10/13/15 16:59	CEP	TAL PEN
Total/NA	Prep	8011			34.8 mL	35 mL	278346	10/12/15 08:45	AM	TAL PEN
Total/NA	Analysis	8011		1	34.8 mL	35 mL	278462	10/12/15 18:54	AM	TAL PEN

Client Sample ID: P114R-ROX-100515

Date Collected: 10/05/15 12:30
Date Received: 10/06/15 10:03

Lab Sample ID: 400-112002-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	278883	10/15/15 09:20	WPD	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278092	10/09/15 11:17	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278447	10/13/15 17:24	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278092	10/09/15 11:17	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	278503	10/13/15 12:00	CEP	TAL PEN
Total/NA	Prep	8011			34.7 mL	35 mL	278346	10/12/15 08:45	AM	TAL PEN
Total/NA	Analysis	8011		1	34.7 mL	35 mL	278462	10/12/15 19:24	AM	TAL PEN

Client Sample ID: MW13-ROX-100515

Date Collected: 10/05/15 14:45
Date Received: 10/06/15 10:03

Lab Sample ID: 400-112002-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	278883	10/15/15 09:44	WPD	TAL PEN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-112002-1
SDG: Proj. 6400249-21563720.03004

Client Sample ID: MW13-ROX-100515

Date Collected: 10/05/15 14:45
Date Received: 10/06/15 10:03

Lab Sample ID: 400-112002-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	278092	10/09/15 11:17	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278447	10/13/15 18:37	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278092	10/09/15 11:17	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	278503	10/13/15 17:36	CEP	TAL PEN
Total/NA	Prep	8011			35.1 mL	35 mL	278346	10/12/15 08:45	AM	TAL PEN
Total/NA	Analysis	8011		1	35.1 mL	35 mL	278462	10/12/15 19:53	AM	TAL PEN

Client Sample ID: Lab Control Sample

Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-278092/2-A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	278092	10/09/15 11:17	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278447	10/13/15 15:33	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278092	10/09/15 11:17	KH1	TAL PEN
Total/NA	Analysis	8270C LL		5	1000 mL	1 mL	278326	10/12/15 18:33	CEP	TAL PEN

Client Sample ID: Lab Control Sample

Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-278346/2-A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	278346	10/12/15 08:45	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	278462	10/12/15 11:28	AM	TAL PEN

Client Sample ID: Lab Control Sample

Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-278883/1002

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	278883	10/15/15 07:18	WPD	TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-278092/1-A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	278092	10/09/15 11:17	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278447	10/13/15 14:56	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278092	10/09/15 11:17	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	278326	10/12/15 17:56	CEP	TAL PEN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-112002-1
SDG: Proj. 6400249-21563720.03004

Client Sample ID: Method Blank

Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-278346/1-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	278346	10/12/15 08:45	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	278462	10/12/15 10:58	AM	TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-278883/4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	278883	10/15/15 08:07	WPD	TAL PEN

Client Sample ID: P114R-ROX-100515-MS

Date Collected: 10/05/15 12:30
Date Received: 10/06/15 10:03

Lab Sample ID: 400-112002-4 MS
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	278883	10/15/15 15:07	WPD	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278092	10/09/15 11:17	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278447	10/13/15 16:10	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278092	10/09/15 11:17	KH1	TAL PEN
Total/NA	Analysis	8270C LL		5	1000 mL	1 mL	278503	10/13/15 10:46	CEP	TAL PEN
Total/NA	Prep	8011			36.2 mL	35 mL	278346	10/12/15 08:45	AM	TAL PEN
Total/NA	Analysis	8011		1	36.2 mL	35 mL	278462	10/12/15 11:58	AM	TAL PEN

Client Sample ID: P114R-ROX-100515-MSD

Date Collected: 10/05/15 12:30
Date Received: 10/06/15 10:03

Lab Sample ID: 400-112002-4 MSD
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	278883	10/15/15 16:06	WPD	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278092	10/09/15 11:17	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278447	10/13/15 16:47	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278092	10/09/15 11:17	KH1	TAL PEN
Total/NA	Analysis	8270C LL		5	1000 mL	1 mL	278503	10/13/15 11:23	CEP	TAL PEN
Total/NA	Prep	8011			35 mL	35 mL	278346	10/12/15 08:45	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	278462	10/12/15 12:28	AM	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-112002-1
SDG: Proj. 6400249-21563720.03004

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL PEN
8011	EDB and DBCP in Water by Microextraction	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-112002-1
SDG: Proj. 6400249-21563720.03004

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	08-31-15 *
Arizona	State Program	9	AZ0710	01-11-16
Arkansas DEQ	State Program	6	88-0689	09-01-16
Florida	NELAP	4	E81010	06-30-16
Georgia	State Program	4	N/A	06-30-16
Iowa	State Program	7	367	07-31-16
Kansas	NELAP	7	E-10253	10-31-15
Kentucky (UST)	State Program	4	53	06-30-16
Kentucky (WW)	State Program	4	98030	12-31-15
Louisiana	NELAP	6	30976	06-30-16
Maryland	State Program	3	233	09-30-16
Massachusetts	State Program	1	M-FL094	06-30-16
Michigan	State Program	5	9912	06-30-16
New Jersey	NELAP	2	FL006	10-30-15
North Carolina (WW/SW)	State Program	4	314	12-31-15
Oklahoma	State Program	6	9810	08-31-16
Pennsylvania	NELAP	3	68-00467	01-31-16
Rhode Island	State Program	1	LAO00307	12-30-15
South Carolina	State Program	4	96026	06-30-15 *
Tennessee	State Program	4	TN02907	06-30-16
Texas	NELAP	6	T104704286-15-9	09-30-16
USDA	Federal		P330-13-00193	07-01-16
Virginia	NELAP	3	460166	06-14-16
West Virginia DEP	State Program	3	136	06-30-16

13

* Certification renewal pending - certification considered valid.

LAB (LOCATION)

☐ XENCO (_____)
☐ CALSCIENCE (_____)
☑ OTHER [redacted]
☐ Lab Vendor # (_____)
☐ SPL (_____)

Lab Vendor # Test America

Shell Oil Products Chain Of Custody Record

AECOM

Please Check Appropriate Box:

☑ ENV. SERVICES	☐ MOTIVA RETAIL	☐ SHELL RETAIL
☐ MOTIVA SD&CM	☐ CONSULTANT	☐ LUBES
☐ SHELL PIPELINE	☐ OTHER _____	

Print Bill To Contact Name: Bob Billman

INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0 ☐ CHECK IF NO INCIDENT # APPLIES

DATE: 5 Oct 2015

PO #:

SAP #: 3 4 0 0 6 1

PAGE: 1 of 1

SAMPLING COMPANY: AECOM

LOG CODE:

SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA

State: IL

GLOBAL ID NO.:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110

EDF DELIVERABLE TO (Name, Company, Office Location):

PHONE NO.:

E-MAIL:

CONSULTANT PROJECT NO.: Roxana Quarterly GW / 60400249-21563720.03004

PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow

SAMPLER NAME(S) (Print): S. Fisher / D. Haxel

LAB USE ONLY

TELEPHONE: 314-429-0100

FAX: 314-429-0462

Bill To Contact E-MAIL: bob.billman@aecom.com; elizabeth.kunkel@aecom.com; lindsay.rathnow@aecom.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:
* Please include "J" values on Reports.
* Please provide sample receipt upon login.

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260	VOC 8011	SVOC 8270	PAH 8270LL	Container PID Readings or Laboratory Notes
	TB-ROX-100515-8260	10/5/15	0000	WATER	2					2	X				
	TB-ROX-100515-8011	"	0000	"	2					2		X			
	P114R-ROX-100515-EB	"	1120	"	4			3		7	X	X	X	X	
	P114R-ROX-100515	"	1230	"	4			3		7	X	X	X	X	
	P114R-ROX-100515-MS	"	"	"	4			3		7	X	X	X	X	
	P114R-ROX-100515-MSD	"	"	"	4			3		7	X	X	X	X	
	MW13-ROX-100515	"	1445	"	4			3		7	X	X	X	X	

400-112002 COC

Samuel Fisher

Relinquished by: (Signature) Samuel Fisher	Received by: (Signature) FED EX # 8092 2040 9737 9726 (SF)	Date: 5 Oct. 2015	Time: 1730
Relinquished by: (Signature)	Received by: (Signature)	Date: 10/6/15	Time: 1003
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2/06 Revision

3.0°C, 3.3°C, 3.8°C JAS

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 400-112002-1
SDG Number: Proj. 6400249-21563720.03004

Login Number: 112002
List Number: 1
Creator: Akers, Stephanie C

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.0°C, 3.3°C, 3.8°C, IR-5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Roxana Groundwater Quarterly – 4th Quarter 2015 Data Review

Laboratory SDG: 400-112003

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 11/16/2015

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2014

Sample Identification	Sample Identification
MW23-ROX-100515	TB-ROX-100515-8260
TB-ROX-100515-8011	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated the initial calibration verification for vinyl acetate was outside evaluation criteria; associated samples were non-detect for acetone, therefore no qualification was required. Three of 69 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid- reactive compounds, results may be biased low due to the presence of HCl in the preservative.

The cooler receipt form did not indicate any problems.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

No

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

Yes

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples analyzed as part of this SDG?

No

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

11.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; samples analyzed did not require dilution.

12.0 Additional Qualifications

Were additional qualifications applied?

No

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-112003-1
TestAmerica SDG: Proj. 60400249-21563720.03004
Client Project/Site: ROXANA QUARTERLY GW

For:
AECOM Technical Services Inc.
1001 Highlands Plaza Dr. West
St. Louis, Missouri 63110

Attn: Mrs. Elizabeth Kunkel

Carolyn S. Hooper

Authorized for release by:
10/29/2015 9:06:01 PM

Carolyn Hooper, Project Manager I
(850)474-1001
carolyn.hooper@testamericainc.com

..... LINKS .....

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

Reviewed 11/16/15 MM

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 400-112003-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-112003-1

Receipt
The samples were received on 10/6/2015 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 3.0° C, 3.3° C and 3.8° C.

GC/MS VOA
Method 8260B: The initial calibration verification (ICV) analyzed in batch 400-274907 was outside method criteria for the following analyte: Vinyl acetate As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

The matrix spike / matrix spike duplicate (MS/MSD) recovered below the reporting limit (RL) for 2-chloroethyl vinyl ether for batch 278384 due to the acidic nature of the parent sample.

The preservative (hydrochloric acid) used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The requested target analyte list includes 2-chloroethyl vinyl ether, acrolein, and acrylonitrile, which are acid-labile compounds that degrade in an acidic medium.

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

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-112003-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: MW23-ROX-100515 — Lab Sample ID: 400-112003-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	1.3		1.0	0.74	ug/L	1		8260B	Total/NA
1-Methylnaphthalene	0.072	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
2-Methylnaphthalene	0.11	J	0.20	0.020	ug/L	1		8270C LL	Total/NA

Client Sample ID: TB-ROX-100515-8260 — Lab Sample ID: 400-112003-2

No Detections.

Client Sample ID: TB-ROX-100515-8011 — Lab Sample ID: 400-112003-3

No Detections.

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-112003-1
SDG: Proj. 60400249-21563720.03004

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-112003-1	MW23-ROX-100515	Water	10/05/15 10:45	10/06/15 10:00
400-112003-2	TB-ROX-100515-8260	Water	10/05/15 00:00	10/06/15 10:00
400-112003-3	TB-ROX-100515-8011	Water	10/05/15 00:00	10/06/15 10:00

5

Client Sample ID: MW23-ROX-100515

Date Collected: 10/05/15 10:45
Date Received: 10/06/15 10:00

Lab Sample ID: 400-112003-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/12/15 18:18	1
Acrolein	ND		20	10	ug/L			10/12/15 18:18	1
Acrylonitrile	ND		10	2.8	ug/L			10/12/15 18:18	1
Benzene	ND		1.0	0.38	ug/L			10/12/15 18:18	1
Bromobenzene	ND		1.0	0.54	ug/L			10/12/15 18:18	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/12/15 18:18	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/12/15 18:18	1
Bromoform	ND		5.0	0.71	ug/L			10/12/15 18:18	1
Bromomethane	ND		1.0	0.98	ug/L			10/12/15 18:18	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/12/15 18:18	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/12/15 18:18	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/12/15 18:18	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/12/15 18:18	1
Chloroethane	ND		1.0	0.76	ug/L			10/12/15 18:18	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/12/15 18:18	1
Chloroform	ND		1.0	0.60	ug/L			10/12/15 18:18	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/12/15 18:18	1
Chloromethane	ND		1.0	0.83	ug/L			10/12/15 18:18	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/12/15 18:18	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/12/15 18:18	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/12/15 18:18	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/12/15 18:18	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/12/15 18:18	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/12/15 18:18	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/12/15 18:18	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/12/15 18:18	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/12/15 18:18	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/12/15 18:18	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/12/15 18:18	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/12/15 18:18	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/12/15 18:18	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/12/15 18:18	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/12/15 18:18	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/12/15 18:18	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/12/15 18:18	1
2-Hexanone	ND		25	3.1	ug/L			10/12/15 18:18	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/12/15 18:18	1
Methylene bromide	ND		5.0	0.59	ug/L			10/12/15 18:18	1
Methylene chloride	ND		5.0	3.0	ug/L			10/12/15 18:18	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/12/15 18:18	1
Methyl tert-butyl ether	**1.3**		1.0	0.74	ug/L			10/12/15 18:18	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/12/15 18:18	1
Naphthalene	ND		1.0	1.0	ug/L			10/12/15 18:18	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/12/15 18:18	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/12/15 18:18	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/12/15 18:18	1
o-Xylene	ND		5.0	0.60	ug/L			10/12/15 18:18	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/12/15 18:18	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/12/15 18:18	1

Client Sample ID: MW23-ROX-100515

Date Collected: 10/05/15 10:45
Date Received: 10/06/15 10:00

Lab Sample ID: 400-112003-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/12/15 18:18	1
Styrene	ND		1.0	1.0	ug/L			10/12/15 18:18	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/12/15 18:18	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/12/15 18:18	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/12/15 18:18	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/12/15 18:18	1
Toluene	ND		1.0	0.70	ug/L			10/12/15 18:18	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/12/15 18:18	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/12/15 18:18	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/12/15 18:18	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/12/15 18:18	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/12/15 18:18	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/12/15 18:18	1
Trichloroethene	ND		1.0	0.50	ug/L			10/12/15 18:18	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/12/15 18:18	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/12/15 18:18	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/12/15 18:18	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/12/15 18:18	1
Vinyl acetate	ND		25	2.0	ug/L			10/12/15 18:18	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/12/15 18:18	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/12/15 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*78 - 118*		*10/12/15 18:18*	*1*
Dibromofluoromethane	*97*		*81 - 121*		*10/12/15 18:18*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/12/15 18:18*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 18:13	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 18:13	1
Anthracene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 18:13	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 18:13	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 18:13	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 18:13	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 18:13	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 18:13	1
Chrysene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 18:13	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 18:13	1
Fluoranthene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 18:13	1
Fluorene	ND		0.20	0.021	ug/L		10/09/15 11:17	10/13/15 18:13	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 18:13	1
1-Methylnaphthalene	**0.072**	**J**	0.20	0.020	ug/L		10/09/15 11:17	10/13/15 18:13	1
2-Methylnaphthalene	**0.11**	**J**	0.20	0.020	ug/L		10/09/15 11:17	10/13/15 18:13	1
Phenanthrene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 18:13	1
Pyrene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*93*		*15 - 122*	*10/09/15 11:17*	*10/13/15 18:13*	*1*
Nitrobenzene-d5	*102*		*19 - 130*	*10/09/15 11:17*	*10/13/15 18:13*	*1*

Client Sample ID: MW23-ROX-100515
Date Collected: 10/05/15 10:45
Date Received: 10/06/15 10:00

Lab Sample ID: 400-112003-1
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*97*		*33 - 138*	*10/09/15 11:17*	*10/13/15 18:13*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/09/15 11:17	10/13/15 19:14	1
Benzenethiol	ND		10	1.7	ug/L		10/09/15 11:17	10/13/15 19:14	1
Benzoic acid	ND		30	7.3	ug/L		10/09/15 11:17	10/13/15 19:14	1
Benzyl alcohol	ND		10	2.0	ug/L		10/09/15 11:17	10/13/15 19:14	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/09/15 11:17	10/13/15 19:14	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/09/15 11:17	10/13/15 19:14	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/09/15 11:17	10/13/15 19:14	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/09/15 11:17	10/13/15 19:14	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/09/15 11:17	10/13/15 19:14	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/09/15 11:17	10/13/15 19:14	1
4-Chloroaniline	ND		10	3.4	ug/L		10/09/15 11:17	10/13/15 19:14	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/09/15 11:17	10/13/15 19:14	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/09/15 11:17	10/13/15 19:14	1
2-Chlorophenol	ND		10	2.2	ug/L		10/09/15 11:17	10/13/15 19:14	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/09/15 11:17	10/13/15 19:14	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/09/15 11:17	10/13/15 19:14	1
Dibenzofuran	ND		10	0.52	ug/L		10/09/15 11:17	10/13/15 19:14	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/09/15 11:17	10/13/15 19:14	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/09/15 11:17	10/13/15 19:14	1
Diethyl phthalate	ND		10	0.70	ug/L		10/09/15 11:17	10/13/15 19:14	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/09/15 11:17	10/13/15 19:14	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/09/15 11:17	10/13/15 19:14	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/09/15 11:17	10/13/15 19:14	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/09/15 11:17	10/13/15 19:14	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/09/15 11:17	10/13/15 19:14	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/09/15 11:17	10/13/15 19:14	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/09/15 11:17	10/13/15 19:14	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/09/15 11:17	10/13/15 19:14	1
1,4-Dioxane	ND		10	1.0	ug/L		10/09/15 11:17	10/13/15 19:14	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/09/15 11:17	10/13/15 19:14	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/09/15 11:17	10/13/15 19:14	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/09/15 11:17	10/13/15 19:14	1
Hexachloroethane	ND		10	4.2	ug/L		10/09/15 11:17	10/13/15 19:14	1
Indene	ND		10	1.0	ug/L		10/09/15 11:17	10/13/15 19:14	1
Isophorone	ND		10	0.57	ug/L		10/09/15 11:17	10/13/15 19:14	1
2-Methylphenol	ND		10	1.8	ug/L		10/09/15 11:17	10/13/15 19:14	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/09/15 11:17	10/13/15 19:14	1
2-Nitroaniline	ND		10	2.2	ug/L		10/09/15 11:17	10/13/15 19:14	1
3-Nitroaniline	ND		10	1.8	ug/L		10/09/15 11:17	10/13/15 19:14	1
4-Nitroaniline	ND		10	2.5	ug/L		10/09/15 11:17	10/13/15 19:14	1
Nitrobenzene	ND		10	0.55	ug/L		10/09/15 11:17	10/13/15 19:14	1
2-Nitrophenol	ND		10	0.65	ug/L		10/09/15 11:17	10/13/15 19:14	1
4-Nitrophenol	ND		10	2.1	ug/L		10/09/15 11:17	10/13/15 19:14	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/09/15 11:17	10/13/15 19:14	1

Client Sample ID: MW23-ROX-100515

Date Collected: 10/05/15 10:45
Date Received: 10/06/15 10:00

Lab Sample ID: 400-112003-1

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/09/15 11:17	10/13/15 19:14	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/09/15 11:17	10/13/15 19:14	1
Pentachlorophenol	ND		20	1.8	ug/L		10/09/15 11:17	10/13/15 19:14	1
Phenol	ND		10	2.6	ug/L		10/09/15 11:17	10/13/15 19:14	1
Pyridine	ND		10	3.2	ug/L		10/09/15 11:17	10/13/15 19:14	1
Quinoline	ND		10	6.0	ug/L		10/09/15 11:17	10/13/15 19:14	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/09/15 11:17	10/13/15 19:14	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/09/15 11:17	10/13/15 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*95*		*34 - 120*	*10/09/15 11:17*	*10/13/15 19:14*	*1*
2-Fluorophenol	*72*		*10 - 120*	*10/09/15 11:17*	*10/13/15 19:14*	*1*
Nitrobenzene-d5	*104*		*27 - 120*	*10/09/15 11:17*	*10/13/15 19:14*	*1*
Phenol-d5	*89*		*10 - 120*	*10/09/15 11:17*	*10/13/15 19:14*	*1*
Terphenyl-d14	*91*		*53 - 125*	*10/09/15 11:17*	*10/13/15 19:14*	*1*
2,4,6-Tribromophenol	*135*		*15 - 135*	*10/09/15 11:17*	*10/13/15 19:14*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.031	0.0057	ug/L		10/12/15 08:45	10/12/15 20:23	1
1,2-Dibromoethane	ND		0.021	0.0052	ug/L		10/12/15 08:45	10/12/15 20:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*74*		*51 - 149*	*10/12/15 08:45*	*10/12/15 20:23*	*1*

Client Sample ID: TB-ROX-100515-8260

Date Collected: 10/05/15 00:00
Date Received: 10/06/15 10:00

Lab Sample ID: 400-112003-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/14/15 14:16	1
Acrolein	ND		20	10	ug/L			10/14/15 14:16	1
Acrylonitrile	ND		10	2.8	ug/L			10/14/15 14:16	1
Benzene	ND		1.0	0.38	ug/L			10/14/15 14:16	1
Bromobenzene	ND		1.0	0.54	ug/L			10/14/15 14:16	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/14/15 14:16	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/14/15 14:16	1
Bromoform	ND		5.0	0.71	ug/L			10/14/15 14:16	1
Bromomethane	ND		1.0	0.98	ug/L			10/14/15 14:16	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/14/15 14:16	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/14/15 14:16	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/14/15 14:16	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/14/15 14:16	1
Chloroethane	ND		1.0	0.76	ug/L			10/14/15 14:16	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/14/15 14:16	1
Chloroform	ND		1.0	0.60	ug/L			10/14/15 14:16	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/14/15 14:16	1
Chloromethane	ND		1.0	0.83	ug/L			10/14/15 14:16	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/14/15 14:16	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/14/15 14:16	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/14/15 14:16	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/14/15 14:16	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/14/15 14:16	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/14/15 14:16	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/14/15 14:16	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/14/15 14:16	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/14/15 14:16	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/14/15 14:16	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/14/15 14:16	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/14/15 14:16	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/14/15 14:16	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/14/15 14:16	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/14/15 14:16	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/14/15 14:16	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/14/15 14:16	1
2-Hexanone	ND		25	3.1	ug/L			10/14/15 14:16	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/14/15 14:16	1
Methylene bromide	ND		5.0	0.59	ug/L			10/14/15 14:16	1
Methylene chloride	ND		5.0	3.0	ug/L			10/14/15 14:16	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/14/15 14:16	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/14/15 14:16	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/14/15 14:16	1
Naphthalene	ND		1.0	1.0	ug/L			10/14/15 14:16	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/14/15 14:16	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/14/15 14:16	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/14/15 14:16	1
o-Xylene	ND		5.0	0.60	ug/L			10/14/15 14:16	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/14/15 14:16	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/14/15 14:16	1

Client Sample ID: TB-ROX-100515-8260

Date Collected: 10/05/15 00:00
Date Received: 10/06/15 10:00

Lab Sample ID: 400-112003-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/14/15 14:16	1
Styrene	ND		1.0	1.0	ug/L			10/14/15 14:16	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/14/15 14:16	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/14/15 14:16	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/14/15 14:16	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/14/15 14:16	1
Toluene	ND		1.0	0.70	ug/L			10/14/15 14:16	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/14/15 14:16	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/14/15 14:16	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/14/15 14:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/14/15 14:16	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/14/15 14:16	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/14/15 14:16	1
Trichloroethene	ND		1.0	0.50	ug/L			10/14/15 14:16	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/14/15 14:16	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/14/15 14:16	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/14/15 14:16	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/14/15 14:16	1
Vinyl acetate	ND		25	2.0	ug/L			10/14/15 14:16	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/14/15 14:16	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/14/15 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*78 - 118*		*10/14/15 14:16*	*1*
Dibromofluoromethane	*93*		*81 - 121*		*10/14/15 14:16*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*10/14/15 14:16*	*1*

Client Sample ID: TB-ROX-100515-8011

Date Collected: 10/05/15 00:00
Date Received: 10/06/15 10:00

Lab Sample ID: 400-112003-3

Matrix: Water

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/12/15 14:43	10/13/15 05:45	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/12/15 14:43	10/13/15 05:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*51 - 149*	*10/12/15 14:43*	*10/13/15 05:45*	*1*

Qualifiers

GC/MS Semi VOA

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

Glossary

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

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-112003-1
SDG: Proj. 60400249-21563720.03004

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	**Client Sample ID**	**(78-118)**	**(81-121)**	**(80-120)**
400-111995-A-5 MS	Matrix Spike	100	98	101
400-111995-A-5 MSD	Matrix Spike Duplicate	98	101	101
400-112003-1	MW23-ROX-100515	102	97	100
400-112003-2	TB-ROX-100515-8260	102	93	103
400-112135-A-1 MS	Matrix Spike	100	99	101
400-112135-A-1 MSD	Matrix Spike Duplicate	99	102	100
LCS 400-278384/1002	Lab Control Sample	100	104	102
LCS 400-278712/1002	Lab Control Sample	98	101	102
MB 400-278384/28	Method Blank	101	97	104
MB 400-278712/4	Method Blank	98	94	103

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	**Client Sample ID**	**(34-120)**	**(10-120)**	**(27-120)**	**(10-120)**	**(53-125)**	**(15-135)**
400-112002-E-4-B MS	Matrix Spike	95	61	77	65	53	96
400-112002-E-4-C MSD	Matrix Spike Duplicate	104	71	99	89	77	128
400-112003-1	MW23-ROX-100515	95	72	104	89	91	135
LCS 400-278092/2-A	Lab Control Sample	111	92	110	105	112	132
MB 400-278092/1-A	Method Blank	108	89	112	104	116	115

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPH
Lab Sample ID	**Client Sample ID**	**(15-122)**	**(19-130)**	**(33-138)**
400-112002-E-4-B MS	Matrix Spike	96	79	52
400-112002-E-4-C MSD	Matrix Spike Duplicate	99	96	70
400-112003-1	MW23-ROX-100515	93	102	97
LCS 400-278092/2-A	Lab Control Sample	96	99	99
MB 400-278092/1-A	Method Blank	79	89	112

Surrogate Legend

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5
TPH = Terphenyl-d14

Method: 8011 - EDB and DBCP in Water by Microextraction

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	**Client Sample ID**	**BFB1 (51-149)**
400-111868-E-10-A MS	Matrix Spike	101
400-111868-E-10-B MSD	Matrix Spike Duplicate	89
400-112002-A-4-A MS	Matrix Spike	84
400-112002-A-4-B MSD	Matrix Spike Duplicate	85
400-112003-1	MW23-ROX-100515	74
LCS 400-278346/2-A	Lab Control Sample	104
LCS 400-278459/2-A	Lab Control Sample	106
MB 400-278346/1-A	Method Blank	92
MB 400-278459/1-A	Method Blank	113

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method: 8011 - EDB and DBCP in Water by Microextraction

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	**Client Sample ID**	**BFB2 (51-149)**
400-112003-3	TB-ROX-100515-8011	105

Surrogate Legend

BFB = 4-Bromofluorobenzene

GC/MS VOA

Analysis Batch: 278384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112003-1	MW23-ROX-100515	Total/NA	Water	8260B	
LCS 400-278384/1002	Lab Control Sample	Total/NA	Water	8260B	
MB 400-278384/28	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 278712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112003-2	TB-ROX-100515-8260	Total/NA	Water	8260B	
LCS 400-278712/1002	Lab Control Sample	Total/NA	Water	8260B	
MB 400-278712/4	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 278092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112003-1	MW23-ROX-100515	Total/NA	Water	3520C	
LCS 400-278092/2-A	Lab Control Sample	Total/NA	Water	3520C	
MB 400-278092/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 278326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-278092/2-A	Lab Control Sample	Total/NA	Water	8270C LL	278092
MB 400-278092/1-A	Method Blank	Total/NA	Water	8270C LL	278092

Analysis Batch: 278447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112003-1	MW23-ROX-100515	Total/NA	Water	8270C	278092
LCS 400-278092/2-A	Lab Control Sample	Total/NA	Water	8270C	278092
MB 400-278092/1-A	Method Blank	Total/NA	Water	8270C	278092

Analysis Batch: 278503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112003-1	MW23-ROX-100515	Total/NA	Water	8270C LL	278092

GC Semi VOA

Prep Batch: 278346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112003-1	MW23-ROX-100515	Total/NA	Water	8011	
LCS 400-278346/2-A	Lab Control Sample	Total/NA	Water	8011	
MB 400-278346/1-A	Method Blank	Total/NA	Water	8011	

Prep Batch: 278459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112003-3	TB-ROX-100515-8011	Total/NA	Water	8011	
LCS 400-278459/2-A	Lab Control Sample	Total/NA	Water	8011	
MB 400-278459/1-A	Method Blank	Total/NA	Water	8011	

Analysis Batch: 278462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112003-1	MW23-ROX-100515	Total/NA	Water	8011	278346

GC Semi VOA (Continued)

Analysis Batch: 278462 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112003-3	TB-ROX-100515-8011	Total/NA	Water	8011	278459
LCS 400-278346/2-A	Lab Control Sample	Total/NA	Water	8011	278346
LCS 400-278459/2-A	Lab Control Sample	Total/NA	Water	8011	278459
MB 400-278346/1-A	Method Blank	Total/NA	Water	8011	278346
MB 400-278459/1-A	Method Blank	Total/NA	Water	8011	278459

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

Lab Sample ID: MB 400-278384/28
Matrix: Water
Analysis Batch: 278384

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/12/15 13:57	1
Acrolein	ND		20	10	ug/L			10/12/15 13:57	1
Acrylonitrile	ND		10	2.8	ug/L			10/12/15 13:57	1
Benzene	ND		1.0	0.38	ug/L			10/12/15 13:57	1
Bromobenzene	ND		1.0	0.54	ug/L			10/12/15 13:57	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/12/15 13:57	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/12/15 13:57	1
Bromoform	ND		5.0	0.71	ug/L			10/12/15 13:57	1
Bromomethane	ND		1.0	0.98	ug/L			10/12/15 13:57	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/12/15 13:57	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/12/15 13:57	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/12/15 13:57	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/12/15 13:57	1
Chloroethane	ND		1.0	0.76	ug/L			10/12/15 13:57	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/12/15 13:57	1
Chloroform	ND		1.0	0.60	ug/L			10/12/15 13:57	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/12/15 13:57	1
Chloromethane	ND		1.0	0.83	ug/L			10/12/15 13:57	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/12/15 13:57	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/12/15 13:57	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/12/15 13:57	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/12/15 13:57	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/12/15 13:57	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/12/15 13:57	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/12/15 13:57	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/12/15 13:57	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/12/15 13:57	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/12/15 13:57	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/12/15 13:57	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/12/15 13:57	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/12/15 13:57	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/12/15 13:57	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/12/15 13:57	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/12/15 13:57	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/12/15 13:57	1
2-Hexanone	ND		25	3.1	ug/L			10/12/15 13:57	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/12/15 13:57	1
Methylene bromide	ND		5.0	0.59	ug/L			10/12/15 13:57	1
Methylene chloride	ND		5.0	3.0	ug/L			10/12/15 13:57	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/12/15 13:57	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/12/15 13:57	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/12/15 13:57	1
Naphthalene	ND		1.0	1.0	ug/L			10/12/15 13:57	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/12/15 13:57	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/12/15 13:57	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/12/15 13:57	1
o-Xylene	ND		5.0	0.60	ug/L			10/12/15 13:57	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/12/15 13:57	1

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

Lab Sample ID: MB 400-278384/28
Matrix: Water
Analysis Batch: 278384

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/12/15 13:57	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/12/15 13:57	1
Styrene	ND		1.0	1.0	ug/L			10/12/15 13:57	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/12/15 13:57	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/12/15 13:57	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/12/15 13:57	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/12/15 13:57	1
Toluene	ND		1.0	0.70	ug/L			10/12/15 13:57	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/12/15 13:57	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/12/15 13:57	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/12/15 13:57	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/12/15 13:57	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/12/15 13:57	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/12/15 13:57	1
Trichloroethene	ND		1.0	0.50	ug/L			10/12/15 13:57	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/12/15 13:57	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/12/15 13:57	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/12/15 13:57	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/12/15 13:57	1
Vinyl acetate	ND		25	2.0	ug/L			10/12/15 13:57	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/12/15 13:57	1
Xylenes, Total	ND		10	1.6	ug/L			10/12/15 13:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*78 - 118*		*10/12/15 13:57*	*1*
Dibromofluoromethane	*97*		*81 - 121*		*10/12/15 13:57*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*10/12/15 13:57*	*1*

Lab Sample ID: LCS 400-278384/1002
Matrix: Water
Analysis Batch: 278384

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	265		ug/L		133	43 - 160
Acrolein	500	459		ug/L		92	38 - 160
Acrylonitrile	500	494		ug/L		99	64 - 142
Benzene	50.0	49.7		ug/L		99	70 - 130
Bromobenzene	50.0	47.6		ug/L		95	70 - 132
Bromochloromethane	50.0	45.8		ug/L		92	70 - 130
Bromodichloromethane	50.0	45.6		ug/L		91	67 - 133
Bromoform	50.0	35.1		ug/L		70	57 - 140
Bromomethane	50.0	58.3		ug/L		117	10 - 160
2-Butanone (MEK)	200	218		ug/L		109	61 - 145
Carbon disulfide	50.0	40.5		ug/L		81	61 - 137
Carbon tetrachloride	50.0	46.1		ug/L		92	61 - 137
Chlorobenzene	50.0	48.9		ug/L		98	70 - 130
Chloroethane	50.0	46.1		ug/L		92	55 - 141
2-Chloroethyl vinyl ether	50.0	48.4		ug/L		97	10 - 160

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

Lab Sample ID: LCS 400-278384/1002
Matrix: Water
Analysis Batch: 278384

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	50.0	48.9		ug/L		98	69 - 130
1-Chlorohexane	50.0	51.9		ug/L		104	69 - 130
Chloromethane	50.0	43.8		ug/L		88	58 - 137
cis-1,2-Dichloroethene	50.0	47.1		ug/L		94	68 - 130
cis-1,3-Dichloropropene	50.0	47.1		ug/L		94	69 - 132
Dibromochloromethane	50.0	43.6		ug/L		87	67 - 135
1,2-Dichlorobenzene	50.0	47.2		ug/L		94	67 - 130
1,3-Dichlorobenzene	50.0	48.5		ug/L		97	70 - 130
1,4-Dichlorobenzene	50.0	48.8		ug/L		98	70 - 130
Dichlorodifluoromethane	50.0	41.6		ug/L		83	41 - 146
1,1-Dichloroethane	50.0	50.0		ug/L		100	70 - 130
1,2-Dichloroethane	50.0	51.1		ug/L		102	69 - 130
1,1-Dichloroethene	50.0	47.4		ug/L		95	63 - 134
1,2-Dichloropropane	50.0	50.4		ug/L		101	70 - 130
1,3-Dichloropropane	50.0	50.2		ug/L		100	70 - 130
2,2-Dichloropropane	50.0	46.4		ug/L		93	52 - 135
1,1-Dichloropropene	50.0	50.0		ug/L		100	70 - 130
Ethylbenzene	50.0	49.8		ug/L		100	70 - 130
Ethyl methacrylate	50.0	48.6		ug/L		97	68 - 130
Hexachlorobutadiene	50.0	47.6		ug/L		95	53 - 140
2-Hexanone	200	225		ug/L		112	65 - 137
Isopropylbenzene	50.0	49.4		ug/L		99	70 - 130
Methylene bromide	50.0	48.3		ug/L		97	70 - 130
Methylene chloride	50.0	49.1		ug/L		98	66 - 135
4-Methyl-2-pentanone (MIBK)	200	200		ug/L		100	69 - 138
Methyl tert-butyl ether	50.0	50.2		ug/L		100	66 - 130
m-Xylene & p-Xylene	50.0	48.7		ug/L		97	70 - 130
Naphthalene	50.0	45.8		ug/L		92	47 - 149
n-Butylbenzene	50.0	52.3		ug/L		105	67 - 130
N-Propylbenzene	50.0	51.4		ug/L		103	70 - 130
o-Chlorotoluene	50.0	49.7		ug/L		99	70 - 130
o-Xylene	50.0	49.1		ug/L		98	70 - 130
p-Chlorotoluene	50.0	49.4		ug/L		99	70 - 130
p-Isopropyltoluene	50.0	50.1		ug/L		100	65 - 130
sec-Butylbenzene	50.0	50.1		ug/L		100	66 - 130
Styrene	50.0	48.2		ug/L		96	70 - 130
tert-Butylbenzene	50.0	49.1		ug/L		98	64 - 139
1,1,1,2-Tetrachloroethane	50.0	45.4		ug/L		91	67 - 131
1,1,2,2-Tetrachloroethane	50.0	51.2		ug/L		102	70 - 131
Tetrachloroethene	50.0	43.8		ug/L		88	65 - 130
Toluene	50.0	48.6		ug/L		97	70 - 130
trans-1,2-Dichloroethene	50.0	47.6		ug/L		95	70 - 130
trans-1,3-Dichloropropene	50.0	47.8		ug/L		96	63 - 130
1,2,3-Trichlorobenzene	50.0	45.5		ug/L		91	60 - 138
1,2,4-Trichlorobenzene	50.0	47.7		ug/L		95	60 - 140
1,1,1-Trichloroethane	50.0	46.5		ug/L		93	68 - 130
1,1,2-Trichloroethane	50.0	50.0		ug/L		100	70 - 130
Trichloroethene	50.0	45.8		ug/L		92	70 - 130

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

Lab Sample ID: LCS 400-278384/1002
Matrix: Water
Analysis Batch: 278384

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	46.4		ug/L		93	65 - 138
1,2,3-Trichloropropane	50.0	50.0		ug/L		100	70 - 130
1,2,4-Trimethylbenzene	50.0	48.9		ug/L		98	70 - 130
1,3,5-Trimethylbenzene	50.0	49.4		ug/L		99	69 - 130
Vinyl acetate	100	84.9		ug/L		85	26 - 160
Vinyl chloride	50.0	45.0		ug/L		90	59 - 136
Xylenes, Total	100	97.8		ug/L		98	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*78 - 118*
Dibromofluoromethane	*104*		*81 - 121*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: MB 400-278712/4
Matrix: Water
Analysis Batch: 278712

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/14/15 10:16	1
Acrolein	ND		20	10	ug/L			10/14/15 10:16	1
Acrylonitrile	ND		10	2.8	ug/L			10/14/15 10:16	1
Benzene	ND		1.0	0.38	ug/L			10/14/15 10:16	1
Bromobenzene	ND		1.0	0.54	ug/L			10/14/15 10:16	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/14/15 10:16	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/14/15 10:16	1
Bromoform	ND		5.0	0.71	ug/L			10/14/15 10:16	1
Bromomethane	ND		1.0	0.98	ug/L			10/14/15 10:16	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/14/15 10:16	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/14/15 10:16	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/14/15 10:16	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/14/15 10:16	1
Chloroethane	ND		1.0	0.76	ug/L			10/14/15 10:16	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/14/15 10:16	1
Chloroform	ND		1.0	0.60	ug/L			10/14/15 10:16	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/14/15 10:16	1
Chloromethane	ND		1.0	0.83	ug/L			10/14/15 10:16	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/14/15 10:16	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/14/15 10:16	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/14/15 10:16	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/14/15 10:16	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/14/15 10:16	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/14/15 10:16	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/14/15 10:16	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/14/15 10:16	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/14/15 10:16	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/14/15 10:16	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/14/15 10:16	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/14/15 10:16	1

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

Lab Sample ID: MB 400-278712/4
Matrix: Water
Analysis Batch: 278712

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/14/15 10:16	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/14/15 10:16	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/14/15 10:16	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/14/15 10:16	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/14/15 10:16	1
2-Hexanone	ND		25	3.1	ug/L			10/14/15 10:16	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/14/15 10:16	1
Methylene bromide	ND		5.0	0.59	ug/L			10/14/15 10:16	1
Methylene chloride	ND		5.0	3.0	ug/L			10/14/15 10:16	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/14/15 10:16	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/14/15 10:16	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/14/15 10:16	1
Naphthalene	ND		1.0	1.0	ug/L			10/14/15 10:16	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/14/15 10:16	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/14/15 10:16	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/14/15 10:16	1
o-Xylene	ND		5.0	0.60	ug/L			10/14/15 10:16	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/14/15 10:16	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/14/15 10:16	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/14/15 10:16	1
Styrene	ND		1.0	1.0	ug/L			10/14/15 10:16	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/14/15 10:16	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/14/15 10:16	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/14/15 10:16	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/14/15 10:16	1
Toluene	ND		1.0	0.70	ug/L			10/14/15 10:16	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/14/15 10:16	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/14/15 10:16	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/14/15 10:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/14/15 10:16	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/14/15 10:16	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/14/15 10:16	1
Trichloroethene	ND		1.0	0.50	ug/L			10/14/15 10:16	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/14/15 10:16	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/14/15 10:16	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/14/15 10:16	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/14/15 10:16	1
Vinyl acetate	ND		25	2.0	ug/L			10/14/15 10:16	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/14/15 10:16	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/14/15 10:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*78 - 118*		*10/14/15 10:16*	*1*
Dibromofluoromethane	*94*		*81 - 121*		*10/14/15 10:16*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*10/14/15 10:16*	*1*

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

Lab Sample ID: LCS 400-278712/1002
Matrix: Water
Analysis Batch: 278712

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	253		ug/L		127	43 - 160
Acrolein	500	444		ug/L		89	38 - 160
Acrylonitrile	500	482		ug/L		96	64 - 142
Benzene	50.0	49.5		ug/L		99	70 - 130
Bromobenzene	50.0	45.5		ug/L		91	70 - 132
Bromochloromethane	50.0	46.1		ug/L		92	70 - 130
Bromodichloromethane	50.0	45.5		ug/L		91	67 - 133
Bromoform	50.0	34.9		ug/L		70	57 - 140
Bromomethane	50.0	52.4		ug/L		105	10 - 160
2-Butanone (MEK)	200	203		ug/L		101	61 - 145
Carbon disulfide	50.0	40.7		ug/L		81	61 - 137
Carbon tetrachloride	50.0	46.2		ug/L		92	61 - 137
Chlorobenzene	50.0	48.2		ug/L		96	70 - 130
Chloroethane	50.0	45.5		ug/L		91	55 - 141
2-Chloroethyl vinyl ether	50.0	47.7		ug/L		95	10 - 160
Chloroform	50.0	49.8		ug/L		100	69 - 130
1-Chlorohexane	50.0	52.2		ug/L		104	69 - 130
Chloromethane	50.0	38.5		ug/L		77	58 - 137
cis-1,2-Dichloroethene	50.0	47.4		ug/L		95	68 - 130
cis-1,3-Dichloropropene	50.0	46.6		ug/L		93	69 - 132
Dibromochloromethane	50.0	42.7		ug/L		85	67 - 135
1,2-Dichlorobenzene	50.0	46.6		ug/L		93	67 - 130
1,3-Dichlorobenzene	50.0	47.1		ug/L		94	70 - 130
1,4-Dichlorobenzene	50.0	46.9		ug/L		94	70 - 130
Dichlorodifluoromethane	50.0	35.0		ug/L		70	41 - 146
1,1-Dichloroethane	50.0	49.8		ug/L		100	70 - 130
1,2-Dichloroethane	50.0	52.0		ug/L		104	69 - 130
1,1-Dichloroethene	50.0	47.6		ug/L		95	63 - 134
1,2-Dichloropropane	50.0	50.9		ug/L		102	70 - 130
1,3-Dichloropropane	50.0	49.1		ug/L		98	70 - 130
2,2-Dichloropropane	50.0	46.1		ug/L		92	52 - 135
1,1-Dichloropropene	50.0	51.1		ug/L		102	70 - 130
Ethylbenzene	50.0	49.6		ug/L		99	70 - 130
Ethyl methacrylate	50.0	47.7		ug/L		95	68 - 130
Hexachlorobutadiene	50.0	45.5		ug/L		91	53 - 140
2-Hexanone	200	214		ug/L		107	65 - 137
Isopropylbenzene	50.0	48.8		ug/L		98	70 - 130
Methylene bromide	50.0	48.5		ug/L		97	70 - 130
Methylene chloride	50.0	48.6		ug/L		97	66 - 135
4-Methyl-2-pentanone (MIBK)	200	195		ug/L		98	69 - 138
Methyl tert-butyl ether	50.0	48.9		ug/L		98	66 - 130
m-Xylene & p-Xylene	50.0	48.0		ug/L		96	70 - 130
Naphthalene	50.0	43.4		ug/L		87	47 - 149
n-Butylbenzene	50.0	50.6		ug/L		101	67 - 130
N-Propylbenzene	50.0	51.1		ug/L		102	70 - 130
o-Chlorotoluene	50.0	48.6		ug/L		97	70 - 130
o-Xylene	50.0	49.0		ug/L		98	70 - 130
p-Chlorotoluene	50.0	48.4		ug/L		97	70 - 130

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

Lab Sample ID: LCS 400-278712/1002
Matrix: Water
Analysis Batch: 278712

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
p-Isopropyltoluene	50.0	49.2		ug/L		98	65 - 130
sec-Butylbenzene	50.0	49.5		ug/L		99	66 - 130
Styrene	50.0	47.7		ug/L		95	70 - 130
tert-Butylbenzene	50.0	48.6		ug/L		97	64 - 139
1,1,1,2-Tetrachloroethane	50.0	44.2		ug/L		88	67 - 131
1,1,2,2-Tetrachloroethane	50.0	48.5		ug/L		97	70 - 131
Tetrachloroethene	50.0	43.1		ug/L		86	65 - 130
Toluene	50.0	48.7		ug/L		97	70 - 130
trans-1,2-Dichloroethene	50.0	48.5		ug/L		97	70 - 130
trans-1,3-Dichloropropene	50.0	47.4		ug/L		95	63 - 130
1,2,3-Trichlorobenzene	50.0	43.7		ug/L		87	60 - 138
1,2,4-Trichlorobenzene	50.0	45.4		ug/L		91	60 - 140
1,1,1-Trichloroethane	50.0	47.5		ug/L		95	68 - 130
1,1,2-Trichloroethane	50.0	49.3		ug/L		99	70 - 130
Trichloroethene	50.0	46.3		ug/L		93	70 - 130
Trichlorofluoromethane	50.0	45.3		ug/L		91	65 - 138
1,2,3-Trichloropropane	50.0	48.7		ug/L		97	70 - 130
1,2,4-Trimethylbenzene	50.0	48.0		ug/L		96	70 - 130
1,3,5-Trimethylbenzene	50.0	48.6		ug/L		97	69 - 130
Vinyl acetate	100	83.6		ug/L		84	26 - 160
Vinyl chloride	50.0	43.2		ug/L		86	59 - 136
Xylenes, Total	100	96.9		ug/L		97	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*78 - 118*
Dibromofluoromethane	*101*		*81 - 121*
Toluene-d8 (Surr)	*102*		*80 - 120*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-278092/1-A
Matrix: Water
Analysis Batch: 278447

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278092

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/09/15 11:17	10/13/15 14:56	1
Benzenethiol	ND		10	1.7	ug/L		10/09/15 11:17	10/13/15 14:56	1
Benzoic acid	ND		30	7.3	ug/L		10/09/15 11:17	10/13/15 14:56	1
Benzyl alcohol	ND		10	2.0	ug/L		10/09/15 11:17	10/13/15 14:56	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/09/15 11:17	10/13/15 14:56	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/09/15 11:17	10/13/15 14:56	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/09/15 11:17	10/13/15 14:56	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/09/15 11:17	10/13/15 14:56	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/09/15 11:17	10/13/15 14:56	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/09/15 11:17	10/13/15 14:56	1
4-Chloroaniline	ND		10	3.4	ug/L		10/09/15 11:17	10/13/15 14:56	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/09/15 11:17	10/13/15 14:56	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/09/15 11:17	10/13/15 14:56	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-278092/1-A
Matrix: Water
Analysis Batch: 278447

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278092

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		10	2.2	ug/L		10/09/15 11:17	10/13/15 14:56	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/09/15 11:17	10/13/15 14:56	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/09/15 11:17	10/13/15 14:56	1
Dibenzofuran	ND		10	0.52	ug/L		10/09/15 11:17	10/13/15 14:56	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/09/15 11:17	10/13/15 14:56	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/09/15 11:17	10/13/15 14:56	1
Diethyl phthalate	ND		10	0.70	ug/L		10/09/15 11:17	10/13/15 14:56	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/09/15 11:17	10/13/15 14:56	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/09/15 11:17	10/13/15 14:56	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/09/15 11:17	10/13/15 14:56	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/09/15 11:17	10/13/15 14:56	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/09/15 11:17	10/13/15 14:56	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/09/15 11:17	10/13/15 14:56	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/09/15 11:17	10/13/15 14:56	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/09/15 11:17	10/13/15 14:56	1
1,4-Dioxane	ND		10	1.0	ug/L		10/09/15 11:17	10/13/15 14:56	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/09/15 11:17	10/13/15 14:56	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/09/15 11:17	10/13/15 14:56	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/09/15 11:17	10/13/15 14:56	1
Hexachloroethane	ND		10	4.2	ug/L		10/09/15 11:17	10/13/15 14:56	1
Indene	ND		10	1.0	ug/L		10/09/15 11:17	10/13/15 14:56	1
Isophorone	ND		10	0.57	ug/L		10/09/15 11:17	10/13/15 14:56	1
2-Methylphenol	ND		10	1.8	ug/L		10/09/15 11:17	10/13/15 14:56	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/09/15 11:17	10/13/15 14:56	1
2-Nitroaniline	ND		10	2.2	ug/L		10/09/15 11:17	10/13/15 14:56	1
3-Nitroaniline	ND		10	1.8	ug/L		10/09/15 11:17	10/13/15 14:56	1
4-Nitroaniline	ND		10	2.5	ug/L		10/09/15 11:17	10/13/15 14:56	1
Nitrobenzene	ND		10	0.55	ug/L		10/09/15 11:17	10/13/15 14:56	1
2-Nitrophenol	ND		10	0.65	ug/L		10/09/15 11:17	10/13/15 14:56	1
4-Nitrophenol	ND		10	2.1	ug/L		10/09/15 11:17	10/13/15 14:56	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/09/15 11:17	10/13/15 14:56	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/09/15 11:17	10/13/15 14:56	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/09/15 11:17	10/13/15 14:56	1
Pentachlorophenol	ND		20	1.8	ug/L		10/09/15 11:17	10/13/15 14:56	1
Phenol	ND		10	2.6	ug/L		10/09/15 11:17	10/13/15 14:56	1
Pyridine	ND		10	3.2	ug/L		10/09/15 11:17	10/13/15 14:56	1
Quinoline	ND		10	6.0	ug/L		10/09/15 11:17	10/13/15 14:56	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/09/15 11:17	10/13/15 14:56	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/09/15 11:17	10/13/15 14:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*108*		*34 - 120*	*10/09/15 11:17*	*10/13/15 14:56*	*1*
2-Fluorophenol	*89*		*10 - 120*	*10/09/15 11:17*	*10/13/15 14:56*	*1*
Nitrobenzene-d5	*112*		*27 - 120*	*10/09/15 11:17*	*10/13/15 14:56*	*1*
Phenol-d5	*104*		*10 - 120*	*10/09/15 11:17*	*10/13/15 14:56*	*1*
Terphenyl-d14	*116*		*53 - 125*	*10/09/15 11:17*	*10/13/15 14:56*	*1*
2,4,6-Tribromophenol	*115*		*15 - 135*	*10/09/15 11:17*	*10/13/15 14:56*	*1*

Lab Sample ID: LCS 400-278092/2-A
Matrix: Water
Analysis Batch: 278447

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278092

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	30.0	25.9		ug/L		86	10 - 145
Benzoic acid	110	132		ug/L		120	10 - 120
Benzyl alcohol	30.0	29.2		ug/L		97	51 - 121
Bis(2-chloroethoxy)methane	30.0	28.0		ug/L		93	54 - 123
Bis(2-chloroethyl)ether	30.0	26.7		ug/L		89	47 - 120
bis (2-chloroisopropyl) ether	30.0	24.0		ug/L		80	20 - 142
Bis(2-ethylhexyl) phthalate	30.0	32.2		ug/L		107	62 - 140
4-Bromophenyl phenyl ether	30.0	29.3		ug/L		98	62 - 132
Butyl benzyl phthalate	30.0	30.9		ug/L		103	51 - 150
4-Chloroaniline	30.0	23.8		ug/L		79	32 - 128
4-Chloro-3-methylphenol	30.0	32.0		ug/L		107	47 - 135
2-Chloronaphthalene	30.0	28.6		ug/L		95	24 - 150
2-Chlorophenol	30.0	27.7		ug/L		92	45 - 120
4-Chlorophenyl phenyl ether	30.0	28.7		ug/L		96	61 - 133
Dibenzofuran	30.0	28.7		ug/L		96	62 - 124
3,3'-Dichlorobenzidine	30.0	33.8		ug/L		113	16 - 167
2,4-Dichlorophenol	30.0	31.5		ug/L		105	52 - 125
Diethyl phthalate	30.0	31.7		ug/L		106	55 - 140
2,4-Dimethylphenol	30.0	29.1		ug/L		97	52 - 121
Dimethyl phthalate	30.0	30.3		ug/L		101	50 - 133
Di-n-butyl phthalate	30.0	31.1		ug/L		104	59 - 144
4,6-Dinitro-o-cresol	60.0	67.2		ug/L		112	46 - 136
2,4-Dinitrophenol	86.0	101		ug/L		118	22 - 146
2,4-Dinitrotoluene	30.0	31.8		ug/L		106	54 - 141
2,6-Dinitrotoluene	30.0	32.0		ug/L		107	61 - 130
Di-n-octyl phthalate	30.0	31.0		ug/L		103	55 - 140
1,4-Dioxane	30.0	21.5		ug/L		72	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	30.0	26.2		ug/L		87	55 - 139
Hexachlorobenzene	30.0	29.8		ug/L		99	60 - 138
Hexachlorocyclopentadiene	30.0	17.1	J	ug/L		57	1 - 139
Hexachloroethane	30.0	25.6		ug/L		85	46 - 121
Indene	30.0	29.4		ug/L		98	17 - 141
Isophorone	30.0	29.0		ug/L		97	57 - 122
2-Methylphenol	30.0	28.2		ug/L		94	38 - 121
3 & 4 Methylphenol	30.0	28.8		ug/L		96	43 - 126
2-Nitroaniline	30.0	29.3		ug/L		98	52 - 135
3-Nitroaniline	30.0	26.4		ug/L		88	51 - 128
4-Nitroaniline	30.0	30.6		ug/L		102	38 - 141
Nitrobenzene	30.0	28.2		ug/L		94	52 - 128
2-Nitrophenol	30.0	31.7		ug/L		106	47 - 129
4-Nitrophenol	60.0	61.4		ug/L		102	34 - 137
N-Nitrosodimethylamine	30.0	24.9		ug/L		83	21 - 134
N-Nitrosodi-n-propylamine	30.0	26.6		ug/L		89	41 - 143
N-Nitrosodiphenylamine	60.0	57.6		ug/L		96	10 - 185
Pentachlorophenol	60.0	64.5		ug/L		108	38 - 138
Phenol	30.0	26.8		ug/L		89	37 - 120
Pyridine	30.0	22.7		ug/L		76	10 - 127
2,4,5-Trichlorophenol	30.0	33.7		ug/L		112	53 - 130
2,4,6-Trichlorophenol	30.0	33.1		ug/L		110	52 - 131

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-278092/2-A
Matrix: Water
Analysis Batch: 278447

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278092

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*111*		*34 - 120*
2-Fluorophenol	*92*		*10 - 120*
Nitrobenzene-d5	*110*		*27 - 120*
Phenol-d5	*105*		*10 - 120*
Terphenyl-d14	*112*		*53 - 125*
2,4,6-Tribromophenol	*132*		*15 - 135*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 400-278092/1-A
Matrix: Water
Analysis Batch: 278326

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278092

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/12/15 17:56	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/12/15 17:56	1
Anthracene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/12/15 17:56	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/12/15 17:56	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/12/15 17:56	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/12/15 17:56	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/12/15 17:56	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/12/15 17:56	1
Chrysene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/12/15 17:56	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/12/15 17:56	1
Fluoranthene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/12/15 17:56	1
Fluorene	ND		0.20	0.021	ug/L		10/09/15 11:17	10/12/15 17:56	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/12/15 17:56	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/12/15 17:56	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/12/15 17:56	1
Phenanthrene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/12/15 17:56	1
Pyrene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/12/15 17:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*15 - 122*	*10/09/15 11:17*	*10/12/15 17:56*	*1*
Nitrobenzene-d5	*89*		*19 - 130*	*10/09/15 11:17*	*10/12/15 17:56*	*1*
Terphenyl-d14	*112*		*33 - 138*	*10/09/15 11:17*	*10/12/15 17:56*	*1*

Lab Sample ID: LCS 400-278092/2-A
Matrix: Water
Analysis Batch: 278326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278092

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	30.0	27.1		ug/L		90	41 - 120
Acenaphthylene	30.0	27.7		ug/L		92	44 - 120
Anthracene	30.0	27.1		ug/L		90	49 - 120
Benzo[a]anthracene	30.0	26.6		ug/L		89	61 - 135
Benzo[a]pyrene	30.0	27.5		ug/L		92	52 - 120

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 400-278092/2-A
Matrix: Water
Analysis Batch: 278326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278092

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[b]fluoranthene	30.0	28.4		ug/L		95	53 - 134
Benzo[g,h,i]perylene	30.0	21.8		ug/L		73	47 - 133
Benzo[k]fluoranthene	30.0	27.8		ug/L		93	57 - 134
Chrysene	30.0	29.8		ug/L		99	55 - 122
Dibenz(a,h)anthracene	30.0	22.5		ug/L		75	48 - 146
Fluoranthene	30.0	27.1		ug/L		90	54 - 128
Fluorene	30.0	30.2		ug/L		101	45 - 125
Indeno[1,2,3-cd]pyrene	30.0	23.1		ug/L		77	43 - 142
1-Methylnaphthalene	30.0	26.8		ug/L		89	41 - 120
2-Methylnaphthalene	30.0	26.9		ug/L		90	32 - 124
Phenanthrene	30.0	26.5		ug/L		88	48 - 120
Pyrene	30.0	28.6		ug/L		95	48 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*96*		*15 - 122*
Nitrobenzene-d5	*99*		*19 - 130*
Terphenyl-d14	*99*		*33 - 138*

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-278346/1-A
Matrix: Water
Analysis Batch: 278462

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278346

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/12/15 08:45	10/12/15 10:58	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/12/15 08:45	10/12/15 10:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*51 - 149*	*10/12/15 08:45*	*10/12/15 10:58*	*1*

Lab Sample ID: LCS 400-278346/2-A
Matrix: Water
Analysis Batch: 278462

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278346

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.100	0.0963		ug/L		96	60 - 140
1,2-Dibromoethane	0.100	0.106		ug/L		106	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*51 - 149*

Method: 8011 - EDB and DBCP in Water by Microextraction (Continued)

Lab Sample ID: MB 400-278459/1-A
Matrix: Water
Analysis Batch: 278462

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278459

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/12/15 14:43	10/12/15 21:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*113*		*51 - 149*	*10/12/15 14:43*	*10/12/15 21:22*	*1*

Lab Sample ID: LCS 400-278459/2-A
Matrix: Water
Analysis Batch: 278462

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278459

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane	0.100	0.103		ug/L		103	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*106*		*51 - 149*

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-112003-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: MW23-ROX-100515

Date Collected: 10/05/15 10:45
Date Received: 10/06/15 10:00

Lab Sample ID: 400-112003-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	278384	10/12/15 18:18	CAR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278092	10/09/15 11:17	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278447	10/13/15 19:14	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278092	10/09/15 11:17	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	278503	10/13/15 18:13	CEP	TAL PEN
Total/NA	Prep	8011			33.7 mL	35 mL	278346	10/12/15 08:45	AM	TAL PEN
Total/NA	Analysis	8011		1	33.7 mL	35 mL	278462	10/12/15 20:23	AM	TAL PEN

Client Sample ID: TB-ROX-100515-8260

Date Collected: 10/05/15 00:00
Date Received: 10/06/15 10:00

Lab Sample ID: 400-112003-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	278712	10/14/15 14:16	S1S	TAL PEN

Client Sample ID: TB-ROX-100515-8011

Date Collected: 10/05/15 00:00
Date Received: 10/06/15 10:00

Lab Sample ID: 400-112003-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			34.7 mL	35 mL	278459	10/12/15 14:43	AM	TAL PEN
Total/NA	Analysis	8011		1	34.7 mL	35 mL	278462	10/13/15 05:45	AM	TAL PEN

Client Sample ID: Lab Control Sample

Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-278092/2-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	278092	10/09/15 11:17	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278447	10/13/15 15:33	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278092	10/09/15 11:17	KH1	TAL PEN
Total/NA	Analysis	8270C LL		5	1000 mL	1 mL	278326	10/12/15 18:33	CEP	TAL PEN

Client Sample ID: Lab Control Sample

Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-278346/2-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	278346	10/12/15 08:45	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	278462	10/12/15 11:28	AM	TAL PEN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-112003-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-278384/1002
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	278384	10/12/15 12:55	CAR	TAL PEN

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-278459/2-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	278459	10/12/15 14:43	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	278462	10/12/15 21:52	AM	TAL PEN

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-278712/1002
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	278712	10/14/15 09:18	S1S	TAL PEN

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-278092/1-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	278092	10/09/15 11:17	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278447	10/13/15 14:56	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278092	10/09/15 11:17	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	278326	10/12/15 17:56	CEP	TAL PEN

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-278346/1-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	278346	10/12/15 08:45	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	278462	10/12/15 10:58	AM	TAL PEN

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-278384/28
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	278384	10/12/15 13:57	CAR	TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-278459/1-A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	278459	10/12/15 14:43	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	278462	10/12/15 21:22	AM	TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-278712/4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	278712	10/14/15 10:16	S1S	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-112003-1
SDG: Proj. 60400249-21563720.03004

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL PEN
8011	EDB and DBCP in Water by Microextraction	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-112003-1
SDG: Proj. 60400249-21563720.03004

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	08-31-15 *
Arizona	State Program	9	AZ0710	01-11-16
Arkansas DEQ	State Program	6	88-0689	09-01-16
Florida	NELAP	4	E81010	06-30-16
Georgia	State Program	4	N/A	06-30-16
Iowa	State Program	7	367	07-31-16
Kansas	NELAP	7	E-10253	10-31-15
Kentucky (UST)	State Program	4	53	06-30-16
Kentucky (WW)	State Program	4	98030	12-31-15
Louisiana	NELAP	6	30976	06-30-16
Maryland	State Program	3	233	09-30-16
Massachusetts	State Program	1	M-FL094	06-30-16
Michigan	State Program	5	9912	06-30-16
New Jersey	NELAP	2	FL006	10-30-15
North Carolina (WW/SW)	State Program	4	314	12-31-15
Oklahoma	State Program	6	9810	08-31-16
Pennsylvania	NELAP	3	68-00467	01-31-16
Rhode Island	State Program	1	LAO00307	12-30-15
South Carolina	State Program	4	96026	06-30-15 *
Tennessee	State Program	4	TN02907	06-30-16
Texas	NELAP	6	T104704286-15-9	09-30-16
USDA	Federal		P330-13-00193	07-01-16
Virginia	NELAP	3	460166	06-14-16
West Virginia DEP	State Program	3	136	06-30-16

* Certification renewal pending - certification considered valid.

LAB LOCATION)

Shell Oil Products Chain Of Custody Record 400-112003 COM

Please Check Appropriate Box:

Lab Vendor # Test America

Print Bill To Contact Name: Bob Bilmer

INCIDENT # (ENV SERVICES)

DATE: 5 Oct. 2015

PO #

SAP #

3 4 0 0 5 3 1

PAGE 1 of 1

AECOM

100† HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST LOUIS, MO 63110

Elizabeth Kunkel, Bob Bilmer, Lindsey Rainbow

314-429-0100 314-429-0462

300 South Central Ave, ROXANA

Roxana Quarterly GW / 60400249-215637.20.03004

S. Fisher / D. HAXEL

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS)

☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON SUNDAY/HOLIDAY

REQUESTED ANALYSIS

☐ LA RWQCB REPORT FORMAT ☐ GLOBAL ID

☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD

TEMPERATURE ON RECEIPT C°

SPECIAL INSTRUCTIONS OR NOTES:

- Please include "J" values on Reports
- Please provide sample receipt upon login

☑ USE CONTRACT RATE SHEETS

☐ EDF NOT NEEDED

☑ RECEIPT VERIFICATION REQUESTED

☐ PROVIDE FLEDS DISK

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE	NO OF CONT	VOC 8260	VOC 8011	SVOC 8270	PAH 8270LL	Container PID Readings or Laboratory Notes
	MW23-ROX-100515	10/5/15	0845	Water	4	3	7	X	X	X	0.0
	EDF TB-ROX-100515-8260-10/5/15		0000	WATER	1		1				
	EDF TB-ROX-100515-8011-10/5/15		0000	WATER	1		1				

Container PID Readings or Laboratory Notes

Custody Seals

Relinquished by: Samuel Fisher — FED EX # 8092 2040 9737 9726 — Date: 5 Oct 2015 — Time: 1736

Received by: — Date: 10/6/15 — Time: 1003

Custody Seals 524450 524452 524457

3.0°C 3.3°C 3.8°C IR5

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 400-112003-1
SDG Number: Proj. 60400249-21563720.03004

Login Number: 112003
List Number: 1
Creator: Akers, Stephanie C

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.0°C, 3.3°C, 3.8°C, IR-5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Roxana Groundwater Quarterly – 4th Quarter 2015 Data Review

Laboratory SDG: 400-112079

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 11/19/2015

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2014

Sample Identification	Sample Identification
TB-ROX-100615-8260	TB-ROX-100615-8011
MW26-ROX-100615	MW1-ROX-100615

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated the LCS recovery for acetone was outside evaluation criteria. This issue is addressed further in the appropriate section below.

Additionally, the continuing calibration verification for acetone exceeded evaluation criteria; associated samples were non-detect for acetone, therefore no qualification was required. Three of 69 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds, results may be biased low due to the presence of HCl in the preservative.

The cooler receipt form did not indicate any problems.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS ID	Parameter	Analyte	LCS Percent Recovery	LCS Criteria
LCS 400-278883/1002	VOCs	Acetone	**227**	43-160

Analytical data reported as non-detect and associated with LCS recoveries above

evaluation criteria, indicating a possible high bias, did not require qualification. No qualification of data was required.

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

No

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

Yes

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples analyzed as part of this SDG?

No

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

11.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; samples analyzed did not require dilution.

12.0 Additional Qualifications

Were additional qualifications applied?

No

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-112079-1
TestAmerica SDG: Proj. 60400249-21563720.03004
Client Project/Site: ROXANA QUARTERLY GW

For:
AECOM Technical Services Inc.
1001 Highlands Plaza Dr. West
St. Louis, Missouri 63110

Attn: Mrs. Elizabeth Kunkel

Carolyn R. Hooper

Authorized for release by:
10/29/2015 9:23:04 PM

Carolyn Hooper, Project Manager I
(850)474-1001
carolyn.hooper@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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Reviewed 11/19/15 MH

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-112079-1
SDG: Proj. 60400249-21563720.03004

Job ID: 400-112079-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-112079-1

Receipt
The samples were received on 10/7/2015 10:09 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.5°C.

GC/MS VOA
Method 8260B: The laboratory control sample (LCS) for batch 278883 recovered outside control limits for one analyte. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 278883 recovered above the upper control limit for Acetone. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

The matrix spike / matrix spike duplicate (MS/MSD) precision for batch 278883 was outside control limits for several analytes. Sample matrix interference and/or non-homogeneity are suspected.

The preservative (hydrochloric acid) used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The requested target analyte list includes 2-chloroethyl vinyl ether, acrolein, and acrylonitrile, which are acid-labile compounds that degrade in an acidic medium.

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

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-112079-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: TB-ROX-100615-8260 — Lab Sample ID: 400-112079-1

No Detections.

Client Sample ID: TB-ROX-100615-8011 — Lab Sample ID: 400-112079-2

No Detections.

Client Sample ID: MW26-ROX-100615 — Lab Sample ID: 400-112079-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	0.083	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
2-Methylnaphthalene	0.13	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
Di-n-octyl phthalate	0.55	J	10	0.44	ug/L	1		8270C	Total/NA

Client Sample ID: MW1-ROX-100615 — Lab Sample ID: 400-112079-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	0.057	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
2-Methylnaphthalene	0.096	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
Di-n-octyl phthalate	0.56	J	10	0.44	ug/L	1		8270C	Total/NA

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-112079-1
SDG: Proj. 60400249-21563720.03004

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-112079-1	TB-ROX-100615-8260	Water	10/06/15 00:00	10/07/15 10:09
400-112079-2	TB-ROX-100615-8011	Water	10/06/15 00:00	10/07/15 10:09
400-112079-3	MW26-ROX-100615	Water	10/06/15 13:25	10/07/15 10:09
400-112079-4	MW1-ROX-100615	Water	10/06/15 14:35	10/07/15 10:09

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-112079-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: TB-ROX-100615-8260
Date Collected: 10/06/15 00:00
Date Received: 10/07/15 10:09

Lab Sample ID: 400-112079-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	*	25	10	ug/L			10/15/15 10:08	1
Acrolein	ND		20	10	ug/L			10/15/15 10:08	1
Acrylonitrile	ND		10	2.8	ug/L			10/15/15 10:08	1
Benzene	ND		1.0	0.38	ug/L			10/15/15 10:08	1
Bromobenzene	ND		1.0	0.54	ug/L			10/15/15 10:08	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/15/15 10:08	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/15/15 10:08	1
Bromoform	ND		5.0	0.71	ug/L			10/15/15 10:08	1
Bromomethane	ND		1.0	0.98	ug/L			10/15/15 10:08	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/15/15 10:08	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/15/15 10:08	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/15/15 10:08	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/15/15 10:08	1
Chloroethane	ND		1.0	0.76	ug/L			10/15/15 10:08	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/15/15 10:08	1
Chloroform	ND		1.0	0.60	ug/L			10/15/15 10:08	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/15/15 10:08	1
Chloromethane	ND		1.0	0.83	ug/L			10/15/15 10:08	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/15/15 10:08	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/15/15 10:08	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/15/15 10:08	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/15/15 10:08	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/15/15 10:08	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/15/15 10:08	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/15/15 10:08	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/15/15 10:08	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/15/15 10:08	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/15/15 10:08	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/15/15 10:08	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/15/15 10:08	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/15/15 10:08	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/15/15 10:08	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/15/15 10:08	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/15/15 10:08	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/15/15 10:08	1
2-Hexanone	ND		25	3.1	ug/L			10/15/15 10:08	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/15/15 10:08	1
Methylene bromide	ND		5.0	0.59	ug/L			10/15/15 10:08	1
Methylene chloride	ND		5.0	3.0	ug/L			10/15/15 10:08	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/15/15 10:08	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/15/15 10:08	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/15/15 10:08	1
Naphthalene	ND		1.0	1.0	ug/L			10/15/15 10:08	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/15/15 10:08	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/15/15 10:08	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/15/15 10:08	1
o-Xylene	ND		5.0	0.60	ug/L			10/15/15 10:08	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/15/15 10:08	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/15/15 10:08	1

Client Sample ID: TB-ROX-100615-8260

Date Collected: 10/06/15 00:00
Date Received: 10/07/15 10:09

Lab Sample ID: 400-112079-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/15/15 10:08	1
Styrene	ND		1.0	1.0	ug/L			10/15/15 10:08	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/15/15 10:08	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/15/15 10:08	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/15/15 10:08	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/15/15 10:08	1
Toluene	ND		1.0	0.70	ug/L			10/15/15 10:08	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/15/15 10:08	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/15/15 10:08	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/15/15 10:08	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/15/15 10:08	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/15/15 10:08	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/15/15 10:08	1
Trichloroethene	ND		1.0	0.50	ug/L			10/15/15 10:08	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/15/15 10:08	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/15/15 10:08	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/15/15 10:08	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/15/15 10:08	1
Vinyl acetate	ND		25	2.0	ug/L			10/15/15 10:08	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/15/15 10:08	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/15/15 10:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*78 - 118*		*10/15/15 10:08*	*1*
Dibromofluoromethane	*110*		*81 - 121*		*10/15/15 10:08*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*10/15/15 10:08*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-112079-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: TB-ROX-100615-8011
Date Collected: 10/06/15 00:00
Date Received: 10/07/15 10:09

Lab Sample ID: 400-112079-2
Matrix: Water

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.034	0.0062	ug/L		10/12/15 14:43	10/13/15 04:17	1
1,2-Dibromoethane	ND		0.023	0.0056	ug/L		10/12/15 14:43	10/13/15 04:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*51 - 149*	*10/12/15 14:43*	*10/13/15 04:17*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-112079-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: MW26-ROX-100615
Date Collected: 10/06/15 13:25
Date Received: 10/07/15 10:09

Lab Sample ID: 400-112079-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	*	25	10	ug/L			10/15/15 10:35	1
Acrolein	ND		20	10	ug/L			10/15/15 10:35	1
Acrylonitrile	ND		10	2.8	ug/L			10/15/15 10:35	1
Benzene	ND		1.0	0.38	ug/L			10/15/15 10:35	1
Bromobenzene	ND		1.0	0.54	ug/L			10/15/15 10:35	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/15/15 10:35	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/15/15 10:35	1
Bromoform	ND		5.0	0.71	ug/L			10/15/15 10:35	1
Bromomethane	ND		1.0	0.98	ug/L			10/15/15 10:35	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/15/15 10:35	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/15/15 10:35	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/15/15 10:35	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/15/15 10:35	1
Chloroethane	ND		1.0	0.76	ug/L			10/15/15 10:35	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/15/15 10:35	1
Chloroform	ND		1.0	0.60	ug/L			10/15/15 10:35	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/15/15 10:35	1
Chloromethane	ND		1.0	0.83	ug/L			10/15/15 10:35	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/15/15 10:35	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/15/15 10:35	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/15/15 10:35	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/15/15 10:35	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/15/15 10:35	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/15/15 10:35	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/15/15 10:35	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/15/15 10:35	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/15/15 10:35	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/15/15 10:35	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/15/15 10:35	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/15/15 10:35	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/15/15 10:35	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/15/15 10:35	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/15/15 10:35	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/15/15 10:35	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/15/15 10:35	1
2-Hexanone	ND		25	3.1	ug/L			10/15/15 10:35	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/15/15 10:35	1
Methylene bromide	ND		5.0	0.59	ug/L			10/15/15 10:35	1
Methylene chloride	ND		5.0	3.0	ug/L			10/15/15 10:35	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/15/15 10:35	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/15/15 10:35	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/15/15 10:35	1
Naphthalene	ND		1.0	1.0	ug/L			10/15/15 10:35	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/15/15 10:35	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/15/15 10:35	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/15/15 10:35	1
o-Xylene	ND		5.0	0.60	ug/L			10/15/15 10:35	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/15/15 10:35	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/15/15 10:35	1

Client Sample ID: MW26-ROX-100615
Date Collected: 10/06/15 13:25
Date Received: 10/07/15 10:09

Lab Sample ID: 400-112079-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/15/15 10:35	1
Styrene	ND		1.0	1.0	ug/L			10/15/15 10:35	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/15/15 10:35	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/15/15 10:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/15/15 10:35	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/15/15 10:35	1
Toluene	ND		1.0	0.70	ug/L			10/15/15 10:35	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/15/15 10:35	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/15/15 10:35	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/15/15 10:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/15/15 10:35	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/15/15 10:35	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/15/15 10:35	1
Trichloroethene	ND		1.0	0.50	ug/L			10/15/15 10:35	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/15/15 10:35	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/15/15 10:35	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/15/15 10:35	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/15/15 10:35	1
Vinyl acetate	ND		25	2.0	ug/L			10/15/15 10:35	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/15/15 10:35	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/15/15 10:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*78 - 118*		*10/15/15 10:35*	*1*
Dibromofluoromethane	*111*		*81 - 121*		*10/15/15 10:35*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*10/15/15 10:35*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 13:52	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 13:52	1
Anthracene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 13:52	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 13:52	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 13:52	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 13:52	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 13:52	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 13:52	1
Chrysene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 13:52	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 13:52	1
Fluoranthene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 13:52	1
Fluorene	ND		0.20	0.021	ug/L		10/09/15 11:17	10/13/15 13:52	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 13:52	1
1-Methylnaphthalene	**0.083**	**J**	0.20	0.020	ug/L		10/09/15 11:17	10/13/15 13:52	1
2-Methylnaphthalene	**0.13**	**J**	0.20	0.020	ug/L		10/09/15 11:17	10/13/15 13:52	1
Phenanthrene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 13:52	1
Pyrene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*90*		*15 - 122*	*10/09/15 11:17*	*10/13/15 13:52*	*1*
Nitrobenzene-d5	*104*		*19 - 130*	*10/09/15 11:17*	*10/13/15 13:52*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-112079-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: MW26-ROX-100615
Date Collected: 10/06/15 13:25
Date Received: 10/07/15 10:09

Lab Sample ID: 400-112079-3
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	99		33 - 138	10/09/15 11:17	10/13/15 13:52	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/09/15 11:17	10/13/15 19:46	1
Benzenethiol	ND		10	1.7	ug/L		10/09/15 11:17	10/13/15 19:46	1
Benzoic acid	ND		30	7.3	ug/L		10/09/15 11:17	10/13/15 19:46	1
Benzyl alcohol	ND		10	2.0	ug/L		10/09/15 11:17	10/13/15 19:46	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/09/15 11:17	10/13/15 19:46	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/09/15 11:17	10/13/15 19:46	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/09/15 11:17	10/13/15 19:46	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/09/15 11:17	10/13/15 19:46	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/09/15 11:17	10/13/15 19:46	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/09/15 11:17	10/13/15 19:46	1
4-Chloroaniline	ND		10	3.4	ug/L		10/09/15 11:17	10/13/15 19:46	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/09/15 11:17	10/13/15 19:46	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/09/15 11:17	10/13/15 19:46	1
2-Chlorophenol	ND		10	2.2	ug/L		10/09/15 11:17	10/13/15 19:46	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/09/15 11:17	10/13/15 19:46	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/09/15 11:17	10/13/15 19:46	1
Dibenzofuran	ND		10	0.52	ug/L		10/09/15 11:17	10/13/15 19:46	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/09/15 11:17	10/13/15 19:46	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/09/15 11:17	10/13/15 19:46	1
Diethyl phthalate	ND		10	0.70	ug/L		10/09/15 11:17	10/13/15 19:46	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/09/15 11:17	10/13/15 19:46	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/09/15 11:17	10/13/15 19:46	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/09/15 11:17	10/13/15 19:46	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/09/15 11:17	10/13/15 19:46	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/09/15 11:17	10/13/15 19:46	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/09/15 11:17	10/13/15 19:46	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/09/15 11:17	10/13/15 19:46	1
Di-n-octyl phthalate	**0.55**	**J**	10	0.44	ug/L		10/09/15 11:17	10/13/15 19:46	1
1,4-Dioxane	ND		10	1.0	ug/L		10/09/15 11:17	10/13/15 19:46	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/09/15 11:17	10/13/15 19:46	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/09/15 11:17	10/13/15 19:46	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/09/15 11:17	10/13/15 19:46	1
Hexachloroethane	ND		10	4.2	ug/L		10/09/15 11:17	10/13/15 19:46	1
Indene	ND		10	1.0	ug/L		10/09/15 11:17	10/13/15 19:46	1
Isophorone	ND		10	0.57	ug/L		10/09/15 11:17	10/13/15 19:46	1
2-Methylphenol	ND		10	1.8	ug/L		10/09/15 11:17	10/13/15 19:46	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/09/15 11:17	10/13/15 19:46	1
2-Nitroaniline	ND		10	2.2	ug/L		10/09/15 11:17	10/13/15 19:46	1
3-Nitroaniline	ND		10	1.8	ug/L		10/09/15 11:17	10/13/15 19:46	1
4-Nitroaniline	ND		10	2.5	ug/L		10/09/15 11:17	10/13/15 19:46	1
Nitrobenzene	ND		10	0.55	ug/L		10/09/15 11:17	10/13/15 19:46	1
2-Nitrophenol	ND		10	0.65	ug/L		10/09/15 11:17	10/13/15 19:46	1
4-Nitrophenol	ND		10	2.1	ug/L		10/09/15 11:17	10/13/15 19:46	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/09/15 11:17	10/13/15 19:46	1

Client Sample ID: MW26-ROX-100615

Date Collected: 10/06/15 13:25
Date Received: 10/07/15 10:09

Lab Sample ID: 400-112079-3

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/09/15 11:17	10/13/15 19:46	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/09/15 11:17	10/13/15 19:46	1
Pentachlorophenol	ND		20	1.8	ug/L		10/09/15 11:17	10/13/15 19:46	1
Phenol	ND		10	2.6	ug/L		10/09/15 11:17	10/13/15 19:46	1
Pyridine	ND		10	3.2	ug/L		10/09/15 11:17	10/13/15 19:46	1
Quinoline	ND		10	6.0	ug/L		10/09/15 11:17	10/13/15 19:46	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/09/15 11:17	10/13/15 19:46	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/09/15 11:17	10/13/15 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*34 - 120*	*10/09/15 11:17*	*10/13/15 19:46*	*1*
2-Fluorophenol	*58*		*10 - 120*	*10/09/15 11:17*	*10/13/15 19:46*	*1*
Nitrobenzene-d5	*92*		*27 - 120*	*10/09/15 11:17*	*10/13/15 19:46*	*1*
Phenol-d5	*69*		*10 - 120*	*10/09/15 11:17*	*10/13/15 19:46*	*1*
Terphenyl-d14	*91*		*53 - 125*	*10/09/15 11:17*	*10/13/15 19:46*	*1*
2,4,6-Tribromophenol	*95*		*15 - 135*	*10/09/15 11:17*	*10/13/15 19:46*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.029	0.0053	ug/L		10/12/15 14:43	10/13/15 04:47	1
1,2-Dibromoethane	ND		0.019	0.0048	ug/L		10/12/15 14:43	10/13/15 04:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*51 - 149*	*10/12/15 14:43*	*10/13/15 04:47*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-112079-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: MW1-ROX-100615
Date Collected: 10/06/15 14:35
Date Received: 10/07/15 10:09

Lab Sample ID: 400-112079-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	*	25	10	ug/L			10/15/15 10:59	1
Acrolein	ND		20	10	ug/L			10/15/15 10:59	1
Acrylonitrile	ND		10	2.8	ug/L			10/15/15 10:59	1
Benzene	ND		1.0	0.38	ug/L			10/15/15 10:59	1
Bromobenzene	ND		1.0	0.54	ug/L			10/15/15 10:59	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/15/15 10:59	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/15/15 10:59	1
Bromoform	ND		5.0	0.71	ug/L			10/15/15 10:59	1
Bromomethane	ND		1.0	0.98	ug/L			10/15/15 10:59	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/15/15 10:59	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/15/15 10:59	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/15/15 10:59	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/15/15 10:59	1
Chloroethane	ND		1.0	0.76	ug/L			10/15/15 10:59	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/15/15 10:59	1
Chloroform	ND		1.0	0.60	ug/L			10/15/15 10:59	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/15/15 10:59	1
Chloromethane	ND		1.0	0.83	ug/L			10/15/15 10:59	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/15/15 10:59	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/15/15 10:59	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/15/15 10:59	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/15/15 10:59	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/15/15 10:59	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/15/15 10:59	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/15/15 10:59	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/15/15 10:59	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/15/15 10:59	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/15/15 10:59	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/15/15 10:59	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/15/15 10:59	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/15/15 10:59	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/15/15 10:59	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/15/15 10:59	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/15/15 10:59	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/15/15 10:59	1
2-Hexanone	ND		25	3.1	ug/L			10/15/15 10:59	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/15/15 10:59	1
Methylene bromide	ND		5.0	0.59	ug/L			10/15/15 10:59	1
Methylene chloride	ND		5.0	3.0	ug/L			10/15/15 10:59	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/15/15 10:59	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/15/15 10:59	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/15/15 10:59	1
Naphthalene	ND		1.0	1.0	ug/L			10/15/15 10:59	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/15/15 10:59	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/15/15 10:59	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/15/15 10:59	1
o-Xylene	ND		5.0	0.60	ug/L			10/15/15 10:59	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/15/15 10:59	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/15/15 10:59	1

Client Sample ID: MW1-ROX-100615
Date Collected: 10/06/15 14:35
Date Received: 10/07/15 10:09

Lab Sample ID: 400-112079-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/15/15 10:59	1
Styrene	ND		1.0	1.0	ug/L			10/15/15 10:59	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/15/15 10:59	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/15/15 10:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/15/15 10:59	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/15/15 10:59	1
Toluene	ND		1.0	0.70	ug/L			10/15/15 10:59	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/15/15 10:59	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/15/15 10:59	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/15/15 10:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/15/15 10:59	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/15/15 10:59	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/15/15 10:59	1
Trichloroethene	ND		1.0	0.50	ug/L			10/15/15 10:59	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/15/15 10:59	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/15/15 10:59	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/15/15 10:59	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/15/15 10:59	1
Vinyl acetate	ND		25	2.0	ug/L			10/15/15 10:59	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/15/15 10:59	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/15/15 10:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*78 - 118*		*10/15/15 10:59*	*1*
Dibromofluoromethane	*112*		*81 - 121*		*10/15/15 10:59*	*1*
Toluene-d8 (Surr)	*88*		*80 - 120*		*10/15/15 10:59*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 14:30	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 14:30	1
Anthracene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 14:30	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 14:30	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 14:30	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 14:30	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 14:30	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 14:30	1
Chrysene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 14:30	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 14:30	1
Fluoranthene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 14:30	1
Fluorene	ND		0.20	0.021	ug/L		10/09/15 11:17	10/13/15 14:30	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/13/15 14:30	1
1-Methylnaphthalene	**0.057**	**J**	0.20	0.020	ug/L		10/09/15 11:17	10/13/15 14:30	1
2-Methylnaphthalene	**0.096**	**J**	0.20	0.020	ug/L		10/09/15 11:17	10/13/15 14:30	1
Phenanthrene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 14:30	1
Pyrene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/13/15 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*90*		*15 - 122*	*10/09/15 11:17*	*10/13/15 14:30*	*1*
Nitrobenzene-d5	*101*		*19 - 130*	*10/09/15 11:17*	*10/13/15 14:30*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-112079-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: MW1-ROX-100615
Date Collected: 10/06/15 14:35
Date Received: 10/07/15 10:09

Lab Sample ID: 400-112079-4
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	96		33 - 138	10/09/15 11:17	10/13/15 14:30	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/09/15 11:17	10/13/15 20:23	1
Benzenethiol	ND		10	1.7	ug/L		10/09/15 11:17	10/13/15 20:23	1
Benzoic acid	ND		30	7.3	ug/L		10/09/15 11:17	10/13/15 20:23	1
Benzyl alcohol	ND		10	2.0	ug/L		10/09/15 11:17	10/13/15 20:23	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/09/15 11:17	10/13/15 20:23	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/09/15 11:17	10/13/15 20:23	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/09/15 11:17	10/13/15 20:23	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/09/15 11:17	10/13/15 20:23	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/09/15 11:17	10/13/15 20:23	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/09/15 11:17	10/13/15 20:23	1
4-Chloroaniline	ND		10	3.4	ug/L		10/09/15 11:17	10/13/15 20:23	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/09/15 11:17	10/13/15 20:23	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/09/15 11:17	10/13/15 20:23	1
2-Chlorophenol	ND		10	2.2	ug/L		10/09/15 11:17	10/13/15 20:23	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/09/15 11:17	10/13/15 20:23	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/09/15 11:17	10/13/15 20:23	1
Dibenzofuran	ND		10	0.52	ug/L		10/09/15 11:17	10/13/15 20:23	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/09/15 11:17	10/13/15 20:23	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/09/15 11:17	10/13/15 20:23	1
Diethyl phthalate	ND		10	0.70	ug/L		10/09/15 11:17	10/13/15 20:23	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/09/15 11:17	10/13/15 20:23	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/09/15 11:17	10/13/15 20:23	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/09/15 11:17	10/13/15 20:23	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/09/15 11:17	10/13/15 20:23	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/09/15 11:17	10/13/15 20:23	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/09/15 11:17	10/13/15 20:23	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/09/15 11:17	10/13/15 20:23	1
Di-n-octyl phthalate	**0.56**	**J**	10	0.44	ug/L		10/09/15 11:17	10/13/15 20:23	1
1,4-Dioxane	ND		10	1.0	ug/L		10/09/15 11:17	10/13/15 20:23	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/09/15 11:17	10/13/15 20:23	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/09/15 11:17	10/13/15 20:23	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/09/15 11:17	10/13/15 20:23	1
Hexachloroethane	ND		10	4.2	ug/L		10/09/15 11:17	10/13/15 20:23	1
Indene	ND		10	1.0	ug/L		10/09/15 11:17	10/13/15 20:23	1
Isophorone	ND		10	0.57	ug/L		10/09/15 11:17	10/13/15 20:23	1
2-Methylphenol	ND		10	1.8	ug/L		10/09/15 11:17	10/13/15 20:23	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/09/15 11:17	10/13/15 20:23	1
2-Nitroaniline	ND		10	2.2	ug/L		10/09/15 11:17	10/13/15 20:23	1
3-Nitroaniline	ND		10	1.8	ug/L		10/09/15 11:17	10/13/15 20:23	1
4-Nitroaniline	ND		10	2.5	ug/L		10/09/15 11:17	10/13/15 20:23	1
Nitrobenzene	ND		10	0.55	ug/L		10/09/15 11:17	10/13/15 20:23	1
2-Nitrophenol	ND		10	0.65	ug/L		10/09/15 11:17	10/13/15 20:23	1
4-Nitrophenol	ND		10	2.1	ug/L		10/09/15 11:17	10/13/15 20:23	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/09/15 11:17	10/13/15 20:23	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-112079-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: MW1-ROX-100615
Date Collected: 10/06/15 14:35
Date Received: 10/07/15 10:09

Lab Sample ID: 400-112079-4
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/09/15 11:17	10/13/15 20:23	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/09/15 11:17	10/13/15 20:23	1
Pentachlorophenol	ND		20	1.8	ug/L		10/09/15 11:17	10/13/15 20:23	1
Phenol	ND		10	2.6	ug/L		10/09/15 11:17	10/13/15 20:23	1
Pyridine	ND		10	3.2	ug/L		10/09/15 11:17	10/13/15 20:23	1
Quinoline	ND		10	6.0	ug/L		10/09/15 11:17	10/13/15 20:23	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/09/15 11:17	10/13/15 20:23	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/09/15 11:17	10/13/15 20:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*89*		*34 - 120*	*10/09/15 11:17*	*10/13/15 20:23*	*1*
2-Fluorophenol	*64*		*10 - 120*	*10/09/15 11:17*	*10/13/15 20:23*	*1*
Nitrobenzene-d5	*96*		*27 - 120*	*10/09/15 11:17*	*10/13/15 20:23*	*1*
Phenol-d5	*69*		*10 - 120*	*10/09/15 11:17*	*10/13/15 20:23*	*1*
Terphenyl-d14	*88*		*53 - 125*	*10/09/15 11:17*	*10/13/15 20:23*	*1*
2,4,6-Tribromophenol	*91*		*15 - 135*	*10/09/15 11:17*	*10/13/15 20:23*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.031	0.0056	ug/L		10/12/15 14:43	10/13/15 05:16	1
1,2-Dibromoethane	ND		0.020	0.0051	ug/L		10/12/15 14:43	10/13/15 05:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*51 - 149*	*10/12/15 14:43*	*10/13/15 05:16*	*1*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

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

Glossary

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

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-112079-1
SDG: Proj. 60400249-21563720.03004

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(78-118)	(81-121)	(80-120)
400-112002-D-4 MS	Matrix Spike	101	102	94
400-112002-D-4 MSD	Matrix Spike Duplicate	97	101	95
400-112079-1	TB-ROX-100615-8260	92	110	90
400-112079-3	MW26-ROX-100615	92	111	91
400-112079-4	MW1-ROX-100615	90	112	88
LCS 400-278883/1002	Lab Control Sample	97	102	93
MB 400-278883/4	Method Blank	89	109	90

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	Client Sample ID	(34-120)	(10-120)	(27-120)	(10-120)	(53-125)	(15-135)
400-112002-E-4-B MS	Matrix Spike	95	61	77	65	53	96
400-112002-E-4-C MSD	Matrix Spike Duplicate	104	71	99	89	77	128
400-112079-3	MW26-ROX-100615	81	58	92	69	91	95
400-112079-4	MW1-ROX-100615	89	64	96	69	88	91
LCS 400-278092/2-A	Lab Control Sample	111	92	110	105	112	132
MB 400-278092/1-A	Method Blank	108	89	112	104	116	115

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

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

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPH
Lab Sample ID	Client Sample ID	(15-122)	(19-130)	(33-138)
400-112002-E-4-B MS	Matrix Spike	96	79	52
400-112002-E-4-C MSD	Matrix Spike Duplicate	99	96	70
400-112079-3	MW26-ROX-100615	90	104	99
400-112079-4	MW1-ROX-100615	90	101	96
LCS 400-278092/2-A	Lab Control Sample	96	99	99
MB 400-278092/1-A	Method Blank	79	89	112

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5

TPH = Terphenyl-d14

Method: 8011 - EDB and DBCP in Water by Microextraction

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	**Client Sample ID**	**BFB1 (51-149)**
400-111868-E-10-A MS	Matrix Spike	101
400-111868-E-10-B MSD	Matrix Spike Duplicate	89
400-112079-2	TB-ROX-100615-8011	94
400-112079-3	MW26-ROX-100615	88
400-112079-4	MW1-ROX-100615	101
LCS 400-278459/2-A	Lab Control Sample	106
MB 400-278459/1-A	Method Blank	113

Surrogate Legend

BFB = 4-Bromofluorobenzene

QC Association Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-112079-1
SDG: Proj. 60400249-21563720.03004

GC/MS VOA

Analysis Batch: 278883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112079-1	TB-ROX-100615-8260	Total/NA	Water	8260B	
400-112079-3	MW26-ROX-100615	Total/NA	Water	8260B	
400-112079-4	MW1-ROX-100615	Total/NA	Water	8260B	
LCS 400-278883/1002	Lab Control Sample	Total/NA	Water	8260B	
MB 400-278883/4	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 278092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112079-3	MW26-ROX-100615	Total/NA	Water	3520C	
400-112079-4	MW1-ROX-100615	Total/NA	Water	3520C	
LCS 400-278092/2-A	Lab Control Sample	Total/NA	Water	3520C	
MB 400-278092/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 278326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-278092/2-A	Lab Control Sample	Total/NA	Water	8270C LL	278092
MB 400-278092/1-A	Method Blank	Total/NA	Water	8270C LL	278092

Analysis Batch: 278447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112079-3	MW26-ROX-100615	Total/NA	Water	8270C	278092
400-112079-4	MW1-ROX-100615	Total/NA	Water	8270C	278092
LCS 400-278092/2-A	Lab Control Sample	Total/NA	Water	8270C	278092
MB 400-278092/1-A	Method Blank	Total/NA	Water	8270C	278092

Analysis Batch: 278503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112079-3	MW26-ROX-100615	Total/NA	Water	8270C LL	278092
400-112079-4	MW1-ROX-100615	Total/NA	Water	8270C LL	278092

GC Semi VOA

Prep Batch: 278459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112079-2	TB-ROX-100615-8011	Total/NA	Water	8011	
400-112079-3	MW26-ROX-100615	Total/NA	Water	8011	
400-112079-4	MW1-ROX-100615	Total/NA	Water	8011	
LCS 400-278459/2-A	Lab Control Sample	Total/NA	Water	8011	
MB 400-278459/1-A	Method Blank	Total/NA	Water	8011	

Analysis Batch: 278462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112079-2	TB-ROX-100615-8011	Total/NA	Water	8011	278459
400-112079-3	MW26-ROX-100615	Total/NA	Water	8011	278459
400-112079-4	MW1-ROX-100615	Total/NA	Water	8011	278459
LCS 400-278459/2-A	Lab Control Sample	Total/NA	Water	8011	278459
MB 400-278459/1-A	Method Blank	Total/NA	Water	8011	278459

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

Lab Sample ID: MB 400-278883/4
Matrix: Water
Analysis Batch: 278883

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/15/15 08:07	1
Acrolein	ND		20	10	ug/L			10/15/15 08:07	1
Acrylonitrile	ND		10	2.8	ug/L			10/15/15 08:07	1
Benzene	ND		1.0	0.38	ug/L			10/15/15 08:07	1
Bromobenzene	ND		1.0	0.54	ug/L			10/15/15 08:07	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/15/15 08:07	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/15/15 08:07	1
Bromoform	ND		5.0	0.71	ug/L			10/15/15 08:07	1
Bromomethane	ND		1.0	0.98	ug/L			10/15/15 08:07	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/15/15 08:07	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/15/15 08:07	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/15/15 08:07	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/15/15 08:07	1
Chloroethane	ND		1.0	0.76	ug/L			10/15/15 08:07	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/15/15 08:07	1
Chloroform	ND		1.0	0.60	ug/L			10/15/15 08:07	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/15/15 08:07	1
Chloromethane	ND		1.0	0.83	ug/L			10/15/15 08:07	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/15/15 08:07	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/15/15 08:07	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/15/15 08:07	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/15/15 08:07	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/15/15 08:07	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/15/15 08:07	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/15/15 08:07	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/15/15 08:07	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/15/15 08:07	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/15/15 08:07	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/15/15 08:07	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/15/15 08:07	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/15/15 08:07	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/15/15 08:07	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/15/15 08:07	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/15/15 08:07	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/15/15 08:07	1
2-Hexanone	ND		25	3.1	ug/L			10/15/15 08:07	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/15/15 08:07	1
Methylene bromide	ND		5.0	0.59	ug/L			10/15/15 08:07	1
Methylene chloride	ND		5.0	3.0	ug/L			10/15/15 08:07	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/15/15 08:07	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/15/15 08:07	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/15/15 08:07	1
Naphthalene	ND		1.0	1.0	ug/L			10/15/15 08:07	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/15/15 08:07	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/15/15 08:07	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/15/15 08:07	1
o-Xylene	ND		5.0	0.60	ug/L			10/15/15 08:07	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/15/15 08:07	1

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

Lab Sample ID: MB 400-278883/4
Matrix: Water
Analysis Batch: 278883

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/15/15 08:07	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/15/15 08:07	1
Styrene	ND		1.0	1.0	ug/L			10/15/15 08:07	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/15/15 08:07	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/15/15 08:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/15/15 08:07	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/15/15 08:07	1
Toluene	ND		1.0	0.70	ug/L			10/15/15 08:07	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/15/15 08:07	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/15/15 08:07	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/15/15 08:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/15/15 08:07	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/15/15 08:07	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/15/15 08:07	1
Trichloroethene	ND		1.0	0.50	ug/L			10/15/15 08:07	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/15/15 08:07	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/15/15 08:07	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/15/15 08:07	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/15/15 08:07	1
Vinyl acetate	ND		25	2.0	ug/L			10/15/15 08:07	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/15/15 08:07	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/15/15 08:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*78 - 118*		*10/15/15 08:07*	*1*
Dibromofluoromethane	*109*		*81 - 121*		*10/15/15 08:07*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*10/15/15 08:07*	*1*

Lab Sample ID: LCS 400-278883/1002
Matrix: Water
Analysis Batch: 278883

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	455	*	ug/L		227	43 - 160
Acrolein	500	585		ug/L		117	38 - 160
Acrylonitrile	500	606		ug/L		121	64 - 142
Benzene	50.0	50.9		ug/L		102	70 - 130
Bromobenzene	50.0	45.4		ug/L		91	70 - 132
Bromochloromethane	50.0	48.2		ug/L		96	70 - 130
Bromodichloromethane	50.0	59.7		ug/L		119	67 - 133
Bromoform	50.0	57.7		ug/L		115	57 - 140
Bromomethane	50.0	30.4		ug/L		61	10 - 160
2-Butanone (MEK)	200	283		ug/L		141	61 - 145
Carbon disulfide	50.0	57.7		ug/L		115	61 - 137
Carbon tetrachloride	50.0	60.5		ug/L		121	61 - 137
Chlorobenzene	50.0	44.8		ug/L		90	70 - 130
Chloroethane	50.0	47.5		ug/L		95	55 - 141
2-Chloroethyl vinyl ether	50.0	44.6		ug/L		89	10 - 160

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

Lab Sample ID: LCS 400-278883/1002
Matrix: Water
Analysis Batch: 278883

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	50.0	51.4		ug/L		103	69 - 130
1-Chlorohexane	50.0	48.8		ug/L		98	69 - 130
Chloromethane	50.0	57.8		ug/L		116	58 - 137
cis-1,2-Dichloroethene	50.0	50.7		ug/L		101	68 - 130
cis-1,3-Dichloropropene	50.0	53.1		ug/L		106	69 - 132
Dibromochloromethane	50.0	49.9		ug/L		100	67 - 135
1,2-Dichlorobenzene	50.0	43.5		ug/L		87	67 - 130
1,3-Dichlorobenzene	50.0	44.6		ug/L		89	70 - 130
1,4-Dichlorobenzene	50.0	44.2		ug/L		88	70 - 130
Dichlorodifluoromethane	50.0	34.6		ug/L		69	41 - 146
1,1-Dichloroethane	50.0	52.7		ug/L		105	70 - 130
1,2-Dichloroethane	50.0	59.4		ug/L		119	69 - 130
1,1-Dichloroethene	50.0	49.8		ug/L		100	63 - 134
1,2-Dichloropropane	50.0	51.6		ug/L		103	70 - 130
1,3-Dichloropropane	50.0	46.0		ug/L		92	70 - 130
2,2-Dichloropropane	50.0	47.5		ug/L		95	52 - 135
1,1-Dichloropropene	50.0	49.6		ug/L		99	70 - 130
Ethylbenzene	50.0	44.4		ug/L		89	70 - 130
Ethyl methacrylate	50.0	47.8		ug/L		96	68 - 130
Hexachlorobutadiene	50.0	42.4		ug/L		85	53 - 140
2-Hexanone	200	234		ug/L		117	65 - 137
Isopropylbenzene	50.0	43.0		ug/L		86	70 - 130
Methylene bromide	50.0	52.4		ug/L		105	70 - 130
Methylene chloride	50.0	51.7		ug/L		103	66 - 135
4-Methyl-2-pentanone (MIBK)	200	230		ug/L		115	69 - 138
Methyl tert-butyl ether	50.0	50.2		ug/L		100	66 - 130
m-Xylene & p-Xylene	50.0	44.2		ug/L		88	70 - 130
Naphthalene	50.0	41.0		ug/L		82	47 - 149
n-Butylbenzene	50.0	48.4		ug/L		97	67 - 130
N-Propylbenzene	50.0	48.3		ug/L		97	70 - 130
o-Chlorotoluene	50.0	42.6		ug/L		85	70 - 130
o-Xylene	50.0	44.2		ug/L		88	70 - 130
p-Chlorotoluene	50.0	43.4		ug/L		87	70 - 130
p-Isopropyltoluene	50.0	45.2		ug/L		90	65 - 130
sec-Butylbenzene	50.0	43.2		ug/L		86	66 - 130
Styrene	50.0	42.7		ug/L		85	70 - 130
tert-Butylbenzene	50.0	51.1		ug/L		102	64 - 139
1,1,1,2-Tetrachloroethane	50.0	51.0		ug/L		102	67 - 131
1,1,2,2-Tetrachloroethane	50.0	49.8		ug/L		100	70 - 131
Tetrachloroethene	50.0	42.6		ug/L		85	65 - 130
Toluene	50.0	44.5		ug/L		89	70 - 130
trans-1,2-Dichloroethene	50.0	49.9		ug/L		100	70 - 130
trans-1,3-Dichloropropene	50.0	46.6		ug/L		93	63 - 130
1,2,3-Trichlorobenzene	50.0	43.9		ug/L		88	60 - 138
1,2,4-Trichlorobenzene	50.0	43.8		ug/L		88	60 - 140
1,1,1-Trichloroethane	50.0	52.0		ug/L		104	68 - 130
1,1,2-Trichloroethane	50.0	47.1		ug/L		94	70 - 130
Trichloroethene	50.0	51.7		ug/L		103	70 - 130

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

Lab Sample ID: LCS 400-278883/1002
Matrix: Water
Analysis Batch: 278883

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	44.6		ug/L		89	65 - 138
1,2,3-Trichloropropane	50.0	44.7		ug/L		89	70 - 130
1,2,4-Trimethylbenzene	50.0	45.6		ug/L		91	70 - 130
1,3,5-Trimethylbenzene	50.0	42.8		ug/L		86	69 - 130
Vinyl acetate	100	131		ug/L		131	26 - 160
Vinyl chloride	50.0	51.9		ug/L		104	59 - 136
Xylenes, Total	100	88.4		ug/L		88	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*78 - 118*
Dibromofluoromethane	*102*		*81 - 121*
Toluene-d8 (Surr)	*93*		*80 - 120*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-278092/1-A
Matrix: Water
Analysis Batch: 278447

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278092

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/09/15 11:17	10/13/15 14:56	1
Benzenethiol	ND		10	1.7	ug/L		10/09/15 11:17	10/13/15 14:56	1
Benzoic acid	ND		30	7.3	ug/L		10/09/15 11:17	10/13/15 14:56	1
Benzyl alcohol	ND		10	2.0	ug/L		10/09/15 11:17	10/13/15 14:56	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/09/15 11:17	10/13/15 14:56	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/09/15 11:17	10/13/15 14:56	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/09/15 11:17	10/13/15 14:56	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/09/15 11:17	10/13/15 14:56	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/09/15 11:17	10/13/15 14:56	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/09/15 11:17	10/13/15 14:56	1
4-Chloroaniline	ND		10	3.4	ug/L		10/09/15 11:17	10/13/15 14:56	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/09/15 11:17	10/13/15 14:56	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/09/15 11:17	10/13/15 14:56	1
2-Chlorophenol	ND		10	2.2	ug/L		10/09/15 11:17	10/13/15 14:56	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/09/15 11:17	10/13/15 14:56	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/09/15 11:17	10/13/15 14:56	1
Dibenzofuran	ND		10	0.52	ug/L		10/09/15 11:17	10/13/15 14:56	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/09/15 11:17	10/13/15 14:56	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/09/15 11:17	10/13/15 14:56	1
Diethyl phthalate	ND		10	0.70	ug/L		10/09/15 11:17	10/13/15 14:56	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/09/15 11:17	10/13/15 14:56	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/09/15 11:17	10/13/15 14:56	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/09/15 11:17	10/13/15 14:56	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/09/15 11:17	10/13/15 14:56	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/09/15 11:17	10/13/15 14:56	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/09/15 11:17	10/13/15 14:56	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/09/15 11:17	10/13/15 14:56	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/09/15 11:17	10/13/15 14:56	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-278092/1-A
Matrix: Water
Analysis Batch: 278447

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278092

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		10	1.0	ug/L		10/09/15 11:17	10/13/15 14:56	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/09/15 11:17	10/13/15 14:56	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/09/15 11:17	10/13/15 14:56	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/09/15 11:17	10/13/15 14:56	1
Hexachloroethane	ND		10	4.2	ug/L		10/09/15 11:17	10/13/15 14:56	1
Indene	ND		10	1.0	ug/L		10/09/15 11:17	10/13/15 14:56	1
Isophorone	ND		10	0.57	ug/L		10/09/15 11:17	10/13/15 14:56	1
2-Methylphenol	ND		10	1.8	ug/L		10/09/15 11:17	10/13/15 14:56	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/09/15 11:17	10/13/15 14:56	1
2-Nitroaniline	ND		10	2.2	ug/L		10/09/15 11:17	10/13/15 14:56	1
3-Nitroaniline	ND		10	1.8	ug/L		10/09/15 11:17	10/13/15 14:56	1
4-Nitroaniline	ND		10	2.5	ug/L		10/09/15 11:17	10/13/15 14:56	1
Nitrobenzene	ND		10	0.55	ug/L		10/09/15 11:17	10/13/15 14:56	1
2-Nitrophenol	ND		10	0.65	ug/L		10/09/15 11:17	10/13/15 14:56	1
4-Nitrophenol	ND		10	2.1	ug/L		10/09/15 11:17	10/13/15 14:56	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/09/15 11:17	10/13/15 14:56	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/09/15 11:17	10/13/15 14:56	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/09/15 11:17	10/13/15 14:56	1
Pentachlorophenol	ND		20	1.8	ug/L		10/09/15 11:17	10/13/15 14:56	1
Phenol	ND		10	2.6	ug/L		10/09/15 11:17	10/13/15 14:56	1
Pyridine	ND		10	3.2	ug/L		10/09/15 11:17	10/13/15 14:56	1
Quinoline	ND		10	6.0	ug/L		10/09/15 11:17	10/13/15 14:56	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/09/15 11:17	10/13/15 14:56	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/09/15 11:17	10/13/15 14:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*108*		*34 - 120*	*10/09/15 11:17*	*10/13/15 14:56*	*1*
2-Fluorophenol	*89*		*10 - 120*	*10/09/15 11:17*	*10/13/15 14:56*	*1*
Nitrobenzene-d5	*112*		*27 - 120*	*10/09/15 11:17*	*10/13/15 14:56*	*1*
Phenol-d5	*104*		*10 - 120*	*10/09/15 11:17*	*10/13/15 14:56*	*1*
Terphenyl-d14	*116*		*53 - 125*	*10/09/15 11:17*	*10/13/15 14:56*	*1*
2,4,6-Tribromophenol	*115*		*15 - 135*	*10/09/15 11:17*	*10/13/15 14:56*	*1*

Lab Sample ID: LCS 400-278092/2-A
Matrix: Water
Analysis Batch: 278447

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278092

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	30.0	25.9		ug/L		86	10 - 145
Benzoic acid	110	132		ug/L		120	10 - 120
Benzyl alcohol	30.0	29.2		ug/L		97	51 - 121
Bis(2-chloroethoxy)methane	30.0	28.0		ug/L		93	54 - 123
Bis(2-chloroethyl)ether	30.0	26.7		ug/L		89	47 - 120
bis (2-chloroisopropyl) ether	30.0	24.0		ug/L		80	20 - 142
Bis(2-ethylhexyl) phthalate	30.0	32.2		ug/L		107	62 - 140
4-Bromophenyl phenyl ether	30.0	29.3		ug/L		98	62 - 132
Butyl benzyl phthalate	30.0	30.9		ug/L		103	51 - 150

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-278092/2-A
Matrix: Water
Analysis Batch: 278447

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278092

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	30.0	23.8		ug/L		79	32 - 128
4-Chloro-3-methylphenol	30.0	32.0		ug/L		107	47 - 135
2-Chloronaphthalene	30.0	28.6		ug/L		95	24 - 150
2-Chlorophenol	30.0	27.7		ug/L		92	45 - 120
4-Chlorophenyl phenyl ether	30.0	28.7		ug/L		96	61 - 133
Dibenzofuran	30.0	28.7		ug/L		96	62 - 124
3,3'-Dichlorobenzidine	30.0	33.8		ug/L		113	16 - 167
2,4-Dichlorophenol	30.0	31.5		ug/L		105	52 - 125
Diethyl phthalate	30.0	31.7		ug/L		106	55 - 140
2,4-Dimethylphenol	30.0	29.1		ug/L		97	52 - 121
Dimethyl phthalate	30.0	30.3		ug/L		101	50 - 133
Di-n-butyl phthalate	30.0	31.1		ug/L		104	59 - 144
4,6-Dinitro-o-cresol	60.0	67.2		ug/L		112	46 - 136
2,4-Dinitrophenol	86.0	101		ug/L		118	22 - 146
2,4-Dinitrotoluene	30.0	31.8		ug/L		106	54 - 141
2,6-Dinitrotoluene	30.0	32.0		ug/L		107	61 - 130
Di-n-octyl phthalate	30.0	31.0		ug/L		103	55 - 140
1,4-Dioxane	30.0	21.5		ug/L		72	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	30.0	26.2		ug/L		87	55 - 139
Hexachlorobenzene	30.0	29.8		ug/L		99	60 - 138
Hexachlorocyclopentadiene	30.0	17.1	J	ug/L		57	1 - 139
Hexachloroethane	30.0	25.6		ug/L		85	46 - 121
Indene	30.0	29.4		ug/L		98	17 - 141
Isophorone	30.0	29.0		ug/L		97	57 - 122
2-Methylphenol	30.0	28.2		ug/L		94	38 - 121
3 & 4 Methylphenol	30.0	28.8		ug/L		96	43 - 126
2-Nitroaniline	30.0	29.3		ug/L		98	52 - 135
3-Nitroaniline	30.0	26.4		ug/L		88	51 - 128
4-Nitroaniline	30.0	30.6		ug/L		102	38 - 141
Nitrobenzene	30.0	28.2		ug/L		94	52 - 128
2-Nitrophenol	30.0	31.7		ug/L		106	47 - 129
4-Nitrophenol	60.0	61.4		ug/L		102	34 - 137
N-Nitrosodimethylamine	30.0	24.9		ug/L		83	21 - 134
N-Nitrosodi-n-propylamine	30.0	26.6		ug/L		89	41 - 143
N-Nitrosodiphenylamine	60.0	57.6		ug/L		96	10 - 185
Pentachlorophenol	60.0	64.5		ug/L		108	38 - 138
Phenol	30.0	26.8		ug/L		89	37 - 120
Pyridine	30.0	22.7		ug/L		76	10 - 127
2,4,5-Trichlorophenol	30.0	33.7		ug/L		112	53 - 130
2,4,6-Trichlorophenol	30.0	33.1		ug/L		110	52 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*111*		*34 - 120*
2-Fluorophenol	*92*		*10 - 120*
Nitrobenzene-d5	*110*		*27 - 120*
Phenol-d5	*105*		*10 - 120*
Terphenyl-d14	*112*		*53 - 125*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-278092/2-A
Matrix: Water
Analysis Batch: 278447

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278092

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	132		15 - 135

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 400-278092/1-A
Matrix: Water
Analysis Batch: 278326

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278092

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/12/15 17:56	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/12/15 17:56	1
Anthracene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/12/15 17:56	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/12/15 17:56	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/12/15 17:56	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/12/15 17:56	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/12/15 17:56	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/12/15 17:56	1
Chrysene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/12/15 17:56	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/12/15 17:56	1
Fluoranthene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/12/15 17:56	1
Fluorene	ND		0.20	0.021	ug/L		10/09/15 11:17	10/12/15 17:56	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/09/15 11:17	10/12/15 17:56	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/12/15 17:56	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/12/15 17:56	1
Phenanthrene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/12/15 17:56	1
Pyrene	ND		0.20	0.020	ug/L		10/09/15 11:17	10/12/15 17:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		15 - 122	10/09/15 11:17	10/12/15 17:56	1
Nitrobenzene-d5	89		19 - 130	10/09/15 11:17	10/12/15 17:56	1
Terphenyl-d14	112		33 - 138	10/09/15 11:17	10/12/15 17:56	1

Lab Sample ID: LCS 400-278092/2-A
Matrix: Water
Analysis Batch: 278326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278092

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	30.0	27.1		ug/L		90	41 - 120
Acenaphthylene	30.0	27.7		ug/L		92	44 - 120
Anthracene	30.0	27.1		ug/L		90	49 - 120
Benzo[a]anthracene	30.0	26.6		ug/L		89	61 - 135
Benzo[a]pyrene	30.0	27.5		ug/L		92	52 - 120
Benzo[b]fluoranthene	30.0	28.4		ug/L		95	53 - 134
Benzo[g,h,i]perylene	30.0	21.8		ug/L		73	47 - 133
Benzo[k]fluoranthene	30.0	27.8		ug/L		93	57 - 134
Chrysene	30.0	29.8		ug/L		99	55 - 122
Dibenz(a,h)anthracene	30.0	22.5		ug/L		75	48 - 146

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 400-278092/2-A
Matrix: Water
Analysis Batch: 278326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278092

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoranthene	30.0	27.1		ug/L		90	54 - 128
Fluorene	30.0	30.2		ug/L		101	45 - 125
Indeno[1,2,3-cd]pyrene	30.0	23.1		ug/L		77	43 - 142
1-Methylnaphthalene	30.0	26.8		ug/L		89	41 - 120
2-Methylnaphthalene	30.0	26.9		ug/L		90	32 - 124
Phenanthrene	30.0	26.5		ug/L		88	48 - 120
Pyrene	30.0	28.6		ug/L		95	48 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*96*		*15 - 122*
Nitrobenzene-d5	*99*		*19 - 130*
Terphenyl-d14	*99*		*33 - 138*

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-278459/1-A
Matrix: Water
Analysis Batch: 278462

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278459

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/12/15 14:43	10/12/15 21:22	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/12/15 14:43	10/12/15 21:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*113*		*51 - 149*	*10/12/15 14:43*	*10/12/15 21:22*	*1*

Lab Sample ID: LCS 400-278459/2-A
Matrix: Water
Analysis Batch: 278462

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278459

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.100	0.103		ug/L		103	60 - 140
1,2-Dibromoethane	0.100	0.103		ug/L		103	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*106*		*51 - 149*

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-112079-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: TB-ROX-100615-8260

Date Collected: 10/06/15 00:00
Date Received: 10/07/15 10:09

Lab Sample ID: 400-112079-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	278883	10/15/15 10:08	WPD	TAL PEN

Client Sample ID: TB-ROX-100615-8011

Date Collected: 10/06/15 00:00
Date Received: 10/07/15 10:09

Lab Sample ID: 400-112079-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			31 mL	35 mL	278459	10/12/15 14:43	AM	TAL PEN
Total/NA	Analysis	8011		1	31 mL	35 mL	278462	10/13/15 04:17	AM	TAL PEN

Client Sample ID: MW26-ROX-100615

Date Collected: 10/06/15 13:25
Date Received: 10/07/15 10:09

Lab Sample ID: 400-112079-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	278883	10/15/15 10:35	WPD	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278092	10/09/15 11:17	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278447	10/13/15 19:46	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278092	10/09/15 11:17	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	278503	10/13/15 13:52	CEP	TAL PEN
Total/NA	Prep	8011			36.1 mL	35 mL	278459	10/12/15 14:43	AM	TAL PEN
Total/NA	Analysis	8011		1	36.1 mL	35 mL	278462	10/13/15 04:47	AM	TAL PEN

Client Sample ID: MW1-ROX-100615

Date Collected: 10/06/15 14:35
Date Received: 10/07/15 10:09

Lab Sample ID: 400-112079-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	278883	10/15/15 10:59	WPD	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278092	10/09/15 11:17	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278447	10/13/15 20:23	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278092	10/09/15 11:17	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	278503	10/13/15 14:30	CEP	TAL PEN
Total/NA	Prep	8011			34.2 mL	35 mL	278459	10/12/15 14:43	AM	TAL PEN
Total/NA	Analysis	8011		1	34.2 mL	35 mL	278462	10/13/15 05:16	AM	TAL PEN

Client Sample ID: Lab Control Sample

Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-278092/2-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	278092	10/09/15 11:17	KH1	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-278092/2-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278447	10/13/15 15:33	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278092	10/09/15 11:17	KH1	TAL PEN
Total/NA	Analysis	8270C LL		5	1000 mL	1 mL	278326	10/12/15 18:33	CEP	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-278459/2-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	278459	10/12/15 14:43	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	278462	10/12/15 21:52	AM	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-278883/1002

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	278883	10/15/15 07:18	WPD	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-278092/1-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	278092	10/09/15 11:17	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278447	10/13/15 14:56	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278092	10/09/15 11:17	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	278326	10/12/15 17:56	CEP	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-278459/1-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	278459	10/12/15 14:43	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	278462	10/12/15 21:22	AM	TAL PEN

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-278883/4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	278883	10/15/15 08:07	WPD	TAL PEN

Laboratory References:
TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-112079-1
SDG: Proj. 60400249-21563720.03004

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL PEN
8011	EDB and DBCP in Water by Microextraction	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW

TestAmerica Job ID: 400-112079-1
SDG: Proj. 60400249-21563720.03004

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	08-31-15 *
Arizona	State Program	9	AZ0710	01-11-16
Arkansas DEQ	State Program	6	88-0689	09-01-16
Florida	NELAP	4	E81010	06-30-16
Georgia	State Program	4	N/A	06-30-16
Iowa	State Program	7	367	07-31-16
Kansas	NELAP	7	E-10253	10-31-15
Kentucky (UST)	State Program	4	53	06-30-16
Kentucky (WW)	State Program	4	98030	12-31-15
Louisiana	NELAP	6	30976	06-30-16
Maryland	State Program	3	233	09-30-16
Massachusetts	State Program	1	M-FL094	06-30-16
Michigan	State Program	5	9912	06-30-16
New Jersey	NELAP	2	FL006	10-30-15
North Carolina (WW/SW)	State Program	4	314	12-31-15
Oklahoma	State Program	6	9810	08-31-16
Pennsylvania	NELAP	3	68-00467	01-31-16
Rhode Island	State Program	1	LAO00307	12-30-15
South Carolina	State Program	4	96026	06-30-15 *
Tennessee	State Program	4	TN02907	06-30-16
Texas	NELAP	6	T104704286-15-9	09-30-16
USDA	Federal		P330-13-00193	07-01-16
Virginia	NELAP	3	460166	06-14-16
West Virginia DEP	State Program	3	136	06-30-16

* Certification renewal pending - certification considered valid.

Shell Oil Products Chain Of Custody Record

AECOM

LAB (LOCATION)
☐ XENCO ( )
☐ CALSCIENCE (TestAmerica Pensacola; 3355 McLemore Dr.)
☑ OTHER (Pensacola, FL 32514 (850-474-1001))
☐ Lab Vendor # ( )
☐ SPL ( )
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES | ☐ MOTIVA RETAIL | ☐ SHELL RETAIL
☐ MOTIVA SD&CM | ☐ CONSULTANT | ☐ LUBES
☐ SHELL PIPELINE | ☐ OTHER

Print Bill To Contact Name: Bob Billman
PO #:
INCIDENT # (ENV SERVICES): 972166440
SAP #: 340061
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 6 Oct. 2015
PAGE: 1 of 1

SAMPLING COMPANY: AECOM
LOG CODE:
SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location):
PHONE NO.:
E-MAIL:
CONSULTANT PROJECT NO.: Roxana Quarterly GW / 60400249-21563720.03004
PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: bob.billman@aecom.com; elizabeth.kunkel@aecom.com; lindsay.rathnow@aecom.com
SAMPLER NAME(S) (Print): S. Fisher / D. Haxel

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND
☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD
TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
* Please include "J" values on Reports.
* Please provide sample receipt upon login.

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS
400-112079 COC

FIELD NOTES:
TEMPERATURE ON RECEIPT C°

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260	VOC 8011	SVOC 8270	PAH 8270LL	Container PID Readings or Laboratory Notes
	TB-ROX-100615-8260	10/6/15	0000	water	2					2	X				
	TB-ROX-100615-8011	↓	0000	↓	2					2		X			
	MW26-ROX-100615		1325		4			3		7	X	X	X	X	
	MW1-ROX-100615	↓	1435	↓	4			3		7	X	X	X	X	

6 Oct. 2015

Relinquished by: (Signature)	Received by: (Signature) FED EX # 8092 2040 9494	Date: 6 Oct. 2015	Time: 1650
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date: 10.7.15	Time: 10:09

05/2006 Revision

Custody seals: Test America 524456 524455 4, 5 °C IRS

Page 34 of 35

10/29/2015

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 400-112079-1
SDG Number: Proj. 60400249-21563720.03004

Login Number: 112079
List Number: 1
Creator: Akers, Stephanie C

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.5°C, IR-5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Roxana Groundwater Quarterly – 4th Quarter 2015 Data Review

Laboratory SDG: 400-112171

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 11/25/2015

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2014

Sample Identification	Sample Identification
TB-ROX-100715-8260	TB-ROX-100715-8011
MW6D-ROX-100715	MW6C-ROX-100715
MW6B-ROX-100715	MW6A-ROX-100715-EB
MW6A-ROX-100715	MW16-ROX-100715
MW24-ROX-100715	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated di-n-octyl phthalate was detected in the method blank, and although not indicated in the laboratory case narrative, 2-methylnaphthalene was detected in the equipment blank. The LCS/LCSD RPD for benzoic acid was outside evaluation criteria. The surrogate 4-bromofluorobenzene was outside criteria for Method 8011 VOCs in sample MW24-ROX-100715 and in trip blank TB-ROX-100715-8011. These issues are addressed further in the appropriate sections below.

Additionally, the initial calibration verification for bromomethane and dichlorodifluoromethane, and the continuing calibration verification for 1,2-dibromo-3-chloropropane and ethylene dibromide, exceeded evaluation criteria. Three of 69 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds, results may be biased low due to the presence of HCl in the preservative.

The cooler receipt form indicated that two of three coolers were received by the laboratory at temperatures of 0.2°C and 0.5°C, which are outside the 4ºC ± 2ºC criteria. Samples were received in good condition; therefore, no qualification of data was required. Additionally, although the cooler receipt form notes insufficient sample volume was received for MS/MSD analysis, MS/MSD analysis was not requested; no qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/ Amount
MW6A-ROX-100715-EB	PAHs	2-Methylnaphthalene	0.031 µg/L
MB 400-278376/1-A	SVOCs	Di-n-octyl phthalate	0.553 µg/L

Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification. Please see section 12.0 of this review for additional qualifications regarding samples associated with 2-methylnaphthalene in equipment blank MW6A-ROX-100715-EB.

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS/LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/ RPD Criteria
LCS/LCSD 400-278376/2-A/3-A	SVOCs	Benzoic acid	19/27	**33**	10-120/30

Analytical data associated with LCS/LCSD RPDs above evaluation criteria did not require qualification; LCS/LCSD recoveries were within evaluation criteria. No qualification of data was required.

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Sample ID	Parameter	Surrogate	Recovery (%)	Criteria (%)
TB-ROX-100715-8011	VOCs by 8011	4-Bromofluorobenzene	**158**	51-149
MW24-ROX-100715	VOCs by 8011	4-Bromofluorobenzene	**323**	51-149

Analytical data reported as non-detect and associated with surrogate recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. Trip blank, TB-ROX-100715-8011 is a quality control sample and did not require qualification. No qualification of data was required.

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

No

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

Yes

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples analyzed as part of this SDG?

No

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

11.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; samples analyzed did not require dilution.

12.0 Additional Qualifications

Were additional qualifications applied?

Yes, professional judgment was also used to qualify as estimated, however not reject, data that was associated with 2-methylnaphthalene in equipment blank MW6A-ROX-100715-EB, due to comparable historical detections.

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
MW6D-ROX-100715	PAHs	2-Methylnaphthalene	-	**J**
MW6C-ROX-100715	PAHs	2-Methylnaphthalene	-	**J**
MW6B-ROX-100715	PAHs	2-Methylnaphthalene	-	**J**
MW16-ROX-100715	PAHs	2-Methylnaphthalene	-	**J**
MW24-ROX-100715	PAHs	2-Methylnaphthalene	-	**J**

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-112171-1
TestAmerica SDG: Proj. 60400249-21563720.03004
Client Project/Site: ROXANA QUARTERLY GW - 4Q15

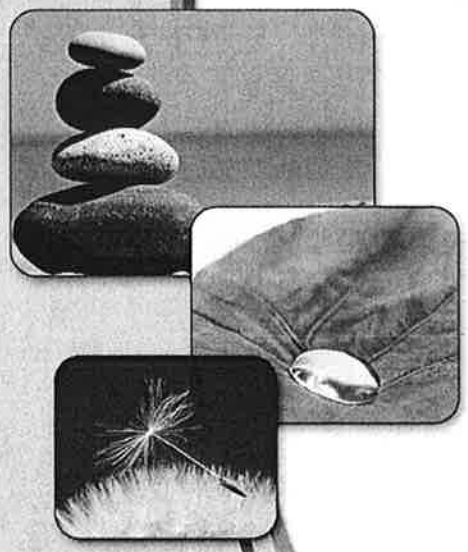
For:
AECOM Technical Services Inc.
1001 Highlands Plaza Dr. West
St. Louis, Missouri 63110

Attn: Mrs. Elizabeth Kunkel

Carolyn M. Hooper

Authorized for release by:
10/30/2015 2:40:11 PM

Carolyn Hooper, Project Manager I
(850)474-1001
carolyn.hooper@testamericainc.com



LINKS

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Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

Reviewed 11/25/15 LH

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 400-112171-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-112171-1

Receipt
The samples were received on 10/8/2015 10:05 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 0.2°C, 0.5°C and 2.6°C.

GC/MS VOA
Method 8260B: The preservative (hydrochloric acid) used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The requested target analyte list includes 2-chloroethyl vinyl ether, acrolein, and acrylonitrile, which are acid-labile compounds that degrade in an acidic medium.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 279588 were outside control limits for 2-Chloroethyl vinyl ether due to the acidic nature of the parent sample.

The initial calibration verification (ICV) analyzed in batch 400-279112 was outside method criteria for the following analytes: Bromomethane and Dichlorodifluoromethane As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

GC/MS Semi VOA
Method 8270C: The method blank for preparation batch 400-278376 and analytical batch 400-278441 contained Di-n-octyl phthalate above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch (LCSD 400-278376/3-A) recovered outside control limits for the following analytes: Benzoic acid.

GC Semi VOA
Method 8011: Surrogate recovery for the following sample was outside the upper control limit: TB-ROX-100715-8011 (400-112171-2). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Surrogate recovery for the following sample was outside the upper control limit: MW24-ROX-100715 (400-112171-9). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

The continuing calibration verification (CCV) associated with batch 400-278887 recovered above the upper control limit for 1,2-Dibromo-3-chloropropane and Ethylene Dibromide . The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: TB-ROX-100715-8011 (400-112171-2), MW6D-ROX-100715 (400-112171-3), MW6C-ROX-100715 (400-112171-4), MW6B-ROX-100715 (400-112171-5), MW6A-ROX-100715EB (400-112171-6), MW6A-ROX-100715 (400-112171-7) and MW16-ROX-100715 (400-112171-8).

Method 8011: The continuing calibration verification (CCV) associated with batch 400-278981 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: MW24-ROX-100715 (400-112171-9).

Organic Prep
Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 400-278376.

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

Job ID: 400-112171-1 (Continued)

Laboratory: TestAmerica Pensacola (Continued)

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112171-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: TB-ROX-100715-8260 — Lab Sample ID: 400-112171-1

No Detections.

Client Sample ID: TB-ROX-100715-8011 — Lab Sample ID: 400-112171-2

No Detections.

Client Sample ID: MW6D-ROX-100715 — Lab Sample ID: 400-112171-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.059	J	0.20	0.040	ug/L	1		8270C LL	Total/NA
Benzo[b]fluoranthene	0.054	J	0.20	0.040	ug/L	1		8270C LL	Total/NA
Benzo[g,h,i]perylene	0.049	J	0.20	0.040	ug/L	1		8270C LL	Total/NA
Benzo[k]fluoranthene	0.047	J	0.20	0.040	ug/L	1		8270C LL	Total/NA
1-Methylnaphthalene	0.081	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
2-Methylnaphthalene	0.12	J J	0.20	0.020	ug/L	1		8270C LL	Total/NA

Client Sample ID: MW6C-ROX-100715 — Lab Sample ID: 400-112171-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	0.056	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
2-Methylnaphthalene	0.083	J J	0.20	0.020	ug/L	1		8270C LL	Total/NA

Client Sample ID: MW6B-ROX-100715 — Lab Sample ID: 400-112171-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	3.0		1.0	0.74	ug/L	1		8260B	Total/NA
1-Methylnaphthalene	0.059	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
2-Methylnaphthalene	0.088	J J	0.20	0.020	ug/L	1		8270C LL	Total/NA

Client Sample ID: MW6A-ROX-100715EB — Lab Sample ID: 400-112171-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.031	J	0.20	0.020	ug/L	1		8270C LL	Total/NA

Client Sample ID: MW6A-ROX-100715 — Lab Sample ID: 400-112171-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	5.3		1.0	0.74	ug/L	1		8260B	Total/NA

Client Sample ID: MW16-ROX-100715 — Lab Sample ID: 400-112171-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	0.045	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
2-Methylnaphthalene	0.073	J J	0.20	0.020	ug/L	1		8270C LL	Total/NA

Client Sample ID: MW24-ROX-100715 — Lab Sample ID: 400-112171-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	0.057	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
2-Methylnaphthalene	0.087	J J	0.20	0.020	ug/L	1		8270C LL	Total/NA

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112171-1
SDG: Proj. 60400249-21563720.03004

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-112171-1	TB-ROX-100715-8260	Water	10/07/15 00:00	10/08/15 10:05
400-112171-2	TB-ROX-100715-8011	Water	10/07/15 00:00	10/08/15 10:05
400-112171-3	MW6D-ROX-100715	Water	10/07/15 09:40	10/08/15 10:05
400-112171-4	MW6C-ROX-100715	Water	10/07/15 10:30	10/08/15 10:05
400-112171-5	MW6B-ROX-100715	Water	10/07/15 11:20	10/08/15 10:05
400-112171-6	MW6A-ROX-100715EB	Water	10/07/15 11:45	10/08/15 10:05
400-112171-7	MW6A-ROX-100715	Water	10/07/15 12:15	10/08/15 10:05
400-112171-8	MW16-ROX-100715	Water	10/07/15 14:30	10/08/15 10:05
400-112171-9	MW24-ROX-100715	Water	10/07/15 15:25	10/08/15 10:05

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112171-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: TB-ROX-100715-8260
Date Collected: 10/07/15 00:00
Date Received: 10/08/15 10:05

Lab Sample ID: 400-112171-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/20/15 14:35	1
Acrolein	ND		20	10	ug/L			10/20/15 14:35	1
Acrylonitrile	ND		10	2.8	ug/L			10/20/15 14:35	1
Benzene	ND		1.0	0.38	ug/L			10/20/15 14:35	1
Bromobenzene	ND		1.0	0.54	ug/L			10/20/15 14:35	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/20/15 14:35	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/20/15 14:35	1
Bromoform	ND		5.0	0.71	ug/L			10/20/15 14:35	1
Bromomethane	ND		1.0	0.98	ug/L			10/20/15 14:35	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/20/15 14:35	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/20/15 14:35	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/20/15 14:35	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/20/15 14:35	1
Chloroethane	ND		1.0	0.76	ug/L			10/20/15 14:35	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/20/15 14:35	1
Chloroform	ND		1.0	0.60	ug/L			10/20/15 14:35	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/20/15 14:35	1
Chloromethane	ND		1.0	0.83	ug/L			10/20/15 14:35	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/20/15 14:35	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/20/15 14:35	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/20/15 14:35	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/20/15 14:35	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/20/15 14:35	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/20/15 14:35	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/20/15 14:35	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/20/15 14:35	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/20/15 14:35	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/20/15 14:35	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/20/15 14:35	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/20/15 14:35	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/20/15 14:35	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/20/15 14:35	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/20/15 14:35	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/20/15 14:35	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/20/15 14:35	1
2-Hexanone	ND		25	3.1	ug/L			10/20/15 14:35	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/20/15 14:35	1
4-Isopropyltoluene	ND		1.0	0.71	ug/L			10/20/15 14:35	1
Methylene bromide	ND		5.0	0.59	ug/L			10/20/15 14:35	1
Methylene chloride	ND		5.0	3.0	ug/L			10/20/15 14:35	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/20/15 14:35	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/20/15 14:35	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/20/15 14:35	1
Naphthalene	ND		1.0	1.0	ug/L			10/20/15 14:35	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/20/15 14:35	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/20/15 14:35	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/20/15 14:35	1
o-Xylene	ND		5.0	0.60	ug/L			10/20/15 14:35	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/20/15 14:35	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112171-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: TB-ROX-100715-8260
Date Collected: 10/07/15 00:00
Date Received: 10/08/15 10:05

Lab Sample ID: 400-112171-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/20/15 14:35	1
Styrene	ND		1.0	1.0	ug/L			10/20/15 14:35	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/20/15 14:35	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/20/15 14:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/20/15 14:35	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/20/15 14:35	1
Toluene	ND		1.0	0.70	ug/L			10/20/15 14:35	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/20/15 14:35	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/20/15 14:35	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/20/15 14:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/20/15 14:35	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/20/15 14:35	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/20/15 14:35	1
Trichloroethene	ND		1.0	0.50	ug/L			10/20/15 14:35	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/20/15 14:35	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/20/15 14:35	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/20/15 14:35	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/20/15 14:35	1
Vinyl acetate	ND		25	2.0	ug/L			10/20/15 14:35	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/20/15 14:35	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/20/15 14:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*78 - 118*		*10/20/15 14:35*	*1*
Dibromofluoromethane	*99*		*81 - 121*		*10/20/15 14:35*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/20/15 14:35*	*1*

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112171-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: TB-ROX-100715-8011
Date Collected: 10/07/15 00:00
Date Received: 10/08/15 10:05

Lab Sample ID: 400-112171-2
Matrix: Water

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.031	0.0057	ug/L		10/13/15 16:23	10/14/15 19:25	1
1,2-Dibromoethane	ND		0.021	0.0051	ug/L		10/13/15 16:23	10/14/15 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*158*	*X*	*51 - 149*	*10/13/15 16:23*	*10/14/15 19:25*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112171-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: MW6D-ROX-100715
Date Collected: 10/07/15 09:40
Date Received: 10/08/15 10:05

Lab Sample ID: 400-112171-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/20/15 15:01	1
Acrolein	ND		20	10	ug/L			10/20/15 15:01	1
Acrylonitrile	ND		10	2.8	ug/L			10/20/15 15:01	1
Benzene	ND		1.0	0.38	ug/L			10/20/15 15:01	1
Bromobenzene	ND		1.0	0.54	ug/L			10/20/15 15:01	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/20/15 15:01	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/20/15 15:01	1
Bromoform	ND		5.0	0.71	ug/L			10/20/15 15:01	1
Bromomethane	ND		1.0	0.98	ug/L			10/20/15 15:01	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/20/15 15:01	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/20/15 15:01	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/20/15 15:01	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/20/15 15:01	1
Chloroethane	ND		1.0	0.76	ug/L			10/20/15 15:01	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/20/15 15:01	1
Chloroform	ND		1.0	0.60	ug/L			10/20/15 15:01	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/20/15 15:01	1
Chloromethane	ND		1.0	0.83	ug/L			10/20/15 15:01	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/20/15 15:01	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/20/15 15:01	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/20/15 15:01	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/20/15 15:01	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/20/15 15:01	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/20/15 15:01	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/20/15 15:01	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/20/15 15:01	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/20/15 15:01	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/20/15 15:01	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/20/15 15:01	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/20/15 15:01	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/20/15 15:01	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/20/15 15:01	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/20/15 15:01	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/20/15 15:01	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/20/15 15:01	1
2-Hexanone	ND		25	3.1	ug/L			10/20/15 15:01	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/20/15 15:01	1
4-Isopropyltoluene	ND		1.0	0.71	ug/L			10/20/15 15:01	1
Methylene bromide	ND		5.0	0.59	ug/L			10/20/15 15:01	1
Methylene chloride	ND		5.0	3.0	ug/L			10/20/15 15:01	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/20/15 15:01	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/20/15 15:01	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/20/15 15:01	1
Naphthalene	ND		1.0	1.0	ug/L			10/20/15 15:01	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/20/15 15:01	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/20/15 15:01	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/20/15 15:01	1
o-Xylene	ND		5.0	0.60	ug/L			10/20/15 15:01	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/20/15 15:01	1

Client Sample ID: MW6D-ROX-100715
Date Collected: 10/07/15 09:40
Date Received: 10/08/15 10:05

Lab Sample ID: 400-112171-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/20/15 15:01	1
Styrene	ND		1.0	1.0	ug/L			10/20/15 15:01	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/20/15 15:01	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/20/15 15:01	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/20/15 15:01	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/20/15 15:01	1
Toluene	ND		1.0	0.70	ug/L			10/20/15 15:01	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/20/15 15:01	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/20/15 15:01	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/20/15 15:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/20/15 15:01	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/20/15 15:01	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/20/15 15:01	1
Trichloroethene	ND		1.0	0.50	ug/L			10/20/15 15:01	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/20/15 15:01	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/20/15 15:01	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/20/15 15:01	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/20/15 15:01	1
Vinyl acetate	ND		25	2.0	ug/L			10/20/15 15:01	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/20/15 15:01	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/20/15 15:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*86*		*78 - 118*		*10/20/15 15:01*	*1*
Dibromofluoromethane	*98*		*81 - 121*		*10/20/15 15:01*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/20/15 15:01*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 13:17	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 13:17	1
Anthracene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 13:17	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 13:17	1
Benzo[a]pyrene	**0.059**	**J**	0.20	0.040	ug/L		10/12/15 11:00	10/14/15 13:17	1
Benzo[b]fluoranthene	**0.054**	**J**	0.20	0.040	ug/L		10/12/15 11:00	10/14/15 13:17	1
Benzo[g,h,i]perylene	**0.049**	**J**	0.20	0.040	ug/L		10/12/15 11:00	10/14/15 13:17	1
Benzo[k]fluoranthene	**0.047**	**J**	0.20	0.040	ug/L		10/12/15 11:00	10/14/15 13:17	1
Chrysene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 13:17	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 13:17	1
Fluoranthene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 13:17	1
Fluorene	ND		0.20	0.021	ug/L		10/12/15 11:00	10/14/15 13:17	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 13:17	1
1-Methylnaphthalene	**0.081**	**J**	0.20	0.020	ug/L		10/12/15 11:00	10/14/15 13:17	1
2-Methylnaphthalene	**0.12**	**J** J	0.20	0.020	ug/L		10/12/15 11:00	10/14/15 13:17	1
Phenanthrene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 13:17	1
Pyrene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*101*		*15 - 122*	*10/12/15 11:00*	*10/14/15 13:17*	*1*
Nitrobenzene-d5	*109*		*19 - 130*	*10/12/15 11:00*	*10/14/15 13:17*	*1*

Client Sample ID: MW6D-ROX-100715

Date Collected: 10/07/15 09:40
Date Received: 10/08/15 10:05

Lab Sample ID: 400-112171-3

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	133		33 - 138	10/12/15 11:00	10/14/15 13:17	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/12/15 11:00	10/13/15 17:41	1
Benzenethiol	ND		10	1.7	ug/L		10/12/15 11:00	10/13/15 17:41	1
Benzoic acid	ND	*	30	7.3	ug/L		10/12/15 11:00	10/13/15 17:41	1
Benzyl alcohol	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 17:41	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/12/15 11:00	10/13/15 17:41	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/12/15 11:00	10/13/15 17:41	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/12/15 11:00	10/13/15 17:41	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/12/15 11:00	10/13/15 17:41	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/12/15 11:00	10/13/15 17:41	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/12/15 11:00	10/13/15 17:41	1
4-Chloroaniline	ND		10	3.4	ug/L		10/12/15 11:00	10/13/15 17:41	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/12/15 11:00	10/13/15 17:41	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/12/15 11:00	10/13/15 17:41	1
2-Chlorophenol	ND		10	2.2	ug/L		10/12/15 11:00	10/13/15 17:41	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 17:41	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/12/15 11:00	10/13/15 17:41	1
Dibenzofuran	ND		10	0.52	ug/L		10/12/15 11:00	10/13/15 17:41	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/12/15 11:00	10/13/15 17:41	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/12/15 11:00	10/13/15 17:41	1
Diethyl phthalate	ND		10	0.70	ug/L		10/12/15 11:00	10/13/15 17:41	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 17:41	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/12/15 11:00	10/13/15 17:41	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/12/15 11:00	10/13/15 17:41	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 17:41	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/12/15 11:00	10/13/15 17:41	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 11:00	10/13/15 17:41	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 11:00	10/13/15 17:41	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/12/15 11:00	10/13/15 17:41	1
1,4-Dioxane	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 17:41	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 17:41	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/12/15 11:00	10/13/15 17:41	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/12/15 11:00	10/13/15 17:41	1
Hexachloroethane	ND		10	4.2	ug/L		10/12/15 11:00	10/13/15 17:41	1
Indene	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 17:41	1
Isophorone	ND		10	0.57	ug/L		10/12/15 11:00	10/13/15 17:41	1
2-Methylphenol	ND		10	1.8	ug/L		10/12/15 11:00	10/13/15 17:41	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/12/15 11:00	10/13/15 17:41	1
2-Nitroaniline	ND		10	2.2	ug/L		10/12/15 11:00	10/13/15 17:41	1
3-Nitroaniline	ND		10	1.8	ug/L		10/12/15 11:00	10/13/15 17:41	1
4-Nitroaniline	ND		10	2.5	ug/L		10/12/15 11:00	10/13/15 17:41	1
Nitrobenzene	ND		10	0.55	ug/L		10/12/15 11:00	10/13/15 17:41	1
2-Nitrophenol	ND		10	0.65	ug/L		10/12/15 11:00	10/13/15 17:41	1
4-Nitrophenol	ND		10	2.1	ug/L		10/12/15 11:00	10/13/15 17:41	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 17:41	1

Client Sample ID: MW6D-ROX-100715
Date Collected: 10/07/15 09:40
Date Received: 10/08/15 10:05

Lab Sample ID: 400-112171-3
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/12/15 11:00	10/13/15 17:41	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/12/15 11:00	10/13/15 17:41	1
Pentachlorophenol	ND		20	1.8	ug/L		10/12/15 11:00	10/13/15 17:41	1
Phenol	ND		10	2.6	ug/L		10/12/15 11:00	10/13/15 17:41	1
Pyridine	ND		10	3.2	ug/L		10/12/15 11:00	10/13/15 17:41	1
Quinoline	ND		10	6.0	ug/L		10/12/15 11:00	10/13/15 17:41	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/12/15 11:00	10/13/15 17:41	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*91*		*34 - 120*	*10/12/15 11:00*	*10/13/15 17:41*	*1*
2-Fluorophenol	*70*		*10 - 120*	*10/12/15 11:00*	*10/13/15 17:41*	*1*
Nitrobenzene-d5	*102*		*27 - 120*	*10/12/15 11:00*	*10/13/15 17:41*	*1*
Phenol-d5	*78*		*10 - 120*	*10/12/15 11:00*	*10/13/15 17:41*	*1*
Terphenyl-d14	*104*		*53 - 125*	*10/12/15 11:00*	*10/13/15 17:41*	*1*
2,4,6-Tribromophenol	*99*		*15 - 135*	*10/12/15 11:00*	*10/13/15 17:41*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.029	0.0054	ug/L		10/13/15 16:23	10/14/15 19:54	1
1,2-Dibromoethane	ND		0.020	0.0049	ug/L		10/13/15 16:23	10/14/15 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*112*		*51 - 149*	*10/13/15 16:23*	*10/14/15 19:54*	*1*

Client Sample ID: MW6C-ROX-100715

Date Collected: 10/07/15 10:30
Date Received: 10/08/15 10:05

Lab Sample ID: 400-112171-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/20/15 15:25	1
Acrolein	ND		20	10	ug/L			10/20/15 15:25	1
Acrylonitrile	ND		10	2.8	ug/L			10/20/15 15:25	1
Benzene	ND		1.0	0.38	ug/L			10/20/15 15:25	1
Bromobenzene	ND		1.0	0.54	ug/L			10/20/15 15:25	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/20/15 15:25	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/20/15 15:25	1
Bromoform	ND		5.0	0.71	ug/L			10/20/15 15:25	1
Bromomethane	ND		1.0	0.98	ug/L			10/20/15 15:25	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/20/15 15:25	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/20/15 15:25	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/20/15 15:25	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/20/15 15:25	1
Chloroethane	ND		1.0	0.76	ug/L			10/20/15 15:25	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/20/15 15:25	1
Chloroform	ND		1.0	0.60	ug/L			10/20/15 15:25	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/20/15 15:25	1
Chloromethane	ND		1.0	0.83	ug/L			10/20/15 15:25	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/20/15 15:25	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/20/15 15:25	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/20/15 15:25	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/20/15 15:25	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/20/15 15:25	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/20/15 15:25	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/20/15 15:25	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/20/15 15:25	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/20/15 15:25	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/20/15 15:25	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/20/15 15:25	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/20/15 15:25	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/20/15 15:25	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/20/15 15:25	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/20/15 15:25	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/20/15 15:25	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/20/15 15:25	1
2-Hexanone	ND		25	3.1	ug/L			10/20/15 15:25	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/20/15 15:25	1
4-Isopropyltoluene	ND		1.0	0.71	ug/L			10/20/15 15:25	1
Methylene bromide	ND		5.0	0.59	ug/L			10/20/15 15:25	1
Methylene chloride	ND		5.0	3.0	ug/L			10/20/15 15:25	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/20/15 15:25	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/20/15 15:25	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/20/15 15:25	1
Naphthalene	ND		1.0	1.0	ug/L			10/20/15 15:25	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/20/15 15:25	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/20/15 15:25	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/20/15 15:25	1
o-Xylene	ND		5.0	0.60	ug/L			10/20/15 15:25	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/20/15 15:25	1

Client Sample ID: MW6C-ROX-100715

Date Collected: 10/07/15 10:30
Date Received: 10/08/15 10:05

Lab Sample ID: 400-112171-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/20/15 15:25	1
Styrene	ND		1.0	1.0	ug/L			10/20/15 15:25	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/20/15 15:25	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/20/15 15:25	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/20/15 15:25	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/20/15 15:25	1
Toluene	ND		1.0	0.70	ug/L			10/20/15 15:25	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/20/15 15:25	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/20/15 15:25	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/20/15 15:25	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/20/15 15:25	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/20/15 15:25	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/20/15 15:25	1
Trichloroethene	ND		1.0	0.50	ug/L			10/20/15 15:25	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/20/15 15:25	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/20/15 15:25	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/20/15 15:25	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/20/15 15:25	1
Vinyl acetate	ND		25	2.0	ug/L			10/20/15 15:25	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/20/15 15:25	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/20/15 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*87*		*78 - 118*		*10/20/15 15:25*	*1*
Dibromofluoromethane	*100*		*81 - 121*		*10/20/15 15:25*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/20/15 15:25*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 13:54	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 13:54	1
Anthracene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 13:54	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 13:54	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 13:54	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 13:54	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 13:54	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 13:54	1
Chrysene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 13:54	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 13:54	1
Fluoranthene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 13:54	1
Fluorene	ND		0.20	0.021	ug/L		10/12/15 11:00	10/14/15 13:54	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 13:54	1
1-Methylnaphthalene	**0.056**	J	0.20	0.020	ug/L		10/12/15 11:00	10/14/15 13:54	1
2-Methylnaphthalene	**0.083**	J J	0.20	0.020	ug/L		10/12/15 11:00	10/14/15 13:54	1
Phenanthrene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 13:54	1
Pyrene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*91*		*15 - 122*	*10/12/15 11:00*	*10/14/15 13:54*	*1*
Nitrobenzene-d5	*93*		*19 - 130*	*10/12/15 11:00*	*10/14/15 13:54*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112171-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: MW6C-ROX-100715
Date Collected: 10/07/15 10:30
Date Received: 10/08/15 10:05

Lab Sample ID: 400-112171-4
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	90		33 - 138	10/12/15 11:00	10/14/15 13:54	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/12/15 11:00	10/13/15 18:21	1
Benzenethiol	ND		10	1.7	ug/L		10/12/15 11:00	10/13/15 18:21	1
Benzoic acid	ND	*	30	7.3	ug/L		10/12/15 11:00	10/13/15 18:21	1
Benzyl alcohol	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 18:21	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/12/15 11:00	10/13/15 18:21	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/12/15 11:00	10/13/15 18:21	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/12/15 11:00	10/13/15 18:21	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/12/15 11:00	10/13/15 18:21	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/12/15 11:00	10/13/15 18:21	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/12/15 11:00	10/13/15 18:21	1
4-Chloroaniline	ND		10	3.4	ug/L		10/12/15 11:00	10/13/15 18:21	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/12/15 11:00	10/13/15 18:21	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/12/15 11:00	10/13/15 18:21	1
2-Chlorophenol	ND		10	2.2	ug/L		10/12/15 11:00	10/13/15 18:21	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 18:21	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/12/15 11:00	10/13/15 18:21	1
Dibenzofuran	ND		10	0.52	ug/L		10/12/15 11:00	10/13/15 18:21	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/12/15 11:00	10/13/15 18:21	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/12/15 11:00	10/13/15 18:21	1
Diethyl phthalate	ND		10	0.70	ug/L		10/12/15 11:00	10/13/15 18:21	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 18:21	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/12/15 11:00	10/13/15 18:21	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/12/15 11:00	10/13/15 18:21	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 18:21	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/12/15 11:00	10/13/15 18:21	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 11:00	10/13/15 18:21	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 11:00	10/13/15 18:21	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/12/15 11:00	10/13/15 18:21	1
1,4-Dioxane	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 18:21	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 18:21	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/12/15 11:00	10/13/15 18:21	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/12/15 11:00	10/13/15 18:21	1
Hexachloroethane	ND		10	4.2	ug/L		10/12/15 11:00	10/13/15 18:21	1
Indene	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 18:21	1
Isophorone	ND		10	0.57	ug/L		10/12/15 11:00	10/13/15 18:21	1
2-Methylphenol	ND		10	1.8	ug/L		10/12/15 11:00	10/13/15 18:21	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/12/15 11:00	10/13/15 18:21	1
2-Nitroaniline	ND		10	2.2	ug/L		10/12/15 11:00	10/13/15 18:21	1
3-Nitroaniline	ND		10	1.8	ug/L		10/12/15 11:00	10/13/15 18:21	1
4-Nitroaniline	ND		10	2.5	ug/L		10/12/15 11:00	10/13/15 18:21	1
Nitrobenzene	ND		10	0.55	ug/L		10/12/15 11:00	10/13/15 18:21	1
2-Nitrophenol	ND		10	0.65	ug/L		10/12/15 11:00	10/13/15 18:21	1
4-Nitrophenol	ND		10	2.1	ug/L		10/12/15 11:00	10/13/15 18:21	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 18:21	1

Client Sample ID: MW6C-ROX-100715

Date Collected: 10/07/15 10:30
Date Received: 10/08/15 10:05

Lab Sample ID: 400-112171-4

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/12/15 11:00	10/13/15 18:21	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/12/15 11:00	10/13/15 18:21	1
Pentachlorophenol	ND		20	1.8	ug/L		10/12/15 11:00	10/13/15 18:21	1
Phenol	ND		10	2.6	ug/L		10/12/15 11:00	10/13/15 18:21	1
Pyridine	ND		10	3.2	ug/L		10/12/15 11:00	10/13/15 18:21	1
Quinoline	ND		10	6.0	ug/L		10/12/15 11:00	10/13/15 18:21	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/12/15 11:00	10/13/15 18:21	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*34 - 120*	*10/12/15 11:00*	*10/13/15 18:21*	*1*
2-Fluorophenol	*37*		*10 - 120*	*10/12/15 11:00*	*10/13/15 18:21*	*1*
Nitrobenzene-d5	*80*		*27 - 120*	*10/12/15 11:00*	*10/13/15 18:21*	*1*
Phenol-d5	*41*		*10 - 120*	*10/12/15 11:00*	*10/13/15 18:21*	*1*
Terphenyl-d14	*70*		*53 - 125*	*10/12/15 11:00*	*10/13/15 18:21*	*1*
2,4,6-Tribromophenol	*59*		*15 - 135*	*10/12/15 11:00*	*10/13/15 18:21*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0054	ug/L		10/13/15 16:23	10/14/15 20:24	1
1,2-Dibromoethane	ND		0.020	0.0049	ug/L		10/13/15 16:23	10/14/15 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*125*		*51 - 149*	*10/13/15 16:23*	*10/14/15 20:24*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112171-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: MW6B-ROX-100715
Date Collected: 10/07/15 11:20
Date Received: 10/08/15 10:05

Lab Sample ID: 400-112171-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/20/15 15:50	1
Acrolein	ND		20	10	ug/L			10/20/15 15:50	1
Acrylonitrile	ND		10	2.8	ug/L			10/20/15 15:50	1
Benzene	ND		1.0	0.38	ug/L			10/20/15 15:50	1
Bromobenzene	ND		1.0	0.54	ug/L			10/20/15 15:50	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/20/15 15:50	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/20/15 15:50	1
Bromoform	ND		5.0	0.71	ug/L			10/20/15 15:50	1
Bromomethane	ND		1.0	0.98	ug/L			10/20/15 15:50	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/20/15 15:50	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/20/15 15:50	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/20/15 15:50	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/20/15 15:50	1
Chloroethane	ND		1.0	0.76	ug/L			10/20/15 15:50	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/20/15 15:50	1
Chloroform	ND		1.0	0.60	ug/L			10/20/15 15:50	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/20/15 15:50	1
Chloromethane	ND		1.0	0.83	ug/L			10/20/15 15:50	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/20/15 15:50	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/20/15 15:50	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/20/15 15:50	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/20/15 15:50	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/20/15 15:50	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/20/15 15:50	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/20/15 15:50	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/20/15 15:50	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/20/15 15:50	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/20/15 15:50	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/20/15 15:50	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/20/15 15:50	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/20/15 15:50	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/20/15 15:50	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/20/15 15:50	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/20/15 15:50	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/20/15 15:50	1
2-Hexanone	ND		25	3.1	ug/L			10/20/15 15:50	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/20/15 15:50	1
4-Isopropyltoluene	ND		1.0	0.71	ug/L			10/20/15 15:50	1
Methylene bromide	ND		5.0	0.59	ug/L			10/20/15 15:50	1
Methylene chloride	ND		5.0	3.0	ug/L			10/20/15 15:50	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/20/15 15:50	1
Methyl tert-butyl ether	**3.0**		1.0	0.74	ug/L			10/20/15 15:50	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/20/15 15:50	1
Naphthalene	ND		1.0	1.0	ug/L			10/20/15 15:50	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/20/15 15:50	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/20/15 15:50	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/20/15 15:50	1
o-Xylene	ND		5.0	0.60	ug/L			10/20/15 15:50	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/20/15 15:50	1

Client Sample ID: MW6B-ROX-100715
Date Collected: 10/07/15 11:20
Date Received: 10/08/15 10:05

Lab Sample ID: 400-112171-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/20/15 15:50	1
Styrene	ND		1.0	1.0	ug/L			10/20/15 15:50	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/20/15 15:50	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/20/15 15:50	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/20/15 15:50	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/20/15 15:50	1
Toluene	ND		1.0	0.70	ug/L			10/20/15 15:50	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/20/15 15:50	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/20/15 15:50	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/20/15 15:50	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/20/15 15:50	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/20/15 15:50	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/20/15 15:50	1
Trichloroethene	ND		1.0	0.50	ug/L			10/20/15 15:50	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/20/15 15:50	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/20/15 15:50	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/20/15 15:50	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/20/15 15:50	1
Vinyl acetate	ND		25	2.0	ug/L			10/20/15 15:50	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/20/15 15:50	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/20/15 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*78 - 118*		*10/20/15 15:50*	*1*
Dibromofluoromethane	*98*		*81 - 121*		*10/20/15 15:50*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/20/15 15:50*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/12/15 14:11	10/14/15 14:31	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/12/15 14:11	10/14/15 14:31	1
Anthracene	ND		0.20	0.020	ug/L		10/12/15 14:11	10/14/15 14:31	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 14:31	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 14:31	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 14:31	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 14:31	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 14:31	1
Chrysene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 14:31	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 14:31	1
Fluoranthene	ND		0.20	0.020	ug/L		10/12/15 14:11	10/14/15 14:31	1
Fluorene	ND		0.20	0.021	ug/L		10/12/15 14:11	10/14/15 14:31	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 14:31	1
1-Methylnaphthalene	**0.059**	J	0.20	0.020	ug/L		10/12/15 14:11	10/14/15 14:31	1
2-Methylnaphthalene	**0.088**	J J	0.20	0.020	ug/L		10/12/15 14:11	10/14/15 14:31	1
Phenanthrene	ND		0.20	0.020	ug/L		10/12/15 14:11	10/14/15 14:31	1
Pyrene	ND		0.20	0.020	ug/L		10/12/15 14:11	10/14/15 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*108*		*15 - 122*	*10/12/15 14:11*	*10/14/15 14:31*	*1*
Nitrobenzene-d5	*114*		*19 - 130*	*10/12/15 14:11*	*10/14/15 14:31*	*1*

Client Sample ID: MW6B-ROX-100715

Date Collected: 10/07/15 11:20
Date Received: 10/08/15 10:05

Lab Sample ID: 400-112171-5

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*119*		*33 - 138*	*10/12/15 14:11*	*10/14/15 14:31*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/12/15 14:11	10/13/15 19:01	1
Benzenethiol	ND		10	1.7	ug/L		10/12/15 14:11	10/13/15 19:01	1
Benzoic acid	ND	*	30	7.3	ug/L		10/12/15 14:11	10/13/15 19:01	1
Benzyl alcohol	ND		10	2.0	ug/L		10/12/15 14:11	10/13/15 19:01	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/12/15 14:11	10/13/15 19:01	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/12/15 14:11	10/13/15 19:01	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/12/15 14:11	10/13/15 19:01	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/12/15 14:11	10/13/15 19:01	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/12/15 14:11	10/13/15 19:01	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/12/15 14:11	10/13/15 19:01	1
4-Chloroaniline	ND		10	3.4	ug/L		10/12/15 14:11	10/13/15 19:01	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/12/15 14:11	10/13/15 19:01	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/12/15 14:11	10/13/15 19:01	1
2-Chlorophenol	ND		10	2.2	ug/L		10/12/15 14:11	10/13/15 19:01	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/12/15 14:11	10/13/15 19:01	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/12/15 14:11	10/13/15 19:01	1
Dibenzofuran	ND		10	0.52	ug/L		10/12/15 14:11	10/13/15 19:01	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/12/15 14:11	10/13/15 19:01	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/12/15 14:11	10/13/15 19:01	1
Diethyl phthalate	ND		10	0.70	ug/L		10/12/15 14:11	10/13/15 19:01	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/12/15 14:11	10/13/15 19:01	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/12/15 14:11	10/13/15 19:01	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/12/15 14:11	10/13/15 19:01	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/12/15 14:11	10/13/15 19:01	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/12/15 14:11	10/13/15 19:01	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 14:11	10/13/15 19:01	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 14:11	10/13/15 19:01	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/12/15 14:11	10/13/15 19:01	1
1,4-Dioxane	ND		10	1.0	ug/L		10/12/15 14:11	10/13/15 19:01	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/12/15 14:11	10/13/15 19:01	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/12/15 14:11	10/13/15 19:01	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/12/15 14:11	10/13/15 19:01	1
Hexachloroethane	ND		10	4.2	ug/L		10/12/15 14:11	10/13/15 19:01	1
Indene	ND		10	1.0	ug/L		10/12/15 14:11	10/13/15 19:01	1
Isophorone	ND		10	0.57	ug/L		10/12/15 14:11	10/13/15 19:01	1
2-Methylphenol	ND		10	1.8	ug/L		10/12/15 14:11	10/13/15 19:01	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/12/15 14:11	10/13/15 19:01	1
2-Nitroaniline	ND		10	2.2	ug/L		10/12/15 14:11	10/13/15 19:01	1
3-Nitroaniline	ND		10	1.8	ug/L		10/12/15 14:11	10/13/15 19:01	1
4-Nitroaniline	ND		10	2.5	ug/L		10/12/15 14:11	10/13/15 19:01	1
Nitrobenzene	ND		10	0.55	ug/L		10/12/15 14:11	10/13/15 19:01	1
2-Nitrophenol	ND		10	0.65	ug/L		10/12/15 14:11	10/13/15 19:01	1
4-Nitrophenol	ND		10	2.1	ug/L		10/12/15 14:11	10/13/15 19:01	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/12/15 14:11	10/13/15 19:01	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112171-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: MW6B-ROX-100715
Date Collected: 10/07/15 11:20
Date Received: 10/08/15 10:05

Lab Sample ID: 400-112171-5
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/12/15 14:11	10/13/15 19:01	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/12/15 14:11	10/13/15 19:01	1
Pentachlorophenol	ND		20	1.8	ug/L		10/12/15 14:11	10/13/15 19:01	1
Phenol	ND		10	2.6	ug/L		10/12/15 14:11	10/13/15 19:01	1
Pyridine	ND		10	3.2	ug/L		10/12/15 14:11	10/13/15 19:01	1
Quinoline	ND		10	6.0	ug/L		10/12/15 14:11	10/13/15 19:01	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/12/15 14:11	10/13/15 19:01	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/12/15 14:11	10/13/15 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*92*		*34 - 120*	*10/12/15 14:11*	*10/13/15 19:01*	*1*
2-Fluorophenol	*58*		*10 - 120*	*10/12/15 14:11*	*10/13/15 19:01*	*1*
Nitrobenzene-d5	*93*		*27 - 120*	*10/12/15 14:11*	*10/13/15 19:01*	*1*
Phenol-d5	*68*		*10 - 120*	*10/12/15 14:11*	*10/13/15 19:01*	*1*
Terphenyl-d14	*87*		*53 - 125*	*10/12/15 14:11*	*10/13/15 19:01*	*1*
2,4,6-Tribromophenol	*90*		*15 - 135*	*10/12/15 14:11*	*10/13/15 19:01*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.033	0.0061	ug/L		10/13/15 16:23	10/14/15 20:53	1
1,2-Dibromoethane	ND		0.022	0.0056	ug/L		10/13/15 16:23	10/14/15 20:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*51 - 149*	*10/13/15 16:23*	*10/14/15 20:53*	*1*

Client Sample ID: MW6A-ROX-100715EB

Date Collected: 10/07/15 11:45
Date Received: 10/08/15 10:05

Lab Sample ID: 400-112171-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/20/15 16:14	1
Acrolein	ND		20	10	ug/L			10/20/15 16:14	1
Acrylonitrile	ND		10	2.8	ug/L			10/20/15 16:14	1
Benzene	ND		1.0	0.38	ug/L			10/20/15 16:14	1
Bromobenzene	ND		1.0	0.54	ug/L			10/20/15 16:14	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/20/15 16:14	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/20/15 16:14	1
Bromoform	ND		5.0	0.71	ug/L			10/20/15 16:14	1
Bromomethane	ND		1.0	0.98	ug/L			10/20/15 16:14	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/20/15 16:14	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/20/15 16:14	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/20/15 16:14	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/20/15 16:14	1
Chloroethane	ND		1.0	0.76	ug/L			10/20/15 16:14	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/20/15 16:14	1
Chloroform	ND		1.0	0.60	ug/L			10/20/15 16:14	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/20/15 16:14	1
Chloromethane	ND		1.0	0.83	ug/L			10/20/15 16:14	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/20/15 16:14	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/20/15 16:14	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/20/15 16:14	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/20/15 16:14	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/20/15 16:14	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/20/15 16:14	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/20/15 16:14	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/20/15 16:14	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/20/15 16:14	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/20/15 16:14	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/20/15 16:14	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/20/15 16:14	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/20/15 16:14	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/20/15 16:14	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/20/15 16:14	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/20/15 16:14	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/20/15 16:14	1
2-Hexanone	ND		25	3.1	ug/L			10/20/15 16:14	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/20/15 16:14	1
4-Isopropyltoluene	ND		1.0	0.71	ug/L			10/20/15 16:14	1
Methylene bromide	ND		5.0	0.59	ug/L			10/20/15 16:14	1
Methylene chloride	ND		5.0	3.0	ug/L			10/20/15 16:14	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/20/15 16:14	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/20/15 16:14	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/20/15 16:14	1
Naphthalene	ND		1.0	1.0	ug/L			10/20/15 16:14	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/20/15 16:14	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/20/15 16:14	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/20/15 16:14	1
o-Xylene	ND		5.0	0.60	ug/L			10/20/15 16:14	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/20/15 16:14	1

Client Sample ID: MW6A-ROX-100715EB

Date Collected: 10/07/15 11:45
Date Received: 10/08/15 10:05

Lab Sample ID: 400-112171-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/20/15 16:14	1
Styrene	ND		1.0	1.0	ug/L			10/20/15 16:14	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/20/15 16:14	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/20/15 16:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/20/15 16:14	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/20/15 16:14	1
Toluene	ND		1.0	0.70	ug/L			10/20/15 16:14	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/20/15 16:14	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/20/15 16:14	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/20/15 16:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/20/15 16:14	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/20/15 16:14	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/20/15 16:14	1
Trichloroethene	ND		1.0	0.50	ug/L			10/20/15 16:14	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/20/15 16:14	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/20/15 16:14	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/20/15 16:14	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/20/15 16:14	1
Vinyl acetate	ND		25	2.0	ug/L			10/20/15 16:14	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/20/15 16:14	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/20/15 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*78 - 118*		*10/20/15 16:14*	*1*
Dibromofluoromethane	*97*		*81 - 121*		*10/20/15 16:14*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/20/15 16:14*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/12/15 14:11	10/14/15 15:08	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/12/15 14:11	10/14/15 15:08	1
Anthracene	ND		0.20	0.020	ug/L		10/12/15 14:11	10/14/15 15:08	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 15:08	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 15:08	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 15:08	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 15:08	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 15:08	1
Chrysene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 15:08	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 15:08	1
Fluoranthene	ND		0.20	0.020	ug/L		10/12/15 14:11	10/14/15 15:08	1
Fluorene	ND		0.20	0.021	ug/L		10/12/15 14:11	10/14/15 15:08	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 15:08	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/12/15 14:11	10/14/15 15:08	1
2-Methylnaphthalene	0.031	J	0.20	0.020	ug/L		10/12/15 14:11	10/14/15 15:08	1
Phenanthrene	ND		0.20	0.020	ug/L		10/12/15 14:11	10/14/15 15:08	1
Pyrene	ND		0.20	0.020	ug/L		10/12/15 14:11	10/14/15 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*15 - 122*	*10/12/15 14:11*	*10/14/15 15:08*	*1*
Nitrobenzene-d5	*87*		*19 - 130*	*10/12/15 14:11*	*10/14/15 15:08*	*1*

Client Sample ID: MW6A-ROX-100715EB

Date Collected: 10/07/15 11:45
Date Received: 10/08/15 10:05

Lab Sample ID: 400-112171-6

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*129*		*33 - 138*	*10/12/15 14:11*	*10/14/15 15:08*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/12/15 14:11	10/13/15 19:42	1
Benzenethiol	ND		10	1.7	ug/L		10/12/15 14:11	10/13/15 19:42	1
Benzoic acid	ND	*	30	7.3	ug/L		10/12/15 14:11	10/13/15 19:42	1
Benzyl alcohol	ND		10	2.0	ug/L		10/12/15 14:11	10/13/15 19:42	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/12/15 14:11	10/13/15 19:42	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/12/15 14:11	10/13/15 19:42	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/12/15 14:11	10/13/15 19:42	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/12/15 14:11	10/13/15 19:42	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/12/15 14:11	10/13/15 19:42	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/12/15 14:11	10/13/15 19:42	1
4-Chloroaniline	ND		10	3.4	ug/L		10/12/15 14:11	10/13/15 19:42	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/12/15 14:11	10/13/15 19:42	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/12/15 14:11	10/13/15 19:42	1
2-Chlorophenol	ND		10	2.2	ug/L		10/12/15 14:11	10/13/15 19:42	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/12/15 14:11	10/13/15 19:42	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/12/15 14:11	10/13/15 19:42	1
Dibenzofuran	ND		10	0.52	ug/L		10/12/15 14:11	10/13/15 19:42	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/12/15 14:11	10/13/15 19:42	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/12/15 14:11	10/13/15 19:42	1
Diethyl phthalate	ND		10	0.70	ug/L		10/12/15 14:11	10/13/15 19:42	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/12/15 14:11	10/13/15 19:42	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/12/15 14:11	10/13/15 19:42	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/12/15 14:11	10/13/15 19:42	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/12/15 14:11	10/13/15 19:42	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/12/15 14:11	10/13/15 19:42	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 14:11	10/13/15 19:42	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 14:11	10/13/15 19:42	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/12/15 14:11	10/13/15 19:42	1
1,4-Dioxane	ND		10	1.0	ug/L		10/12/15 14:11	10/13/15 19:42	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/12/15 14:11	10/13/15 19:42	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/12/15 14:11	10/13/15 19:42	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/12/15 14:11	10/13/15 19:42	1
Hexachloroethane	ND		10	4.2	ug/L		10/12/15 14:11	10/13/15 19:42	1
Indene	ND		10	1.0	ug/L		10/12/15 14:11	10/13/15 19:42	1
Isophorone	ND		10	0.57	ug/L		10/12/15 14:11	10/13/15 19:42	1
2-Methylphenol	ND		10	1.8	ug/L		10/12/15 14:11	10/13/15 19:42	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/12/15 14:11	10/13/15 19:42	1
2-Nitroaniline	ND		10	2.2	ug/L		10/12/15 14:11	10/13/15 19:42	1
3-Nitroaniline	ND		10	1.8	ug/L		10/12/15 14:11	10/13/15 19:42	1
4-Nitroaniline	ND		10	2.5	ug/L		10/12/15 14:11	10/13/15 19:42	1
Nitrobenzene	ND		10	0.55	ug/L		10/12/15 14:11	10/13/15 19:42	1
2-Nitrophenol	ND		10	0.65	ug/L		10/12/15 14:11	10/13/15 19:42	1
4-Nitrophenol	ND		10	2.1	ug/L		10/12/15 14:11	10/13/15 19:42	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/12/15 14:11	10/13/15 19:42	1

Client Sample ID: MW6A-ROX-100715EB

Date Collected: 10/07/15 11:45
Date Received: 10/08/15 10:05

Lab Sample ID: 400-112171-6

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/12/15 14:11	10/13/15 19:42	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/12/15 14:11	10/13/15 19:42	1
Pentachlorophenol	ND		20	1.8	ug/L		10/12/15 14:11	10/13/15 19:42	1
Phenol	ND		10	2.6	ug/L		10/12/15 14:11	10/13/15 19:42	1
Pyridine	ND		10	3.2	ug/L		10/12/15 14:11	10/13/15 19:42	1
Quinoline	ND		10	6.0	ug/L		10/12/15 14:11	10/13/15 19:42	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/12/15 14:11	10/13/15 19:42	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/12/15 14:11	10/13/15 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*34 - 120*	*10/12/15 14:11*	*10/13/15 19:42*	*1*
2-Fluorophenol	*63*		*10 - 120*	*10/12/15 14:11*	*10/13/15 19:42*	*1*
Nitrobenzene-d5	*82*		*27 - 120*	*10/12/15 14:11*	*10/13/15 19:42*	*1*
Phenol-d5	*69*		*10 - 120*	*10/12/15 14:11*	*10/13/15 19:42*	*1*
Terphenyl-d14	*96*		*53 - 125*	*10/12/15 14:11*	*10/13/15 19:42*	*1*
2,4,6-Tribromophenol	*93*		*15 - 135*	*10/12/15 14:11*	*10/13/15 19:42*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/13/15 16:23	10/14/15 21:23	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/13/15 16:23	10/14/15 21:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*51 - 149*	*10/13/15 16:23*	*10/14/15 21:23*	*1*

Client Sample ID: MW6A-ROX-100715

Date Collected: 10/07/15 12:15
Date Received: 10/08/15 10:05

Lab Sample ID: 400-112171-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/20/15 16:40	1
Acrolein	ND		20	10	ug/L			10/20/15 16:40	1
Acrylonitrile	ND		10	2.8	ug/L			10/20/15 16:40	1
Benzene	ND		1.0	0.38	ug/L			10/20/15 16:40	1
Bromobenzene	ND		1.0	0.54	ug/L			10/20/15 16:40	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/20/15 16:40	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/20/15 16:40	1
Bromoform	ND		5.0	0.71	ug/L			10/20/15 16:40	1
Bromomethane	ND		1.0	0.98	ug/L			10/20/15 16:40	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/20/15 16:40	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/20/15 16:40	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/20/15 16:40	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/20/15 16:40	1
Chloroethane	ND		1.0	0.76	ug/L			10/20/15 16:40	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/20/15 16:40	1
Chloroform	ND		1.0	0.60	ug/L			10/20/15 16:40	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/20/15 16:40	1
Chloromethane	ND		1.0	0.83	ug/L			10/20/15 16:40	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/20/15 16:40	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/20/15 16:40	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/20/15 16:40	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/20/15 16:40	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/20/15 16:40	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/20/15 16:40	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/20/15 16:40	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/20/15 16:40	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/20/15 16:40	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/20/15 16:40	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/20/15 16:40	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/20/15 16:40	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/20/15 16:40	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/20/15 16:40	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/20/15 16:40	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/20/15 16:40	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/20/15 16:40	1
2-Hexanone	ND		25	3.1	ug/L			10/20/15 16:40	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/20/15 16:40	1
4-Isopropyltoluene	ND		1.0	0.71	ug/L			10/20/15 16:40	1
Methylene bromide	ND		5.0	0.59	ug/L			10/20/15 16:40	1
Methylene chloride	ND		5.0	3.0	ug/L			10/20/15 16:40	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/20/15 16:40	1
Methyl tert-butyl ether	**5.3**		1.0	0.74	ug/L			10/20/15 16:40	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/20/15 16:40	1
Naphthalene	ND		1.0	1.0	ug/L			10/20/15 16:40	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/20/15 16:40	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/20/15 16:40	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/20/15 16:40	1
o-Xylene	ND		5.0	0.60	ug/L			10/20/15 16:40	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/20/15 16:40	1

Client Sample ID: MW6A-ROX-100715

Date Collected: 10/07/15 12:15
Date Received: 10/08/15 10:05

Lab Sample ID: 400-112171-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/20/15 16:40	1
Styrene	ND		1.0	1.0	ug/L			10/20/15 16:40	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/20/15 16:40	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/20/15 16:40	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/20/15 16:40	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/20/15 16:40	1
Toluene	ND		1.0	0.70	ug/L			10/20/15 16:40	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/20/15 16:40	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/20/15 16:40	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/20/15 16:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/20/15 16:40	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/20/15 16:40	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/20/15 16:40	1
Trichloroethene	ND		1.0	0.50	ug/L			10/20/15 16:40	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/20/15 16:40	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/20/15 16:40	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/20/15 16:40	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/20/15 16:40	1
Vinyl acetate	ND		25	2.0	ug/L			10/20/15 16:40	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/20/15 16:40	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/20/15 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*78 - 118*		*10/20/15 16:40*	*1*
Dibromofluoromethane	*99*		*81 - 121*		*10/20/15 16:40*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/20/15 16:40*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/12/15 14:11	10/14/15 15:46	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/12/15 14:11	10/14/15 15:46	1
Anthracene	ND		0.20	0.020	ug/L		10/12/15 14:11	10/14/15 15:46	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 15:46	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 15:46	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 15:46	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 15:46	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 15:46	1
Chrysene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 15:46	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 15:46	1
Fluoranthene	ND		0.20	0.020	ug/L		10/12/15 14:11	10/14/15 15:46	1
Fluorene	ND		0.20	0.021	ug/L		10/12/15 14:11	10/14/15 15:46	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 15:46	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/12/15 14:11	10/14/15 15:46	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/12/15 14:11	10/14/15 15:46	1
Phenanthrene	ND		0.20	0.020	ug/L		10/12/15 14:11	10/14/15 15:46	1
Pyrene	ND		0.20	0.020	ug/L		10/12/15 14:11	10/14/15 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*110*		*15 - 122*	*10/12/15 14:11*	*10/14/15 15:46*	*1*
Nitrobenzene-d5	*119*		*19 - 130*	*10/12/15 14:11*	*10/14/15 15:46*	*1*

Client Sample ID: MW6A-ROX-100715

Date Collected: 10/07/15 12:15
Date Received: 10/08/15 10:05

Lab Sample ID: 400-112171-7

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	114		33 - 138	10/12/15 14:11	10/14/15 15:46	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/12/15 14:11	10/13/15 20:22	1
Benzenethiol	ND		10	1.7	ug/L		10/12/15 14:11	10/13/15 20:22	1
Benzoic acid	ND	*	30	7.3	ug/L		10/12/15 14:11	10/13/15 20:22	1
Benzyl alcohol	ND		10	2.0	ug/L		10/12/15 14:11	10/13/15 20:22	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/12/15 14:11	10/13/15 20:22	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/12/15 14:11	10/13/15 20:22	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/12/15 14:11	10/13/15 20:22	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/12/15 14:11	10/13/15 20:22	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/12/15 14:11	10/13/15 20:22	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/12/15 14:11	10/13/15 20:22	1
4-Chloroaniline	ND		10	3.4	ug/L		10/12/15 14:11	10/13/15 20:22	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/12/15 14:11	10/13/15 20:22	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/12/15 14:11	10/13/15 20:22	1
2-Chlorophenol	ND		10	2.2	ug/L		10/12/15 14:11	10/13/15 20:22	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/12/15 14:11	10/13/15 20:22	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/12/15 14:11	10/13/15 20:22	1
Dibenzofuran	ND		10	0.52	ug/L		10/12/15 14:11	10/13/15 20:22	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/12/15 14:11	10/13/15 20:22	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/12/15 14:11	10/13/15 20:22	1
Diethyl phthalate	ND		10	0.70	ug/L		10/12/15 14:11	10/13/15 20:22	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/12/15 14:11	10/13/15 20:22	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/12/15 14:11	10/13/15 20:22	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/12/15 14:11	10/13/15 20:22	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/12/15 14:11	10/13/15 20:22	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/12/15 14:11	10/13/15 20:22	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 14:11	10/13/15 20:22	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 14:11	10/13/15 20:22	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/12/15 14:11	10/13/15 20:22	1
1,4-Dioxane	ND		10	1.0	ug/L		10/12/15 14:11	10/13/15 20:22	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/12/15 14:11	10/13/15 20:22	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/12/15 14:11	10/13/15 20:22	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/12/15 14:11	10/13/15 20:22	1
Hexachloroethane	ND		10	4.2	ug/L		10/12/15 14:11	10/13/15 20:22	1
Indene	ND		10	1.0	ug/L		10/12/15 14:11	10/13/15 20:22	1
Isophorone	ND		10	0.57	ug/L		10/12/15 14:11	10/13/15 20:22	1
2-Methylphenol	ND		10	1.8	ug/L		10/12/15 14:11	10/13/15 20:22	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/12/15 14:11	10/13/15 20:22	1
2-Nitroaniline	ND		10	2.2	ug/L		10/12/15 14:11	10/13/15 20:22	1
3-Nitroaniline	ND		10	1.8	ug/L		10/12/15 14:11	10/13/15 20:22	1
4-Nitroaniline	ND		10	2.5	ug/L		10/12/15 14:11	10/13/15 20:22	1
Nitrobenzene	ND		10	0.55	ug/L		10/12/15 14:11	10/13/15 20:22	1
2-Nitrophenol	ND		10	0.65	ug/L		10/12/15 14:11	10/13/15 20:22	1
4-Nitrophenol	ND		10	2.1	ug/L		10/12/15 14:11	10/13/15 20:22	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/12/15 14:11	10/13/15 20:22	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112171-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: MW6A-ROX-100715
Date Collected: 10/07/15 12:15
Date Received: 10/08/15 10:05

Lab Sample ID: 400-112171-7
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/12/15 14:11	10/13/15 20:22	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/12/15 14:11	10/13/15 20:22	1
Pentachlorophenol	ND		20	1.8	ug/L		10/12/15 14:11	10/13/15 20:22	1
Phenol	ND		10	2.6	ug/L		10/12/15 14:11	10/13/15 20:22	1
Pyridine	ND		10	3.2	ug/L		10/12/15 14:11	10/13/15 20:22	1
Quinoline	ND		10	6.0	ug/L		10/12/15 14:11	10/13/15 20:22	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/12/15 14:11	10/13/15 20:22	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/12/15 14:11	10/13/15 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*107*		*34 - 120*	*10/12/15 14:11*	*10/13/15 20:22*	*1*
2-Fluorophenol	*75*		*10 - 120*	*10/12/15 14:11*	*10/13/15 20:22*	*1*
Nitrobenzene-d5	*106*		*27 - 120*	*10/12/15 14:11*	*10/13/15 20:22*	*1*
Phenol-d5	*88*		*10 - 120*	*10/12/15 14:11*	*10/13/15 20:22*	*1*
Terphenyl-d14	*96*		*53 - 125*	*10/12/15 14:11*	*10/13/15 20:22*	*1*
2,4,6-Tribromophenol	*125*		*15 - 135*	*10/12/15 14:11*	*10/13/15 20:22*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.029	0.0053	ug/L		10/13/15 16:23	10/14/15 21:53	1
1,2-Dibromoethane	ND		0.019	0.0049	ug/L		10/13/15 16:23	10/14/15 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*136*		*51 - 149*	*10/13/15 16:23*	*10/14/15 21:53*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112171-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: MW16-ROX-100715
Date Collected: 10/07/15 14:30
Date Received: 10/08/15 10:05

Lab Sample ID: 400-112171-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/20/15 17:06	1
Acrolein	ND		20	10	ug/L			10/20/15 17:06	1
Acrylonitrile	ND		10	2.8	ug/L			10/20/15 17:06	1
Benzene	ND		1.0	0.38	ug/L			10/20/15 17:06	1
Bromobenzene	ND		1.0	0.54	ug/L			10/20/15 17:06	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/20/15 17:06	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/20/15 17:06	1
Bromoform	ND		5.0	0.71	ug/L			10/20/15 17:06	1
Bromomethane	ND		1.0	0.98	ug/L			10/20/15 17:06	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/20/15 17:06	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/20/15 17:06	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/20/15 17:06	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/20/15 17:06	1
Chloroethane	ND		1.0	0.76	ug/L			10/20/15 17:06	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/20/15 17:06	1
Chloroform	ND		1.0	0.60	ug/L			10/20/15 17:06	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/20/15 17:06	1
Chloromethane	ND		1.0	0.83	ug/L			10/20/15 17:06	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/20/15 17:06	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/20/15 17:06	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/20/15 17:06	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/20/15 17:06	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/20/15 17:06	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/20/15 17:06	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/20/15 17:06	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/20/15 17:06	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/20/15 17:06	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/20/15 17:06	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/20/15 17:06	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/20/15 17:06	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/20/15 17:06	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/20/15 17:06	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/20/15 17:06	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/20/15 17:06	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/20/15 17:06	1
2-Hexanone	ND		25	3.1	ug/L			10/20/15 17:06	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/20/15 17:06	1
4-Isopropyltoluene	ND		1.0	0.71	ug/L			10/20/15 17:06	1
Methylene bromide	ND		5.0	0.59	ug/L			10/20/15 17:06	1
Methylene chloride	ND		5.0	3.0	ug/L			10/20/15 17:06	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/20/15 17:06	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/20/15 17:06	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/20/15 17:06	1
Naphthalene	ND		1.0	1.0	ug/L			10/20/15 17:06	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/20/15 17:06	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/20/15 17:06	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/20/15 17:06	1
o-Xylene	ND		5.0	0.60	ug/L			10/20/15 17:06	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/20/15 17:06	1

Client Sample ID: MW16-ROX-100715

Date Collected: 10/07/15 14:30
Date Received: 10/08/15 10:05

Lab Sample ID: 400-112171-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/20/15 17:06	1
Styrene	ND		1.0	1.0	ug/L			10/20/15 17:06	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/20/15 17:06	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/20/15 17:06	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/20/15 17:06	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/20/15 17:06	1
Toluene	ND		1.0	0.70	ug/L			10/20/15 17:06	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/20/15 17:06	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/20/15 17:06	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/20/15 17:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/20/15 17:06	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/20/15 17:06	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/20/15 17:06	1
Trichloroethene	ND		1.0	0.50	ug/L			10/20/15 17:06	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/20/15 17:06	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/20/15 17:06	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/20/15 17:06	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/20/15 17:06	1
Vinyl acetate	ND		25	2.0	ug/L			10/20/15 17:06	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/20/15 17:06	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/20/15 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*78 - 118*		*10/20/15 17:06*	*1*
Dibromofluoromethane	*98*		*81 - 121*		*10/20/15 17:06*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/20/15 17:06*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/12/15 14:11	10/14/15 16:23	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/12/15 14:11	10/14/15 16:23	1
Anthracene	ND		0.20	0.020	ug/L		10/12/15 14:11	10/14/15 16:23	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 16:23	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 16:23	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 16:23	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 16:23	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 16:23	1
Chrysene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 16:23	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 16:23	1
Fluoranthene	ND		0.20	0.020	ug/L		10/12/15 14:11	10/14/15 16:23	1
Fluorene	ND		0.20	0.021	ug/L		10/12/15 14:11	10/14/15 16:23	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 16:23	1
1-Methylnaphthalene	**0.045**	J	0.20	0.020	ug/L		10/12/15 14:11	10/14/15 16:23	1
2-Methylnaphthalene	**0.073**	J	0.20	0.020	ug/L		10/12/15 14:11	10/14/15 16:23	1
Phenanthrene	ND		0.20	0.020	ug/L		10/12/15 14:11	10/14/15 16:23	1
Pyrene	ND		0.20	0.020	ug/L		10/12/15 14:11	10/14/15 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*104*		*15 - 122*	*10/12/15 14:11*	*10/14/15 16:23*	*1*
Nitrobenzene-d5	*100*		*19 - 130*	*10/12/15 14:11*	*10/14/15 16:23*	*1*

Client Sample ID: MW16-ROX-100715

Date Collected: 10/07/15 14:30
Date Received: 10/08/15 10:05

Lab Sample ID: 400-112171-8

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	122		33 - 138	10/12/15 14:11	10/14/15 16:23	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/12/15 14:11	10/13/15 16:10	1
Benzenethiol	ND		10	1.7	ug/L		10/12/15 14:11	10/13/15 16:10	1
Benzoic acid	ND	*	30	7.3	ug/L		10/12/15 14:11	10/13/15 16:10	1
Benzyl alcohol	ND		10	2.0	ug/L		10/12/15 14:11	10/13/15 16:10	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/12/15 14:11	10/13/15 16:10	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/12/15 14:11	10/13/15 16:10	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/12/15 14:11	10/13/15 16:10	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/12/15 14:11	10/13/15 16:10	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/12/15 14:11	10/13/15 16:10	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/12/15 14:11	10/13/15 16:10	1
4-Chloroaniline	ND		10	3.4	ug/L		10/12/15 14:11	10/13/15 16:10	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/12/15 14:11	10/13/15 16:10	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/12/15 14:11	10/13/15 16:10	1
2-Chlorophenol	ND		10	2.2	ug/L		10/12/15 14:11	10/13/15 16:10	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/12/15 14:11	10/13/15 16:10	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/12/15 14:11	10/13/15 16:10	1
Dibenzofuran	ND		10	0.52	ug/L		10/12/15 14:11	10/13/15 16:10	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/12/15 14:11	10/13/15 16:10	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/12/15 14:11	10/13/15 16:10	1
Diethyl phthalate	ND		10	0.70	ug/L		10/12/15 14:11	10/13/15 16:10	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/12/15 14:11	10/13/15 16:10	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/12/15 14:11	10/13/15 16:10	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/12/15 14:11	10/13/15 16:10	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/12/15 14:11	10/13/15 16:10	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/12/15 14:11	10/13/15 16:10	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 14:11	10/13/15 16:10	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 14:11	10/13/15 16:10	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/12/15 14:11	10/13/15 16:10	1
1,4-Dioxane	ND		10	1.0	ug/L		10/12/15 14:11	10/13/15 16:10	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/12/15 14:11	10/13/15 16:10	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/12/15 14:11	10/13/15 16:10	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/12/15 14:11	10/13/15 16:10	1
Hexachloroethane	ND		10	4.2	ug/L		10/12/15 14:11	10/13/15 16:10	1
Indene	ND		10	1.0	ug/L		10/12/15 14:11	10/13/15 16:10	1
Isophorone	ND		10	0.57	ug/L		10/12/15 14:11	10/13/15 16:10	1
2-Methylphenol	ND		10	1.8	ug/L		10/12/15 14:11	10/13/15 16:10	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/12/15 14:11	10/13/15 16:10	1
2-Nitroaniline	ND		10	2.2	ug/L		10/12/15 14:11	10/13/15 16:10	1
3-Nitroaniline	ND		10	1.8	ug/L		10/12/15 14:11	10/13/15 16:10	1
4-Nitroaniline	ND		10	2.5	ug/L		10/12/15 14:11	10/13/15 16:10	1
Nitrobenzene	ND		10	0.55	ug/L		10/12/15 14:11	10/13/15 16:10	1
2-Nitrophenol	ND		10	0.65	ug/L		10/12/15 14:11	10/13/15 16:10	1
4-Nitrophenol	ND		10	2.1	ug/L		10/12/15 14:11	10/13/15 16:10	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/12/15 14:11	10/13/15 16:10	1

Client Sample ID: MW16-ROX-100715
Date Collected: 10/07/15 14:30
Date Received: 10/08/15 10:05

Lab Sample ID: 400-112171-8
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/12/15 14:11	10/13/15 16:10	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/12/15 14:11	10/13/15 16:10	1
Pentachlorophenol	ND		20	1.8	ug/L		10/12/15 14:11	10/13/15 16:10	1
Phenol	ND		10	2.6	ug/L		10/12/15 14:11	10/13/15 16:10	1
Pyridine	ND		10	3.2	ug/L		10/12/15 14:11	10/13/15 16:10	1
Quinoline	ND		10	6.0	ug/L		10/12/15 14:11	10/13/15 16:10	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/12/15 14:11	10/13/15 16:10	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/12/15 14:11	10/13/15 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*93*		*34 - 120*	*10/12/15 14:11*	*10/13/15 16:10*	*1*
2-Fluorophenol	*66*		*10 - 120*	*10/12/15 14:11*	*10/13/15 16:10*	*1*
Nitrobenzene-d5	*91*		*27 - 120*	*10/12/15 14:11*	*10/13/15 16:10*	*1*
Phenol-d5	*75*		*10 - 120*	*10/12/15 14:11*	*10/13/15 16:10*	*1*
Terphenyl-d14	*89*		*53 - 125*	*10/12/15 14:11*	*10/13/15 16:10*	*1*
2,4,6-Tribromophenol	*91*		*15 - 135*	*10/12/15 14:11*	*10/13/15 16:10*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0056	ug/L		10/13/15 16:23	10/14/15 22:22	1
1,2-Dibromoethane	ND		0.020	0.0051	ug/L		10/13/15 16:23	10/14/15 22:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*51 - 149*	*10/13/15 16:23*	*10/14/15 22:22*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112171-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: MW24-ROX-100715
Date Collected: 10/07/15 15:25
Date Received: 10/08/15 10:05

Lab Sample ID: 400-112171-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/20/15 17:32	1
Acrolein	ND		20	10	ug/L			10/20/15 17:32	1
Acrylonitrile	ND		10	2.8	ug/L			10/20/15 17:32	1
Benzene	ND		1.0	0.38	ug/L			10/20/15 17:32	1
Bromobenzene	ND		1.0	0.54	ug/L			10/20/15 17:32	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/20/15 17:32	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/20/15 17:32	1
Bromoform	ND		5.0	0.71	ug/L			10/20/15 17:32	1
Bromomethane	ND		1.0	0.98	ug/L			10/20/15 17:32	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/20/15 17:32	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/20/15 17:32	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/20/15 17:32	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/20/15 17:32	1
Chloroethane	ND		1.0	0.76	ug/L			10/20/15 17:32	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/20/15 17:32	1
Chloroform	ND		1.0	0.60	ug/L			10/20/15 17:32	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/20/15 17:32	1
Chloromethane	ND		1.0	0.83	ug/L			10/20/15 17:32	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/20/15 17:32	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/20/15 17:32	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/20/15 17:32	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/20/15 17:32	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/20/15 17:32	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/20/15 17:32	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/20/15 17:32	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/20/15 17:32	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/20/15 17:32	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/20/15 17:32	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/20/15 17:32	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/20/15 17:32	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/20/15 17:32	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/20/15 17:32	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/20/15 17:32	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/20/15 17:32	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/20/15 17:32	1
2-Hexanone	ND		25	3.1	ug/L			10/20/15 17:32	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/20/15 17:32	1
4-Isopropyltoluene	ND		1.0	0.71	ug/L			10/20/15 17:32	1
Methylene bromide	ND		5.0	0.59	ug/L			10/20/15 17:32	1
Methylene chloride	ND		5.0	3.0	ug/L			10/20/15 17:32	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/20/15 17:32	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/20/15 17:32	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/20/15 17:32	1
Naphthalene	ND		1.0	1.0	ug/L			10/20/15 17:32	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/20/15 17:32	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/20/15 17:32	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/20/15 17:32	1
o-Xylene	ND		5.0	0.60	ug/L			10/20/15 17:32	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/20/15 17:32	1

Client Sample ID: MW24-ROX-100715

Date Collected: 10/07/15 15:25
Date Received: 10/08/15 10:05

Lab Sample ID: 400-112171-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/20/15 17:32	1
Styrene	ND		1.0	1.0	ug/L			10/20/15 17:32	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/20/15 17:32	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/20/15 17:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/20/15 17:32	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/20/15 17:32	1
Toluene	ND		1.0	0.70	ug/L			10/20/15 17:32	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/20/15 17:32	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/20/15 17:32	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/20/15 17:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/20/15 17:32	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/20/15 17:32	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/20/15 17:32	1
Trichloroethene	ND		1.0	0.50	ug/L			10/20/15 17:32	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/20/15 17:32	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/20/15 17:32	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/20/15 17:32	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/20/15 17:32	1
Vinyl acetate	ND		25	2.0	ug/L			10/20/15 17:32	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/20/15 17:32	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/20/15 17:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*78 - 118*		*10/20/15 17:32*	*1*
Dibromofluoromethane	*99*		*81 - 121*		*10/20/15 17:32*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/20/15 17:32*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/12/15 14:11	10/14/15 17:00	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/12/15 14:11	10/14/15 17:00	1
Anthracene	ND		0.20	0.020	ug/L		10/12/15 14:11	10/14/15 17:00	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 17:00	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 17:00	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 17:00	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 17:00	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 17:00	1
Chrysene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 17:00	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 17:00	1
Fluoranthene	ND		0.20	0.020	ug/L		10/12/15 14:11	10/14/15 17:00	1
Fluorene	ND		0.20	0.021	ug/L		10/12/15 14:11	10/14/15 17:00	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/12/15 14:11	10/14/15 17:00	1
1-Methylnaphthalene	**0.057**	J	0.20	0.020	ug/L		10/12/15 14:11	10/14/15 17:00	1
2-Methylnaphthalene	**0.087**	J J	0.20	0.020	ug/L		10/12/15 14:11	10/14/15 17:00	1
Phenanthrene	ND		0.20	0.020	ug/L		10/12/15 14:11	10/14/15 17:00	1
Pyrene	ND		0.20	0.020	ug/L		10/12/15 14:11	10/14/15 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*94*		*15 - 122*	*10/12/15 14:11*	*10/14/15 17:00*	*1*
Nitrobenzene-d5	*94*		*19 - 130*	*10/12/15 14:11*	*10/14/15 17:00*	*1*

Client Sample ID: MW24-ROX-100715

Date Collected: 10/07/15 15:25
Date Received: 10/08/15 10:05

Lab Sample ID: 400-112171-9

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*129*		*33 - 138*	*10/12/15 14:11*	*10/14/15 17:00*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/12/15 14:11	10/13/15 16:48	1
Benzenethiol	ND		10	1.7	ug/L		10/12/15 14:11	10/13/15 16:48	1
Benzoic acid	ND	*	30	7.3	ug/L		10/12/15 14:11	10/13/15 16:48	1
Benzyl alcohol	ND		10	2.0	ug/L		10/12/15 14:11	10/13/15 16:48	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/12/15 14:11	10/13/15 16:48	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/12/15 14:11	10/13/15 16:48	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/12/15 14:11	10/13/15 16:48	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/12/15 14:11	10/13/15 16:48	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/12/15 14:11	10/13/15 16:48	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/12/15 14:11	10/13/15 16:48	1
4-Chloroaniline	ND		10	3.4	ug/L		10/12/15 14:11	10/13/15 16:48	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/12/15 14:11	10/13/15 16:48	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/12/15 14:11	10/13/15 16:48	1
2-Chlorophenol	ND		10	2.2	ug/L		10/12/15 14:11	10/13/15 16:48	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/12/15 14:11	10/13/15 16:48	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/12/15 14:11	10/13/15 16:48	1
Dibenzofuran	ND		10	0.52	ug/L		10/12/15 14:11	10/13/15 16:48	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/12/15 14:11	10/13/15 16:48	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/12/15 14:11	10/13/15 16:48	1
Diethyl phthalate	ND		10	0.70	ug/L		10/12/15 14:11	10/13/15 16:48	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/12/15 14:11	10/13/15 16:48	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/12/15 14:11	10/13/15 16:48	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/12/15 14:11	10/13/15 16:48	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/12/15 14:11	10/13/15 16:48	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/12/15 14:11	10/13/15 16:48	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 14:11	10/13/15 16:48	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 14:11	10/13/15 16:48	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/12/15 14:11	10/13/15 16:48	1
1,4-Dioxane	ND		10	1.0	ug/L		10/12/15 14:11	10/13/15 16:48	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/12/15 14:11	10/13/15 16:48	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/12/15 14:11	10/13/15 16:48	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/12/15 14:11	10/13/15 16:48	1
Hexachloroethane	ND		10	4.2	ug/L		10/12/15 14:11	10/13/15 16:48	1
Indene	ND		10	1.0	ug/L		10/12/15 14:11	10/13/15 16:48	1
Isophorone	ND		10	0.57	ug/L		10/12/15 14:11	10/13/15 16:48	1
2-Methylphenol	ND		10	1.8	ug/L		10/12/15 14:11	10/13/15 16:48	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/12/15 14:11	10/13/15 16:48	1
2-Nitroaniline	ND		10	2.2	ug/L		10/12/15 14:11	10/13/15 16:48	1
3-Nitroaniline	ND		10	1.8	ug/L		10/12/15 14:11	10/13/15 16:48	1
4-Nitroaniline	ND		10	2.5	ug/L		10/12/15 14:11	10/13/15 16:48	1
Nitrobenzene	ND		10	0.55	ug/L		10/12/15 14:11	10/13/15 16:48	1
2-Nitrophenol	ND		10	0.65	ug/L		10/12/15 14:11	10/13/15 16:48	1
4-Nitrophenol	ND		10	2.1	ug/L		10/12/15 14:11	10/13/15 16:48	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/12/15 14:11	10/13/15 16:48	1

Client Sample ID: MW24-ROX-100715
Date Collected: 10/07/15 15:25
Date Received: 10/08/15 10:05

Lab Sample ID: 400-112171-9
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/12/15 14:11	10/13/15 16:48	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/12/15 14:11	10/13/15 16:48	1
Pentachlorophenol	ND		20	1.8	ug/L		10/12/15 14:11	10/13/15 16:48	1
Phenol	ND		10	2.6	ug/L		10/12/15 14:11	10/13/15 16:48	1
Pyridine	ND		10	3.2	ug/L		10/12/15 14:11	10/13/15 16:48	1
Quinoline	ND		10	6.0	ug/L		10/12/15 14:11	10/13/15 16:48	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/12/15 14:11	10/13/15 16:48	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/12/15 14:11	10/13/15 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*34 - 120*	*10/12/15 14:11*	*10/13/15 16:48*	*1*
2-Fluorophenol	*63*		*10 - 120*	*10/12/15 14:11*	*10/13/15 16:48*	*1*
Nitrobenzene-d5	*90*		*27 - 120*	*10/12/15 14:11*	*10/13/15 16:48*	*1*
Phenol-d5	*73*		*10 - 120*	*10/12/15 14:11*	*10/13/15 16:48*	*1*
Terphenyl-d14	*88*		*53 - 125*	*10/12/15 14:11*	*10/13/15 16:48*	*1*
2,4,6-Tribromophenol	*89*		*15 - 135*	*10/12/15 14:11*	*10/13/15 16:48*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0056	ug/L		10/13/15 16:23	10/15/15 15:23	1
1,2-Dibromoethane	ND		0.020	0.0051	ug/L		10/13/15 16:23	10/15/15 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*323*	*X*	*51 - 149*	*10/13/15 16:23*	*10/15/15 15:23*	*1*

Qualifiers

GC/MS Semi VOA

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

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Glossary

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

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112171-1
SDG: Proj. 60400249-21563720.03004

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(78-118)	(81-121)	(80-120)
400-112145-A-10 MS	Matrix Spike	91	104	97
400-112145-A-10 MSD	Matrix Spike Duplicate	93	104	98
400-112171-1	TB-ROX-100715-8260	89	99	98
400-112171-3	MW6D-ROX-100715	86	98	97
400-112171-4	MW6C-ROX-100715	87	100	96
400-112171-5	MW6B-ROX-100715	88	98	96
400-112171-6	MW6A-ROX-100715EB	89	97	96
400-112171-7	MW6A-ROX-100715	89	99	95
400-112171-8	MW16-ROX-100715	89	98	95
400-112171-9	MW24-ROX-100715	88	99	97
LCS 400-279588/1002	Lab Control Sample	93	104	97
MB 400-279588/4	Method Blank	86	98	97

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	Client Sample ID	(34-120)	(10-120)	(27-120)	(10-120)	(53-125)	(15-135)
400-112171-3	MW6D-ROX-100715	91	70	102	78	104	99
400-112171-4	MW6C-ROX-100715	81	37	80	41	70	59
400-112171-5	MW6B-ROX-100715	92	58	93	68	87	90
400-112171-6	MW6A-ROX-100715EB	72	63	82	69	96	93
400-112171-7	MW6A-ROX-100715	107	75	106	88	96	125
400-112171-8	MW16-ROX-100715	93	66	91	75	89	91
400-112171-9	MW24-ROX-100715	78	63	90	73	88	89
LCS 400-278376/2-A	Lab Control Sample	88	71	92	73	94	108
LCSD 400-278376/3-A	Lab Control Sample Dup	82	68	87	73	86	100
MB 400-278376/1-A	Method Blank	76	42	87	72	98	89

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPH
Lab Sample ID	Client Sample ID	(15-122)	(19-130)	(33-138)
400-112171-3	MW6D-ROX-100715	101	109	133

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPH
Lab Sample ID	Client Sample ID	(15-122)	(19-130)	(33-138)
400-112171-4	MW6C-ROX-100715	91	93	90
400-112171-5	MW6B-ROX-100715	108	114	119
400-112171-6	MW6A-ROX-100715EB	79	87	129
400-112171-7	MW6A-ROX-100715	110	119	114
400-112171-8	MW16-ROX-100715	104	100	122
400-112171-9	MW24-ROX-100715	94	94	129
LCS 400-278376/2-A	Lab Control Sample	96	101	106
LCSD 400-278376/3-A	Lab Control Sample Dup	94	103	102
MB 400-278376/1-A	Method Blank	92	100	131

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5
TPH = Terphenyl-d14

Method: 8011 - EDB and DBCP in Water by Microextraction

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

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(51-149)
400-112171-2	TB-ROX-100715-8011	158 X
400-112171-3	MW6D-ROX-100715	112
400-112171-4	MW6C-ROX-100715	125
400-112171-5	MW6B-ROX-100715	104
400-112171-6	MW6A-ROX-100715EB	106
400-112171-7	MW6A-ROX-100715	136
400-112171-8	MW16-ROX-100715	104
400-112171-9	MW24-ROX-100715	323 X
LCS 400-278644/2-A	Lab Control Sample	103
LCSD 400-278644/3-A	Lab Control Sample Dup	123
MB 400-278644/1-A	Method Blank	136

Surrogate Legend

BFB = 4-Bromofluorobenzene

GC/MS VOA

Analysis Batch: 279588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112171-1	TB-ROX-100715-8260	Total/NA	Water	8260B	
400-112171-3	MW6D-ROX-100715	Total/NA	Water	8260B	
400-112171-4	MW6C-ROX-100715	Total/NA	Water	8260B	
400-112171-5	MW6B-ROX-100715	Total/NA	Water	8260B	
400-112171-6	MW6A-ROX-100715EB	Total/NA	Water	8260B	
400-112171-7	MW6A-ROX-100715	Total/NA	Water	8260B	
400-112171-8	MW16-ROX-100715	Total/NA	Water	8260B	
400-112171-9	MW24-ROX-100715	Total/NA	Water	8260B	
LCS 400-279588/1002	Lab Control Sample	Total/NA	Water	8260B	
MB 400-279588/4	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 278376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112171-3	MW6D-ROX-100715	Total/NA	Water	3520C	
400-112171-4	MW6C-ROX-100715	Total/NA	Water	3520C	
400-112171-5	MW6B-ROX-100715	Total/NA	Water	3520C	
400-112171-6	MW6A-ROX-100715EB	Total/NA	Water	3520C	
400-112171-7	MW6A-ROX-100715	Total/NA	Water	3520C	
400-112171-8	MW16-ROX-100715	Total/NA	Water	3520C	
400-112171-9	MW24-ROX-100715	Total/NA	Water	3520C	
LCS 400-278376/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-278376/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 400-278376/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 278441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112171-3	MW6D-ROX-100715	Total/NA	Water	8270C	278376
400-112171-4	MW6C-ROX-100715	Total/NA	Water	8270C	278376
400-112171-5	MW6B-ROX-100715	Total/NA	Water	8270C	278376
400-112171-6	MW6A-ROX-100715EB	Total/NA	Water	8270C	278376
400-112171-7	MW6A-ROX-100715	Total/NA	Water	8270C	278376
LCS 400-278376/2-A	Lab Control Sample	Total/NA	Water	8270C	278376
LCSD 400-278376/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	278376
MB 400-278376/1-A	Method Blank	Total/NA	Water	8270C	278376

Analysis Batch: 278483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112171-8	MW16-ROX-100715	Total/NA	Water	8270C	278376
400-112171-9	MW24-ROX-100715	Total/NA	Water	8270C	278376

Analysis Batch: 278702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112171-3	MW6D-ROX-100715	Total/NA	Water	8270C LL	278376
400-112171-4	MW6C-ROX-100715	Total/NA	Water	8270C LL	278376
400-112171-5	MW6B-ROX-100715	Total/NA	Water	8270C LL	278376
400-112171-6	MW6A-ROX-100715EB	Total/NA	Water	8270C LL	278376
400-112171-7	MW6A-ROX-100715	Total/NA	Water	8270C LL	278376
400-112171-8	MW16-ROX-100715	Total/NA	Water	8270C LL	278376

GC/MS Semi VOA (Continued)

Analysis Batch: 278702 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112171-9	MW24-ROX-100715	Total/NA	Water	8270C LL	278376
LCS 400-278376/2-A	Lab Control Sample	Total/NA	Water	8270C LL	278376
LCSD 400-278376/3-A	Lab Control Sample Dup	Total/NA	Water	8270C LL	278376
MB 400-278376/1-A	Method Blank	Total/NA	Water	8270C LL	278376

GC Semi VOA

Prep Batch: 278644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112171-2	TB-ROX-100715-8011	Total/NA	Water	8011	
400-112171-3	MW6D-ROX-100715	Total/NA	Water	8011	
400-112171-4	MW6C-ROX-100715	Total/NA	Water	8011	
400-112171-5	MW6B-ROX-100715	Total/NA	Water	8011	
400-112171-6	MW6A-ROX-100715EB	Total/NA	Water	8011	
400-112171-7	MW6A-ROX-100715	Total/NA	Water	8011	
400-112171-8	MW16-ROX-100715	Total/NA	Water	8011	
400-112171-9	MW24-ROX-100715	Total/NA	Water	8011	
LCS 400-278644/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 400-278644/3-A	Lab Control Sample Dup	Total/NA	Water	8011	
MB 400-278644/1-A	Method Blank	Total/NA	Water	8011	

Analysis Batch: 278887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112171-2	TB-ROX-100715-8011	Total/NA	Water	8011	278644
400-112171-3	MW6D-ROX-100715	Total/NA	Water	8011	278644
400-112171-4	MW6C-ROX-100715	Total/NA	Water	8011	278644
400-112171-5	MW6B-ROX-100715	Total/NA	Water	8011	278644
400-112171-6	MW6A-ROX-100715EB	Total/NA	Water	8011	278644
400-112171-7	MW6A-ROX-100715	Total/NA	Water	8011	278644
400-112171-8	MW16-ROX-100715	Total/NA	Water	8011	278644
LCS 400-278644/2-A	Lab Control Sample	Total/NA	Water	8011	278644
LCSD 400-278644/3-A	Lab Control Sample Dup	Total/NA	Water	8011	278644
MB 400-278644/1-A	Method Blank	Total/NA	Water	8011	278644

Analysis Batch: 278981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112171-9	MW24-ROX-100715	Total/NA	Water	8011	278644

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

Lab Sample ID: MB 400-279588/4
Matrix: Water
Analysis Batch: 279588

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/20/15 10:17	1
Acrolein	ND		20	10	ug/L			10/20/15 10:17	1
Acrylonitrile	ND		10	2.8	ug/L			10/20/15 10:17	1
Benzene	ND		1.0	0.38	ug/L			10/20/15 10:17	1
Bromobenzene	ND		1.0	0.54	ug/L			10/20/15 10:17	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/20/15 10:17	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/20/15 10:17	1
Bromoform	ND		5.0	0.71	ug/L			10/20/15 10:17	1
Bromomethane	ND		1.0	0.98	ug/L			10/20/15 10:17	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/20/15 10:17	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/20/15 10:17	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/20/15 10:17	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/20/15 10:17	1
Chloroethane	ND		1.0	0.76	ug/L			10/20/15 10:17	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/20/15 10:17	1
Chloroform	ND		1.0	0.60	ug/L			10/20/15 10:17	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/20/15 10:17	1
Chloromethane	ND		1.0	0.83	ug/L			10/20/15 10:17	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/20/15 10:17	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/20/15 10:17	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/20/15 10:17	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/20/15 10:17	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/20/15 10:17	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/20/15 10:17	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/20/15 10:17	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/20/15 10:17	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/20/15 10:17	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/20/15 10:17	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/20/15 10:17	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/20/15 10:17	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/20/15 10:17	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/20/15 10:17	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/20/15 10:17	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/20/15 10:17	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/20/15 10:17	1
2-Hexanone	ND		25	3.1	ug/L			10/20/15 10:17	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/20/15 10:17	1
4-Isopropyltoluene	ND		1.0	0.71	ug/L			10/20/15 10:17	1
Methylene bromide	ND		5.0	0.59	ug/L			10/20/15 10:17	1
Methylene chloride	ND		5.0	3.0	ug/L			10/20/15 10:17	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/20/15 10:17	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/20/15 10:17	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/20/15 10:17	1
Naphthalene	ND		1.0	1.0	ug/L			10/20/15 10:17	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/20/15 10:17	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/20/15 10:17	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/20/15 10:17	1
o-Xylene	ND		5.0	0.60	ug/L			10/20/15 10:17	1

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

Lab Sample ID: MB 400-279588/4
Matrix: Water
Analysis Batch: 279588

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/20/15 10:17	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/20/15 10:17	1
Styrene	ND		1.0	1.0	ug/L			10/20/15 10:17	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/20/15 10:17	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/20/15 10:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/20/15 10:17	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/20/15 10:17	1
Toluene	ND		1.0	0.70	ug/L			10/20/15 10:17	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/20/15 10:17	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/20/15 10:17	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/20/15 10:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/20/15 10:17	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/20/15 10:17	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/20/15 10:17	1
Trichloroethene	ND		1.0	0.50	ug/L			10/20/15 10:17	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/20/15 10:17	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/20/15 10:17	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/20/15 10:17	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/20/15 10:17	1
Vinyl acetate	ND		25	2.0	ug/L			10/20/15 10:17	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/20/15 10:17	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/20/15 10:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*86*		*78 - 118*		*10/20/15 10:17*	*1*
Dibromofluoromethane	*98*		*81 - 121*		*10/20/15 10:17*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/20/15 10:17*	*1*

Lab Sample ID: LCS 400-279588/1002
Matrix: Water
Analysis Batch: 279588

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	170		ug/L		85	43 - 160
Acrolein	500	413		ug/L		83	38 - 160
Acrylonitrile	500	391		ug/L		78	64 - 142
Benzene	50.0	49.5		ug/L		99	70 - 130
Bromobenzene	50.0	36.9		ug/L		74	70 - 132
Bromochloromethane	50.0	51.0		ug/L		102	70 - 130
Bromodichloromethane	50.0	56.1		ug/L		112	67 - 133
Bromoform	50.0	40.6		ug/L		81	57 - 140
Bromomethane	50.0	68.5		ug/L		137	10 - 160
2-Butanone (MEK)	200	196		ug/L		98	61 - 145
Carbon disulfide	50.0	47.5		ug/L		95	61 - 137
Carbon tetrachloride	50.0	56.1		ug/L		112	61 - 137
Chlorobenzene	50.0	49.5		ug/L		99	70 - 130
Chloroethane	50.0	48.1		ug/L		96	55 - 141
2-Chloroethyl vinyl ether	50.0	53.3		ug/L		107	10 - 160

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

Lab Sample ID: LCS 400-279588/1002
Matrix: Water
Analysis Batch: 279588

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	50.0	51.7		ug/L		103	69 - 130
1-Chlorohexane	50.0	46.5		ug/L		93	69 - 130
Chloromethane	50.0	39.3		ug/L		79	58 - 137
cis-1,2-Dichloroethene	50.0	46.4		ug/L		93	68 - 130
cis-1,3-Dichloropropene	50.0	53.3		ug/L		107	69 - 132
Dibromochloromethane	50.0	52.2		ug/L		104	67 - 135
1,2-Dichlorobenzene	50.0	39.9		ug/L		80	67 - 130
1,3-Dichlorobenzene	50.0	39.1		ug/L		78	70 - 130
1,4-Dichlorobenzene	50.0	43.9		ug/L		88	70 - 130
Dichlorodifluoromethane	50.0	48.5		ug/L		97	41 - 146
1,1-Dichloroethane	50.0	45.1		ug/L		90	70 - 130
1,2-Dichloroethane	50.0	53.0		ug/L		106	69 - 130
1,1-Dichloroethene	50.0	47.8		ug/L		96	63 - 134
1,2-Dichloropropane	50.0	47.0		ug/L		94	70 - 130
1,3-Dichloropropane	50.0	48.4		ug/L		97	70 - 130
2,2-Dichloropropane	50.0	48.7		ug/L		97	52 - 135
1,1-Dichloropropene	50.0	52.9		ug/L		106	70 - 130
Ethylbenzene	50.0	51.2		ug/L		102	70 - 130
Ethyl methacrylate	50.0	50.6		ug/L		101	68 - 130
Hexachlorobutadiene	50.0	32.5		ug/L		65	53 - 140
2-Hexanone	200	170		ug/L		85	65 - 137
Isopropylbenzene	50.0	51.0		ug/L		102	70 - 130
4-Isopropyltoluene	50.0	44.0		ug/L		88	65 - 130
Methylene bromide	50.0	52.7		ug/L		105	70 - 130
Methylene chloride	50.0	46.2		ug/L		92	66 - 135
4-Methyl-2-pentanone (MIBK)	200	187		ug/L		93	69 - 138
Methyl tert-butyl ether	50.0	47.7		ug/L		95	66 - 130
m-Xylene & p-Xylene	50.0	51.8		ug/L		104	70 - 130
Naphthalene	50.0	37.1		ug/L		74	47 - 149
n-Butylbenzene	50.0	41.5		ug/L		83	67 - 130
N-Propylbenzene	50.0	43.8		ug/L		88	70 - 130
o-Chlorotoluene	50.0	42.3		ug/L		85	70 - 130
o-Xylene	50.0	52.3		ug/L		105	70 - 130
p-Chlorotoluene	50.0	44.4		ug/L		89	70 - 130
sec-Butylbenzene	50.0	42.4		ug/L		85	66 - 130
Styrene	50.0	49.7		ug/L		99	70 - 130
tert-Butylbenzene	50.0	43.9		ug/L		88	64 - 139
1,1,1,2-Tetrachloroethane	50.0	52.5		ug/L		105	67 - 131
1,1,2,2-Tetrachloroethane	50.0	40.3		ug/L		81	70 - 131
Tetrachloroethene	50.0	43.0		ug/L		86	65 - 130
Toluene	50.0	48.2		ug/L		96	70 - 130
trans-1,2-Dichloroethene	50.0	47.6		ug/L		95	70 - 130
trans-1,3-Dichloropropene	50.0	47.5		ug/L		95	63 - 130
1,2,3-Trichlorobenzene	50.0	35.5		ug/L		71	60 - 138
1,2,4-Trichlorobenzene	50.0	35.3		ug/L		71	60 - 140
1,1,1-Trichloroethane	50.0	55.4		ug/L		111	68 - 130
1,1,2-Trichloroethane	50.0	48.8		ug/L		98	70 - 130
Trichloroethene	50.0	50.9		ug/L		102	70 - 130

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

Lab Sample ID: LCS 400-279588/1002
Matrix: Water
Analysis Batch: 279588

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	55.4		ug/L		111	65 - 138
1,2,3-Trichloropropane	50.0	42.7		ug/L		85	70 - 130
1,2,4-Trimethylbenzene	50.0	42.5		ug/L		85	70 - 130
1,3,5-Trimethylbenzene	50.0	43.3		ug/L		87	69 - 130
Vinyl acetate	100	95.1		ug/L		95	26 - 160
Vinyl chloride	50.0	43.4		ug/L		87	59 - 136
Xylenes, Total	100	104		ug/L		104	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*93*		*78 - 118*
Dibromofluoromethane	*104*		*81 - 121*
Toluene-d8 (Surr)	*97*		*80 - 120*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-278376/1-A
Matrix: Water
Analysis Batch: 278441

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/12/15 11:00	10/13/15 15:41	1
Benzenethiol	ND		10	1.7	ug/L		10/12/15 11:00	10/13/15 15:41	1
Benzoic acid	ND		30	7.3	ug/L		10/12/15 11:00	10/13/15 15:41	1
Benzyl alcohol	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/12/15 11:00	10/13/15 15:41	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/12/15 11:00	10/13/15 15:41	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/12/15 11:00	10/13/15 15:41	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/12/15 11:00	10/13/15 15:41	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/12/15 11:00	10/13/15 15:41	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/12/15 11:00	10/13/15 15:41	1
4-Chloroaniline	ND		10	3.4	ug/L		10/12/15 11:00	10/13/15 15:41	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/12/15 11:00	10/13/15 15:41	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/12/15 11:00	10/13/15 15:41	1
2-Chlorophenol	ND		10	2.2	ug/L		10/12/15 11:00	10/13/15 15:41	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
Dibenzofuran	ND		10	0.52	ug/L		10/12/15 11:00	10/13/15 15:41	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/12/15 11:00	10/13/15 15:41	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
Diethyl phthalate	ND		10	0.70	ug/L		10/12/15 11:00	10/13/15 15:41	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 15:41	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/12/15 11:00	10/13/15 15:41	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/12/15 11:00	10/13/15 15:41	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/12/15 11:00	10/13/15 15:41	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 11:00	10/13/15 15:41	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 11:00	10/13/15 15:41	1
Di-n-octyl phthalate	0.553	J	10	0.44	ug/L		10/12/15 11:00	10/13/15 15:41	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-278376/1-A
Matrix: Water
Analysis Batch: 278441

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/12/15 11:00	10/13/15 15:41	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/12/15 11:00	10/13/15 15:41	1
Hexachloroethane	ND		10	4.2	ug/L		10/12/15 11:00	10/13/15 15:41	1
Indene	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
Isophorone	ND		10	0.57	ug/L		10/12/15 11:00	10/13/15 15:41	1
2-Methylphenol	ND		10	1.8	ug/L		10/12/15 11:00	10/13/15 15:41	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
2-Nitroaniline	ND		10	2.2	ug/L		10/12/15 11:00	10/13/15 15:41	1
3-Nitroaniline	ND		10	1.8	ug/L		10/12/15 11:00	10/13/15 15:41	1
4-Nitroaniline	ND		10	2.5	ug/L		10/12/15 11:00	10/13/15 15:41	1
Nitrobenzene	ND		10	0.55	ug/L		10/12/15 11:00	10/13/15 15:41	1
2-Nitrophenol	ND		10	0.65	ug/L		10/12/15 11:00	10/13/15 15:41	1
4-Nitrophenol	ND		10	2.1	ug/L		10/12/15 11:00	10/13/15 15:41	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 15:41	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/12/15 11:00	10/13/15 15:41	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/12/15 11:00	10/13/15 15:41	1
Pentachlorophenol	ND		20	1.8	ug/L		10/12/15 11:00	10/13/15 15:41	1
Phenol	ND		10	2.6	ug/L		10/12/15 11:00	10/13/15 15:41	1
Pyridine	ND		10	3.2	ug/L		10/12/15 11:00	10/13/15 15:41	1
Quinoline	ND		10	6.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/12/15 11:00	10/13/15 15:41	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 15:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*34 - 120*	*10/12/15 11:00*	*10/13/15 15:41*	*1*
2-Fluorophenol	*42*		*10 - 120*	*10/12/15 11:00*	*10/13/15 15:41*	*1*
Nitrobenzene-d5	*87*		*27 - 120*	*10/12/15 11:00*	*10/13/15 15:41*	*1*
Phenol-d5	*72*		*10 - 120*	*10/12/15 11:00*	*10/13/15 15:41*	*1*
Terphenyl-d14	*98*		*53 - 125*	*10/12/15 11:00*	*10/13/15 15:41*	*1*
2,4,6-Tribromophenol	*89*		*15 - 135*	*10/12/15 11:00*	*10/13/15 15:41*	*1*

Lab Sample ID: LCS 400-278376/2-A
Matrix: Water
Analysis Batch: 278441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	30.0	19.2		ug/L		64	10 - 145
Benzoic acid	110	21.0	J	ug/L		19	10 - 120
Benzyl alcohol	30.0	24.1		ug/L		80	51 - 121
Bis(2-chloroethoxy)methane	30.0	25.1		ug/L		84	54 - 123
Bis(2-chloroethyl)ether	30.0	24.3		ug/L		81	47 - 120
bis (2-chloroisopropyl) ether	30.0	23.1		ug/L		77	20 - 142
Bis(2-ethylhexyl) phthalate	30.0	27.6		ug/L		92	62 - 140
4-Bromophenyl phenyl ether	30.0	24.6		ug/L		82	62 - 132
Butyl benzyl phthalate	30.0	27.2		ug/L		91	51 - 150

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-278376/2-A
Matrix: Water
Analysis Batch: 278441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	30.0	22.3		ug/L		74	32 - 128
4-Chloro-3-methylphenol	30.0	25.3		ug/L		84	47 - 135
2-Chloronaphthalene	30.0	23.4		ug/L		78	24 - 150
2-Chlorophenol	30.0	22.8		ug/L		76	45 - 120
4-Chlorophenyl phenyl ether	30.0	26.4		ug/L		88	61 - 133
Dibenzofuran	30.0	25.6		ug/L		85	62 - 124
3,3'-Dichlorobenzidine	30.0	28.6		ug/L		95	16 - 167
2,4-Dichlorophenol	30.0	25.4		ug/L		85	52 - 125
Diethyl phthalate	30.0	27.8		ug/L		93	55 - 140
2,4-Dimethylphenol	30.0	23.4		ug/L		78	52 - 121
Dimethyl phthalate	30.0	26.0		ug/L		87	50 - 133
Di-n-butyl phthalate	30.0	28.9		ug/L		96	59 - 144
4,6-Dinitro-o-cresol	60.0	76.4		ug/L		127	46 - 136
2,4-Dinitrophenol	86.0	94.1		ug/L		109	22 - 146
2,4-Dinitrotoluene	30.0	30.5		ug/L		102	54 - 141
2,6-Dinitrotoluene	30.0	29.1		ug/L		97	61 - 130
Di-n-octyl phthalate	30.0	27.9		ug/L		93	55 - 140
1,4-Dioxane	30.0	18.7		ug/L		62	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	30.0	23.5		ug/L		78	55 - 139
Hexachlorobenzene	30.0	25.4		ug/L		85	60 - 138
Hexachlorocyclopentadiene	30.0	12.0	J	ug/L		40	1 - 139
Hexachloroethane	30.0	15.8		ug/L		53	46 - 121
Indene	30.0	21.5		ug/L		72	17 - 141
Isophorone	30.0	25.6		ug/L		85	57 - 122
2-Methylphenol	30.0	22.8		ug/L		76	38 - 121
3 & 4 Methylphenol	30.0	23.3		ug/L		78	43 - 126
2-Nitroaniline	30.0	27.9		ug/L		93	52 - 135
3-Nitroaniline	30.0	25.6		ug/L		85	51 - 128
4-Nitroaniline	30.0	27.8		ug/L		93	38 - 141
Nitrobenzene	30.0	24.9		ug/L		83	52 - 128
2-Nitrophenol	30.0	26.8		ug/L		89	47 - 129
4-Nitrophenol	60.0	46.3		ug/L		77	34 - 137
N-Nitrosodimethylamine	30.0	21.1		ug/L		70	21 - 134
N-Nitrosodi-n-propylamine	30.0	24.7		ug/L		82	41 - 143
N-Nitrosodiphenylamine	60.0	49.4		ug/L		82	10 - 185
Pentachlorophenol	60.0	65.1		ug/L		109	38 - 138
Phenol	30.0	19.4		ug/L		65	37 - 120
Pyridine	30.0	16.6		ug/L		55	10 - 127
2,4,5-Trichlorophenol	30.0	25.5		ug/L		85	53 - 130
2,4,6-Trichlorophenol	30.0	25.8		ug/L		86	52 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*88*		*34 - 120*
2-Fluorophenol	*71*		*10 - 120*
Nitrobenzene-d5	*92*		*27 - 120*
Phenol-d5	*73*		*10 - 120*
Terphenyl-d14	*94*		*53 - 125*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-278376/2-A
Matrix: Water
Analysis Batch: 278441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278376

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	108		15 - 135

Lab Sample ID: LCSD 400-278376/3-A
Matrix: Water
Analysis Batch: 278441

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 278376

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	30.0	20.9		ug/L		70	10 - 145	8	30
Benzoic acid	110	29.2	J *	ug/L		27	10 - 120	33	30
Benzyl alcohol	30.0	23.8		ug/L		79	51 - 121	1	30
Bis(2-chloroethoxy)methane	30.0	24.3		ug/L		81	54 - 123	3	30
Bis(2-chloroethyl)ether	30.0	23.1		ug/L		77	47 - 120	5	30
bis (2-chloroisopropyl) ether	30.0	22.0		ug/L		73	20 - 142	5	30
Bis(2-ethylhexyl) phthalate	30.0	26.5		ug/L		88	62 - 140	4	30
4-Bromophenyl phenyl ether	30.0	23.2		ug/L		77	62 - 132	5	30
Butyl benzyl phthalate	30.0	26.0		ug/L		87	51 - 150	5	30
4-Chloroaniline	30.0	23.1		ug/L		77	32 - 128	4	30
4-Chloro-3-methylphenol	30.0	24.9		ug/L		83	47 - 135	1	30
2-Chloronaphthalene	30.0	22.7		ug/L		76	24 - 150	3	30
2-Chlorophenol	30.0	22.1		ug/L		74	45 - 120	3	30
4-Chlorophenyl phenyl ether	30.0	24.9		ug/L		83	61 - 133	6	30
Dibenzofuran	30.0	24.1		ug/L		80	62 - 124	6	30
3,3'-Dichlorobenzidine	30.0	27.7		ug/L		92	16 - 167	3	30
2,4-Dichlorophenol	30.0	25.1		ug/L		84	52 - 125	1	30
Diethyl phthalate	30.0	26.2		ug/L		87	55 - 140	6	30
2,4-Dimethylphenol	30.0	23.0		ug/L		77	52 - 121	1	30
Dimethyl phthalate	30.0	24.9		ug/L		83	50 - 133	4	30
Di-n-butyl phthalate	30.0	27.1		ug/L		90	59 - 144	7	30
4,6-Dinitro-o-cresol	60.0	73.6		ug/L		123	46 - 136	4	30
2,4-Dinitrophenol	86.0	94.5		ug/L		110	22 - 146	0	30
2,4-Dinitrotoluene	30.0	29.0		ug/L		97	54 - 141	5	30
2,6-Dinitrotoluene	30.0	27.9		ug/L		93	61 - 130	4	30
Di-n-octyl phthalate	30.0	26.9		ug/L		90	55 - 140	4	30
1,4-Dioxane	30.0	18.5		ug/L		62	10 - 130	1	30
1,2-Diphenylhydrazine (as Azobenzene)	30.0	22.3		ug/L		74	55 - 139	5	30
Hexachlorobenzene	30.0	24.0		ug/L		80	60 - 138	6	30
Hexachlorocyclopentadiene	30.0	10.9	J	ug/L		36	1 - 139	10	30
Hexachloroethane	30.0	15.6		ug/L		52	46 - 121	2	30
Indene	30.0	20.7		ug/L		69	17 - 141	4	30
Isophorone	30.0	24.4		ug/L		81	57 - 122	5	30
2-Methylphenol	30.0	23.0		ug/L		77	38 - 121	1	30
3 & 4 Methylphenol	30.0	23.3		ug/L		78	43 - 126	0	30
2-Nitroaniline	30.0	27.1		ug/L		90	52 - 135	3	30
3-Nitroaniline	30.0	24.5		ug/L		82	51 - 128	4	30
4-Nitroaniline	30.0	27.1		ug/L		90	38 - 141	2	30
Nitrobenzene	30.0	23.8		ug/L		79	52 - 128	5	30
2-Nitrophenol	30.0	26.5		ug/L		88	47 - 129	1	30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-278376/3-A
Matrix: Water
Analysis Batch: 278441

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 278376

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Nitrophenol	60.0	47.0		ug/L		78	34 - 137	1	30
N-Nitrosodimethylamine	30.0	20.1		ug/L		67	21 - 134	5	30
N-Nitrosodi-n-propylamine	30.0	24.1		ug/L		80	41 - 143	3	30
N-Nitrosodiphenylamine	60.0	47.1		ug/L		78	10 - 185	5	30
Pentachlorophenol	60.0	55.8		ug/L		93	38 - 138	15	30
Phenol	30.0	20.0		ug/L		67	37 - 120	3	30
Pyridine	30.0	17.7		ug/L		59	10 - 127	6	30
2,4,5-Trichlorophenol	30.0	26.0		ug/L		87	53 - 130	2	30
2,4,6-Trichlorophenol	30.0	24.6		ug/L		82	52 - 131	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*82*		*34 - 120*
2-Fluorophenol	*68*		*10 - 120*
Nitrobenzene-d5	*87*		*27 - 120*
Phenol-d5	*73*		*10 - 120*
Terphenyl-d14	*86*		*53 - 125*
2,4,6-Tribromophenol	*100*		*15 - 135*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 400-278376/1-A
Matrix: Water
Analysis Batch: 278702

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 11:26	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 11:26	1
Anthracene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 11:26	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 11:26	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 11:26	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 11:26	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 11:26	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 11:26	1
Chrysene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 11:26	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 11:26	1
Fluoranthene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 11:26	1
Fluorene	ND		0.20	0.021	ug/L		10/12/15 11:00	10/14/15 11:26	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 11:26	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 11:26	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 11:26	1
Phenanthrene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 11:26	1
Pyrene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 11:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*92*		*15 - 122*	*10/12/15 11:00*	*10/14/15 11:26*	*1*
Nitrobenzene-d5	*100*		*19 - 130*	*10/12/15 11:00*	*10/14/15 11:26*	*1*
Terphenyl-d14	*131*		*33 - 138*	*10/12/15 11:00*	*10/14/15 11:26*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 400-278376/2-A
Matrix: Water
Analysis Batch: 278702

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	30.0	28.7		ug/L		96	41 - 120
Acenaphthylene	30.0	29.1		ug/L		97	44 - 120
Anthracene	30.0	29.5		ug/L		98	49 - 120
Benzo[a]anthracene	30.0	27.4		ug/L		91	61 - 135
Benzo[a]pyrene	30.0	29.6		ug/L		99	52 - 120
Benzo[b]fluoranthene	30.0	28.9		ug/L		96	53 - 134
Benzo[g,h,i]perylene	30.0	23.2		ug/L		77	47 - 133
Benzo[k]fluoranthene	30.0	33.1		ug/L		110	57 - 134
Chrysene	30.0	31.4		ug/L		105	55 - 122
Dibenz(a,h)anthracene	30.0	24.3		ug/L		81	48 - 146
Fluoranthene	30.0	28.2		ug/L		94	54 - 128
Fluorene	30.0	32.2		ug/L		107	45 - 125
Indeno[1,2,3-cd]pyrene	30.0	24.4		ug/L		81	43 - 142
1-Methylnaphthalene	30.0	26.3		ug/L		88	41 - 120
2-Methylnaphthalene	30.0	26.3		ug/L		88	32 - 124
Phenanthrene	30.0	27.8		ug/L		93	48 - 120
Pyrene	30.0	31.5		ug/L		105	48 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*96*		*15 - 122*
Nitrobenzene-d5	*101*		*19 - 130*
Terphenyl-d14	*106*		*33 - 138*

Lab Sample ID: LCSD 400-278376/3-A
Matrix: Water
Analysis Batch: 278702

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 278376

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	30.0	28.7		ug/L		96	41 - 120	0	56
Acenaphthylene	30.0	29.3		ug/L		98	44 - 120	1	56
Anthracene	30.0	28.6		ug/L		95	49 - 120	3	51
Benzo[a]anthracene	30.0	27.5		ug/L		92	61 - 135	0	49
Benzo[a]pyrene	30.0	29.3		ug/L		98	52 - 120	1	50
Benzo[b]fluoranthene	30.0	29.6		ug/L		99	53 - 134	2	54
Benzo[g,h,i]perylene	30.0	23.0		ug/L		77	47 - 133	1	50
Benzo[k]fluoranthene	30.0	32.4		ug/L		108	57 - 134	2	52
Chrysene	30.0	31.9		ug/L		106	55 - 122	2	50
Dibenz(a,h)anthracene	30.0	23.8		ug/L		79	48 - 146	2	50
Fluoranthene	30.0	27.6		ug/L		92	54 - 128	2	52
Fluorene	30.0	32.6		ug/L		109	45 - 125	1	56
Indeno[1,2,3-cd]pyrene	30.0	23.9		ug/L		80	43 - 142	2	51
1-Methylnaphthalene	30.0	26.5		ug/L		88	41 - 120	1	55
2-Methylnaphthalene	30.0	26.5		ug/L		88	32 - 124	1	57
Phenanthrene	30.0	27.4		ug/L		91	48 - 120	2	56
Pyrene	30.0	32.4		ug/L		108	48 - 132	3	52

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCSD 400-278376/3-A
Matrix: Water
Analysis Batch: 278702

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 278376

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*94*		*15 - 122*
Nitrobenzene-d5	*103*		*19 - 130*
Terphenyl-d14	*102*		*33 - 138*

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-278644/1-A
Matrix: Water
Analysis Batch: 278887

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278644

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/13/15 16:23	10/14/15 17:56	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/13/15 16:23	10/14/15 17:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*136*		*51 - 149*	*10/13/15 16:23*	*10/14/15 17:56*	*1*

Lab Sample ID: LCS 400-278644/2-A
Matrix: Water
Analysis Batch: 278887

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278644

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.100	0.116		ug/L		116	60 - 140
1,2-Dibromoethane	0.100	0.0956		ug/L		96	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*51 - 149*

Lab Sample ID: LCSD 400-278644/3-A
Matrix: Water
Analysis Batch: 278887

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 278644

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	0.100	0.125		ug/L		125	60 - 140	7	30
1,2-Dibromoethane	0.100	0.107		ug/L		107	60 - 140	11	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*123*		*51 - 149*

Client Sample ID: TB-ROX-100715-8260

Lab Sample ID: 400-112171-1
Matrix: Water

Date Collected: 10/07/15 00:00
Date Received: 10/08/15 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279588	10/20/15 14:35	CLN	TAL PEN

Client Sample ID: TB-ROX-100715-8011

Lab Sample ID: 400-112171-2
Matrix: Water

Date Collected: 10/07/15 00:00
Date Received: 10/08/15 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			34 mL	35 mL	278644	10/13/15 16:23	AM	TAL PEN
Total/NA	Analysis	8011		1	34 mL	35 mL	278887	10/14/15 19:25	AM	TAL PEN

Client Sample ID: MW6D-ROX-100715

Lab Sample ID: 400-112171-3
Matrix: Water

Date Collected: 10/07/15 09:40
Date Received: 10/08/15 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279588	10/20/15 15:01	CLN	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278441	10/13/15 17:41	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	278702	10/14/15 13:17	CEP	TAL PEN
Total/NA	Prep	8011			35.8 mL	35 mL	278644	10/13/15 16:23	AM	TAL PEN
Total/NA	Analysis	8011		1	35.8 mL	35 mL	278887	10/14/15 19:54	AM	TAL PEN

Client Sample ID: MW6C-ROX-100715

Lab Sample ID: 400-112171-4
Matrix: Water

Date Collected: 10/07/15 10:30
Date Received: 10/08/15 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279588	10/20/15 15:25	CLN	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278441	10/13/15 18:21	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	278702	10/14/15 13:54	CEP	TAL PEN
Total/NA	Prep	8011			35.5 mL	35 mL	278644	10/13/15 16:23	AM	TAL PEN
Total/NA	Analysis	8011		1	35.5 mL	35 mL	278887	10/14/15 20:24	AM	TAL PEN

Client Sample ID: MW6B-ROX-100715

Lab Sample ID: 400-112171-5
Matrix: Water

Date Collected: 10/07/15 11:20
Date Received: 10/08/15 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279588	10/20/15 15:50	CLN	TAL PEN

Client Sample ID: MW6B-ROX-100715

Date Collected: 10/07/15 11:20
Date Received: 10/08/15 10:05

Lab Sample ID: 400-112171-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 14:11	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278441	10/13/15 19:01	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 14:11	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	278702	10/14/15 14:31	CEP	TAL PEN
Total/NA	Prep	8011			31.5 mL	35 mL	278644	10/13/15 16:23	AM	TAL PEN
Total/NA	Analysis	8011		1	31.5 mL	35 mL	278887	10/14/15 20:53	AM	TAL PEN

Client Sample ID: MW6A-ROX-100715EB

Date Collected: 10/07/15 11:45
Date Received: 10/08/15 10:05

Lab Sample ID: 400-112171-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279588	10/20/15 16:14	CLN	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 14:11	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278441	10/13/15 19:42	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 14:11	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	278702	10/14/15 15:08	CEP	TAL PEN
Total/NA	Prep	8011			35.1 mL	35 mL	278644	10/13/15 16:23	AM	TAL PEN
Total/NA	Analysis	8011		1	35.1 mL	35 mL	278887	10/14/15 21:23	AM	TAL PEN

Client Sample ID: MW6A-ROX-100715

Date Collected: 10/07/15 12:15
Date Received: 10/08/15 10:05

Lab Sample ID: 400-112171-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279588	10/20/15 16:40	CLN	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 14:11	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278441	10/13/15 20:22	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 14:11	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	278702	10/14/15 15:46	CEP	TAL PEN
Total/NA	Prep	8011			36 mL	35 mL	278644	10/13/15 16:23	AM	TAL PEN
Total/NA	Analysis	8011		1	36 mL	35 mL	278887	10/14/15 21:53	AM	TAL PEN

Client Sample ID: MW16-ROX-100715

Date Collected: 10/07/15 14:30
Date Received: 10/08/15 10:05

Lab Sample ID: 400-112171-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279588	10/20/15 17:06	CLN	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 14:11	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278483	10/13/15 16:10	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 14:11	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	278702	10/14/15 16:23	CEP	TAL PEN

Client Sample ID: MW16-ROX-100715

Lab Sample ID: 400-112171-8

Date Collected: 10/07/15 14:30
Date Received: 10/08/15 10:05

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			34.5 mL	35 mL	278644	10/13/15 16:23	AM	TAL PEN
Total/NA	Analysis	8011		1	34.5 mL	35 mL	278887	10/14/15 22:22	AM	TAL PEN

Client Sample ID: MW24-ROX-100715

Lab Sample ID: 400-112171-9

Date Collected: 10/07/15 15:25
Date Received: 10/08/15 10:05

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279588	10/20/15 17:32	CLN	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 14:11	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278483	10/13/15 16:48	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 14:11	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	278702	10/14/15 17:00	CEP	TAL PEN
Total/NA	Prep	8011			34.6 mL	35 mL	278644	10/13/15 16:23	AM	TAL PEN
Total/NA	Analysis	8011		1	34.6 mL	35 mL	278981	10/15/15 15:23	AM	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-278376/2-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278441	10/13/15 16:21	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C LL		5	1000 mL	1 mL	278702	10/14/15 12:03	CEP	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-278644/2-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	278644	10/13/15 16:23	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	278887	10/14/15 18:25	AM	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-279588/1002

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279588	10/20/15 09:26	CLN	TAL PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-278376/3-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278441	10/13/15 17:01	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C LL		5	1000 mL	1 mL	278702	10/14/15 12:40	CEP	TAL PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-278644/3-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	278644	10/13/15 16:23	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	278887	10/14/15 18:55	AM	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-278376/1-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278441	10/13/15 15:41	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	278702	10/14/15 11:26	CEP	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-278644/1-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	278644	10/13/15 16:23	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	278887	10/14/15 17:56	AM	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-279588/4

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279588	10/20/15 10:17	CLN	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112171-1
SDG: Proj. 60400249-21563720.03004

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL PEN
8011	EDB and DBCP in Water by Microextraction	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112171-1
SDG: Proj. 60400249-21563720.03004

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	08-31-15 *
Arizona	State Program	9	AZ0710	01-11-16
Arkansas DEQ	State Program	6	88-0689	09-01-16
Florida	NELAP	4	E81010	06-30-16
Georgia	State Program	4	N/A	06-30-16
Iowa	State Program	7	367	07-31-16
Kansas	NELAP	7	E-10253	10-31-15
Kentucky (UST)	State Program	4	53	06-30-16
Kentucky (WW)	State Program	4	98030	12-31-15
Louisiana	NELAP	6	30976	06-30-16
Maryland	State Program	3	233	09-30-16
Massachusetts	State Program	1	M-FL094	06-30-16
Michigan	State Program	5	9912	06-30-16
New Jersey	NELAP	2	FL006	10-30-15
North Carolina (WW/SW)	State Program	4	314	12-31-15
Oklahoma	State Program	6	9810	08-31-16
Pennsylvania	NELAP	3	68-00467	01-31-16
Rhode Island	State Program	1	LAO00307	12-30-15
South Carolina	State Program	4	96026	06-30-15 *
Tennessee	State Program	4	TN02907	06-30-16
Texas	NELAP	6	T104704286-15-9	09-30-16
USDA	Federal		P330-13-00193	07-01-16
Virginia	NELAP	3	460166	06-14-16
West Virginia DEP	State Program	3	136	06-30-16

* Certification renewal pending - certification considered valid.

Shell Oil Products Chain Of Custody Record

AECOM

LAB (LOCATION)

☐ XENCO (_____)
☐ CALSCIENCE (_____) TestAmerica Pensacola; 3355 McLemore Dr.
☑ OTHER (Pensacola, FL 32514 (850-474-1001))
☐ Lab Vendor # (_____)
☐ SPL (_____)

Lab Vendor #

Please Check Appropriate Box:

☑ ENV. SERVICES	☐ MOTIVA RETAIL	☐ SHELL RETAIL
☐ MOTIVA SD&CM	☐ CONSULTANT	☐ LUBES
☐ SHELL PIPELINE	☐ OTHER _____	

Print Bill To Contact Name: Bob Billman

PO #:

INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0

SAP #: 3 4 0 0 6 1

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 7 Oct. 2015

PAGE: 1 of 1

SAMPLING COMPANY: AECOM

LOG CODE:

SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA

STATE: IL

GLOBAL ID NO.:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110

EDF DELIVERABLE TO (Name, Company, Office Location):

PHONE NO.:

E-MAIL:

CONSULTANT PROJECT NO.: Roxana Quarterly GW / 60400249-21563720.03004

PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow

TELEPHONE: 314-429-0100

FAX: 314-429-0462

Bill To Contact E-MAIL: bob.billman@aecom.com; elizabeth.kunkel@aecom.com; lindsay.rathnow@aecom.com

SAMPLER NAME(S) (Print): S. Fisher / D. Haxel

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
* Please include "J" values on Reports.
* Please provide sample receipt upon login.

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

400-112171 COC

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260	VOC 8011	SVOC 8270	PAH 8270LL
	TB-ROX-100715-8260	7/15/15	0000	Water	2					2	X			
	TB-ROX-100715-8011		0000		2					2		X		
	MW6D-ROX-100715		0940		4			3		7	X	X	X	X
	MW6C-ROX-100715		1030		4			3		7	X	X	X	X
	MW6B-ROX-100715		1120		4			3		7	X	X	X	X
	MW6A-ROX-100715-EB		1145		4			3		7	X	X	X	X
	MW6A-ROX-100715		1215		4			3		7	X	X	X	X
	MW16-ROX-100715		1430		4			3		7	X	X	X	X
	MW24-ROX-100715		1525		4			3		7	X	X	X	X

Relinquished by: (Signature)	Received by: (Signature) FED EX # 8092 2040 9704	Date: 7 Oct. 2015	Time: 1645
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date: 10-8-15	Time: 10:05

05/2006 Revision

Custody seals: Test America: 524457, 524458, 524459, 524460 0.5°, 0.2°c, 2.6° c IR6

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10/30/2015

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 400-112171-1
SDG Number: Proj. 60400249-21563720.03004

Login Number: 112171
List Number: 1
Creator: Perez, Trina M

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.5°, 0.2°, 2.6°C IR-6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Roxana Groundwater Quarterly – 4th Quarter 2015 Data Review

Laboratory SDG: 400-112219

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 11/30/2015

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2014

Sample Identification	Sample Identification
TB-ROX-100815-8260	TB-ROX-100815-8011
MW12-ROX-100815	MW12-ROX-100815-Dup
MW9-ROX-100815	MW27-ROX-100815
MW11-ROX-100815	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated di-n-octyl phthalate was detected in the method blank. The LCS/LCSD RPD for benzoic acid was outside evaluation criteria. The surrogate 4-bromofluorobenzene was outside criteria for Method 8011 VOCs in several samples. The VOC MS/MSD recoveries for 2-chloroethyl vinyl ether were outside evaluation criteria in sample MW12-ROX-100815. These issues are addressed further in the appropriate sections below.

Additionally, the initial calibration verification for vinyl acetate, and the continuing calibration verification for 1,2-dibromo-3-chloropropane and ethylene dibromide, exceeded evaluation criteria. Three of 69 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds, results may be biased low due to the presence of HCl in the preservative.

The cooler receipt form indicated insufficient sample volume was received for MS/MSD analysis, however MS/MSD analysis was not requested; no qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/ Amount
MB 400-278376/1-A	SVOCs	Di-n-octyl phthalate	0.553 µg/L

Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification. No qualification of data was required.

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS/LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/ RPD Criteria
LCS/LCSD 400-278376/2-A/3-A	SVOCs	Benzoic acid	19/27	**33**	10-120/30

Analytical data associated with LCS/LCSD RPDs above evaluation criteria did not require qualification; LCS/LCSD recoveries were within evaluation criteria. No qualification of data was required.

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Sample ID	Parameter	Surrogate	Recovery (%)	Criteria (%)
TB-ROX-100815-8011	VOCs by 8011	4-Bromofluorobenzene	**225**	51-149
MW12-ROX-100815	VOCs by 8011	4-Bromofluorobenzene	**232**	51-149
MW12-ROX-100815-Dup	VOCs by 8011	4-Bromofluorobenzene	**243**	51-149
MW9-ROX-100815	VOCs by 8011	4-Bromofluorobenzene	**263**	51-149
MW27-ROX-100815	VOCs by 8011	4-Bromofluorobenzene	**229**	51-149
MW11-ROX-100815	VOCs by 8011	4-Bromofluorobenzene	**237**	51-149

Analytical data reported as non-detect and associated with surrogate recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. Trip blank, TB-ROX-100815-8011 is a quality control sample and did not require qualification. No qualification of data was required.

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

Yes, although not requested, sample MW12-ROX-100815 was spiked and analyzed for Method 8260 VOCs.

Were MS/MSD recoveries within evaluation criteria?

No

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery (%)	RPD	MS/MSD/ RPD Criteria
MW12-ROX-100815	VOCs	2-Chloroethyl vinyl ether	**0/0**	**NC**	10-160/50

LCS/LCSD recoveries were within evaluation criteria; no further qualification of data was required.

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

Yes

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples analyzed as part of this SDG?

No

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
MW12-ROX-100815	MW12-ROX-100815-Dup

Were field duplicates within evaluation criteria?

Yes

11.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; samples analyzed did not require dilution.

12.0 Additional Qualifications

Were additional qualifications applied?

No

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-112219-1
TestAmerica SDG: Proj. 60400249-21563720.02004
Client Project/Site: ROXANA QUARTERLY GW - 4Q15

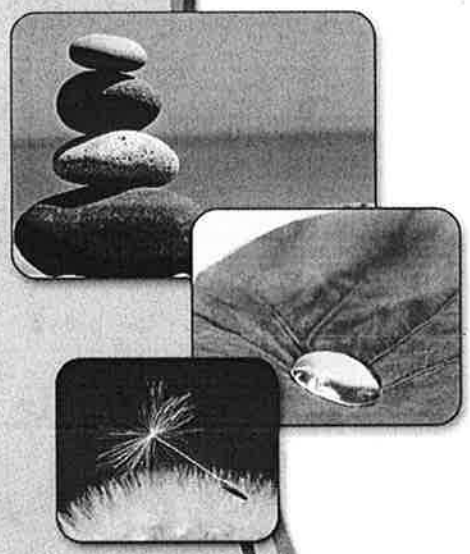
For:
AECOM Technical Services Inc.
1001 Highlands Plaza Dr. West
St. Louis, Missouri 63110

Attn: Mrs. Elizabeth Kunkel

Carolyn S. Hooper

Authorized for release by:
10/30/2015 3:35:55 PM

Carolyn Hooper, Project Manager I
(850)474-1001
carolyn.hooper@testamericainc.com



LINKS

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Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

Reviewed 11/30/15 SH

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 400-112219-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-112219-1

Receipt
The samples were received on 10/9/2015 10:02 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 2.1°C, 2.3°C, 2.3°C and 4.3°C.

GC/MS VOA
Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-279821 were outside control limits for 2-chloroethyl vinyl ether due to the acidic nature of the parent sample.

The RPD for the MS/MSD for 2-chloroethyl vinyl ether was not calculable for batch 279821 because the recoveries were below the reporting limit due to the acidic nature of the parent sample.

The initial calibration verification (ICV) analyzed in batch 400-274907 was outside method criteria for the following analyte: vinyl acetate. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

The preservative (HCL) used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The requested target analyte list includes 2-chloroethyl vinyl ether, acrolein, and acrylonitrile, acid-labile compounds that degrade in an acidic medium.

GC/MS Semi VOA
Method 8270C: The method blank for preparation batch 400-278376 and analytical batch 400-278441 contained Di-n-octyl phthalate above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch (LCSD 400-278376/3-A) recovered outside control limits for the following analytes: Benzoic acid.

GC Semi VOA
Method 8011: Surrogate recovery for the following samples was outside the upper control limit: TB-ROX-100815-8011 (400-112219-2), MW12-ROX-100815 (400-112219-3), MW12-ROX-100815-DUP (400-112219-4), MW9-ROX-100815 (400-112219-5), MW27-ROX-100815 (400-112219-6) and MW11-ROX-100815 (400-112219-7). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

The continuing calibration verification (CCV) associated with batch 400-278887 recovered above the upper control limit for 1,2-Dibromo-3-chloropropane and Ethylene Dibromide . The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: TB-ROX-100815-8011 (400-112219-2), MW12-ROX-100815 (400-112219-3), MW12-ROX-100815-DUP (400-112219-4), MW9-ROX-100815 (400-112219-5), MW27-ROX-100815 (400-112219-6) and MW11-ROX-100815 (400-112219-7).

Organic Prep
Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 400-278376.

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

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112219-1
SDG: Proj. 60400249-21563720.02004

Client Sample ID: TB-ROX-100815-8260 — Lab Sample ID: 400-112219-1

No Detections.

Client Sample ID: TB-ROX-100815-8011 — Lab Sample ID: 400-112219-2

No Detections.

Client Sample ID: MW12-ROX-100815 — Lab Sample ID: 400-112219-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.039	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
1-Methylnaphthalene	0.060	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
2-Methylnaphthalene	0.081	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
Pyrene	0.021	J	0.20	0.020	ug/L	1		8270C LL	Total/NA

Client Sample ID: MW12-ROX-100815-DUP — Lab Sample ID: 400-112219-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.039	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
1-Methylnaphthalene	0.036	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
2-Methylnaphthalene	0.055	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
Pyrene	0.021	J	0.20	0.020	ug/L	1		8270C LL	Total/NA

Client Sample ID: MW9-ROX-100815 — Lab Sample ID: 400-112219-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	0.034	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
2-Methylnaphthalene	0.053	J	0.20	0.020	ug/L	1		8270C LL	Total/NA

Client Sample ID: MW27-ROX-100815 — Lab Sample ID: 400-112219-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.024	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
1-Methylnaphthalene	0.035	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
2-Methylnaphthalene	0.051	J	0.20	0.020	ug/L	1		8270C LL	Total/NA

Client Sample ID: MW11-ROX-100815 — Lab Sample ID: 400-112219-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	0.029	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
2-Methylnaphthalene	0.034	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
Bis(2-ethylhexyl) phthalate	6.8	J	10	2.3	ug/L	1		8270C	Total/NA

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112219-1
SDG: Proj. 60400249-21563720.02004

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-112219-1	TB-ROX-100815-8260	Water	10/08/15 00:00	10/09/15 10:02
400-112219-2	TB-ROX-100815-8011	Water	10/08/15 00:00	10/09/15 10:02
400-112219-3	MW12-ROX-100815	Water	10/08/15 10:25	10/09/15 10:02
400-112219-4	MW12-ROX-100815-DUP	Water	10/08/15 10:25	10/09/15 10:02
400-112219-5	MW9-ROX-100815	Water	10/08/15 11:40	10/09/15 10:02
400-112219-6	MW27-ROX-100815	Water	10/08/15 14:00	10/09/15 10:02
400-112219-7	MW11-ROX-100815	Water	10/08/15 15:00	10/09/15 10:02

Client Sample ID: TB-ROX-100815-8260

Date Collected: 10/08/15 00:00
Date Received: 10/09/15 10:02

Lab Sample ID: 400-112219-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/21/15 12:49	1
Acrolein	ND		20	10	ug/L			10/21/15 12:49	1
Acrylonitrile	ND		10	2.8	ug/L			10/21/15 12:49	1
Benzene	ND		1.0	0.38	ug/L			10/21/15 12:49	1
Bromobenzene	ND		1.0	0.54	ug/L			10/21/15 12:49	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/21/15 12:49	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/21/15 12:49	1
Bromoform	ND		5.0	0.71	ug/L			10/21/15 12:49	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/21/15 12:49	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/21/15 12:49	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/21/15 12:49	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/21/15 12:49	1
Chloroethane	ND		1.0	0.76	ug/L			10/21/15 12:49	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/21/15 12:49	1
Chloroform	ND		1.0	0.60	ug/L			10/21/15 12:49	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/21/15 12:49	1
Chloromethane	ND		1.0	0.83	ug/L			10/21/15 12:49	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 12:49	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/15 12:49	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/21/15 12:49	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/21/15 12:49	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/21/15 12:49	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/21/15 12:49	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/21/15 12:49	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/21/15 12:49	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/21/15 12:49	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 12:49	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 12:49	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 12:49	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 12:49	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/21/15 12:49	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/21/15 12:49	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/21/15 12:49	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/21/15 12:49	1
2-Hexanone	ND		25	3.1	ug/L			10/21/15 12:49	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/21/15 12:49	1
Methyl bromide	ND		1.0	0.98	ug/L			10/21/15 12:49	1
Methylene bromide	ND		5.0	0.59	ug/L			10/21/15 12:49	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/21/15 12:49	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/21/15 12:49	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/21/15 12:49	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/21/15 12:49	1
Naphthalene	ND		1.0	1.0	ug/L			10/21/15 12:49	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/21/15 12:49	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/21/15 12:49	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/21/15 12:49	1
o-Xylene	ND		5.0	0.60	ug/L			10/21/15 12:49	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/21/15 12:49	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/21/15 12:49	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112219-1
SDG: Proj. 60400249-21563720.02004

Client Sample ID: TB-ROX-100815-8260
Date Collected: 10/08/15 00:00
Date Received: 10/09/15 10:02

Lab Sample ID: 400-112219-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/21/15 12:49	1
Styrene	ND		1.0	1.0	ug/L			10/21/15 12:49	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/21/15 12:49	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/21/15 12:49	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/21/15 12:49	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/21/15 12:49	1
Toluene	ND		1.0	0.70	ug/L			10/21/15 12:49	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 12:49	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/15 12:49	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/21/15 12:49	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/21/15 12:49	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/21/15 12:49	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/21/15 12:49	1
Trichloroethene	ND		1.0	0.50	ug/L			10/21/15 12:49	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/21/15 12:49	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/21/15 12:49	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/21/15 12:49	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/21/15 12:49	1
Vinyl acetate	ND		25	2.0	ug/L			10/21/15 12:49	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/21/15 12:49	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/21/15 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*78 - 118*		*10/21/15 12:49*	*1*
Dibromofluoromethane	*97*		*81 - 121*		*10/21/15 12:49*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/21/15 12:49*	*1*

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112219-1
SDG: Proj. 60400249-21563720.02004

Client Sample ID: TB-ROX-100815-8011
Date Collected: 10/08/15 00:00
Date Received: 10/09/15 10:02

Lab Sample ID: 400-112219-2
Matrix: Water

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/13/15 16:23	10/14/15 23:51	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/13/15 16:23	10/14/15 23:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	225	X	*51 - 149*	*10/13/15 16:23*	*10/14/15 23:51*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112219-1
SDG: Proj. 60400249-21563720.02004

Client Sample ID: MW12-ROX-100815
Date Collected: 10/08/15 10:25
Date Received: 10/09/15 10:02

Lab Sample ID: 400-112219-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/21/15 11:22	1
Acrolein	ND		20	10	ug/L			10/21/15 11:22	1
Acrylonitrile	ND		10	2.8	ug/L			10/21/15 11:22	1
Benzene	ND		1.0	0.38	ug/L			10/21/15 11:22	1
Bromobenzene	ND		1.0	0.54	ug/L			10/21/15 11:22	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/21/15 11:22	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/21/15 11:22	1
Bromoform	ND		5.0	0.71	ug/L			10/21/15 11:22	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/21/15 11:22	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/21/15 11:22	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/21/15 11:22	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/21/15 11:22	1
Chloroethane	ND		1.0	0.76	ug/L			10/21/15 11:22	1
2-Chloroethyl vinyl ether	ND	F1	5.0	2.0	ug/L			10/21/15 11:22	1
Chloroform	ND		1.0	0.60	ug/L			10/21/15 11:22	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/21/15 11:22	1
Chloromethane	ND		1.0	0.83	ug/L			10/21/15 11:22	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 11:22	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/15 11:22	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/21/15 11:22	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/21/15 11:22	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/21/15 11:22	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/21/15 11:22	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/21/15 11:22	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/21/15 11:22	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/21/15 11:22	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 11:22	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 11:22	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 11:22	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 11:22	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/21/15 11:22	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/21/15 11:22	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/21/15 11:22	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/21/15 11:22	1
2-Hexanone	ND		25	3.1	ug/L			10/21/15 11:22	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/21/15 11:22	1
Methyl bromide	ND		1.0	0.98	ug/L			10/21/15 11:22	1
Methylene bromide	ND		5.0	0.59	ug/L			10/21/15 11:22	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/21/15 11:22	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/21/15 11:22	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/21/15 11:22	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/21/15 11:22	1
Naphthalene	ND		1.0	1.0	ug/L			10/21/15 11:22	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/21/15 11:22	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/21/15 11:22	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/21/15 11:22	1
o-Xylene	ND		5.0	0.60	ug/L			10/21/15 11:22	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/21/15 11:22	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/21/15 11:22	1

Client Sample ID: MW12-ROX-100815

Date Collected: 10/08/15 10:25
Date Received: 10/09/15 10:02

Lab Sample ID: 400-112219-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/21/15 11:22	1
Styrene	ND		1.0	1.0	ug/L			10/21/15 11:22	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/21/15 11:22	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/21/15 11:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/21/15 11:22	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/21/15 11:22	1
Toluene	ND		1.0	0.70	ug/L			10/21/15 11:22	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 11:22	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/15 11:22	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/21/15 11:22	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/21/15 11:22	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/21/15 11:22	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/21/15 11:22	1
Trichloroethene	ND		1.0	0.50	ug/L			10/21/15 11:22	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/21/15 11:22	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/21/15 11:22	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/21/15 11:22	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/21/15 11:22	1
Vinyl acetate	ND		25	2.0	ug/L			10/21/15 11:22	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/21/15 11:22	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/21/15 11:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*78 - 118*		*10/21/15 11:22*	*1*
Dibromofluoromethane	*97*		*81 - 121*		*10/21/15 11:22*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/21/15 11:22*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 17:37	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 17:37	1
Anthracene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 17:37	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 17:37	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 17:37	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 17:37	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 17:37	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 17:37	1
Chrysene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 17:37	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 17:37	1
Fluoranthene	**0.039**	**J**	0.20	0.020	ug/L		10/12/15 11:00	10/14/15 17:37	1
Fluorene	ND		0.20	0.021	ug/L		10/12/15 11:00	10/14/15 17:37	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 17:37	1
1-Methylnaphthalene	**0.060**	**J**	0.20	0.020	ug/L		10/12/15 11:00	10/14/15 17:37	1
2-Methylnaphthalene	**0.081**	**J**	0.20	0.020	ug/L		10/12/15 11:00	10/14/15 17:37	1
Phenanthrene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 17:37	1
Pyrene	**0.021**	**J**	0.20	0.020	ug/L		10/12/15 11:00	10/14/15 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*98*		*15 - 122*	*10/12/15 11:00*	*10/14/15 17:37*	*1*
Nitrobenzene-d5	*95*		*19 - 130*	*10/12/15 11:00*	*10/14/15 17:37*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112219-1
SDG: Proj. 60400249-21563720.02004

Client Sample ID: MW12-ROX-100815
Date Collected: 10/08/15 10:25
Date Received: 10/09/15 10:02

Lab Sample ID: 400-112219-3
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	*107*		*33 - 138*	*10/12/15 11:00*	*10/14/15 17:37*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/12/15 11:00	10/13/15 17:26	1
Benzenethiol	ND		10	1.7	ug/L		10/12/15 11:00	10/13/15 17:26	1
Benzoic acid	ND	*	30	7.3	ug/L		10/12/15 11:00	10/13/15 17:26	1
Benzyl alcohol	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 17:26	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/12/15 11:00	10/13/15 17:26	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/12/15 11:00	10/13/15 17:26	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/12/15 11:00	10/13/15 17:26	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/12/15 11:00	10/13/15 17:26	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/12/15 11:00	10/13/15 17:26	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/12/15 11:00	10/13/15 17:26	1
4-Chloroaniline	ND		10	3.4	ug/L		10/12/15 11:00	10/13/15 17:26	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/12/15 11:00	10/13/15 17:26	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/12/15 11:00	10/13/15 17:26	1
2-Chlorophenol	ND		10	2.2	ug/L		10/12/15 11:00	10/13/15 17:26	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 17:26	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/12/15 11:00	10/13/15 17:26	1
Dibenzofuran	ND		10	0.52	ug/L		10/12/15 11:00	10/13/15 17:26	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/12/15 11:00	10/13/15 17:26	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/12/15 11:00	10/13/15 17:26	1
Diethyl phthalate	ND		10	0.70	ug/L		10/12/15 11:00	10/13/15 17:26	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 17:26	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/12/15 11:00	10/13/15 17:26	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/12/15 11:00	10/13/15 17:26	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 17:26	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/12/15 11:00	10/13/15 17:26	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 11:00	10/13/15 17:26	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 11:00	10/13/15 17:26	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/12/15 11:00	10/13/15 17:26	1
1,4-Dioxane	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 17:26	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 17:26	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/12/15 11:00	10/13/15 17:26	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/12/15 11:00	10/13/15 17:26	1
Hexachloroethane	ND		10	4.2	ug/L		10/12/15 11:00	10/13/15 17:26	1
Indene	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 17:26	1
Isophorone	ND		10	0.57	ug/L		10/12/15 11:00	10/13/15 17:26	1
2-Methylphenol	ND		10	1.8	ug/L		10/12/15 11:00	10/13/15 17:26	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/12/15 11:00	10/13/15 17:26	1
2-Nitroaniline	ND		10	2.2	ug/L		10/12/15 11:00	10/13/15 17:26	1
3-Nitroaniline	ND		10	1.8	ug/L		10/12/15 11:00	10/13/15 17:26	1
4-Nitroaniline	ND		10	2.5	ug/L		10/12/15 11:00	10/13/15 17:26	1
Nitrobenzene	ND		10	0.55	ug/L		10/12/15 11:00	10/13/15 17:26	1
2-Nitrophenol	ND		10	0.65	ug/L		10/12/15 11:00	10/13/15 17:26	1
4-Nitrophenol	ND		10	2.1	ug/L		10/12/15 11:00	10/13/15 17:26	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 17:26	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112219-1
SDG: Proj. 60400249-21563720.02004

Client Sample ID: MW12-ROX-100815
Date Collected: 10/08/15 10:25
Date Received: 10/09/15 10:02

Lab Sample ID: 400-112219-3
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/12/15 11:00	10/13/15 17:26	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/12/15 11:00	10/13/15 17:26	1
Pentachlorophenol	ND		20	1.8	ug/L		10/12/15 11:00	10/13/15 17:26	1
Phenol	ND		10	2.6	ug/L		10/12/15 11:00	10/13/15 17:26	1
Pyridine	ND		10	3.2	ug/L		10/12/15 11:00	10/13/15 17:26	1
Quinoline	ND		10	6.0	ug/L		10/12/15 11:00	10/13/15 17:26	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/12/15 11:00	10/13/15 17:26	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*34 - 120*	*10/12/15 11:00*	*10/13/15 17:26*	*1*
2-Fluorophenol	*55*		*10 - 120*	*10/12/15 11:00*	*10/13/15 17:26*	*1*
Nitrobenzene-d5	*91*		*27 - 120*	*10/12/15 11:00*	*10/13/15 17:26*	*1*
Phenol-d5	*60*		*10 - 120*	*10/12/15 11:00*	*10/13/15 17:26*	*1*
Terphenyl-d14	*84*		*53 - 125*	*10/12/15 11:00*	*10/13/15 17:26*	*1*
2,4,6-Tribromophenol	*71*		*15 - 135*	*10/12/15 11:00*	*10/13/15 17:26*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0054	ug/L		10/13/15 16:23	10/15/15 00:21	1
1,2-Dibromoethane	ND		0.020	0.0049	ug/L		10/13/15 16:23	10/15/15 00:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*232*	*X*	*51 - 149*	*10/13/15 16:23*	*10/15/15 00:21*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112219-1
SDG: Proj. 60400249-21563720.02004

Client Sample ID: MW12-ROX-100815-DUP
Date Collected: 10/08/15 10:25
Date Received: 10/09/15 10:02

Lab Sample ID: 400-112219-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/21/15 13:11	1
Acrolein	ND		20	10	ug/L			10/21/15 13:11	1
Acrylonitrile	ND		10	2.8	ug/L			10/21/15 13:11	1
Benzene	ND		1.0	0.38	ug/L			10/21/15 13:11	1
Bromobenzene	ND		1.0	0.54	ug/L			10/21/15 13:11	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/21/15 13:11	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/21/15 13:11	1
Bromoform	ND		5.0	0.71	ug/L			10/21/15 13:11	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/21/15 13:11	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/21/15 13:11	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/21/15 13:11	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/21/15 13:11	1
Chloroethane	ND		1.0	0.76	ug/L			10/21/15 13:11	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/21/15 13:11	1
Chloroform	ND		1.0	0.60	ug/L			10/21/15 13:11	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/21/15 13:11	1
Chloromethane	ND		1.0	0.83	ug/L			10/21/15 13:11	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 13:11	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/15 13:11	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/21/15 13:11	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/21/15 13:11	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/21/15 13:11	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/21/15 13:11	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/21/15 13:11	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/21/15 13:11	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/21/15 13:11	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 13:11	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 13:11	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 13:11	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 13:11	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/21/15 13:11	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/21/15 13:11	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/21/15 13:11	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/21/15 13:11	1
2-Hexanone	ND		25	3.1	ug/L			10/21/15 13:11	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/21/15 13:11	1
Methyl bromide	ND		1.0	0.98	ug/L			10/21/15 13:11	1
Methylene bromide	ND		5.0	0.59	ug/L			10/21/15 13:11	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/21/15 13:11	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/21/15 13:11	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/21/15 13:11	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/21/15 13:11	1
Naphthalene	ND		1.0	1.0	ug/L			10/21/15 13:11	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/21/15 13:11	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/21/15 13:11	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/21/15 13:11	1
o-Xylene	ND		5.0	0.60	ug/L			10/21/15 13:11	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/21/15 13:11	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/21/15 13:11	1

Client Sample ID: MW12-ROX-100815-DUP

Date Collected: 10/08/15 10:25
Date Received: 10/09/15 10:02

Lab Sample ID: 400-112219-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/21/15 13:11	1
Styrene	ND		1.0	1.0	ug/L			10/21/15 13:11	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/21/15 13:11	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/21/15 13:11	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/21/15 13:11	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/21/15 13:11	1
Toluene	ND		1.0	0.70	ug/L			10/21/15 13:11	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 13:11	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/15 13:11	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/21/15 13:11	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/21/15 13:11	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/21/15 13:11	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/21/15 13:11	1
Trichloroethene	ND		1.0	0.50	ug/L			10/21/15 13:11	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/21/15 13:11	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/21/15 13:11	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/21/15 13:11	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/21/15 13:11	1
Vinyl acetate	ND		25	2.0	ug/L			10/21/15 13:11	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/21/15 13:11	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/21/15 13:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*78 - 118*		*10/21/15 13:11*	*1*
Dibromofluoromethane	*98*		*81 - 121*		*10/21/15 13:11*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/21/15 13:11*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 18:14	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 18:14	1
Anthracene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 18:14	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 18:14	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 18:14	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 18:14	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 18:14	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 18:14	1
Chrysene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 18:14	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 18:14	1
Fluoranthene	**0.039**	**J**	0.20	0.020	ug/L		10/12/15 11:00	10/14/15 18:14	1
Fluorene	ND		0.20	0.021	ug/L		10/12/15 11:00	10/14/15 18:14	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 18:14	1
1-Methylnaphthalene	**0.036**	**J**	0.20	0.020	ug/L		10/12/15 11:00	10/14/15 18:14	1
2-Methylnaphthalene	**0.055**	**J**	0.20	0.020	ug/L		10/12/15 11:00	10/14/15 18:14	1
Phenanthrene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 18:14	1
Pyrene	**0.021**	**J**	0.20	0.020	ug/L		10/12/15 11:00	10/14/15 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*95*		*15 - 122*	*10/12/15 11:00*	*10/14/15 18:14*	*1*
Nitrobenzene-d5	*95*		*19 - 130*	*10/12/15 11:00*	*10/14/15 18:14*	*1*

Client Sample ID: MW12-ROX-100815-DUP

Date Collected: 10/08/15 10:25
Date Received: 10/09/15 10:02

Lab Sample ID: 400-112219-4

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	115		33 - 138	10/12/15 11:00	10/14/15 18:14	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/12/15 11:00	10/13/15 18:04	1
Benzenethiol	ND		10	1.7	ug/L		10/12/15 11:00	10/13/15 18:04	1
Benzoic acid	ND		30	7.3	ug/L		10/12/15 11:00	10/13/15 18:04	1
Benzyl alcohol	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 18:04	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/12/15 11:00	10/13/15 18:04	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/12/15 11:00	10/13/15 18:04	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/12/15 11:00	10/13/15 18:04	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/12/15 11:00	10/13/15 18:04	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/12/15 11:00	10/13/15 18:04	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/12/15 11:00	10/13/15 18:04	1
4-Chloroaniline	ND		10	3.4	ug/L		10/12/15 11:00	10/13/15 18:04	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/12/15 11:00	10/13/15 18:04	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/12/15 11:00	10/13/15 18:04	1
2-Chlorophenol	ND		10	2.2	ug/L		10/12/15 11:00	10/13/15 18:04	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 18:04	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/12/15 11:00	10/13/15 18:04	1
Dibenzofuran	ND		10	0.52	ug/L		10/12/15 11:00	10/13/15 18:04	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/12/15 11:00	10/13/15 18:04	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/12/15 11:00	10/13/15 18:04	1
Diethyl phthalate	ND		10	0.70	ug/L		10/12/15 11:00	10/13/15 18:04	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 18:04	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/12/15 11:00	10/13/15 18:04	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/12/15 11:00	10/13/15 18:04	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 18:04	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/12/15 11:00	10/13/15 18:04	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 11:00	10/13/15 18:04	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 11:00	10/13/15 18:04	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/12/15 11:00	10/13/15 18:04	1
1,4-Dioxane	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 18:04	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 18:04	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/12/15 11:00	10/13/15 18:04	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/12/15 11:00	10/13/15 18:04	1
Hexachloroethane	ND		10	4.2	ug/L		10/12/15 11:00	10/13/15 18:04	1
Indene	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 18:04	1
Isophorone	ND		10	0.57	ug/L		10/12/15 11:00	10/13/15 18:04	1
2-Methylphenol	ND		10	1.8	ug/L		10/12/15 11:00	10/13/15 18:04	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/12/15 11:00	10/13/15 18:04	1
2-Nitroaniline	ND		10	2.2	ug/L		10/12/15 11:00	10/13/15 18:04	1
3-Nitroaniline	ND		10	1.8	ug/L		10/12/15 11:00	10/13/15 18:04	1
4-Nitroaniline	ND		10	2.5	ug/L		10/12/15 11:00	10/13/15 18:04	1
Nitrobenzene	ND		10	0.55	ug/L		10/12/15 11:00	10/13/15 18:04	1
2-Nitrophenol	ND		10	0.65	ug/L		10/12/15 11:00	10/13/15 18:04	1
4-Nitrophenol	ND		10	2.1	ug/L		10/12/15 11:00	10/13/15 18:04	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 18:04	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112219-1
SDG: Proj. 60400249-21563720.02004

Client Sample ID: MW12-ROX-100815-DUP
Date Collected: 10/08/15 10:25
Date Received: 10/09/15 10:02

Lab Sample ID: 400-112219-4
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/12/15 11:00	10/13/15 18:04	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/12/15 11:00	10/13/15 18:04	1
Pentachlorophenol	ND		20	1.8	ug/L		10/12/15 11:00	10/13/15 18:04	1
Phenol	ND		10	2.6	ug/L		10/12/15 11:00	10/13/15 18:04	1
Pyridine	ND		10	3.2	ug/L		10/12/15 11:00	10/13/15 18:04	1
Quinoline	ND		10	6.0	ug/L		10/12/15 11:00	10/13/15 18:04	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/12/15 11:00	10/13/15 18:04	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*34 - 120*	*10/12/15 11:00*	*10/13/15 18:04*	*1*
2-Fluorophenol	*49*		*10 - 120*	*10/12/15 11:00*	*10/13/15 18:04*	*1*
Nitrobenzene-d5	*87*		*27 - 120*	*10/12/15 11:00*	*10/13/15 18:04*	*1*
Phenol-d5	*68*		*10 - 120*	*10/12/15 11:00*	*10/13/15 18:04*	*1*
Terphenyl-d14	*81*		*53 - 125*	*10/12/15 11:00*	*10/13/15 18:04*	*1*
2,4,6-Tribromophenol	*84*		*15 - 135*	*10/12/15 11:00*	*10/13/15 18:04*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.029	0.0053	ug/L		10/13/15 16:23	10/15/15 00:51	1
1,2-Dibromoethane	ND		0.019	0.0049	ug/L		10/13/15 16:23	10/15/15 00:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*243*	*X*	*51 - 149*	*10/13/15 16:23*	*10/15/15 00:51*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112219-1
SDG: Proj. 60400249-21563720.02004

Client Sample ID: MW9-ROX-100815
Date Collected: 10/08/15 11:40
Date Received: 10/09/15 10:02

Lab Sample ID: 400-112219-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/21/15 13:33	1
Acrolein	ND		20	10	ug/L			10/21/15 13:33	1
Acrylonitrile	ND		10	2.8	ug/L			10/21/15 13:33	1
Benzene	ND		1.0	0.38	ug/L			10/21/15 13:33	1
Bromobenzene	ND		1.0	0.54	ug/L			10/21/15 13:33	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/21/15 13:33	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/21/15 13:33	1
Bromoform	ND		5.0	0.71	ug/L			10/21/15 13:33	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/21/15 13:33	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/21/15 13:33	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/21/15 13:33	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/21/15 13:33	1
Chloroethane	ND		1.0	0.76	ug/L			10/21/15 13:33	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/21/15 13:33	1
Chloroform	ND		1.0	0.60	ug/L			10/21/15 13:33	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/21/15 13:33	1
Chloromethane	ND		1.0	0.83	ug/L			10/21/15 13:33	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 13:33	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/15 13:33	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/21/15 13:33	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/21/15 13:33	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/21/15 13:33	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/21/15 13:33	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/21/15 13:33	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/21/15 13:33	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/21/15 13:33	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 13:33	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 13:33	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 13:33	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 13:33	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/21/15 13:33	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/21/15 13:33	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/21/15 13:33	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/21/15 13:33	1
2-Hexanone	ND		25	3.1	ug/L			10/21/15 13:33	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/21/15 13:33	1
Methyl bromide	ND		1.0	0.98	ug/L			10/21/15 13:33	1
Methylene bromide	ND		5.0	0.59	ug/L			10/21/15 13:33	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/21/15 13:33	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/21/15 13:33	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/21/15 13:33	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/21/15 13:33	1
Naphthalene	ND		1.0	1.0	ug/L			10/21/15 13:33	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/21/15 13:33	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/21/15 13:33	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/21/15 13:33	1
o-Xylene	ND		5.0	0.60	ug/L			10/21/15 13:33	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/21/15 13:33	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/21/15 13:33	1

Client Sample ID: MW9-ROX-100815

Date Collected: 10/08/15 11:40
Date Received: 10/09/15 10:02

Lab Sample ID: 400-112219-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/21/15 13:33	1
Styrene	ND		1.0	1.0	ug/L			10/21/15 13:33	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/21/15 13:33	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/21/15 13:33	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/21/15 13:33	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/21/15 13:33	1
Toluene	ND		1.0	0.70	ug/L			10/21/15 13:33	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 13:33	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/15 13:33	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/21/15 13:33	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/21/15 13:33	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/21/15 13:33	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/21/15 13:33	1
Trichloroethene	ND		1.0	0.50	ug/L			10/21/15 13:33	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/21/15 13:33	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/21/15 13:33	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/21/15 13:33	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/21/15 13:33	1
Vinyl acetate	ND		25	2.0	ug/L			10/21/15 13:33	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/21/15 13:33	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/21/15 13:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*78 - 118*		*10/21/15 13:33*	*1*
Dibromofluoromethane	*97*		*81 - 121*		*10/21/15 13:33*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/21/15 13:33*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 18:51	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 18:51	1
Anthracene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 18:51	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 18:51	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 18:51	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 18:51	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 18:51	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 18:51	1
Chrysene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 18:51	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 18:51	1
Fluoranthene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 18:51	1
Fluorene	ND		0.20	0.021	ug/L		10/12/15 11:00	10/14/15 18:51	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 18:51	1
1-Methylnaphthalene	**0.034**	**J**	0.20	0.020	ug/L		10/12/15 11:00	10/14/15 18:51	1
2-Methylnaphthalene	**0.053**	**J**	0.20	0.020	ug/L		10/12/15 11:00	10/14/15 18:51	1
Phenanthrene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 18:51	1
Pyrene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*109*		*15 - 122*	*10/12/15 11:00*	*10/14/15 18:51*	*1*
Nitrobenzene-d5	*104*		*19 - 130*	*10/12/15 11:00*	*10/14/15 18:51*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112219-1
SDG: Proj. 60400249-21563720.02004

Client Sample ID: MW9-ROX-100815
Date Collected: 10/08/15 11:40
Date Received: 10/09/15 10:02

Lab Sample ID: 400-112219-5
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	134		33 - 138	10/12/15 11:00	10/14/15 18:51	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/12/15 11:00	10/13/15 18:43	1
Benzenethiol	ND		10	1.7	ug/L		10/12/15 11:00	10/13/15 18:43	1
Benzoic acid	ND	*	30	7.3	ug/L		10/12/15 11:00	10/13/15 18:43	1
Benzyl alcohol	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 18:43	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/12/15 11:00	10/13/15 18:43	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/12/15 11:00	10/13/15 18:43	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/12/15 11:00	10/13/15 18:43	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/12/15 11:00	10/13/15 18:43	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/12/15 11:00	10/13/15 18:43	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/12/15 11:00	10/13/15 18:43	1
4-Chloroaniline	ND		10	3.4	ug/L		10/12/15 11:00	10/13/15 18:43	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/12/15 11:00	10/13/15 18:43	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/12/15 11:00	10/13/15 18:43	1
2-Chlorophenol	ND		10	2.2	ug/L		10/12/15 11:00	10/13/15 18:43	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 18:43	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/12/15 11:00	10/13/15 18:43	1
Dibenzofuran	ND		10	0.52	ug/L		10/12/15 11:00	10/13/15 18:43	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/12/15 11:00	10/13/15 18:43	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/12/15 11:00	10/13/15 18:43	1
Diethyl phthalate	ND		10	0.70	ug/L		10/12/15 11:00	10/13/15 18:43	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 18:43	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/12/15 11:00	10/13/15 18:43	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/12/15 11:00	10/13/15 18:43	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 18:43	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/12/15 11:00	10/13/15 18:43	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 11:00	10/13/15 18:43	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 11:00	10/13/15 18:43	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/12/15 11:00	10/13/15 18:43	1
1,4-Dioxane	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 18:43	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 18:43	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/12/15 11:00	10/13/15 18:43	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/12/15 11:00	10/13/15 18:43	1
Hexachloroethane	ND		10	4.2	ug/L		10/12/15 11:00	10/13/15 18:43	1
Indene	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 18:43	1
Isophorone	ND		10	0.57	ug/L		10/12/15 11:00	10/13/15 18:43	1
2-Methylphenol	ND		10	1.8	ug/L		10/12/15 11:00	10/13/15 18:43	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/12/15 11:00	10/13/15 18:43	1
2-Nitroaniline	ND		10	2.2	ug/L		10/12/15 11:00	10/13/15 18:43	1
3-Nitroaniline	ND		10	1.8	ug/L		10/12/15 11:00	10/13/15 18:43	1
4-Nitroaniline	ND		10	2.5	ug/L		10/12/15 11:00	10/13/15 18:43	1
Nitrobenzene	ND		10	0.55	ug/L		10/12/15 11:00	10/13/15 18:43	1
2-Nitrophenol	ND		10	0.65	ug/L		10/12/15 11:00	10/13/15 18:43	1
4-Nitrophenol	ND		10	2.1	ug/L		10/12/15 11:00	10/13/15 18:43	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 18:43	1

Client Sample ID: MW9-ROX-100815
Date Collected: 10/08/15 11:40
Date Received: 10/09/15 10:02

Lab Sample ID: 400-112219-5
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/12/15 11:00	10/13/15 18:43	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/12/15 11:00	10/13/15 18:43	1
Pentachlorophenol	ND		20	1.8	ug/L		10/12/15 11:00	10/13/15 18:43	1
Phenol	ND		10	2.6	ug/L		10/12/15 11:00	10/13/15 18:43	1
Pyridine	ND		10	3.2	ug/L		10/12/15 11:00	10/13/15 18:43	1
Quinoline	ND		10	6.0	ug/L		10/12/15 11:00	10/13/15 18:43	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/12/15 11:00	10/13/15 18:43	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 18:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*84*		*34 - 120*	*10/12/15 11:00*	*10/13/15 18:43*	*1*
2-Fluorophenol	*63*		*10 - 120*	*10/12/15 11:00*	*10/13/15 18:43*	*1*
Nitrobenzene-d5	*96*		*27 - 120*	*10/12/15 11:00*	*10/13/15 18:43*	*1*
Phenol-d5	*74*		*10 - 120*	*10/12/15 11:00*	*10/13/15 18:43*	*1*
Terphenyl-d14	*88*		*53 - 125*	*10/12/15 11:00*	*10/13/15 18:43*	*1*
2,4,6-Tribromophenol	*85*		*15 - 135*	*10/12/15 11:00*	*10/13/15 18:43*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0056	ug/L		10/13/15 16:23	10/15/15 01:21	1
1,2-Dibromoethane	ND		0.020	0.0051	ug/L		10/13/15 16:23	10/15/15 01:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*263*	*X*	*51 - 149*	*10/13/15 16:23*	*10/15/15 01:21*	*1*

Client Sample ID: MW27-ROX-100815

Date Collected: 10/08/15 14:00
Date Received: 10/09/15 10:02

Lab Sample ID: 400-112219-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/21/15 13:55	1
Acrolein	ND		20	10	ug/L			10/21/15 13:55	1
Acrylonitrile	ND		10	2.8	ug/L			10/21/15 13:55	1
Benzene	ND		1.0	0.38	ug/L			10/21/15 13:55	1
Bromobenzene	ND		1.0	0.54	ug/L			10/21/15 13:55	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/21/15 13:55	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/21/15 13:55	1
Bromoform	ND		5.0	0.71	ug/L			10/21/15 13:55	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/21/15 13:55	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/21/15 13:55	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/21/15 13:55	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/21/15 13:55	1
Chloroethane	ND		1.0	0.76	ug/L			10/21/15 13:55	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/21/15 13:55	1
Chloroform	ND		1.0	0.60	ug/L			10/21/15 13:55	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/21/15 13:55	1
Chloromethane	ND		1.0	0.83	ug/L			10/21/15 13:55	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 13:55	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/15 13:55	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/21/15 13:55	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/21/15 13:55	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/21/15 13:55	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/21/15 13:55	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/21/15 13:55	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/21/15 13:55	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/21/15 13:55	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 13:55	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 13:55	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 13:55	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 13:55	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/21/15 13:55	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/21/15 13:55	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/21/15 13:55	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/21/15 13:55	1
2-Hexanone	ND		25	3.1	ug/L			10/21/15 13:55	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/21/15 13:55	1
Methyl bromide	ND		1.0	0.98	ug/L			10/21/15 13:55	1
Methylene bromide	ND		5.0	0.59	ug/L			10/21/15 13:55	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/21/15 13:55	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/21/15 13:55	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/21/15 13:55	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/21/15 13:55	1
Naphthalene	ND		1.0	1.0	ug/L			10/21/15 13:55	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/21/15 13:55	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/21/15 13:55	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/21/15 13:55	1
o-Xylene	ND		5.0	0.60	ug/L			10/21/15 13:55	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/21/15 13:55	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/21/15 13:55	1

Client Sample ID: MW27-ROX-100815

Date Collected: 10/08/15 14:00
Date Received: 10/09/15 10:02

Lab Sample ID: 400-112219-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/21/15 13:55	1
Styrene	ND		1.0	1.0	ug/L			10/21/15 13:55	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/21/15 13:55	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/21/15 13:55	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/21/15 13:55	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/21/15 13:55	1
Toluene	ND		1.0	0.70	ug/L			10/21/15 13:55	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 13:55	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/15 13:55	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/21/15 13:55	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/21/15 13:55	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/21/15 13:55	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/21/15 13:55	1
Trichloroethene	ND		1.0	0.50	ug/L			10/21/15 13:55	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/21/15 13:55	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/21/15 13:55	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/21/15 13:55	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/21/15 13:55	1
Vinyl acetate	ND		25	2.0	ug/L			10/21/15 13:55	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/21/15 13:55	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/21/15 13:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*78 - 118*		*10/21/15 13:55*	*1*
Dibromofluoromethane	*99*		*81 - 121*		*10/21/15 13:55*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/21/15 13:55*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 20:20	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 20:20	1
Anthracene	**0.024**	**J**	0.20	0.020	ug/L		10/12/15 11:00	10/14/15 20:20	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 20:20	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 20:20	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 20:20	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 20:20	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 20:20	1
Chrysene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 20:20	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 20:20	1
Fluoranthene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 20:20	1
Fluorene	ND		0.20	0.021	ug/L		10/12/15 11:00	10/14/15 20:20	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 20:20	1
1-Methylnaphthalene	**0.035**	**J**	0.20	0.020	ug/L		10/12/15 11:00	10/14/15 20:20	1
2-Methylnaphthalene	**0.051**	**J**	0.20	0.020	ug/L		10/12/15 11:00	10/14/15 20:20	1
Phenanthrene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 20:20	1
Pyrene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 20:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*95*		*15 - 122*	*10/12/15 11:00*	*10/14/15 20:20*	*1*
Nitrobenzene-d5	*92*		*19 - 130*	*10/12/15 11:00*	*10/14/15 20:20*	*1*

Client Sample ID: MW27-ROX-100815

Date Collected: 10/08/15 14:00
Date Received: 10/09/15 10:02

Lab Sample ID: 400-112219-6

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	135		33 - 138	10/12/15 11:00	10/14/15 20:20	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/12/15 11:00	10/13/15 19:21	1
Benzenethiol	ND		10	1.7	ug/L		10/12/15 11:00	10/13/15 19:21	1
Benzoic acid	ND	*	30	7.3	ug/L		10/12/15 11:00	10/13/15 19:21	1
Benzyl alcohol	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 19:21	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/12/15 11:00	10/13/15 19:21	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/12/15 11:00	10/13/15 19:21	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/12/15 11:00	10/13/15 19:21	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/12/15 11:00	10/13/15 19:21	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/12/15 11:00	10/13/15 19:21	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/12/15 11:00	10/13/15 19:21	1
4-Chloroaniline	ND		10	3.4	ug/L		10/12/15 11:00	10/13/15 19:21	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/12/15 11:00	10/13/15 19:21	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/12/15 11:00	10/13/15 19:21	1
2-Chlorophenol	ND		10	2.2	ug/L		10/12/15 11:00	10/13/15 19:21	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 19:21	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/12/15 11:00	10/13/15 19:21	1
Dibenzofuran	ND		10	0.52	ug/L		10/12/15 11:00	10/13/15 19:21	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/12/15 11:00	10/13/15 19:21	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/12/15 11:00	10/13/15 19:21	1
Diethyl phthalate	ND		10	0.70	ug/L		10/12/15 11:00	10/13/15 19:21	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 19:21	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/12/15 11:00	10/13/15 19:21	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/12/15 11:00	10/13/15 19:21	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 19:21	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/12/15 11:00	10/13/15 19:21	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 11:00	10/13/15 19:21	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 11:00	10/13/15 19:21	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/12/15 11:00	10/13/15 19:21	1
1,4-Dioxane	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 19:21	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 19:21	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/12/15 11:00	10/13/15 19:21	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/12/15 11:00	10/13/15 19:21	1
Hexachloroethane	ND		10	4.2	ug/L		10/12/15 11:00	10/13/15 19:21	1
Indene	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 19:21	1
Isophorone	ND		10	0.57	ug/L		10/12/15 11:00	10/13/15 19:21	1
2-Methylphenol	ND		10	1.8	ug/L		10/12/15 11:00	10/13/15 19:21	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/12/15 11:00	10/13/15 19:21	1
2-Nitroaniline	ND		10	2.2	ug/L		10/12/15 11:00	10/13/15 19:21	1
3-Nitroaniline	ND		10	1.8	ug/L		10/12/15 11:00	10/13/15 19:21	1
4-Nitroaniline	ND		10	2.5	ug/L		10/12/15 11:00	10/13/15 19:21	1
Nitrobenzene	ND		10	0.55	ug/L		10/12/15 11:00	10/13/15 19:21	1
2-Nitrophenol	ND		10	0.65	ug/L		10/12/15 11:00	10/13/15 19:21	1
4-Nitrophenol	ND		10	2.1	ug/L		10/12/15 11:00	10/13/15 19:21	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 19:21	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112219-1
SDG: Proj. 60400249-21563720.02004

Client Sample ID: MW27-ROX-100815
Date Collected: 10/08/15 14:00
Date Received: 10/09/15 10:02

Lab Sample ID: 400-112219-6
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/12/15 11:00	10/13/15 19:21	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/12/15 11:00	10/13/15 19:21	1
Pentachlorophenol	ND		20	1.8	ug/L		10/12/15 11:00	10/13/15 19:21	1
Phenol	ND		10	2.6	ug/L		10/12/15 11:00	10/13/15 19:21	1
Pyridine	ND		10	3.2	ug/L		10/12/15 11:00	10/13/15 19:21	1
Quinoline	ND		10	6.0	ug/L		10/12/15 11:00	10/13/15 19:21	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/12/15 11:00	10/13/15 19:21	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*34 - 120*	*10/12/15 11:00*	*10/13/15 19:21*	*1*
2-Fluorophenol	*56*		*10 - 120*	*10/12/15 11:00*	*10/13/15 19:21*	*1*
Nitrobenzene-d5	*86*		*27 - 120*	*10/12/15 11:00*	*10/13/15 19:21*	*1*
Phenol-d5	*63*		*10 - 120*	*10/12/15 11:00*	*10/13/15 19:21*	*1*
Terphenyl-d14	*86*		*53 - 125*	*10/12/15 11:00*	*10/13/15 19:21*	*1*
2,4,6-Tribromophenol	*78*		*15 - 135*	*10/12/15 11:00*	*10/13/15 19:21*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.031	0.0058	ug/L		10/13/15 16:23	10/15/15 01:50	1
1,2-Dibromoethane	ND		0.021	0.0052	ug/L		10/13/15 16:23	10/15/15 01:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*229*	*X*	*51 - 149*	*10/13/15 16:23*	*10/15/15 01:50*	*1*

Client Sample ID: MW11-ROX-100815

Date Collected: 10/08/15 15:00
Date Received: 10/09/15 10:02

Lab Sample ID: 400-112219-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/21/15 14:17	1
Acrolein	ND		20	10	ug/L			10/21/15 14:17	1
Acrylonitrile	ND		10	2.8	ug/L			10/21/15 14:17	1
Benzene	ND		1.0	0.38	ug/L			10/21/15 14:17	1
Bromobenzene	ND		1.0	0.54	ug/L			10/21/15 14:17	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/21/15 14:17	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/21/15 14:17	1
Bromoform	ND		5.0	0.71	ug/L			10/21/15 14:17	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/21/15 14:17	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/21/15 14:17	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/21/15 14:17	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/21/15 14:17	1
Chloroethane	ND		1.0	0.76	ug/L			10/21/15 14:17	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/21/15 14:17	1
Chloroform	ND		1.0	0.60	ug/L			10/21/15 14:17	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/21/15 14:17	1
Chloromethane	ND		1.0	0.83	ug/L			10/21/15 14:17	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 14:17	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/15 14:17	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/21/15 14:17	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/21/15 14:17	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/21/15 14:17	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/21/15 14:17	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/21/15 14:17	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/21/15 14:17	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/21/15 14:17	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 14:17	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 14:17	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 14:17	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 14:17	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/21/15 14:17	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/21/15 14:17	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/21/15 14:17	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/21/15 14:17	1
2-Hexanone	ND		25	3.1	ug/L			10/21/15 14:17	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/21/15 14:17	1
Methyl bromide	ND		1.0	0.98	ug/L			10/21/15 14:17	1
Methylene bromide	ND		5.0	0.59	ug/L			10/21/15 14:17	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/21/15 14:17	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/21/15 14:17	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/21/15 14:17	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/21/15 14:17	1
Naphthalene	ND		1.0	1.0	ug/L			10/21/15 14:17	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/21/15 14:17	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/21/15 14:17	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/21/15 14:17	1
o-Xylene	ND		5.0	0.60	ug/L			10/21/15 14:17	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/21/15 14:17	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/21/15 14:17	1

Client Sample ID: MW11-ROX-100815

Date Collected: 10/08/15 15:00
Date Received: 10/09/15 10:02

Lab Sample ID: 400-112219-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/21/15 14:17	1
Styrene	ND		1.0	1.0	ug/L			10/21/15 14:17	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/21/15 14:17	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/21/15 14:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/21/15 14:17	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/21/15 14:17	1
Toluene	ND		1.0	0.70	ug/L			10/21/15 14:17	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 14:17	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/15 14:17	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/21/15 14:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/21/15 14:17	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/21/15 14:17	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/21/15 14:17	1
Trichloroethene	ND		1.0	0.50	ug/L			10/21/15 14:17	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/21/15 14:17	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/21/15 14:17	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/21/15 14:17	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/21/15 14:17	1
Vinyl acetate	ND		25	2.0	ug/L			10/21/15 14:17	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/21/15 14:17	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/21/15 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*78 - 118*		*10/21/15 14:17*	*1*
Dibromofluoromethane	*97*		*81 - 121*		*10/21/15 14:17*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/21/15 14:17*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 20:57	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 20:57	1
Anthracene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 20:57	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 20:57	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 20:57	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 20:57	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 20:57	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 20:57	1
Chrysene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 20:57	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 20:57	1
Fluoranthene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 20:57	1
Fluorene	ND		0.20	0.021	ug/L		10/12/15 11:00	10/14/15 20:57	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 20:57	1
1-Methylnaphthalene	**0.029**	J	0.20	0.020	ug/L		10/12/15 11:00	10/14/15 20:57	1
2-Methylnaphthalene	**0.034**	J	0.20	0.020	ug/L		10/12/15 11:00	10/14/15 20:57	1
Phenanthrene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 20:57	1
Pyrene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 20:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*93*		*15 - 122*	*10/12/15 11:00*	*10/14/15 20:57*	*1*
Nitrobenzene-d5	*87*		*19 - 130*	*10/12/15 11:00*	*10/14/15 20:57*	*1*

Client Sample ID: MW11-ROX-100815

Date Collected: 10/08/15 15:00
Date Received: 10/09/15 10:02

Lab Sample ID: 400-112219-7

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	134		33 - 138	10/12/15 11:00	10/14/15 20:57	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/12/15 11:00	10/13/15 19:59	1
Benzenethiol	ND		10	1.7	ug/L		10/12/15 11:00	10/13/15 19:59	1
Benzoic acid	ND	*	30	7.3	ug/L		10/12/15 11:00	10/13/15 19:59	1
Benzyl alcohol	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 19:59	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/12/15 11:00	10/13/15 19:59	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/12/15 11:00	10/13/15 19:59	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/12/15 11:00	10/13/15 19:59	1
Bis(2-ethylhexyl) phthalate	**6.8**	**J**	10	2.3	ug/L		10/12/15 11:00	10/13/15 19:59	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/12/15 11:00	10/13/15 19:59	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/12/15 11:00	10/13/15 19:59	1
4-Chloroaniline	ND		10	3.4	ug/L		10/12/15 11:00	10/13/15 19:59	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/12/15 11:00	10/13/15 19:59	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/12/15 11:00	10/13/15 19:59	1
2-Chlorophenol	ND		10	2.2	ug/L		10/12/15 11:00	10/13/15 19:59	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 19:59	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/12/15 11:00	10/13/15 19:59	1
Dibenzofuran	ND		10	0.52	ug/L		10/12/15 11:00	10/13/15 19:59	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/12/15 11:00	10/13/15 19:59	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/12/15 11:00	10/13/15 19:59	1
Diethyl phthalate	ND		10	0.70	ug/L		10/12/15 11:00	10/13/15 19:59	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 19:59	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/12/15 11:00	10/13/15 19:59	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/12/15 11:00	10/13/15 19:59	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 19:59	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/12/15 11:00	10/13/15 19:59	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 11:00	10/13/15 19:59	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 11:00	10/13/15 19:59	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/12/15 11:00	10/13/15 19:59	1
1,4-Dioxane	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 19:59	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 19:59	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/12/15 11:00	10/13/15 19:59	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/12/15 11:00	10/13/15 19:59	1
Hexachloroethane	ND		10	4.2	ug/L		10/12/15 11:00	10/13/15 19:59	1
Indene	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 19:59	1
Isophorone	ND		10	0.57	ug/L		10/12/15 11:00	10/13/15 19:59	1
2-Methylphenol	ND		10	1.8	ug/L		10/12/15 11:00	10/13/15 19:59	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/12/15 11:00	10/13/15 19:59	1
2-Nitroaniline	ND		10	2.2	ug/L		10/12/15 11:00	10/13/15 19:59	1
3-Nitroaniline	ND		10	1.8	ug/L		10/12/15 11:00	10/13/15 19:59	1
4-Nitroaniline	ND		10	2.5	ug/L		10/12/15 11:00	10/13/15 19:59	1
Nitrobenzene	ND		10	0.55	ug/L		10/12/15 11:00	10/13/15 19:59	1
2-Nitrophenol	ND		10	0.65	ug/L		10/12/15 11:00	10/13/15 19:59	1
4-Nitrophenol	ND		10	2.1	ug/L		10/12/15 11:00	10/13/15 19:59	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 19:59	1

Client Sample ID: MW11-ROX-100815

Date Collected: 10/08/15 15:00
Date Received: 10/09/15 10:02

Lab Sample ID: 400-112219-7

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/12/15 11:00	10/13/15 19:59	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/12/15 11:00	10/13/15 19:59	1
Pentachlorophenol	ND		20	1.8	ug/L		10/12/15 11:00	10/13/15 19:59	1
Phenol	ND		10	2.6	ug/L		10/12/15 11:00	10/13/15 19:59	1
Pyridine	ND		10	3.2	ug/L		10/12/15 11:00	10/13/15 19:59	1
Quinoline	ND		10	6.0	ug/L		10/12/15 11:00	10/13/15 19:59	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/12/15 11:00	10/13/15 19:59	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*34 - 120*	*10/12/15 11:00*	*10/13/15 19:59*	*1*
2-Fluorophenol	*58*		*10 - 120*	*10/12/15 11:00*	*10/13/15 19:59*	*1*
Nitrobenzene-d5	*84*		*27 - 120*	*10/12/15 11:00*	*10/13/15 19:59*	*1*
Phenol-d5	*71*		*10 - 120*	*10/12/15 11:00*	*10/13/15 19:59*	*1*
Terphenyl-d14	*88*		*53 - 125*	*10/12/15 11:00*	*10/13/15 19:59*	*1*
2,4,6-Tribromophenol	*85*		*15 - 135*	*10/12/15 11:00*	*10/13/15 19:59*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.029	0.0054	ug/L		10/13/15 16:23	10/15/15 02:20	1
1,2-Dibromoethane	ND		0.020	0.0049	ug/L		10/13/15 16:23	10/15/15 02:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*237*	*X*	*51 - 149*	*10/13/15 16:23*	*10/15/15 02:20*	*1*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

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

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Glossary

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

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112219-1
SDG: Proj. 60400249-21563720.02004

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(78-118)	(81-121)	(80-120)
400-112219-1	TB-ROX-100815-8260	103	97	98
400-112219-3	MW12-ROX-100815	102	97	97
400-112219-3 MS	MW12-ROX-100815	101	103	97
400-112219-3 MSD	MW12-ROX-100815	103	103	98
400-112219-4	MW12-ROX-100815-DUP	98	98	98
400-112219-5	MW9-ROX-100815	101	97	97
400-112219-6	MW27-ROX-100815	100	99	101
400-112219-7	MW11-ROX-100815	98	97	99
LCS 400-279821/1002	Lab Control Sample	101	105	96
MB 400-279821/4	Method Blank	102	103	97

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	Client Sample ID	(34-120)	(10-120)	(27-120)	(10-120)	(53-125)	(15-135)
400-112219-3	MW12-ROX-100815	82	55	91	60	84	71
400-112219-4	MW12-ROX-100815-DUP	79	49	87	68	81	84
400-112219-5	MW9-ROX-100815	84	63	96	74	88	85
400-112219-6	MW27-ROX-100815	82	56	86	63	86	78
400-112219-7	MW11-ROX-100815	76	58	84	71	88	85
LCS 400-278376/2-A	Lab Control Sample	88	71	92	73	94	108
LCSD 400-278376/3-A	Lab Control Sample Dup	82	68	87	73	86	100
MB 400-278376/1-A	Method Blank	76	42	87	72	98	89

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPH
Lab Sample ID	Client Sample ID	(15-122)	(19-130)	(33-138)
400-112219-3	MW12-ROX-100815	98	95	107
400-112219-4	MW12-ROX-100815-DUP	95	95	115
400-112219-5	MW9-ROX-100815	109	104	134
400-112219-6	MW27-ROX-100815	95	92	135
400-112219-7	MW11-ROX-100815	93	87	134

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPH
Lab Sample ID	Client Sample ID	(15-122)	(19-130)	(33-138)
LCS 400-278376/2-A	Lab Control Sample	96	101	106
LCSD 400-278376/3-A	Lab Control Sample Dup	94	103	102
MB 400-278376/1-A	Method Blank	92	100	131

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5
TPH = Terphenyl-d14

Method: 8011 - EDB and DBCP in Water by Microextraction

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

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(51-149)
400-112219-2	TB-ROX-100815-8011	225 X
400-112219-3	MW12-ROX-100815	232 X
400-112219-4	MW12-ROX-100815-DUP	243 X
400-112219-5	MW9-ROX-100815	263 X
400-112219-6	MW27-ROX-100815	229 X
400-112219-7	MW11-ROX-100815	237 X
LCS 400-278644/2-A	Lab Control Sample	103
LCSD 400-278644/3-A	Lab Control Sample Dup	123
MB 400-278644/1-A	Method Blank	136

Surrogate Legend

BFB = 4-Bromofluorobenzene

GC/MS VOA

Analysis Batch: 279821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112219-1	TB-ROX-100815-8260	Total/NA	Water	8260B	
400-112219-3	MW12-ROX-100815	Total/NA	Water	8260B	
400-112219-3 MS	MW12-ROX-100815	Total/NA	Water	8260B	
400-112219-3 MSD	MW12-ROX-100815	Total/NA	Water	8260B	
400-112219-4	MW12-ROX-100815-DUP	Total/NA	Water	8260B	
400-112219-5	MW9-ROX-100815	Total/NA	Water	8260B	
400-112219-6	MW27-ROX-100815	Total/NA	Water	8260B	
400-112219-7	MW11-ROX-100815	Total/NA	Water	8260B	
LCS 400-279821/1002	Lab Control Sample	Total/NA	Water	8260B	
MB 400-279821/4	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 278376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112219-3	MW12-ROX-100815	Total/NA	Water	3520C	
400-112219-4	MW12-ROX-100815-DUP	Total/NA	Water	3520C	
400-112219-5	MW9-ROX-100815	Total/NA	Water	3520C	
400-112219-6	MW27-ROX-100815	Total/NA	Water	3520C	
400-112219-7	MW11-ROX-100815	Total/NA	Water	3520C	
LCS 400-278376/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-278376/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 400-278376/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 278441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-278376/2-A	Lab Control Sample	Total/NA	Water	8270C	278376
LCSD 400-278376/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	278376
MB 400-278376/1-A	Method Blank	Total/NA	Water	8270C	278376

Analysis Batch: 278483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112219-3	MW12-ROX-100815	Total/NA	Water	8270C	278376
400-112219-4	MW12-ROX-100815-DUP	Total/NA	Water	8270C	278376
400-112219-5	MW9-ROX-100815	Total/NA	Water	8270C	278376
400-112219-6	MW27-ROX-100815	Total/NA	Water	8270C	278376
400-112219-7	MW11-ROX-100815	Total/NA	Water	8270C	278376

Analysis Batch: 278702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112219-3	MW12-ROX-100815	Total/NA	Water	8270C LL	278376
400-112219-4	MW12-ROX-100815-DUP	Total/NA	Water	8270C LL	278376
400-112219-5	MW9-ROX-100815	Total/NA	Water	8270C LL	278376
LCS 400-278376/2-A	Lab Control Sample	Total/NA	Water	8270C LL	278376
LCSD 400-278376/3-A	Lab Control Sample Dup	Total/NA	Water	8270C LL	278376
MB 400-278376/1-A	Method Blank	Total/NA	Water	8270C LL	278376

Analysis Batch: 278836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112219-6	MW27-ROX-100815	Total/NA	Water	8270C LL	278376

GC/MS Semi VOA (Continued)

Analysis Batch: 278836 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112219-7	MW11-ROX-100815	Total/NA	Water	8270C LL	278376

GC Semi VOA

Prep Batch: 278644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112219-2	TB-ROX-100815-8011	Total/NA	Water	8011	
400-112219-3	MW12-ROX-100815	Total/NA	Water	8011	
400-112219-4	MW12-ROX-100815-DUP	Total/NA	Water	8011	
400-112219-5	MW9-ROX-100815	Total/NA	Water	8011	
400-112219-6	MW27-ROX-100815	Total/NA	Water	8011	
400-112219-7	MW11-ROX-100815	Total/NA	Water	8011	
LCS 400-278644/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 400-278644/3-A	Lab Control Sample Dup	Total/NA	Water	8011	
MB 400-278644/1-A	Method Blank	Total/NA	Water	8011	

Analysis Batch: 278887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112219-2	TB-ROX-100815-8011	Total/NA	Water	8011	278644
400-112219-3	MW12-ROX-100815	Total/NA	Water	8011	278644
400-112219-4	MW12-ROX-100815-DUP	Total/NA	Water	8011	278644
400-112219-5	MW9-ROX-100815	Total/NA	Water	8011	278644
400-112219-6	MW27-ROX-100815	Total/NA	Water	8011	278644
400-112219-7	MW11-ROX-100815	Total/NA	Water	8011	278644
LCS 400-278644/2-A	Lab Control Sample	Total/NA	Water	8011	278644
LCSD 400-278644/3-A	Lab Control Sample Dup	Total/NA	Water	8011	278644
MB 400-278644/1-A	Method Blank	Total/NA	Water	8011	278644

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

Lab Sample ID: MB 400-279821/4
Matrix: Water
Analysis Batch: 279821

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/21/15 11:00	1
Acrolein	ND		20	10	ug/L			10/21/15 11:00	1
Acrylonitrile	ND		10	2.8	ug/L			10/21/15 11:00	1
Benzene	ND		1.0	0.38	ug/L			10/21/15 11:00	1
Bromobenzene	ND		1.0	0.54	ug/L			10/21/15 11:00	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/21/15 11:00	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/21/15 11:00	1
Bromoform	ND		5.0	0.71	ug/L			10/21/15 11:00	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/21/15 11:00	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/21/15 11:00	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/21/15 11:00	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/21/15 11:00	1
Chloroethane	ND		1.0	0.76	ug/L			10/21/15 11:00	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/21/15 11:00	1
Chloroform	ND		1.0	0.60	ug/L			10/21/15 11:00	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/21/15 11:00	1
Chloromethane	ND		1.0	0.83	ug/L			10/21/15 11:00	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 11:00	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/15 11:00	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/21/15 11:00	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/21/15 11:00	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/21/15 11:00	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/21/15 11:00	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/21/15 11:00	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/21/15 11:00	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/21/15 11:00	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 11:00	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 11:00	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 11:00	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 11:00	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/21/15 11:00	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/21/15 11:00	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/21/15 11:00	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/21/15 11:00	1
2-Hexanone	ND		25	3.1	ug/L			10/21/15 11:00	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/21/15 11:00	1
Methyl bromide	ND		1.0	0.98	ug/L			10/21/15 11:00	1
Methylene bromide	ND		5.0	0.59	ug/L			10/21/15 11:00	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/21/15 11:00	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/21/15 11:00	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/21/15 11:00	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/21/15 11:00	1
Naphthalene	ND		1.0	1.0	ug/L			10/21/15 11:00	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/21/15 11:00	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/21/15 11:00	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/21/15 11:00	1
o-Xylene	ND		5.0	0.60	ug/L			10/21/15 11:00	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/21/15 11:00	1

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

Lab Sample ID: MB 400-279821/4
Matrix: Water
Analysis Batch: 279821

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/21/15 11:00	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/21/15 11:00	1
Styrene	ND		1.0	1.0	ug/L			10/21/15 11:00	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/21/15 11:00	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/21/15 11:00	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/21/15 11:00	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/21/15 11:00	1
Toluene	ND		1.0	0.70	ug/L			10/21/15 11:00	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 11:00	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/15 11:00	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/21/15 11:00	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/21/15 11:00	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/21/15 11:00	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/21/15 11:00	1
Trichloroethene	ND		1.0	0.50	ug/L			10/21/15 11:00	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/21/15 11:00	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/21/15 11:00	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/21/15 11:00	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/21/15 11:00	1
Vinyl acetate	ND		25	2.0	ug/L			10/21/15 11:00	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/21/15 11:00	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/21/15 11:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*78 - 118*		*10/21/15 11:00*	*1*
Dibromofluoromethane	*103*		*81 - 121*		*10/21/15 11:00*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/21/15 11:00*	*1*

Lab Sample ID: LCS 400-279821/1002
Matrix: Water
Analysis Batch: 279821

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	251		ug/L		126	43 - 160
Acrolein	500	468		ug/L		94	38 - 160
Acrylonitrile	500	495		ug/L		99	64 - 142
Benzene	50.0	44.6		ug/L		89	70 - 130
Bromobenzene	50.0	38.2		ug/L		76	70 - 132
Bromochloromethane	50.0	41.3		ug/L		83	70 - 130
Bromodichloromethane	50.0	41.5		ug/L		83	67 - 133
Bromoform	50.0	29.0		ug/L		58	57 - 140
2-Butanone (MEK)	200	212		ug/L		106	61 - 145
Carbon disulfide	50.0	35.4		ug/L		71	61 - 137
Carbon tetrachloride	50.0	40.4		ug/L		81	61 - 137
Chlorobenzene	50.0	40.0		ug/L		80	70 - 130
Chloroethane	50.0	44.1		ug/L		88	55 - 141
2-Chloroethyl vinyl ether	50.0	47.8		ug/L		96	10 - 160
Chloroform	50.0	45.3		ug/L		91	69 - 130

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

Lab Sample ID: LCS 400-279821/1002
Matrix: Water
Analysis Batch: 279821

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Chlorohexane	50.0	43.6		ug/L		87	69 - 130
Chloromethane	50.0	35.7		ug/L		71	58 - 137
cis-1,2-Dichloroethene	50.0	44.5		ug/L		89	68 - 130
cis-1,3-Dichloropropene	50.0	41.9		ug/L		84	69 - 132
Dibromochloromethane	50.0	36.6		ug/L		73	67 - 135
1,2-Dichlorobenzene	50.0	38.8		ug/L		78	67 - 130
1,3-Dichlorobenzene	50.0	38.8		ug/L		78	70 - 130
1,4-Dichlorobenzene	50.0	39.2		ug/L		78	70 - 130
Dichlorodifluoromethane	50.0	30.7		ug/L		61	41 - 146
1,1-Dichloroethane	50.0	45.1		ug/L		90	70 - 130
1,2-Dichloroethane	50.0	49.9		ug/L		100	69 - 130
1,1-Dichloroethene	50.0	41.5		ug/L		83	63 - 134
1,2-Dichloropropane	50.0	46.4		ug/L		93	70 - 130
1,3-Dichloropropane	50.0	43.1		ug/L		86	70 - 130
2,2-Dichloropropane	50.0	39.0		ug/L		78	52 - 135
1,1-Dichloropropene	50.0	44.8		ug/L		90	70 - 130
Ethylbenzene	50.0	40.6		ug/L		81	70 - 130
Ethyl methacrylate	50.0	43.9		ug/L		88	68 - 130
Hexachlorobutadiene	50.0	37.5		ug/L		75	53 - 140
2-Hexanone	200	207		ug/L		104	65 - 137
Isopropylbenzene	50.0	40.4		ug/L		81	70 - 130
Methyl bromide	50.0	49.4		ug/L		99	10 - 160
Methylene bromide	50.0	46.2		ug/L		92	70 - 130
Methylene Chloride	50.0	45.5		ug/L		91	66 - 135
4-Methyl-2-pentanone (MIBK)	200	202		ug/L		101	69 - 138
Methyl tert-butyl ether	50.0	46.7		ug/L		93	66 - 130
m-Xylene & p-Xylene	50.0	40.6		ug/L		81	70 - 130
Naphthalene	50.0	38.3		ug/L		77	47 - 149
n-Butylbenzene	50.0	42.6		ug/L		85	67 - 130
N-Propylbenzene	50.0	42.0		ug/L		84	70 - 130
o-Chlorotoluene	50.0	41.0		ug/L		82	70 - 130
o-Xylene	50.0	40.2		ug/L		80	70 - 130
p-Chlorotoluene	50.0	40.8		ug/L		82	70 - 130
p-Isopropyltoluene	50.0	39.6		ug/L		79	65 - 130
sec-Butylbenzene	50.0	40.2		ug/L		80	66 - 130
Styrene	50.0	39.5		ug/L		79	70 - 130
tert-Butylbenzene	50.0	39.3		ug/L		79	64 - 139
1,1,1,2-Tetrachloroethane	50.0	36.9		ug/L		74	67 - 131
1,1,2,2-Tetrachloroethane	50.0	44.9		ug/L		90	70 - 131
Tetrachloroethene	50.0	34.5		ug/L		69	65 - 130
Toluene	50.0	41.4		ug/L		83	70 - 130
trans-1,2-Dichloroethene	50.0	42.7		ug/L		85	70 - 130
trans-1,3-Dichloropropene	50.0	39.3		ug/L		79	63 - 130
1,2,3-Trichlorobenzene	50.0	36.5		ug/L		73	60 - 138
1,2,4-Trichlorobenzene	50.0	37.1		ug/L		74	60 - 140
1,1,1-Trichloroethane	50.0	41.7		ug/L		83	68 - 130
1,1,2-Trichloroethane	50.0	42.2		ug/L		84	70 - 130
Trichloroethene	50.0	40.6		ug/L		81	70 - 130

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

Lab Sample ID: LCS 400-279821/1002
Matrix: Water
Analysis Batch: 279821

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	42.6		ug/L		85	65 - 138
1,2,3-Trichloropropane	50.0	42.9		ug/L		86	70 - 130
1,2,4-Trimethylbenzene	50.0	40.3		ug/L		81	70 - 130
1,3,5-Trimethylbenzene	50.0	39.9		ug/L		80	69 - 130
Vinyl acetate	100	83.6		ug/L		84	26 - 160
Vinyl chloride	50.0	40.7		ug/L		81	59 - 136
Xylenes, Total	100	80.8		ug/L		81	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*78 - 118*
Dibromofluoromethane	*105*		*81 - 121*
Toluene-d8 (Surr)	*96*		*80 - 120*

Lab Sample ID: 400-112219-3 MS
Matrix: Water
Analysis Batch: 279821

Client Sample ID: MW12-ROX-100815
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		200	191		ug/L		95	43 - 160
Acrolein	ND		500	400		ug/L		80	38 - 160
Acrylonitrile	ND		500	501		ug/L		100	62 - 149
Benzene	ND		50.0	51.2		ug/L		102	56 - 142
Bromobenzene	ND		50.0	43.5		ug/L		87	59 - 136
Bromochloromethane	ND		50.0	47.2		ug/L		94	64 - 140
Bromodichloromethane	ND		50.0	46.8		ug/L		94	59 - 143
Bromoform	ND		50.0	31.3		ug/L		63	50 - 140
2-Butanone (MEK)	ND		200	193		ug/L		97	55 - 150
Carbon disulfide	ND		50.0	40.3		ug/L		81	48 - 152
Carbon tetrachloride	ND		50.0	45.9		ug/L		92	55 - 145
Chlorobenzene	ND		50.0	45.0		ug/L		90	64 - 130
Chloroethane	ND		50.0	43.4		ug/L		87	50 - 151
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160
Chloroform	ND		50.0	51.3		ug/L		103	60 - 141
1-Chlorohexane	ND		50.0	49.2		ug/L		98	56 - 136
Chloromethane	ND		50.0	36.4		ug/L		73	49 - 148
cis-1,2-Dichloroethene	ND		50.0	49.8		ug/L		100	59 - 143
cis-1,3-Dichloropropene	ND		50.0	46.5		ug/L		93	57 - 140
Dibromochloromethane	ND		50.0	39.0		ug/L		78	56 - 143
1,2-Dichlorobenzene	ND		50.0	44.8		ug/L		90	52 - 137
1,3-Dichlorobenzene	ND		50.0	43.9		ug/L		88	54 - 135
1,4-Dichlorobenzene	ND		50.0	45.5		ug/L		91	53 - 135
Dichlorodifluoromethane	ND		50.0	29.9		ug/L		60	16 - 160
1,1-Dichloroethane	ND		50.0	50.5		ug/L		101	61 - 144
1,2-Dichloroethane	ND		50.0	54.1		ug/L		108	60 - 141
1,1-Dichloroethene	ND		50.0	47.3		ug/L		95	54 - 147
1,2-Dichloropropane	ND		50.0	51.3		ug/L		103	66 - 137
1,3-Dichloropropane	ND		50.0	46.7		ug/L		93	66 - 133
2,2-Dichloropropane	ND		50.0	44.5		ug/L		89	42 - 144

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

Lab Sample ID: 400-112219-3 MS
Matrix: Water
Analysis Batch: 279821

Client Sample ID: MW12-ROX-100815
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloropropene	ND		50.0	51.3		ug/L		103	65 - 136
Ethylbenzene	ND		50.0	45.3		ug/L		91	58 - 131
Ethyl methacrylate	ND		50.0	43.8		ug/L		88	64 - 130
Hexachlorobutadiene	ND		50.0	43.1		ug/L		86	31 - 149
2-Hexanone	ND		200	183		ug/L		91	65 - 140
Isopropylbenzene	ND		50.0	45.0		ug/L		90	56 - 133
Methyl bromide	ND		50.0	53.7		ug/L		107	10 - 160
Methylene bromide	ND		50.0	49.4		ug/L		99	63 - 138
Methylene Chloride	ND		50.0	50.6		ug/L		101	60 - 146
4-Methyl-2-pentanone (MIBK)	ND		200	203		ug/L		102	63 - 146
Methyl tert-butyl ether	ND		50.0	50.0		ug/L		100	59 - 137
m-Xylene & p-Xylene	ND		50.0	45.2		ug/L		90	57 - 130
Naphthalene	ND		50.0	41.3		ug/L		83	25 - 160
n-Butylbenzene	ND		50.0	47.0		ug/L		94	41 - 142
N-Propylbenzene	ND		50.0	48.1		ug/L		96	51 - 138
o-Chlorotoluene	ND		50.0	46.1		ug/L		92	53 - 134
o-Xylene	ND		50.0	45.0		ug/L		90	61 - 130
p-Chlorotoluene	ND		50.0	46.3		ug/L		93	54 - 133
p-Isopropyltoluene	ND		50.0	45.7		ug/L		91	48 - 139
sec-Butylbenzene	ND		50.0	46.7		ug/L		93	50 - 138
Styrene	ND		50.0	43.8		ug/L		88	58 - 131
tert-Butylbenzene	ND		50.0	46.2		ug/L		92	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	41.1		ug/L		82	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	49.1		ug/L		98	66 - 135
Tetrachloroethene	ND		50.0	38.0		ug/L		76	52 - 133
Toluene	ND		50.0	46.0		ug/L		92	65 - 130
trans-1,2-Dichloroethene	ND		50.0	49.1		ug/L		98	61 - 143
trans-1,3-Dichloropropene	ND		50.0	42.8		ug/L		86	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	41.4		ug/L		83	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	42.3		ug/L		85	39 - 148
1,1,1-Trichloroethane	ND		50.0	48.4		ug/L		97	57 - 142
1,1,2-Trichloroethane	ND		50.0	47.2		ug/L		94	66 - 131
Trichloroethene	ND		50.0	45.8		ug/L		92	64 - 136
Trichlorofluoromethane	ND		50.0	42.6		ug/L		85	54 - 156
1,2,3-Trichloropropane	ND		50.0	46.3		ug/L		93	65 - 133
1,2,4-Trimethylbenzene	ND		50.0	46.6		ug/L		93	50 - 139
1,3,5-Trimethylbenzene	ND		50.0	46.6		ug/L		93	52 - 135
Vinyl acetate	ND		100	77.2		ug/L		77	26 - 160
Vinyl chloride	ND		50.0	41.0		ug/L		82	46 - 152
Xylenes, Total	ND		100	90.2		ug/L		90	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*78 - 118*
Dibromofluoromethane	*103*		*81 - 121*
Toluene-d8 (Surr)	*97*		*80 - 120*

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

Lab Sample ID: 400-112219-3 MSD
Matrix: Water
Analysis Batch: 279821

Client Sample ID: MW12-ROX-100815
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		200	183		ug/L		91	43 - 160	4	30
Acrolein	ND		500	452		ug/L		90	38 - 160	12	31
Acrylonitrile	ND		500	494		ug/L		99	62 - 149	1	30
Benzene	ND		50.0	49.6		ug/L		99	56 - 142	3	30
Bromobenzene	ND		50.0	40.7		ug/L		81	59 - 136	7	30
Bromochloromethane	ND		50.0	43.9		ug/L		88	64 - 140	7	30
Bromodichloromethane	ND		50.0	45.4		ug/L		91	59 - 143	3	30
Bromoform	ND		50.0	30.4		ug/L		61	50 - 140	3	30
2-Butanone (MEK)	ND		200	200		ug/L		100	55 - 150	4	30
Carbon disulfide	ND		50.0	38.7		ug/L		77	48 - 152	4	30
Carbon tetrachloride	ND		50.0	44.6		ug/L		89	55 - 145	3	30
Chlorobenzene	ND		50.0	43.0		ug/L		86	64 - 130	5	30
Chloroethane	ND		50.0	47.8		ug/L		96	50 - 151	10	30
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160	NC	50
Chloroform	ND		50.0	49.2		ug/L		98	60 - 141	4	30
1-Chlorohexane	ND		50.0	47.1		ug/L		94	56 - 136	4	30
Chloromethane	ND		50.0	41.3		ug/L		83	49 - 148	13	31
cis-1,2-Dichloroethene	ND		50.0	48.1		ug/L		96	59 - 143	4	30
cis-1,3-Dichloropropene	ND		50.0	45.2		ug/L		90	57 - 140	3	30
Dibromochloromethane	ND		50.0	37.7		ug/L		75	56 - 143	3	30
1,2-Dichlorobenzene	ND		50.0	41.6		ug/L		83	52 - 137	7	30
1,3-Dichlorobenzene	ND		50.0	41.4		ug/L		83	54 - 135	6	30
1,4-Dichlorobenzene	ND		50.0	41.7		ug/L		83	53 - 135	9	30
Dichlorodifluoromethane	ND		50.0	34.0		ug/L		68	16 - 160	13	31
1,1-Dichloroethane	ND		50.0	49.1		ug/L		98	61 - 144	3	30
1,2-Dichloroethane	ND		50.0	52.7		ug/L		105	60 - 141	3	30
1,1-Dichloroethene	ND		50.0	46.1		ug/L		92	54 - 147	3	30
1,2-Dichloropropane	ND		50.0	49.3		ug/L		99	66 - 137	4	30
1,3-Dichloropropane	ND		50.0	45.7		ug/L		91	66 - 133	2	30
2,2-Dichloropropane	ND		50.0	43.0		ug/L		86	42 - 144	3	31
1,1-Dichloropropene	ND		50.0	49.2		ug/L		98	65 - 136	4	30
Ethylbenzene	ND		50.0	44.6		ug/L		89	58 - 131	1	30
Ethyl methacrylate	ND		50.0	43.6		ug/L		87	64 - 130	1	30
Hexachlorobutadiene	ND		50.0	40.3		ug/L		81	31 - 149	7	36
2-Hexanone	ND		200	182		ug/L		91	65 - 140	0	30
Isopropylbenzene	ND		50.0	43.1		ug/L		86	56 - 133	4	30
Methyl bromide	ND		50.0	58.4		ug/L		117	10 - 160	8	50
Methylene bromide	ND		50.0	48.8		ug/L		98	63 - 138	1	30
Methylene Chloride	ND		50.0	50.2		ug/L		100	60 - 146	1	32
4-Methyl-2-pentanone (MIBK)	ND		200	198		ug/L		99	63 - 146	3	30
Methyl tert-butyl ether	ND		50.0	49.4		ug/L		99	59 - 137	1	30
m-Xylene & p-Xylene	ND		50.0	42.9		ug/L		86	57 - 130	5	30
Naphthalene	ND		50.0	40.0		ug/L		80	25 - 160	3	30
n-Butylbenzene	ND		50.0	44.8		ug/L		90	41 - 142	5	31
N-Propylbenzene	ND		50.0	45.5		ug/L		91	51 - 138	6	30
o-Chlorotoluene	ND		50.0	43.3		ug/L		87	53 - 134	6	30
o-Xylene	ND		50.0	44.0		ug/L		88	61 - 130	2	30
p-Chlorotoluene	ND		50.0	44.7		ug/L		89	54 - 133	4	30

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

Lab Sample ID: 400-112219-3 MSD
Matrix: Water
Analysis Batch: 279821

Client Sample ID: MW12-ROX-100815
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
p-Isopropyltoluene	ND		50.0	43.4		ug/L		87	48 - 139	5	30
sec-Butylbenzene	ND		50.0	43.9		ug/L		88	50 - 138	6	30
Styrene	ND		50.0	41.8		ug/L		84	58 - 131	5	30
tert-Butylbenzene	ND		50.0	43.3		ug/L		87	54 - 146	6	30
1,1,1,2-Tetrachloroethane	ND		50.0	40.0		ug/L		80	59 - 137	3	30
1,1,2,2-Tetrachloroethane	ND		50.0	45.9		ug/L		92	66 - 135	7	30
Tetrachloroethene	ND		50.0	36.8		ug/L		74	52 - 133	3	30
Toluene	ND		50.0	43.2		ug/L		86	65 - 130	6	30
trans-1,2-Dichloroethene	ND		50.0	47.6		ug/L		95	61 - 143	3	30
trans-1,3-Dichloropropene	ND		50.0	41.0		ug/L		82	53 - 133	4	30
1,2,3-Trichlorobenzene	ND		50.0	39.0		ug/L		78	43 - 145	6	30
1,2,4-Trichlorobenzene	ND		50.0	38.9		ug/L		78	39 - 148	8	30
1,1,1-Trichloroethane	ND		50.0	46.6		ug/L		93	57 - 142	4	30
1,1,2-Trichloroethane	ND		50.0	46.0		ug/L		92	66 - 131	3	30
Trichloroethene	ND		50.0	44.1		ug/L		88	64 - 136	4	30
Trichlorofluoromethane	ND		50.0	44.6		ug/L		89	54 - 156	5	30
1,2,3-Trichloropropane	ND		50.0	45.1		ug/L		90	65 - 133	3	30
1,2,4-Trimethylbenzene	ND		50.0	43.3		ug/L		87	50 - 139	7	30
1,3,5-Trimethylbenzene	ND		50.0	43.1		ug/L		86	52 - 135	8	30
Vinyl acetate	ND		100	86.6		ug/L		87	26 - 160	11	33
Vinyl chloride	ND		50.0	44.9		ug/L		90	46 - 152	9	30
Xylenes, Total	ND		100	86.9		ug/L		87	59 - 130	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*78 - 118*
Dibromofluoromethane	*103*		*81 - 121*
Toluene-d8 (Surr)	*98*		*80 - 120*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-278376/1-A
Matrix: Water
Analysis Batch: 278441

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/12/15 11:00	10/13/15 15:41	1
Benzenethiol	ND		10	1.7	ug/L		10/12/15 11:00	10/13/15 15:41	1
Benzoic acid	ND		30	7.3	ug/L		10/12/15 11:00	10/13/15 15:41	1
Benzyl alcohol	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/12/15 11:00	10/13/15 15:41	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/12/15 11:00	10/13/15 15:41	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/12/15 11:00	10/13/15 15:41	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/12/15 11:00	10/13/15 15:41	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/12/15 11:00	10/13/15 15:41	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/12/15 11:00	10/13/15 15:41	1
4-Chloroaniline	ND		10	3.4	ug/L		10/12/15 11:00	10/13/15 15:41	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/12/15 11:00	10/13/15 15:41	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/12/15 11:00	10/13/15 15:41	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-278376/1-A
Matrix: Water
Analysis Batch: 278441

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		10	2.2	ug/L		10/12/15 11:00	10/13/15 15:41	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
Dibenzofuran	ND		10	0.52	ug/L		10/12/15 11:00	10/13/15 15:41	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/12/15 11:00	10/13/15 15:41	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
Diethyl phthalate	ND		10	0.70	ug/L		10/12/15 11:00	10/13/15 15:41	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 15:41	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/12/15 11:00	10/13/15 15:41	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/12/15 11:00	10/13/15 15:41	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/12/15 11:00	10/13/15 15:41	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 11:00	10/13/15 15:41	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 11:00	10/13/15 15:41	1
Di-n-octyl phthalate	0.553	J	10	0.44	ug/L		10/12/15 11:00	10/13/15 15:41	1
1,4-Dioxane	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/12/15 11:00	10/13/15 15:41	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/12/15 11:00	10/13/15 15:41	1
Hexachloroethane	ND		10	4.2	ug/L		10/12/15 11:00	10/13/15 15:41	1
Indene	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
Isophorone	ND		10	0.57	ug/L		10/12/15 11:00	10/13/15 15:41	1
2-Methylphenol	ND		10	1.8	ug/L		10/12/15 11:00	10/13/15 15:41	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
2-Nitroaniline	ND		10	2.2	ug/L		10/12/15 11:00	10/13/15 15:41	1
3-Nitroaniline	ND		10	1.8	ug/L		10/12/15 11:00	10/13/15 15:41	1
4-Nitroaniline	ND		10	2.5	ug/L		10/12/15 11:00	10/13/15 15:41	1
Nitrobenzene	ND		10	0.55	ug/L		10/12/15 11:00	10/13/15 15:41	1
2-Nitrophenol	ND		10	0.65	ug/L		10/12/15 11:00	10/13/15 15:41	1
4-Nitrophenol	ND		10	2.1	ug/L		10/12/15 11:00	10/13/15 15:41	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 15:41	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/12/15 11:00	10/13/15 15:41	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/12/15 11:00	10/13/15 15:41	1
Pentachlorophenol	ND		20	1.8	ug/L		10/12/15 11:00	10/13/15 15:41	1
Phenol	ND		10	2.6	ug/L		10/12/15 11:00	10/13/15 15:41	1
Pyridine	ND		10	3.2	ug/L		10/12/15 11:00	10/13/15 15:41	1
Quinoline	ND		10	6.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/12/15 11:00	10/13/15 15:41	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 15:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*34 - 120*	*10/12/15 11:00*	*10/13/15 15:41*	*1*
2-Fluorophenol	*42*		*10 - 120*	*10/12/15 11:00*	*10/13/15 15:41*	*1*
Nitrobenzene-d5	*87*		*27 - 120*	*10/12/15 11:00*	*10/13/15 15:41*	*1*
Phenol-d5	*72*		*10 - 120*	*10/12/15 11:00*	*10/13/15 15:41*	*1*
Terphenyl-d14	*98*		*53 - 125*	*10/12/15 11:00*	*10/13/15 15:41*	*1*
2,4,6-Tribromophenol	*89*		*15 - 135*	*10/12/15 11:00*	*10/13/15 15:41*	*1*

Lab Sample ID: LCS 400-278376/2-A
Matrix: Water
Analysis Batch: 278441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	30.0	19.2		ug/L		64	10 - 145
Benzoic acid	110	21.0	J	ug/L		19	10 - 120
Benzyl alcohol	30.0	24.1		ug/L		80	51 - 121
Bis(2-chloroethoxy)methane	30.0	25.1		ug/L		84	54 - 123
Bis(2-chloroethyl)ether	30.0	24.3		ug/L		81	47 - 120
bis (2-chloroisopropyl) ether	30.0	23.1		ug/L		77	20 - 142
Bis(2-ethylhexyl) phthalate	30.0	27.6		ug/L		92	62 - 140
4-Bromophenyl phenyl ether	30.0	24.6		ug/L		82	62 - 132
Butyl benzyl phthalate	30.0	27.2		ug/L		91	51 - 150
4-Chloroaniline	30.0	22.3		ug/L		74	32 - 128
4-Chloro-3-methylphenol	30.0	25.3		ug/L		84	47 - 135
2-Chloronaphthalene	30.0	23.4		ug/L		78	24 - 150
2-Chlorophenol	30.0	22.8		ug/L		76	45 - 120
4-Chlorophenyl phenyl ether	30.0	26.4		ug/L		88	61 - 133
Dibenzofuran	30.0	25.6		ug/L		85	62 - 124
3,3'-Dichlorobenzidine	30.0	28.6		ug/L		95	16 - 167
2,4-Dichlorophenol	30.0	25.4		ug/L		85	52 - 125
Diethyl phthalate	30.0	27.8		ug/L		93	55 - 140
2,4-Dimethylphenol	30.0	23.4		ug/L		78	52 - 121
Dimethyl phthalate	30.0	26.0		ug/L		87	50 - 133
Di-n-butyl phthalate	30.0	28.9		ug/L		96	59 - 144
4,6-Dinitro-o-cresol	60.0	76.4		ug/L		127	46 - 136
2,4-Dinitrophenol	86.0	94.1		ug/L		109	22 - 146
2,4-Dinitrotoluene	30.0	30.5		ug/L		102	54 - 141
2,6-Dinitrotoluene	30.0	29.1		ug/L		97	61 - 130
Di-n-octyl phthalate	30.0	27.9		ug/L		93	55 - 140
1,4-Dioxane	30.0	18.7		ug/L		62	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	30.0	23.5		ug/L		78	55 - 139
Hexachlorobenzene	30.0	25.4		ug/L		85	60 - 138
Hexachlorocyclopentadiene	30.0	12.0	J	ug/L		40	1 - 139
Hexachloroethane	30.0	15.8		ug/L		53	46 - 121
Indene	30.0	21.5		ug/L		72	17 - 141
Isophorone	30.0	25.6		ug/L		85	57 - 122
2-Methylphenol	30.0	22.8		ug/L		76	38 - 121
3 & 4 Methylphenol	30.0	23.3		ug/L		78	43 - 126
2-Nitroaniline	30.0	27.9		ug/L		93	52 - 135
3-Nitroaniline	30.0	25.6		ug/L		85	51 - 128
4-Nitroaniline	30.0	27.8		ug/L		93	38 - 141
Nitrobenzene	30.0	24.9		ug/L		83	52 - 128
2-Nitrophenol	30.0	26.8		ug/L		89	47 - 129
4-Nitrophenol	60.0	46.3		ug/L		77	34 - 137
N-Nitrosodimethylamine	30.0	21.1		ug/L		70	21 - 134
N-Nitrosodi-n-propylamine	30.0	24.7		ug/L		82	41 - 143
N-Nitrosodiphenylamine	60.0	49.4		ug/L		82	10 - 185
Pentachlorophenol	60.0	65.1		ug/L		109	38 - 138
Phenol	30.0	19.4		ug/L		65	37 - 120
Pyridine	30.0	16.6		ug/L		55	10 - 127
2,4,5-Trichlorophenol	30.0	25.5		ug/L		85	53 - 130
2,4,6-Trichlorophenol	30.0	25.8		ug/L		86	52 - 131

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-278376/2-A
Matrix: Water
Analysis Batch: 278441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278376

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	88		34 - 120
2-Fluorophenol	71		10 - 120
Nitrobenzene-d5	92		27 - 120
Phenol-d5	73		10 - 120
Terphenyl-d14	94		53 - 125
2,4,6-Tribromophenol	108		15 - 135

Lab Sample ID: LCSD 400-278376/3-A
Matrix: Water
Analysis Batch: 278441

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 278376

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	30.0	20.9		ug/L		70	10 - 145	8	30
Benzoic acid	110	29.2	J *	ug/L		27	10 - 120	33	30
Benzyl alcohol	30.0	23.8		ug/L		79	51 - 121	1	30
Bis(2-chloroethoxy)methane	30.0	24.3		ug/L		81	54 - 123	3	30
Bis(2-chloroethyl)ether	30.0	23.1		ug/L		77	47 - 120	5	30
bis (2-chloroisopropyl) ether	30.0	22.0		ug/L		73	20 - 142	5	30
Bis(2-ethylhexyl) phthalate	30.0	26.5		ug/L		88	62 - 140	4	30
4-Bromophenyl phenyl ether	30.0	23.2		ug/L		77	62 - 132	5	30
Butyl benzyl phthalate	30.0	26.0		ug/L		87	51 - 150	5	30
4-Chloroaniline	30.0	23.1		ug/L		77	32 - 128	4	30
4-Chloro-3-methylphenol	30.0	24.9		ug/L		83	47 - 135	1	30
2-Chloronaphthalene	30.0	22.7		ug/L		76	24 - 150	3	30
2-Chlorophenol	30.0	22.1		ug/L		74	45 - 120	3	30
4-Chlorophenyl phenyl ether	30.0	24.9		ug/L		83	61 - 133	6	30
Dibenzofuran	30.0	24.1		ug/L		80	62 - 124	6	30
3,3'-Dichlorobenzidine	30.0	27.7		ug/L		92	16 - 167	3	30
2,4-Dichlorophenol	30.0	25.1		ug/L		84	52 - 125	1	30
Diethyl phthalate	30.0	26.2		ug/L		87	55 - 140	6	30
2,4-Dimethylphenol	30.0	23.0		ug/L		77	52 - 121	1	30
Dimethyl phthalate	30.0	24.9		ug/L		83	50 - 133	4	30
Di-n-butyl phthalate	30.0	27.1		ug/L		90	59 - 144	7	30
4,6-Dinitro-o-cresol	60.0	73.6		ug/L		123	46 - 136	4	30
2,4-Dinitrophenol	86.0	94.5		ug/L		110	22 - 146	0	30
2,4-Dinitrotoluene	30.0	29.0		ug/L		97	54 - 141	5	30
2,6-Dinitrotoluene	30.0	27.9		ug/L		93	61 - 130	4	30
Di-n-octyl phthalate	30.0	26.9		ug/L		90	55 - 140	4	30
1,4-Dioxane	30.0	18.5		ug/L		62	10 - 130	1	30
1,2-Diphenylhydrazine (as Azobenzene)	30.0	22.3		ug/L		74	55 - 139	5	30
Hexachlorobenzene	30.0	24.0		ug/L		80	60 - 138	6	30
Hexachlorocyclopentadiene	30.0	10.9	J	ug/L		36	1 - 139	10	30
Hexachloroethane	30.0	15.6		ug/L		52	46 - 121	2	30
Indene	30.0	20.7		ug/L		69	17 - 141	4	30
Isophorone	30.0	24.4		ug/L		81	57 - 122	5	30
2-Methylphenol	30.0	23.0		ug/L		77	38 - 121	1	30
3 & 4 Methylphenol	30.0	23.3		ug/L		78	43 - 126	0	30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-278376/3-A
Matrix: Water
Analysis Batch: 278441

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 278376

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Nitroaniline	30.0	27.1		ug/L		90	52 - 135	3	30
3-Nitroaniline	30.0	24.5		ug/L		82	51 - 128	4	30
4-Nitroaniline	30.0	27.1		ug/L		90	38 - 141	2	30
Nitrobenzene	30.0	23.8		ug/L		79	52 - 128	5	30
2-Nitrophenol	30.0	26.5		ug/L		88	47 - 129	1	30
4-Nitrophenol	60.0	47.0		ug/L		78	34 - 137	1	30
N-Nitrosodimethylamine	30.0	20.1		ug/L		67	21 - 134	5	30
N-Nitrosodi-n-propylamine	30.0	24.1		ug/L		80	41 - 143	3	30
N-Nitrosodiphenylamine	60.0	47.1		ug/L		78	10 - 185	5	30
Pentachlorophenol	60.0	55.8		ug/L		93	38 - 138	15	30
Phenol	30.0	20.0		ug/L		67	37 - 120	3	30
Pyridine	30.0	17.7		ug/L		59	10 - 127	6	30
2,4,5-Trichlorophenol	30.0	26.0		ug/L		87	53 - 130	2	30
2,4,6-Trichlorophenol	30.0	24.6		ug/L		82	52 - 131	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*82*		*34 - 120*
2-Fluorophenol	*68*		*10 - 120*
Nitrobenzene-d5	*87*		*27 - 120*
Phenol-d5	*73*		*10 - 120*
Terphenyl-d14	*86*		*53 - 125*
2,4,6-Tribromophenol	*100*		*15 - 135*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 400-278376/1-A
Matrix: Water
Analysis Batch: 278702

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 11:26	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 11:26	1
Anthracene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 11:26	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 11:26	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 11:26	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 11:26	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 11:26	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 11:26	1
Chrysene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 11:26	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 11:26	1
Fluoranthene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 11:26	1
Fluorene	ND		0.20	0.021	ug/L		10/12/15 11:00	10/14/15 11:26	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 11:26	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 11:26	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 11:26	1
Phenanthrene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 11:26	1
Pyrene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 11:26	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 400-278376/1-A
Matrix: Water
Analysis Batch: 278702

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278376

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		15 - 122	10/12/15 11:00	10/14/15 11:26	1
Nitrobenzene-d5	100		19 - 130	10/12/15 11:00	10/14/15 11:26	1
Terphenyl-d14	131		33 - 138	10/12/15 11:00	10/14/15 11:26	1

Lab Sample ID: LCS 400-278376/2-A
Matrix: Water
Analysis Batch: 278702

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	30.0	28.7		ug/L		96	41 - 120
Acenaphthylene	30.0	29.1		ug/L		97	44 - 120
Anthracene	30.0	29.5		ug/L		98	49 - 120
Benzo[a]anthracene	30.0	27.4		ug/L		91	61 - 135
Benzo[a]pyrene	30.0	29.6		ug/L		99	52 - 120
Benzo[b]fluoranthene	30.0	28.9		ug/L		96	53 - 134
Benzo[g,h,i]perylene	30.0	23.2		ug/L		77	47 - 133
Benzo[k]fluoranthene	30.0	33.1		ug/L		110	57 - 134
Chrysene	30.0	31.4		ug/L		105	55 - 122
Dibenz(a,h)anthracene	30.0	24.3		ug/L		81	48 - 146
Fluoranthene	30.0	28.2		ug/L		94	54 - 128
Fluorene	30.0	32.2		ug/L		107	45 - 125
Indeno[1,2,3-cd]pyrene	30.0	24.4		ug/L		81	43 - 142
1-Methylnaphthalene	30.0	26.3		ug/L		88	41 - 120
2-Methylnaphthalene	30.0	26.3		ug/L		88	32 - 124
Phenanthrene	30.0	27.8		ug/L		93	48 - 120
Pyrene	30.0	31.5		ug/L		105	48 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	96		15 - 122
Nitrobenzene-d5	101		19 - 130
Terphenyl-d14	106		33 - 138

Lab Sample ID: LCSD 400-278376/3-A
Matrix: Water
Analysis Batch: 278702

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 278376

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	30.0	28.7		ug/L		96	41 - 120	0	56
Acenaphthylene	30.0	29.3		ug/L		98	44 - 120	1	56
Anthracene	30.0	28.6		ug/L		95	49 - 120	3	51
Benzo[a]anthracene	30.0	27.5		ug/L		92	61 - 135	0	49
Benzo[a]pyrene	30.0	29.3		ug/L		98	52 - 120	1	50
Benzo[b]fluoranthene	30.0	29.6		ug/L		99	53 - 134	2	54
Benzo[g,h,i]perylene	30.0	23.0		ug/L		77	47 - 133	1	50
Benzo[k]fluoranthene	30.0	32.4		ug/L		108	57 - 134	2	52
Chrysene	30.0	31.9		ug/L		106	55 - 122	2	50
Dibenz(a,h)anthracene	30.0	23.8		ug/L		79	48 - 146	2	50
Fluoranthene	30.0	27.6		ug/L		92	54 - 128	2	52

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCSD 400-278376/3-A
Matrix: Water
Analysis Batch: 278702

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 278376

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluorene	30.0	32.6		ug/L		109	45 - 125	1	56
Indeno[1,2,3-cd]pyrene	30.0	23.9		ug/L		80	43 - 142	2	51
1-Methylnaphthalene	30.0	26.5		ug/L		88	41 - 120	1	55
2-Methylnaphthalene	30.0	26.5		ug/L		88	32 - 124	1	57
Phenanthrene	30.0	27.4		ug/L		91	48 - 120	2	56
Pyrene	30.0	32.4		ug/L		108	48 - 132	3	52

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*94*		*15 - 122*
Nitrobenzene-d5	*103*		*19 - 130*
Terphenyl-d14	*102*		*33 - 138*

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-278644/1-A
Matrix: Water
Analysis Batch: 278887

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278644

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/13/15 16:23	10/14/15 17:56	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/13/15 16:23	10/14/15 17:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*136*		*51 - 149*	*10/13/15 16:23*	*10/14/15 17:56*	*1*

Lab Sample ID: LCS 400-278644/2-A
Matrix: Water
Analysis Batch: 278887

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278644

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.100	0.116		ug/L		116	60 - 140
1,2-Dibromoethane	0.100	0.0956		ug/L		96	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*51 - 149*

Lab Sample ID: LCSD 400-278644/3-A
Matrix: Water
Analysis Batch: 278887

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 278644

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	0.100	0.125		ug/L		125	60 - 140	7	30
1,2-Dibromoethane	0.100	0.107		ug/L		107	60 - 140	11	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*123*		*51 - 149*

Client Sample ID: TB-ROX-100815-8260

Lab Sample ID: 400-112219-1
Matrix: Water

Date Collected: 10/08/15 00:00
Date Received: 10/09/15 10:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279821	10/21/15 12:49	CAR	TAL PEN

Client Sample ID: TB-ROX-100815-8011

Lab Sample ID: 400-112219-2
Matrix: Water

Date Collected: 10/08/15 00:00
Date Received: 10/09/15 10:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35.2 mL	35 mL	278644	10/13/15 16:23	AM	TAL PEN
Total/NA	Analysis	8011		1	35.2 mL	35 mL	278887	10/14/15 23:51	AM	TAL PEN

Client Sample ID: MW12-ROX-100815

Lab Sample ID: 400-112219-3
Matrix: Water

Date Collected: 10/08/15 10:25
Date Received: 10/09/15 10:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279821	10/21/15 11:22	CAR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278483	10/13/15 17:26	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	278702	10/14/15 17:37	CEP	TAL PEN
Total/NA	Prep	8011			35.5 mL	35 mL	278644	10/13/15 16:23	AM	TAL PEN
Total/NA	Analysis	8011		1	35.5 mL	35 mL	278887	10/15/15 00:21	AM	TAL PEN

Client Sample ID: MW12-ROX-100815-DUP

Lab Sample ID: 400-112219-4
Matrix: Water

Date Collected: 10/08/15 10:25
Date Received: 10/09/15 10:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279821	10/21/15 13:11	CAR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278483	10/13/15 18:04	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	278702	10/14/15 18:14	CEP	TAL PEN
Total/NA	Prep	8011			36 mL	35 mL	278644	10/13/15 16:23	AM	TAL PEN
Total/NA	Analysis	8011		1	36 mL	35 mL	278887	10/15/15 00:51	AM	TAL PEN

Client Sample ID: MW9-ROX-100815

Lab Sample ID: 400-112219-5
Matrix: Water

Date Collected: 10/08/15 11:40
Date Received: 10/09/15 10:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279821	10/21/15 13:33	CAR	TAL PEN

Client Sample ID: MW9-ROX-100815

Date Collected: 10/08/15 11:40
Date Received: 10/09/15 10:02

Lab Sample ID: 400-112219-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278483	10/13/15 18:43	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	278702	10/14/15 18:51	CEP	TAL PEN
Total/NA	Prep	8011			34.6 mL	35 mL	278644	10/13/15 16:23	AM	TAL PEN
Total/NA	Analysis	8011		1	34.6 mL	35 mL	278887	10/15/15 01:21	AM	TAL PEN

Client Sample ID: MW27-ROX-100815

Date Collected: 10/08/15 14:00
Date Received: 10/09/15 10:02

Lab Sample ID: 400-112219-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279821	10/21/15 13:55	CAR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278483	10/13/15 19:21	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	278836	10/14/15 20:20	AJR	TAL PEN
Total/NA	Prep	8011			33.4 mL	35 mL	278644	10/13/15 16:23	AM	TAL PEN
Total/NA	Analysis	8011		1	33.4 mL	35 mL	278887	10/15/15 01:50	AM	TAL PEN

Client Sample ID: MW11-ROX-100815

Date Collected: 10/08/15 15:00
Date Received: 10/09/15 10:02

Lab Sample ID: 400-112219-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279821	10/21/15 14:17	CAR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278483	10/13/15 19:59	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	278836	10/14/15 20:57	AJR	TAL PEN
Total/NA	Prep	8011			35.6 mL	35 mL	278644	10/13/15 16:23	AM	TAL PEN
Total/NA	Analysis	8011		1	35.6 mL	35 mL	278887	10/15/15 02:20	AM	TAL PEN

Client Sample ID: Lab Control Sample

Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-278376/2-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278441	10/13/15 16:21	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C LL		5	1000 mL	1 mL	278702	10/14/15 12:03	CEP	TAL PEN

Client Sample ID: Lab Control Sample

Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-278644/2-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	278644	10/13/15 16:23	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	278887	10/14/15 18:25	AM	TAL PEN

Client Sample ID: Lab Control Sample

Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-279821/1002
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279821	10/21/15 10:04	CAR	TAL PEN

Client Sample ID: Lab Control Sample Dup

Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCSD 400-278376/3-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278441	10/13/15 17:01	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C LL		5	1000 mL	1 mL	278702	10/14/15 12:40	CEP	TAL PEN

Client Sample ID: Lab Control Sample Dup

Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCSD 400-278644/3-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	278644	10/13/15 16:23	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	278887	10/14/15 18:55	AM	TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-278376/1-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278441	10/13/15 15:41	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	278702	10/14/15 11:26	CEP	TAL PEN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112219-1
SDG: Proj. 60400249-21563720.02004

Client Sample ID: Method Blank

Lab Sample ID: MB 400-278644/1-A

Matrix: Water

Date Collected: N/A
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	278644	10/13/15 16:23	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	278887	10/14/15 17:56	AM	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-279821/4

Matrix: Water

Date Collected: N/A
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279821	10/21/15 11:00	CAR	TAL PEN

Client Sample ID: MW12-ROX-100815

Lab Sample ID: 400-112219-3 MS

Matrix: Water

Date Collected: 10/08/15 10:25
Date Received: 10/09/15 10:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279821	10/21/15 11:44	CAR	TAL PEN

Client Sample ID: MW12-ROX-100815

Lab Sample ID: 400-112219-3 MSD

Matrix: Water

Date Collected: 10/08/15 10:25
Date Received: 10/09/15 10:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279821	10/21/15 12:06	CAR	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112219-1
SDG: Proj. 60400249-21563720.02004

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL PEN
8011	EDB and DBCP in Water by Microextraction	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112219-1
SDG: Proj. 60400249-21563720.02004

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	08-31-15 *
Arizona	State Program	9	AZ0710	01-11-16
Arkansas DEQ	State Program	6	88-0689	09-01-16
Florida	NELAP	4	E81010	06-30-16
Georgia	State Program	4	N/A	06-30-16
Iowa	State Program	7	367	07-31-16
Kansas	NELAP	7	E-10253	10-31-15
Kentucky (UST)	State Program	4	53	06-30-16
Kentucky (WW)	State Program	4	98030	12-31-15
Louisiana	NELAP	6	30976	06-30-16
Maryland	State Program	3	233	09-30-16
Massachusetts	State Program	1	M-FL094	06-30-16
Michigan	State Program	5	9912	06-30-16
New Jersey	NELAP	2	FL006	10-30-15
North Carolina (WW/SW)	State Program	4	314	12-31-15
Oklahoma	State Program	6	9810	08-31-16
Pennsylvania	NELAP	3	68-00467	01-31-16
Rhode Island	State Program	1	LAO00307	12-30-15
South Carolina	State Program	4	96026	06-30-15 *
Tennessee	State Program	4	TN02907	06-30-16
Texas	NELAP	6	T104704286-15-9	09-30-16
USDA	Federal		P330-13-00193	07-01-16
Virginia	NELAP	3	460166	06-14-16
West Virginia DEP	State Program	3	136	06-30-16

* Certification renewal pending - certification considered valid.

Shell Oil Products Chain Of Custody Record

AECOM

LAB (LOCATION)
☐ XENCO (_____)
☐ CALSCIENCE (_____)
TestAmerica Pensacola; 3355 McLemore Dr.
☑ OTHER (Pensacola, FL 32514 (850-474-1001))
☐ Lab Vendor # (_____)
☐ SPL (_____)
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES | ☐ MOTIVA RETAIL | ☐ SHELL RETAIL
☐ MOTIVA SD&CM | ☐ CONSULTANT | ☐ LUBES
☐ SHELL PIPELINE | ☐ OTHER _____

Print Bill To Contact Name: Bob Billman

INCIDENT # (ENV. SERVICES): 9 7 2 1 6 5 4 0 ☐ CHECK IF NO INCIDENT # APPLIES

DATE: 8 Oct. 2015

PAGE: 1 of 1

PO #: 60400249-21563720.03004

SAP #: 3 4 0 0 6 1

SAMPLING COMPANY: AECOM

LOG CODE:

SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA

State: IL

GLOBAL ID NO.:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110

EDF DELIVERABLE TO (Name, Company, Office Location):

PHONE NO.:

E-MAIL:

CONSULTANT PROJECT NO.: Roxana Quarterly GW / 60400249-21563720.03004

PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow

SAMPLER NAME(S) (Print): S. Fisher / D. Haxel

LAB USE ONLY

TELEPHONE: 314-429-0100

FAX: 314-429-0462

Bill To Contact E-MAIL: bob.billman@aecom.com; elizabeth.kunkel@aecom.com; lindsay.rathnow@aecom.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
* Please include "J" values on Reports.
* Please provide sample receipt upon login.

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

400-112219 COC

FIELD NOTES:
TEMPERATURE ON RECEIPT C°

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260	VOC 8011	SVOC 8270	PAH 8270LL	Comments
	TB-ROX-100815-8260	8/15/15	0000	Water	2					2	X				
	TB-ROX-100815-8011		0000		2					2		X			
	MW12-ROX-100815		1025		4			3		7	X	X	X	X	
	MW12-ROX-100815-DUP		1025		4			3		7	X	X	X	X	
	MW9-ROX-100815		1140		4			3		7	X	X	X	X	
	MW27-ROX-100815		1400		4			3		7	X	X	X	X	
	MW11-ROX-100815		1500		4			3		7	X	X	X	X	

Relinquished by: (Signature) — Date: 8 Oct. 2015 — Time: 17:30

Received by: (Signature) FED EX # 8092 2040 9690

Relinquished by: (Signature)

Received by: (Signature) — Date: 10-9-15 — Time: 1002

Relinquished by: (Signature)

Received by: (Signature) — Date: — Time:

05/2/06 Revision

custody seals 524467 524468 524469 524470

23°C 2.3°C 2.1°C 4.3°C ID-2

Page 53 of 54

10/30/2015

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 400-112219-1
SDG Number: Proj. 60400249-21563720.02004

Login Number: 112219
List Number: 1
Creator: Crawford, Lauren E

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.3°C, 2.3°C, 2.1°C, 4.3°C IR-2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Roxana Groundwater Quarterly – 4th Quarter 2015 Data Review

Laboratory SDG: 400-112225

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 12/1/2015

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2014

Sample Identification	Sample Identification
TB-ROX-100915-8260-B	TB-ROX-100915-8011-B
MW3-ROX-100915-EB	MW3-ROX-100915

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated di-n-octyl phthalate was detected in the method blank, and although not indicated in the laboratory case narrative, 2-methylnaphthalene was detected in the equipment blank. VOC LCS recoveries, and SVOC LCS/LCSD RPDs, were outside evaluation criteria. The surrogate 4-bromofluorobenzene was outside criteria for Method 8011 VOCs in several samples, and surrogate terphenyl-d14 was outside criteria for Method 8270LL PAHs in equipment blank MW3-ROX-100915-EB. These issues are addressed further in the appropriate sections below.

Additionally, the initial calibration verification for bromomethane and dichlorodifluoromethane exceeded evaluation criteria. Three of 69 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds, results may be biased low due to the presence of HCl in the preservative.

The cooler receipt form indicated that one of one cooler was received by the laboratory at a temperature of 0.0°C, which is outside the 4ºC ± 2ºC criteria. Samples were received in good condition; therefore, no qualification of data was required. The cooler receipt form indicated insufficient sample volume was received for MS/MSD analysis, however MS/MSD analysis was not requested; no qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/ Amount
MB 400-278376/1-A	SVOCs	Di-n-octyl phthalate	0.553 µg/L
MW3-ROX-100915-EB	SVOCs	Bis(2-ethylhexyl) phthalate	2.4 µg/L

Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification. No qualification of data was required.

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS/LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/ RPD Criteria
LCS 400-280082/1002	VOCs	Bromodichloromethane	**138**	NA	67-133
LCS 400-280082/1002	VOCs	Carbon tetrachloride	**143**	NA	61-137
LCS 400-280082/1002	VOCs	1,1,1-Trichloroethane	**136**	NA	68-130
LCS/LCSD 400-278376/2-A/3-A	SVOCs	Benzoic acid	19/27	**33**	10-120/30

Analytical data reported as non-detect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. Analytical data associated with LCS/LCSD RPDs above evaluation criteria did not require qualification; LCS/LCSD recoveries were within evaluation criteria. No qualification of data was required.

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Sample ID	Parameter	Surrogate	Recovery (%)	Criteria (%)
TB-ROX-100915-8011-B	VOCs by 8011	4-Bromofluorobenzene	**156**	51-149
MW3-ROX-100915-EB	PAHs	Terphenyl-d_{14}	**170**	33-138
MW3-ROX-100915-EB	VOCs by 8011	4-Bromofluorobenzene	**254**	51-149
MW3-ROX-100915	VOCs by 8011	4-Bromofluorobenzene	**214**	51-149

Analytical data reported as non-detect and associated with surrogate recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. Trip blank TB-ROX-100915-8011 and equipment blank MW3-ROX-100915-EB are quality control samples and did not require qualification. No qualification of data was required.

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

No

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

Yes

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples analyzed as part of this SDG?

No

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

11.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; samples analyzed did not require dilution.

12.0 Additional Qualifications

Were additional qualifications applied?

No

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-112225-1
TestAmerica SDG: 60400249-21563720.02004
Client Project/Site: ROXANA QUARTERLY GW - 4Q15

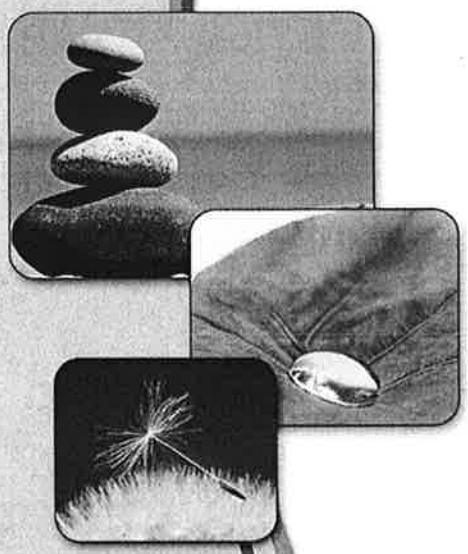
For:
AECOM Technical Services Inc.
1001 Highlands Plaza Dr. West
St. Louis, Missouri 63110

Attn: Mrs. Elizabeth Kunkel

Carolyn S. Hooper

Authorized for release by:
10/30/2015 2:58:33 PM

Carolyn Hooper, Project Manager I
(850)474-1001
carolyn.hooper@testamericainc.com



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Reviewed 12/1/15

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 400-112225-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-112225-1

Receipt
The samples were received on 10/10/2015 9:21 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.0°C.

GC/MS VOA
Method 8260B: The initial calibration verification (ICV) analyzed in batch 400-279112 was outside method criteria for the following analytes: Bromomethane and Dichlorodifluoromethane As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

The laboratory control sample (LCS) for batch 280083 recovered outside control limits for three analytes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The preservative (HCL) used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The requested target analyte list includes 2-chloroethyl vinyl ether, Acrolein and Acrylonitrile, which are acid-labile compounds that degrade in an acidic medium.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-279924 were outside control limits for 2-Chloroethyl vinyl ether due the acidic nature of the parent sample..

The RPD for the MS/MSD for 2-chloroethylvinyl ether was not calculable for batch 279924 because the recoveries were below the reporting limit due to the acidic nature of the parent sample.

GC/MS Semi VOA
Method 8270C: The method blank for preparation batch 400-278376 and analytical batch 400-278441 contained Di-n-octyl phthalate above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch (LCSD 400-278376/3-A) recovered outside control limits for the following analytes: Benzoic acid.

GC Semi VOA
Method 8011: Surrogate recovery for the following samples was outside the upper control limit: TB-ROX-100915-8011-B (400-112225-2), MW3-ROX-100915-EB (400-112225-3) and MW3-ROX-100915 (400-112225-4). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Organic Prep
Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 400-278376.

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

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112225-1
SDG: 60400249-21563720.02004

Client Sample ID: TB-ROX-100915-8260-B — Lab Sample ID: 400-112225-1

No Detections.

Client Sample ID: TB-ROX-100915-8011-B — Lab Sample ID: 400-112225-2

No Detections.

Client Sample ID: MW3-ROX-100915-EB — Lab Sample ID: 400-112225-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	2.4	J	10	2.3	ug/L	1		8270C	Total/NA

Client Sample ID: MW3-ROX-100915 — Lab Sample ID: 400-112225-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	1.1		1.0	0.50	ug/L	1		8260B	Total/NA
Isopropylbenzene	7.0		1.0	0.53	ug/L	1		8260B	Total/NA
m-Xylene & p-Xylene	55		5.0	1.6	ug/L	1		8260B	Total/NA
N-Propylbenzene	3.6		1.0	0.69	ug/L	1		8260B	Total/NA
o-Xylene	2.8	J	5.0	0.60	ug/L	1		8260B	Total/NA
Toluene	15		1.0	0.70	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	0.73	J	1.0	0.56	ug/L	1		8260B	Total/NA
Xylenes, Total	58		5.0	0.60	ug/L	1		8260B	Total/NA
1-Methylnaphthalene	0.35		0.20	0.020	ug/L	1		8270C LL	Total/NA
2-Methylnaphthalene	0.29		0.20	0.020	ug/L	1		8270C LL	Total/NA

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112225-1
SDG: 60400249-21563720.02004

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-112225-1	TB-ROX-100915-8260-B	Water	10/09/15 00:00	10/10/15 09:21
400-112225-2	TB-ROX-100915-8011-B	Water	10/09/15 00:00	10/10/15 09:21
400-112225-3	MW3-ROX-100915-EB	Water	10/09/15 11:10	10/10/15 09:21
400-112225-4	MW3-ROX-100915	Water	10/09/15 13:00	10/10/15 09:21

Client Sample ID: TB-ROX-100915-8260-B

Date Collected: 10/09/15 00:00
Date Received: 10/10/15 09:21

Lab Sample ID: 400-112225-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/22/15 17:43	1
Acrolein	ND		20	10	ug/L			10/22/15 17:43	1
Acrylonitrile	ND		10	2.8	ug/L			10/22/15 17:43	1
Benzene	ND		1.0	0.38	ug/L			10/22/15 17:43	1
Bromobenzene	ND		1.0	0.54	ug/L			10/22/15 17:43	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/22/15 17:43	1
Bromodichloromethane	ND	*	1.0	0.50	ug/L			10/22/15 17:43	1
Bromoform	ND		5.0	0.71	ug/L			10/22/15 17:43	1
Bromomethane	ND		1.0	0.98	ug/L			10/22/15 17:43	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/22/15 17:43	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/22/15 17:43	1
Carbon tetrachloride	ND	*	1.0	0.50	ug/L			10/22/15 17:43	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/22/15 17:43	1
Chloroethane	ND		1.0	0.76	ug/L			10/22/15 17:43	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/22/15 17:43	1
Chloroform	ND		1.0	0.60	ug/L			10/22/15 17:43	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/22/15 17:43	1
Chloromethane	ND		1.0	0.83	ug/L			10/22/15 17:43	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 17:43	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/15 17:43	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/22/15 17:43	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/22/15 17:43	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/22/15 17:43	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/22/15 17:43	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/22/15 17:43	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/22/15 17:43	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/22/15 17:43	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 17:43	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 17:43	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 17:43	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 17:43	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/22/15 17:43	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/22/15 17:43	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/22/15 17:43	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/22/15 17:43	1
2-Hexanone	ND		25	3.1	ug/L			10/22/15 17:43	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/22/15 17:43	1
Methylene bromide	ND		5.0	0.59	ug/L			10/22/15 17:43	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/22/15 17:43	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/22/15 17:43	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/22/15 17:43	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/22/15 17:43	1
Naphthalene	ND		1.0	1.0	ug/L			10/22/15 17:43	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/22/15 17:43	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/22/15 17:43	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/22/15 17:43	1
o-Xylene	ND		5.0	0.60	ug/L			10/22/15 17:43	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/22/15 17:43	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/22/15 17:43	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112225-1
SDG: 60400249-21563720.02004

Client Sample ID: TB-ROX-100915-8260-B
Date Collected: 10/09/15 00:00
Date Received: 10/10/15 09:21

Lab Sample ID: 400-112225-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/22/15 17:43	1
Styrene	ND		1.0	1.0	ug/L			10/22/15 17:43	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/22/15 17:43	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/22/15 17:43	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/22/15 17:43	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/22/15 17:43	1
Toluene	ND		1.0	0.70	ug/L			10/22/15 17:43	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 17:43	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/15 17:43	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/22/15 17:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/22/15 17:43	1
1,1,1-Trichloroethane	ND	*	1.0	0.50	ug/L			10/22/15 17:43	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/22/15 17:43	1
Trichloroethene	ND		1.0	0.50	ug/L			10/22/15 17:43	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/22/15 17:43	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/22/15 17:43	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/22/15 17:43	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/22/15 17:43	1
Vinyl acetate	ND		25	2.0	ug/L			10/22/15 17:43	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/22/15 17:43	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/22/15 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*78 - 118*		*10/22/15 17:43*	*1*
Dibromofluoromethane	*104*		*81 - 121*		*10/22/15 17:43*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*10/22/15 17:43*	*1*

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112225-1
SDG: 60400249-21563720.02004

Client Sample ID: TB-ROX-100915-8011-B
Date Collected: 10/09/15 00:00
Date Received: 10/10/15 09:21

Lab Sample ID: 400-112225-2
Matrix: Water

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/13/15 16:23	10/15/15 02:50	1
Ethylene Dibromide	ND		0.020	0.0050	ug/L		10/13/15 16:23	10/15/15 02:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*156*	*X*	*51 - 149*	*10/13/15 16:23*	*10/15/15 02:50*	*1*

Client Sample ID: MW3-ROX-100915-EB

Date Collected: 10/09/15 11:10
Date Received: 10/10/15 09:21

Lab Sample ID: 400-112225-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/22/15 00:52	1
Acrolein	ND		20	10	ug/L			10/22/15 00:52	1
Acrylonitrile	ND		10	2.8	ug/L			10/22/15 00:52	1
Benzene	ND		1.0	0.38	ug/L			10/22/15 00:52	1
Bromobenzene	ND		1.0	0.54	ug/L			10/22/15 00:52	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/22/15 00:52	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/22/15 00:52	1
Bromoform	ND		5.0	0.71	ug/L			10/22/15 00:52	1
Bromomethane	ND		1.0	0.98	ug/L			10/22/15 00:52	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/22/15 00:52	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/22/15 00:52	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/22/15 00:52	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/22/15 00:52	1
Chloroethane	ND		1.0	0.76	ug/L			10/22/15 00:52	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/22/15 00:52	1
Chloroform	ND		1.0	0.60	ug/L			10/22/15 00:52	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/22/15 00:52	1
Chloromethane	ND		1.0	0.83	ug/L			10/22/15 00:52	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 00:52	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/15 00:52	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/22/15 00:52	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/22/15 00:52	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/22/15 00:52	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/22/15 00:52	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/22/15 00:52	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/22/15 00:52	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/22/15 00:52	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 00:52	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 00:52	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 00:52	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 00:52	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/22/15 00:52	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/22/15 00:52	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/22/15 00:52	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/22/15 00:52	1
2-Hexanone	ND		25	3.1	ug/L			10/22/15 00:52	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/22/15 00:52	1
Methylene bromide	ND		5.0	0.59	ug/L			10/22/15 00:52	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/22/15 00:52	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/22/15 00:52	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/22/15 00:52	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/22/15 00:52	1
Naphthalene	ND		1.0	1.0	ug/L			10/22/15 00:52	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/22/15 00:52	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/22/15 00:52	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/22/15 00:52	1
o-Xylene	ND		5.0	0.60	ug/L			10/22/15 00:52	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/22/15 00:52	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/22/15 00:52	1

Client Sample ID: MW3-ROX-100915-EB

Date Collected: 10/09/15 11:10
Date Received: 10/10/15 09:21

Lab Sample ID: 400-112225-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/22/15 00:52	1
Styrene	ND		1.0	1.0	ug/L			10/22/15 00:52	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/22/15 00:52	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/22/15 00:52	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/22/15 00:52	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/22/15 00:52	1
Toluene	ND		1.0	0.70	ug/L			10/22/15 00:52	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 00:52	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/15 00:52	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/22/15 00:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/22/15 00:52	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/22/15 00:52	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/22/15 00:52	1
Trichloroethene	ND		1.0	0.50	ug/L			10/22/15 00:52	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/22/15 00:52	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/22/15 00:52	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/22/15 00:52	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/22/15 00:52	1
Vinyl acetate	ND		25	2.0	ug/L			10/22/15 00:52	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/22/15 00:52	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/22/15 00:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*78 - 118*		*10/22/15 00:52*	*1*
Dibromofluoromethane	*100*		*81 - 121*		*10/22/15 00:52*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/22/15 00:52*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 21:34	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 21:34	1
Anthracene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 21:34	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 21:34	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 21:34	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 21:34	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 21:34	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 21:34	1
Chrysene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 21:34	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 21:34	1
Fluoranthene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 21:34	1
Fluorene	ND		0.20	0.021	ug/L		10/12/15 11:00	10/14/15 21:34	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 21:34	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 21:34	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 21:34	1
Phenanthrene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 21:34	1
Pyrene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 21:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*111*		*15 - 122*	*10/12/15 11:00*	*10/14/15 21:34*	*1*
Nitrobenzene-d5	*101*		*19 - 130*	*10/12/15 11:00*	*10/14/15 21:34*	*1*

Client Sample ID: MW3-ROX-100915-EB

Date Collected: 10/09/15 11:10
Date Received: 10/10/15 09:21

Lab Sample ID: 400-112225-3

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	170	X	33 - 138	10/12/15 11:00	10/14/15 21:34	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/12/15 11:00	10/13/15 20:37	1
Benzenethiol	ND		10	1.7	ug/L		10/12/15 11:00	10/13/15 20:37	1
Benzoic acid	ND	*	30	7.3	ug/L		10/12/15 11:00	10/13/15 20:37	1
Benzyl alcohol	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 20:37	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/12/15 11:00	10/13/15 20:37	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/12/15 11:00	10/13/15 20:37	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/12/15 11:00	10/13/15 20:37	1
Bis(2-ethylhexyl) phthalate	2.4	J	10	2.3	ug/L		10/12/15 11:00	10/13/15 20:37	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/12/15 11:00	10/13/15 20:37	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/12/15 11:00	10/13/15 20:37	1
4-Chloroaniline	ND		10	3.4	ug/L		10/12/15 11:00	10/13/15 20:37	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/12/15 11:00	10/13/15 20:37	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/12/15 11:00	10/13/15 20:37	1
2-Chlorophenol	ND		10	2.2	ug/L		10/12/15 11:00	10/13/15 20:37	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 20:37	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/12/15 11:00	10/13/15 20:37	1
Dibenzofuran	ND		10	0.52	ug/L		10/12/15 11:00	10/13/15 20:37	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/12/15 11:00	10/13/15 20:37	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/12/15 11:00	10/13/15 20:37	1
Diethyl phthalate	ND		10	0.70	ug/L		10/12/15 11:00	10/13/15 20:37	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 20:37	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/12/15 11:00	10/13/15 20:37	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/12/15 11:00	10/13/15 20:37	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 20:37	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/12/15 11:00	10/13/15 20:37	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 11:00	10/13/15 20:37	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 11:00	10/13/15 20:37	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/12/15 11:00	10/13/15 20:37	1
1,4-Dioxane	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 20:37	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 20:37	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/12/15 11:00	10/13/15 20:37	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/12/15 11:00	10/13/15 20:37	1
Hexachloroethane	ND		10	4.2	ug/L		10/12/15 11:00	10/13/15 20:37	1
Indene	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 20:37	1
Isophorone	ND		10	0.57	ug/L		10/12/15 11:00	10/13/15 20:37	1
2-Methylphenol	ND		10	1.8	ug/L		10/12/15 11:00	10/13/15 20:37	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/12/15 11:00	10/13/15 20:37	1
2-Nitroaniline	ND		10	2.2	ug/L		10/12/15 11:00	10/13/15 20:37	1
3-Nitroaniline	ND		10	1.8	ug/L		10/12/15 11:00	10/13/15 20:37	1
4-Nitroaniline	ND		10	2.5	ug/L		10/12/15 11:00	10/13/15 20:37	1
Nitrobenzene	ND		10	0.55	ug/L		10/12/15 11:00	10/13/15 20:37	1
2-Nitrophenol	ND		10	0.65	ug/L		10/12/15 11:00	10/13/15 20:37	1
4-Nitrophenol	ND		10	2.1	ug/L		10/12/15 11:00	10/13/15 20:37	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 20:37	1

Client Sample ID: MW3-ROX-100915-EB

Date Collected: 10/09/15 11:10
Date Received: 10/10/15 09:21

Lab Sample ID: 400-112225-3

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/12/15 11:00	10/13/15 20:37	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/12/15 11:00	10/13/15 20:37	1
Pentachlorophenol	ND		20	1.8	ug/L		10/12/15 11:00	10/13/15 20:37	1
Phenol	ND		10	2.6	ug/L		10/12/15 11:00	10/13/15 20:37	1
Pyridine	ND		10	3.2	ug/L		10/12/15 11:00	10/13/15 20:37	1
Quinoline	ND		10	6.0	ug/L		10/12/15 11:00	10/13/15 20:37	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/12/15 11:00	10/13/15 20:37	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*88*		*34 - 120*	*10/12/15 11:00*	*10/13/15 20:37*	*1*
2-Fluorophenol	*68*		*10 - 120*	*10/12/15 11:00*	*10/13/15 20:37*	*1*
Nitrobenzene-d5	*97*		*27 - 120*	*10/12/15 11:00*	*10/13/15 20:37*	*1*
Phenol-d5	*76*		*10 - 120*	*10/12/15 11:00*	*10/13/15 20:37*	*1*
Terphenyl-d14	*108*		*53 - 125*	*10/12/15 11:00*	*10/13/15 20:37*	*1*
2,4,6-Tribromophenol	*97*		*15 - 135*	*10/12/15 11:00*	*10/13/15 20:37*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.029	0.0053	ug/L		10/13/15 16:23	10/15/15 03:19	1
Ethylene Dibromide	ND		0.019	0.0048	ug/L		10/13/15 16:23	10/15/15 03:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*254*	*X*	*51 - 149*	*10/13/15 16:23*	*10/15/15 03:19*	*1*

Client Sample ID: MW3-ROX-100915

Date Collected: 10/09/15 13:00
Date Received: 10/10/15 09:21

Lab Sample ID: 400-112225-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/22/15 01:18	1
Acrolein	ND		20	10	ug/L			10/22/15 01:18	1
Acrylonitrile	ND		10	2.8	ug/L			10/22/15 01:18	1
Benzene	ND		1.0	0.38	ug/L			10/22/15 01:18	1
Bromobenzene	ND		1.0	0.54	ug/L			10/22/15 01:18	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/22/15 01:18	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/22/15 01:18	1
Bromoform	ND		5.0	0.71	ug/L			10/22/15 01:18	1
Bromomethane	ND		1.0	0.98	ug/L			10/22/15 01:18	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/22/15 01:18	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/22/15 01:18	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/22/15 01:18	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/22/15 01:18	1
Chloroethane	ND		1.0	0.76	ug/L			10/22/15 01:18	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/22/15 01:18	1
Chloroform	ND		1.0	0.60	ug/L			10/22/15 01:18	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/22/15 01:18	1
Chloromethane	ND		1.0	0.83	ug/L			10/22/15 01:18	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 01:18	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/15 01:18	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/22/15 01:18	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/22/15 01:18	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/22/15 01:18	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/22/15 01:18	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/22/15 01:18	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/22/15 01:18	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/22/15 01:18	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 01:18	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 01:18	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 01:18	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 01:18	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/22/15 01:18	1
Ethylbenzene	**1.1**		1.0	0.50	ug/L			10/22/15 01:18	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/22/15 01:18	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/22/15 01:18	1
2-Hexanone	ND		25	3.1	ug/L			10/22/15 01:18	1
Isopropylbenzene	**7.0**		1.0	0.53	ug/L			10/22/15 01:18	1
Methylene bromide	ND		5.0	0.59	ug/L			10/22/15 01:18	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/22/15 01:18	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/22/15 01:18	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/22/15 01:18	1
m-Xylene & p-Xylene	**55**		5.0	1.6	ug/L			10/22/15 01:18	1
Naphthalene	ND		1.0	1.0	ug/L			10/22/15 01:18	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/22/15 01:18	1
N-Propylbenzene	**3.6**		1.0	0.69	ug/L			10/22/15 01:18	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/22/15 01:18	1
o-Xylene	**2.8**	J	5.0	0.60	ug/L			10/22/15 01:18	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/22/15 01:18	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/22/15 01:18	1

Client Sample ID: MW3-ROX-100915

Date Collected: 10/09/15 13:00
Date Received: 10/10/15 09:21

Lab Sample ID: 400-112225-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/22/15 01:18	1
Styrene	ND		1.0	1.0	ug/L			10/22/15 01:18	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/22/15 01:18	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/22/15 01:18	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/22/15 01:18	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/22/15 01:18	1
Toluene	**15**		1.0	0.70	ug/L			10/22/15 01:18	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 01:18	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/15 01:18	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/22/15 01:18	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/22/15 01:18	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/22/15 01:18	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/22/15 01:18	1
Trichloroethene	ND		1.0	0.50	ug/L			10/22/15 01:18	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/22/15 01:18	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/22/15 01:18	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/22/15 01:18	1
1,3,5-Trimethylbenzene	**0.73**	J	1.0	0.56	ug/L			10/22/15 01:18	1
Vinyl acetate	ND		25	2.0	ug/L			10/22/15 01:18	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/22/15 01:18	1
Xylenes, Total	**58**		5.0	0.60	ug/L			10/22/15 01:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*78 - 118*		*10/22/15 01:18*	*1*
Dibromofluoromethane	*98*		*81 - 121*		*10/22/15 01:18*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/22/15 01:18*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 22:11	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 22:11	1
Anthracene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 22:11	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 22:11	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 22:11	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 22:11	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 22:11	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 22:11	1
Chrysene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 22:11	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 22:11	1
Fluoranthene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 22:11	1
Fluorene	ND		0.20	0.021	ug/L		10/12/15 11:00	10/14/15 22:11	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 22:11	1
1-Methylnaphthalene	**0.35**		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 22:11	1
2-Methylnaphthalene	**0.29**		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 22:11	1
Phenanthrene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 22:11	1
Pyrene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 22:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*85*		*15 - 122*	*10/12/15 11:00*	*10/14/15 22:11*	*1*
Nitrobenzene-d5	*96*		*19 - 130*	*10/12/15 11:00*	*10/14/15 22:11*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112225-1
SDG: 60400249-21563720.02004

Client Sample ID: MW3-ROX-100915
Date Collected: 10/09/15 13:00
Date Received: 10/10/15 09:21

Lab Sample ID: 400-112225-4
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	88		33 - 138	10/12/15 11:00	10/14/15 22:11	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/12/15 11:00	10/13/15 21:14	1
Benzenethiol	ND		10	1.7	ug/L		10/12/15 11:00	10/13/15 21:14	1
Benzoic acid	ND	*	30	7.3	ug/L		10/12/15 11:00	10/13/15 21:14	1
Benzyl alcohol	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 21:14	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/12/15 11:00	10/13/15 21:14	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/12/15 11:00	10/13/15 21:14	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/12/15 11:00	10/13/15 21:14	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/12/15 11:00	10/13/15 21:14	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/12/15 11:00	10/13/15 21:14	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/12/15 11:00	10/13/15 21:14	1
4-Chloroaniline	ND		10	3.4	ug/L		10/12/15 11:00	10/13/15 21:14	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/12/15 11:00	10/13/15 21:14	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/12/15 11:00	10/13/15 21:14	1
2-Chlorophenol	ND		10	2.2	ug/L		10/12/15 11:00	10/13/15 21:14	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 21:14	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/12/15 11:00	10/13/15 21:14	1
Dibenzofuran	ND		10	0.52	ug/L		10/12/15 11:00	10/13/15 21:14	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/12/15 11:00	10/13/15 21:14	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/12/15 11:00	10/13/15 21:14	1
Diethyl phthalate	ND		10	0.70	ug/L		10/12/15 11:00	10/13/15 21:14	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 21:14	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/12/15 11:00	10/13/15 21:14	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/12/15 11:00	10/13/15 21:14	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 21:14	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/12/15 11:00	10/13/15 21:14	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 11:00	10/13/15 21:14	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 11:00	10/13/15 21:14	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/12/15 11:00	10/13/15 21:14	1
1,4-Dioxane	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 21:14	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 21:14	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/12/15 11:00	10/13/15 21:14	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/12/15 11:00	10/13/15 21:14	1
Hexachloroethane	ND		10	4.2	ug/L		10/12/15 11:00	10/13/15 21:14	1
Indene	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 21:14	1
Isophorone	ND		10	0.57	ug/L		10/12/15 11:00	10/13/15 21:14	1
2-Methylphenol	ND		10	1.8	ug/L		10/12/15 11:00	10/13/15 21:14	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/12/15 11:00	10/13/15 21:14	1
2-Nitroaniline	ND		10	2.2	ug/L		10/12/15 11:00	10/13/15 21:14	1
3-Nitroaniline	ND		10	1.8	ug/L		10/12/15 11:00	10/13/15 21:14	1
4-Nitroaniline	ND		10	2.5	ug/L		10/12/15 11:00	10/13/15 21:14	1
Nitrobenzene	ND		10	0.55	ug/L		10/12/15 11:00	10/13/15 21:14	1
2-Nitrophenol	ND		10	0.65	ug/L		10/12/15 11:00	10/13/15 21:14	1
4-Nitrophenol	ND		10	2.1	ug/L		10/12/15 11:00	10/13/15 21:14	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 21:14	1

Client Sample ID: MW3-ROX-100915

Date Collected: 10/09/15 13:00
Date Received: 10/10/15 09:21

Lab Sample ID: 400-112225-4

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/12/15 11:00	10/13/15 21:14	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/12/15 11:00	10/13/15 21:14	1
Pentachlorophenol	ND		20	1.8	ug/L		10/12/15 11:00	10/13/15 21:14	1
Phenol	ND		10	2.6	ug/L		10/12/15 11:00	10/13/15 21:14	1
Pyridine	ND		10	3.2	ug/L		10/12/15 11:00	10/13/15 21:14	1
Quinoline	ND		10	6.0	ug/L		10/12/15 11:00	10/13/15 21:14	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/12/15 11:00	10/13/15 21:14	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 21:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*34 - 120*	*10/12/15 11:00*	*10/13/15 21:14*	*1*
2-Fluorophenol	*60*		*10 - 120*	*10/12/15 11:00*	*10/13/15 21:14*	*1*
Nitrobenzene-d5	*93*		*27 - 120*	*10/12/15 11:00*	*10/13/15 21:14*	*1*
Phenol-d5	*74*		*10 - 120*	*10/12/15 11:00*	*10/13/15 21:14*	*1*
Terphenyl-d14	*71*		*53 - 125*	*10/12/15 11:00*	*10/13/15 21:14*	*1*
2,4,6-Tribromophenol	*103*		*15 - 135*	*10/12/15 11:00*	*10/13/15 21:14*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.029	0.0052	ug/L		10/13/15 16:23	10/15/15 03:49	1
Ethylene Dibromide	ND		0.019	0.0048	ug/L		10/13/15 16:23	10/15/15 03:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*214*	*X*	*51 - 149*	*10/13/15 16:23*	*10/15/15 03:49*	*1*

Definitions/Glossary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112225-1
SDG: 60400249-21563720.02004

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

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

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Glossary

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

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112225-1
SDG: 60400249-21563720.02004

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(78-118)	(81-121)	(80-120)
400-112225-1	TB-ROX-100915-8260-B	96	104	93
400-112225-3	MW3-ROX-100915-EB	93	100	96
400-112225-4	MW3-ROX-100915	96	98	96
400-112311-A-4 MS	Matrix Spike	96	102	94
400-112311-A-4 MSD	Matrix Spike Duplicate	95	104	95
490-89389-F-9 MS	Matrix Spike	96	105	93
490-89389-F-9 MSD	Matrix Spike Duplicate	95	104	94
LCS 400-279924/1002	Lab Control Sample	95	105	94
LCS 400-280082/1002	Lab Control Sample	96	105	93
MB 400-279924/4	Method Blank	92	99	95
MB 400-280082/4	Method Blank	94	104	93

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	Client Sample ID	(34-120)	(10-120)	(27-120)	(10-120)	(53-125)	(15-135)
400-112225-3	MW3-ROX-100915-EB	88	68	97	76	108	97
400-112225-4	MW3-ROX-100915	81	60	93	74	71	103
LCS 400-278376/2-A	Lab Control Sample	88	71	92	73	94	108
LCSD 400-278376/3-A	Lab Control Sample Dup	82	68	87	73	86	100
MB 400-278376/1-A	Method Blank	76	42	87	72	98	89

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPH
Lab Sample ID	Client Sample ID	(15-122)	(19-130)	(33-138)
400-112225-3	MW3-ROX-100915-EB	111	101	170 X
400-112225-4	MW3-ROX-100915	85	96	88
LCS 400-278376/2-A	Lab Control Sample	96	101	106
LCSD 400-278376/3-A	Lab Control Sample Dup	94	103	102
MB 400-278376/1-A	Method Blank	92	100	131

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5
TPH = Terphenyl-d14

Method: 8011 - EDB and DBCP in Water by Microextraction

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	**Client Sample ID**	**BFB1 (51-149)**
400-112225-2	TB-ROX-100915-8011-B	156 X
400-112225-3	MW3-ROX-100915-EB	254 X
400-112225-4	MW3-ROX-100915	214 X
LCS 400-278644/2-A	Lab Control Sample	103
LCSD 400-278644/3-A	Lab Control Sample Dup	123
MB 400-278644/1-A	Method Blank	136

Surrogate Legend

BFB = 4-Bromofluorobenzene

GC/MS VOA

Analysis Batch: 279924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112225-3	MW3-ROX-100915-EB	Total/NA	Water	8260B	
400-112225-4	MW3-ROX-100915	Total/NA	Water	8260B	
LCS 400-279924/1002	Lab Control Sample	Total/NA	Water	8260B	
MB 400-279924/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 280082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112225-1	TB-ROX-100915-8260-B	Total/NA	Water	8260B	
LCS 400-280082/1002	Lab Control Sample	Total/NA	Water	8260B	
MB 400-280082/4	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 278376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112225-3	MW3-ROX-100915-EB	Total/NA	Water	3520C	
400-112225-4	MW3-ROX-100915	Total/NA	Water	3520C	
LCS 400-278376/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-278376/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 400-278376/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 278441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-278376/2-A	Lab Control Sample	Total/NA	Water	8270C	278376
LCSD 400-278376/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	278376
MB 400-278376/1-A	Method Blank	Total/NA	Water	8270C	278376

Analysis Batch: 278483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112225-3	MW3-ROX-100915-EB	Total/NA	Water	8270C	278376
400-112225-4	MW3-ROX-100915	Total/NA	Water	8270C	278376

Analysis Batch: 278702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-278376/2-A	Lab Control Sample	Total/NA	Water	8270C LL	278376
LCSD 400-278376/3-A	Lab Control Sample Dup	Total/NA	Water	8270C LL	278376
MB 400-278376/1-A	Method Blank	Total/NA	Water	8270C LL	278376

Analysis Batch: 278836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112225-3	MW3-ROX-100915-EB	Total/NA	Water	8270C LL	278376
400-112225-4	MW3-ROX-100915	Total/NA	Water	8270C LL	278376

GC Semi VOA

Prep Batch: 278644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112225-2	TB-ROX-100915-8011-B	Total/NA	Water	8011	
400-112225-3	MW3-ROX-100915-EB	Total/NA	Water	8011	
400-112225-4	MW3-ROX-100915	Total/NA	Water	8011	

GC Semi VOA (Continued)

Prep Batch: 278644 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-278644/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 400-278644/3-A	Lab Control Sample Dup	Total/NA	Water	8011	
MB 400-278644/1-A	Method Blank	Total/NA	Water	8011	

Analysis Batch: 278887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112225-2	TB-ROX-100915-8011-B	Total/NA	Water	8011	278644
400-112225-3	MW3-ROX-100915-EB	Total/NA	Water	8011	278644
400-112225-4	MW3-ROX-100915	Total/NA	Water	8011	278644
LCS 400-278644/2-A	Lab Control Sample	Total/NA	Water	8011	278644
LCSD 400-278644/3-A	Lab Control Sample Dup	Total/NA	Water	8011	278644
MB 400-278644/1-A	Method Blank	Total/NA	Water	8011	278644

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112225-1
SDG: 60400249-21563720.02004

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

Lab Sample ID: MB 400-279924/4
Matrix: Water
Analysis Batch: 279924

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/21/15 18:50	1
Acrolein	ND		20	10	ug/L			10/21/15 18:50	1
Acrylonitrile	ND		10	2.8	ug/L			10/21/15 18:50	1
Benzene	ND		1.0	0.38	ug/L			10/21/15 18:50	1
Bromobenzene	ND		1.0	0.54	ug/L			10/21/15 18:50	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/21/15 18:50	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/21/15 18:50	1
Bromoform	ND		5.0	0.71	ug/L			10/21/15 18:50	1
Bromomethane	ND		1.0	0.98	ug/L			10/21/15 18:50	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/21/15 18:50	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/21/15 18:50	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/21/15 18:50	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/21/15 18:50	1
Chloroethane	ND		1.0	0.76	ug/L			10/21/15 18:50	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/21/15 18:50	1
Chloroform	ND		1.0	0.60	ug/L			10/21/15 18:50	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/21/15 18:50	1
Chloromethane	ND		1.0	0.83	ug/L			10/21/15 18:50	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 18:50	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/15 18:50	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/21/15 18:50	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/21/15 18:50	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/21/15 18:50	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/21/15 18:50	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/21/15 18:50	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/21/15 18:50	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/21/15 18:50	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 18:50	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 18:50	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 18:50	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 18:50	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/21/15 18:50	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/21/15 18:50	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/21/15 18:50	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/21/15 18:50	1
2-Hexanone	ND		25	3.1	ug/L			10/21/15 18:50	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/21/15 18:50	1
Methylene bromide	ND		5.0	0.59	ug/L			10/21/15 18:50	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/21/15 18:50	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/21/15 18:50	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/21/15 18:50	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/21/15 18:50	1
Naphthalene	ND		1.0	1.0	ug/L			10/21/15 18:50	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/21/15 18:50	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/21/15 18:50	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/21/15 18:50	1
o-Xylene	ND		5.0	0.60	ug/L			10/21/15 18:50	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/21/15 18:50	1

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

Lab Sample ID: MB 400-279924/4
Matrix: Water
Analysis Batch: 279924

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/21/15 18:50	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/21/15 18:50	1
Styrene	ND		1.0	1.0	ug/L			10/21/15 18:50	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/21/15 18:50	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/21/15 18:50	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/21/15 18:50	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/21/15 18:50	1
Toluene	ND		1.0	0.70	ug/L			10/21/15 18:50	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 18:50	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/15 18:50	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/21/15 18:50	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/21/15 18:50	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/21/15 18:50	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/21/15 18:50	1
Trichloroethene	ND		1.0	0.50	ug/L			10/21/15 18:50	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/21/15 18:50	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/21/15 18:50	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/21/15 18:50	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/21/15 18:50	1
Vinyl acetate	ND		25	2.0	ug/L			10/21/15 18:50	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/21/15 18:50	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/21/15 18:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*78 - 118*		*10/21/15 18:50*	*1*
Dibromofluoromethane	*99*		*81 - 121*		*10/21/15 18:50*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/21/15 18:50*	*1*

Lab Sample ID: LCS 400-279924/1002
Matrix: Water
Analysis Batch: 279924

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	212		ug/L		106	43 - 160
Acrolein	500	458		ug/L		92	38 - 160
Acrylonitrile	500	461		ug/L		92	64 - 142
Benzene	50.0	56.9		ug/L		114	70 - 130
Bromobenzene	50.0	41.2		ug/L		82	70 - 132
Bromochloromethane	50.0	57.9		ug/L		116	70 - 130
Bromodichloromethane	50.0	65.4		ug/L		131	67 - 133
Bromoform	50.0	44.5		ug/L		89	57 - 140
Bromomethane	50.0	68.5		ug/L		137	10 - 160
2-Butanone (MEK)	200	226		ug/L		113	61 - 145
Carbon disulfide	50.0	57.4		ug/L		115	61 - 137
Carbon tetrachloride	50.0	67.8		ug/L		136	61 - 137
Chlorobenzene	50.0	54.5		ug/L		109	70 - 130
Chloroethane	50.0	48.3		ug/L		97	55 - 141
2-Chloroethyl vinyl ether	50.0	55.3		ug/L		111	10 - 160

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

Lab Sample ID: LCS 400-279924/1002
Matrix: Water
Analysis Batch: 279924

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	50.0	59.0		ug/L		118	69 - 130
1-Chlorohexane	50.0	53.0		ug/L		106	69 - 130
Chloromethane	50.0	45.5		ug/L		91	58 - 137
cis-1,2-Dichloroethene	50.0	56.5		ug/L		113	68 - 130
cis-1,3-Dichloropropene	50.0	61.7		ug/L		123	69 - 132
Dibromochloromethane	50.0	57.0		ug/L		114	67 - 135
1,2-Dichlorobenzene	50.0	43.7		ug/L		87	67 - 130
1,3-Dichlorobenzene	50.0	44.3		ug/L		89	70 - 130
1,4-Dichlorobenzene	50.0	49.3		ug/L		99	70 - 130
Dichlorodifluoromethane	50.0	55.7		ug/L		111	41 - 146
1,1-Dichloroethane	50.0	55.6		ug/L		111	70 - 130
1,2-Dichloroethane	50.0	59.3		ug/L		119	69 - 130
1,1-Dichloroethene	50.0	56.5		ug/L		113	63 - 134
1,2-Dichloropropane	50.0	54.3		ug/L		109	70 - 130
1,3-Dichloropropane	50.0	53.0		ug/L		106	70 - 130
2,2-Dichloropropane	50.0	62.1		ug/L		124	52 - 135
1,1-Dichloropropene	50.0	61.7		ug/L		123	70 - 130
Ethylbenzene	50.0	57.8		ug/L		116	70 - 130
Ethyl methacrylate	50.0	55.7		ug/L		111	68 - 130
Hexachlorobutadiene	50.0	42.3		ug/L		85	53 - 140
2-Hexanone	200	188		ug/L		94	65 - 137
Isopropylbenzene	50.0	57.9		ug/L		116	70 - 130
Methylene bromide	50.0	58.3		ug/L		117	70 - 130
Methylene Chloride	50.0	54.2		ug/L		108	66 - 135
4-Methyl-2-pentanone (MIBK)	200	211		ug/L		106	69 - 138
Methyl tert-butyl ether	50.0	57.1		ug/L		114	66 - 130
m-Xylene & p-Xylene	50.0	58.5		ug/L		117	70 - 130
Naphthalene	50.0	41.7		ug/L		83	47 - 149
n-Butylbenzene	50.0	47.3		ug/L		95	67 - 130
N-Propylbenzene	50.0	49.4		ug/L		99	70 - 130
o-Chlorotoluene	50.0	48.0		ug/L		96	70 - 130
o-Xylene	50.0	59.0		ug/L		118	70 - 130
p-Chlorotoluene	50.0	49.6		ug/L		99	70 - 130
p-Isopropyltoluene	50.0	50.8		ug/L		102	65 - 130
sec-Butylbenzene	50.0	48.3		ug/L		97	66 - 130
Styrene	50.0	55.5		ug/L		111	70 - 130
tert-Butylbenzene	50.0	49.2		ug/L		98	64 - 139
1,1,1,2-Tetrachloroethane	50.0	58.7		ug/L		117	67 - 131
1,1,2,2-Tetrachloroethane	50.0	43.5		ug/L		87	70 - 131
Tetrachloroethene	50.0	48.2		ug/L		96	65 - 130
Toluene	50.0	53.7		ug/L		107	70 - 130
trans-1,2-Dichloroethene	50.0	56.6		ug/L		113	70 - 130
trans-1,3-Dichloropropene	50.0	52.8		ug/L		106	63 - 130
1,2,3-Trichlorobenzene	50.0	42.6		ug/L		85	60 - 138
1,2,4-Trichlorobenzene	50.0	41.5		ug/L		83	60 - 140
1,1,1-Trichloroethane	50.0	65.1		ug/L		130	68 - 130
1,1,2-Trichloroethane	50.0	52.2		ug/L		104	70 - 130
Trichloroethene	50.0	57.9		ug/L		116	70 - 130

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

Lab Sample ID: LCS 400-279924/1002
Matrix: Water
Analysis Batch: 279924

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	56.4		ug/L		113	65 - 138
1,2,3-Trichloropropane	50.0	46.4		ug/L		93	70 - 130
1,2,4-Trimethylbenzene	50.0	48.9		ug/L		98	70 - 130
1,3,5-Trimethylbenzene	50.0	48.1		ug/L		96	69 - 130
Vinyl acetate	100	102		ug/L		102	26 - 160
Vinyl chloride	50.0	52.6		ug/L		105	59 - 136
Xylenes, Total	100	117		ug/L		117	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*78 - 118*
Dibromofluoromethane	*105*		*81 - 121*
Toluene-d8 (Surr)	*94*		*80 - 120*

Lab Sample ID: MB 400-280082/4
Matrix: Water
Analysis Batch: 280082

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/22/15 17:17	1
Acrolein	ND		20	10	ug/L			10/22/15 17:17	1
Acrylonitrile	ND		10	2.8	ug/L			10/22/15 17:17	1
Benzene	ND		1.0	0.38	ug/L			10/22/15 17:17	1
Bromobenzene	ND		1.0	0.54	ug/L			10/22/15 17:17	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/22/15 17:17	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/22/15 17:17	1
Bromoform	ND		5.0	0.71	ug/L			10/22/15 17:17	1
Bromomethane	ND		1.0	0.98	ug/L			10/22/15 17:17	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/22/15 17:17	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/22/15 17:17	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/22/15 17:17	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/22/15 17:17	1
Chloroethane	ND		1.0	0.76	ug/L			10/22/15 17:17	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/22/15 17:17	1
Chloroform	ND		1.0	0.60	ug/L			10/22/15 17:17	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/22/15 17:17	1
Chloromethane	ND		1.0	0.83	ug/L			10/22/15 17:17	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 17:17	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/15 17:17	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/22/15 17:17	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/22/15 17:17	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/22/15 17:17	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/22/15 17:17	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/22/15 17:17	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/22/15 17:17	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/22/15 17:17	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 17:17	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 17:17	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 17:17	1

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

Lab Sample ID: MB 400-280082/4
Matrix: Water
Analysis Batch: 280082

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 17:17	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/22/15 17:17	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/22/15 17:17	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/22/15 17:17	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/22/15 17:17	1
2-Hexanone	ND		25	3.1	ug/L			10/22/15 17:17	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/22/15 17:17	1
Methylene bromide	ND		5.0	0.59	ug/L			10/22/15 17:17	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/22/15 17:17	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/22/15 17:17	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/22/15 17:17	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/22/15 17:17	1
Naphthalene	ND		1.0	1.0	ug/L			10/22/15 17:17	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/22/15 17:17	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/22/15 17:17	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/22/15 17:17	1
o-Xylene	ND		5.0	0.60	ug/L			10/22/15 17:17	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/22/15 17:17	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/22/15 17:17	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/22/15 17:17	1
Styrene	ND		1.0	1.0	ug/L			10/22/15 17:17	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/22/15 17:17	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/22/15 17:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/22/15 17:17	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/22/15 17:17	1
Toluene	ND		1.0	0.70	ug/L			10/22/15 17:17	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 17:17	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/15 17:17	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/22/15 17:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/22/15 17:17	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/22/15 17:17	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/22/15 17:17	1
Trichloroethene	ND		1.0	0.50	ug/L			10/22/15 17:17	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/22/15 17:17	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/22/15 17:17	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/22/15 17:17	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/22/15 17:17	1
Vinyl acetate	ND		25	2.0	ug/L			10/22/15 17:17	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/22/15 17:17	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/22/15 17:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*78 - 118*		*10/22/15 17:17*	*1*
Dibromofluoromethane	*104*		*81 - 121*		*10/22/15 17:17*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*10/22/15 17:17*	*1*

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

Lab Sample ID: LCS 400-280082/1002
Matrix: Water
Analysis Batch: 280082

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	219		ug/L		110	43 - 160
Acrolein	500	470		ug/L		94	38 - 160
Acrylonitrile	500	472		ug/L		94	64 - 142
Benzene	50.0	57.7		ug/L		115	70 - 130
Bromobenzene	50.0	41.4		ug/L		83	70 - 132
Bromochloromethane	50.0	58.5		ug/L		117	70 - 130
Bromodichloromethane	50.0	68.9	*	ug/L		138	67 - 133
Bromoform	50.0	49.4		ug/L		99	57 - 140
Bromomethane	50.0	65.8		ug/L		132	10 - 160
2-Butanone (MEK)	200	236		ug/L		118	61 - 145
Carbon disulfide	50.0	62.4		ug/L		125	61 - 137
Carbon tetrachloride	50.0	71.6	*	ug/L		143	61 - 137
Chlorobenzene	50.0	54.1		ug/L		108	70 - 130
Chloroethane	50.0	48.7		ug/L		97	55 - 141
2-Chloroethyl vinyl ether	50.0	56.7		ug/L		113	10 - 160
Chloroform	50.0	59.9		ug/L		120	69 - 130
1-Chlorohexane	50.0	53.7		ug/L		107	69 - 130
Chloromethane	50.0	46.2		ug/L		92	58 - 137
cis-1,2-Dichloroethene	50.0	58.3		ug/L		117	68 - 130
cis-1,3-Dichloropropene	50.0	63.9		ug/L		128	69 - 132
Dibromochloromethane	50.0	60.1		ug/L		120	67 - 135
1,2-Dichlorobenzene	50.0	43.1		ug/L		86	67 - 130
1,3-Dichlorobenzene	50.0	44.2		ug/L		88	70 - 130
1,4-Dichlorobenzene	50.0	50.1		ug/L		100	70 - 130
Dichlorodifluoromethane	50.0	58.1		ug/L		116	41 - 146
1,1-Dichloroethane	50.0	57.3		ug/L		115	70 - 130
1,2-Dichloroethane	50.0	60.4		ug/L		121	69 - 130
1,1-Dichloroethene	50.0	58.1		ug/L		116	63 - 134
1,2-Dichloropropane	50.0	54.9		ug/L		110	70 - 130
1,3-Dichloropropane	50.0	53.3		ug/L		107	70 - 130
2,2-Dichloropropane	50.0	65.6		ug/L		131	52 - 135
1,1-Dichloropropene	50.0	62.6		ug/L		125	70 - 130
Ethylbenzene	50.0	57.7		ug/L		115	70 - 130
Ethyl methacrylate	50.0	56.5		ug/L		113	68 - 130
Hexachlorobutadiene	50.0	42.3		ug/L		85	53 - 140
2-Hexanone	200	191		ug/L		95	65 - 137
Isopropylbenzene	50.0	57.9		ug/L		116	70 - 130
Methylene bromide	50.0	59.4		ug/L		119	70 - 130
Methylene Chloride	50.0	56.1		ug/L		112	66 - 135
4-Methyl-2-pentanone (MIBK)	200	213		ug/L		107	69 - 138
Methyl tert-butyl ether	50.0	61.0		ug/L		122	66 - 130
m-Xylene & p-Xylene	50.0	58.9		ug/L		118	70 - 130
Naphthalene	50.0	42.4		ug/L		85	47 - 149
n-Butylbenzene	50.0	46.6		ug/L		93	67 - 130
N-Propylbenzene	50.0	49.8		ug/L		100	70 - 130
o-Chlorotoluene	50.0	48.3		ug/L		97	70 - 130
o-Xylene	50.0	59.3		ug/L		119	70 - 130
p-Chlorotoluene	50.0	49.6		ug/L		99	70 - 130

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

Lab Sample ID: LCS 400-280082/1002
Matrix: Water
Analysis Batch: 280082

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
p-Isopropyltoluene	50.0	50.6		ug/L		101	65 - 130
sec-Butylbenzene	50.0	48.0		ug/L		96	66 - 130
Styrene	50.0	56.1		ug/L		112	70 - 130
tert-Butylbenzene	50.0	49.5		ug/L		99	64 - 139
1,1,1,2-Tetrachloroethane	50.0	60.4		ug/L		121	67 - 131
1,1,2,2-Tetrachloroethane	50.0	43.6		ug/L		87	70 - 131
Tetrachloroethene	50.0	48.3		ug/L		97	65 - 130
Toluene	50.0	54.9		ug/L		110	70 - 130
trans-1,2-Dichloroethene	50.0	58.2		ug/L		116	70 - 130
trans-1,3-Dichloropropene	50.0	54.4		ug/L		109	63 - 130
1,2,3-Trichlorobenzene	50.0	42.5		ug/L		85	60 - 138
1,2,4-Trichlorobenzene	50.0	41.7		ug/L		83	60 - 140
1,1,1-Trichloroethane	50.0	67.9	*	ug/L		136	68 - 130
1,1,2-Trichloroethane	50.0	52.9		ug/L		106	70 - 130
Trichloroethene	50.0	59.4		ug/L		119	70 - 130
Trichlorofluoromethane	50.0	56.6		ug/L		113	65 - 138
1,2,3-Trichloropropane	50.0	46.1		ug/L		92	70 - 130
1,2,4-Trimethylbenzene	50.0	48.8		ug/L		98	70 - 130
1,3,5-Trimethylbenzene	50.0	47.9		ug/L		96	69 - 130
Vinyl acetate	100	109		ug/L		109	26 - 160
Vinyl chloride	50.0	52.1		ug/L		104	59 - 136
Xylenes, Total	100	118		ug/L		118	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*78 - 118*
Dibromofluoromethane	*105*		*81 - 121*
Toluene-d8 (Surr)	*93*		*80 - 120*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-278376/1-A
Matrix: Water
Analysis Batch: 278441

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/12/15 11:00	10/13/15 15:41	1
Benzenethiol	ND		10	1.7	ug/L		10/12/15 11:00	10/13/15 15:41	1
Benzoic acid	ND		30	7.3	ug/L		10/12/15 11:00	10/13/15 15:41	1
Benzyl alcohol	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/12/15 11:00	10/13/15 15:41	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/12/15 11:00	10/13/15 15:41	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/12/15 11:00	10/13/15 15:41	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/12/15 11:00	10/13/15 15:41	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/12/15 11:00	10/13/15 15:41	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/12/15 11:00	10/13/15 15:41	1
4-Chloroaniline	ND		10	3.4	ug/L		10/12/15 11:00	10/13/15 15:41	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/12/15 11:00	10/13/15 15:41	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/12/15 11:00	10/13/15 15:41	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-278376/1-A
Matrix: Water
Analysis Batch: 278441

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		10	2.2	ug/L		10/12/15 11:00	10/13/15 15:41	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
Dibenzofuran	ND		10	0.52	ug/L		10/12/15 11:00	10/13/15 15:41	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/12/15 11:00	10/13/15 15:41	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
Diethyl phthalate	ND		10	0.70	ug/L		10/12/15 11:00	10/13/15 15:41	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 15:41	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/12/15 11:00	10/13/15 15:41	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/12/15 11:00	10/13/15 15:41	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/12/15 11:00	10/13/15 15:41	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 11:00	10/13/15 15:41	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 11:00	10/13/15 15:41	1
Di-n-octyl phthalate	0.553 J		10	0.44	ug/L		10/12/15 11:00	10/13/15 15:41	1
1,4-Dioxane	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/12/15 11:00	10/13/15 15:41	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/12/15 11:00	10/13/15 15:41	1
Hexachloroethane	ND		10	4.2	ug/L		10/12/15 11:00	10/13/15 15:41	1
Indene	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
Isophorone	ND		10	0.57	ug/L		10/12/15 11:00	10/13/15 15:41	1
2-Methylphenol	ND		10	1.8	ug/L		10/12/15 11:00	10/13/15 15:41	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
2-Nitroaniline	ND		10	2.2	ug/L		10/12/15 11:00	10/13/15 15:41	1
3-Nitroaniline	ND		10	1.8	ug/L		10/12/15 11:00	10/13/15 15:41	1
4-Nitroaniline	ND		10	2.5	ug/L		10/12/15 11:00	10/13/15 15:41	1
Nitrobenzene	ND		10	0.55	ug/L		10/12/15 11:00	10/13/15 15:41	1
2-Nitrophenol	ND		10	0.65	ug/L		10/12/15 11:00	10/13/15 15:41	1
4-Nitrophenol	ND		10	2.1	ug/L		10/12/15 11:00	10/13/15 15:41	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 15:41	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/12/15 11:00	10/13/15 15:41	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/12/15 11:00	10/13/15 15:41	1
Pentachlorophenol	ND		20	1.8	ug/L		10/12/15 11:00	10/13/15 15:41	1
Phenol	ND		10	2.6	ug/L		10/12/15 11:00	10/13/15 15:41	1
Pyridine	ND		10	3.2	ug/L		10/12/15 11:00	10/13/15 15:41	1
Quinoline	ND		10	6.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/12/15 11:00	10/13/15 15:41	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 15:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*34 - 120*	*10/12/15 11:00*	*10/13/15 15:41*	*1*
2-Fluorophenol	*42*		*10 - 120*	*10/12/15 11:00*	*10/13/15 15:41*	*1*
Nitrobenzene-d5	*87*		*27 - 120*	*10/12/15 11:00*	*10/13/15 15:41*	*1*
Phenol-d5	*72*		*10 - 120*	*10/12/15 11:00*	*10/13/15 15:41*	*1*
Terphenyl-d14	*98*		*53 - 125*	*10/12/15 11:00*	*10/13/15 15:41*	*1*
2,4,6-Tribromophenol	*89*		*15 - 135*	*10/12/15 11:00*	*10/13/15 15:41*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-278376/2-A
Matrix: Water
Analysis Batch: 278441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	30.0	19.2		ug/L		64	10 - 145
Benzoic acid	110	21.0	J	ug/L		19	10 - 120
Benzyl alcohol	30.0	24.1		ug/L		80	51 - 121
Bis(2-chloroethoxy)methane	30.0	25.1		ug/L		84	54 - 123
Bis(2-chloroethyl)ether	30.0	24.3		ug/L		81	47 - 120
bis (2-chloroisopropyl) ether	30.0	23.1		ug/L		77	20 - 142
Bis(2-ethylhexyl) phthalate	30.0	27.6		ug/L		92	62 - 140
4-Bromophenyl phenyl ether	30.0	24.6		ug/L		82	62 - 132
Butyl benzyl phthalate	30.0	27.2		ug/L		91	51 - 150
4-Chloroaniline	30.0	22.3		ug/L		74	32 - 128
4-Chloro-3-methylphenol	30.0	25.3		ug/L		84	47 - 135
2-Chloronaphthalene	30.0	23.4		ug/L		78	24 - 150
2-Chlorophenol	30.0	22.8		ug/L		76	45 - 120
4-Chlorophenyl phenyl ether	30.0	26.4		ug/L		88	61 - 133
Dibenzofuran	30.0	25.6		ug/L		85	62 - 124
3,3'-Dichlorobenzidine	30.0	28.6		ug/L		95	16 - 167
2,4-Dichlorophenol	30.0	25.4		ug/L		85	52 - 125
Diethyl phthalate	30.0	27.8		ug/L		93	55 - 140
2,4-Dimethylphenol	30.0	23.4		ug/L		78	52 - 121
Dimethyl phthalate	30.0	26.0		ug/L		87	50 - 133
Di-n-butyl phthalate	30.0	28.9		ug/L		96	59 - 144
4,6-Dinitro-o-cresol	60.0	76.4		ug/L		127	46 - 136
2,4-Dinitrophenol	86.0	94.1		ug/L		109	22 - 146
2,4-Dinitrotoluene	30.0	30.5		ug/L		102	54 - 141
2,6-Dinitrotoluene	30.0	29.1		ug/L		97	61 - 130
Di-n-octyl phthalate	30.0	27.9		ug/L		93	55 - 140
1,4-Dioxane	30.0	18.7		ug/L		62	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	30.0	23.5		ug/L		78	55 - 139
Hexachlorobenzene	30.0	25.4		ug/L		85	60 - 138
Hexachlorocyclopentadiene	30.0	12.0	J	ug/L		40	1 - 139
Hexachloroethane	30.0	15.8		ug/L		53	46 - 121
Indene	30.0	21.5		ug/L		72	17 - 141
Isophorone	30.0	25.6		ug/L		85	57 - 122
2-Methylphenol	30.0	22.8		ug/L		76	38 - 121
3 & 4 Methylphenol	30.0	23.3		ug/L		78	43 - 126
2-Nitroaniline	30.0	27.9		ug/L		93	52 - 135
3-Nitroaniline	30.0	25.6		ug/L		85	51 - 128
4-Nitroaniline	30.0	27.8		ug/L		93	38 - 141
Nitrobenzene	30.0	24.9		ug/L		83	52 - 128
2-Nitrophenol	30.0	26.8		ug/L		89	47 - 129
4-Nitrophenol	60.0	46.3		ug/L		77	34 - 137
N-Nitrosodimethylamine	30.0	21.1		ug/L		70	21 - 134
N-Nitrosodi-n-propylamine	30.0	24.7		ug/L		82	41 - 143
N-Nitrosodiphenylamine	60.0	49.4		ug/L		82	10 - 185
Pentachlorophenol	60.0	65.1		ug/L		109	38 - 138
Phenol	30.0	19.4		ug/L		65	37 - 120
Pyridine	30.0	16.6		ug/L		55	10 - 127

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-278376/2-A
Matrix: Water
Analysis Batch: 278441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	30.0	25.5		ug/L		85	53 - 130
2,4,6-Trichlorophenol	30.0	25.8		ug/L		86	52 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*88*		*34 - 120*
2-Fluorophenol	*71*		*10 - 120*
Nitrobenzene-d5	*92*		*27 - 120*
Phenol-d5	*73*		*10 - 120*
Terphenyl-d14	*94*		*53 - 125*
2,4,6-Tribromophenol	*108*		*15 - 135*

Lab Sample ID: LCSD 400-278376/3-A
Matrix: Water
Analysis Batch: 278441

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 278376

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	30.0	20.9		ug/L		70	10 - 145	8	30
Benzoic acid	110	29.2	J *	ug/L		27	10 - 120	33	30
Benzyl alcohol	30.0	23.8		ug/L		79	51 - 121	1	30
Bis(2-chloroethoxy)methane	30.0	24.3		ug/L		81	54 - 123	3	30
Bis(2-chloroethyl)ether	30.0	23.1		ug/L		77	47 - 120	5	30
bis (2-chloroisopropyl) ether	30.0	22.0		ug/L		73	20 - 142	5	30
Bis(2-ethylhexyl) phthalate	30.0	26.5		ug/L		88	62 - 140	4	30
4-Bromophenyl phenyl ether	30.0	23.2		ug/L		77	62 - 132	5	30
Butyl benzyl phthalate	30.0	26.0		ug/L		87	51 - 150	5	30
4-Chloroaniline	30.0	23.1		ug/L		77	32 - 128	4	30
4-Chloro-3-methylphenol	30.0	24.9		ug/L		83	47 - 135	1	30
2-Chloronaphthalene	30.0	22.7		ug/L		76	24 - 150	3	30
2-Chlorophenol	30.0	22.1		ug/L		74	45 - 120	3	30
4-Chlorophenyl phenyl ether	30.0	24.9		ug/L		83	61 - 133	6	30
Dibenzofuran	30.0	24.1		ug/L		80	62 - 124	6	30
3,3'-Dichlorobenzidine	30.0	27.7		ug/L		92	16 - 167	3	30
2,4-Dichlorophenol	30.0	25.1		ug/L		84	52 - 125	1	30
Diethyl phthalate	30.0	26.2		ug/L		87	55 - 140	6	30
2,4-Dimethylphenol	30.0	23.0		ug/L		77	52 - 121	1	30
Dimethyl phthalate	30.0	24.9		ug/L		83	50 - 133	4	30
Di-n-butyl phthalate	30.0	27.1		ug/L		90	59 - 144	7	30
4,6-Dinitro-o-cresol	60.0	73.6		ug/L		123	46 - 136	4	30
2,4-Dinitrophenol	86.0	94.5		ug/L		110	22 - 146	0	30
2,4-Dinitrotoluene	30.0	29.0		ug/L		97	54 - 141	5	30
2,6-Dinitrotoluene	30.0	27.9		ug/L		93	61 - 130	4	30
Di-n-octyl phthalate	30.0	26.9		ug/L		90	55 - 140	4	30
1,4-Dioxane	30.0	18.5		ug/L		62	10 - 130	1	30
1,2-Diphenylhydrazine (as Azobenzene)	30.0	22.3		ug/L		74	55 - 139	5	30
Hexachlorobenzene	30.0	24.0		ug/L		80	60 - 138	6	30
Hexachlorocyclopentadiene	30.0	10.9	J	ug/L		36	1 - 139	10	30
Hexachloroethane	30.0	15.6		ug/L		52	46 - 121	2	30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-278376/3-A
Matrix: Water
Analysis Batch: 278441

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 278376

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Indene	30.0	20.7		ug/L		69	17 - 141	4	30
Isophorone	30.0	24.4		ug/L		81	57 - 122	5	30
2-Methylphenol	30.0	23.0		ug/L		77	38 - 121	1	30
3 & 4 Methylphenol	30.0	23.3		ug/L		78	43 - 126	0	30
2-Nitroaniline	30.0	27.1		ug/L		90	52 - 135	3	30
3-Nitroaniline	30.0	24.5		ug/L		82	51 - 128	4	30
4-Nitroaniline	30.0	27.1		ug/L		90	38 - 141	2	30
Nitrobenzene	30.0	23.8		ug/L		79	52 - 128	5	30
2-Nitrophenol	30.0	26.5		ug/L		88	47 - 129	1	30
4-Nitrophenol	60.0	47.0		ug/L		78	34 - 137	1	30
N-Nitrosodimethylamine	30.0	20.1		ug/L		67	21 - 134	5	30
N-Nitrosodi-n-propylamine	30.0	24.1		ug/L		80	41 - 143	3	30
N-Nitrosodiphenylamine	60.0	47.1		ug/L		78	10 - 185	5	30
Pentachlorophenol	60.0	55.8		ug/L		93	38 - 138	15	30
Phenol	30.0	20.0		ug/L		67	37 - 120	3	30
Pyridine	30.0	17.7		ug/L		59	10 - 127	6	30
2,4,5-Trichlorophenol	30.0	26.0		ug/L		87	53 - 130	2	30
2,4,6-Trichlorophenol	30.0	24.6		ug/L		82	52 - 131	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*82*		*34 - 120*
2-Fluorophenol	*68*		*10 - 120*
Nitrobenzene-d5	*87*		*27 - 120*
Phenol-d5	*73*		*10 - 120*
Terphenyl-d14	*86*		*53 - 125*
2,4,6-Tribromophenol	*100*		*15 - 135*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 400-278376/1-A
Matrix: Water
Analysis Batch: 278702

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 11:26	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 11:26	1
Anthracene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 11:26	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 11:26	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 11:26	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 11:26	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 11:26	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 11:26	1
Chrysene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 11:26	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 11:26	1
Fluoranthene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 11:26	1
Fluorene	ND		0.20	0.021	ug/L		10/12/15 11:00	10/14/15 11:26	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 11:26	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 11:26	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 400-278376/1-A
Matrix: Water
Analysis Batch: 278702

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 11:26	1
Phenanthrene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 11:26	1
Pyrene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 11:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*92*		*15 - 122*	*10/12/15 11:00*	*10/14/15 11:26*	*1*
Nitrobenzene-d5	*100*		*19 - 130*	*10/12/15 11:00*	*10/14/15 11:26*	*1*
Terphenyl-d14	*131*		*33 - 138*	*10/12/15 11:00*	*10/14/15 11:26*	*1*

Lab Sample ID: LCS 400-278376/2-A
Matrix: Water
Analysis Batch: 278702

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	30.0	28.7		ug/L		96	41 - 120
Acenaphthylene	30.0	29.1		ug/L		97	44 - 120
Anthracene	30.0	29.5		ug/L		98	49 - 120
Benzo[a]anthracene	30.0	27.4		ug/L		91	61 - 135
Benzo[a]pyrene	30.0	29.6		ug/L		99	52 - 120
Benzo[b]fluoranthene	30.0	28.9		ug/L		96	53 - 134
Benzo[g,h,i]perylene	30.0	23.2		ug/L		77	47 - 133
Benzo[k]fluoranthene	30.0	33.1		ug/L		110	57 - 134
Chrysene	30.0	31.4		ug/L		105	55 - 122
Dibenz(a,h)anthracene	30.0	24.3		ug/L		81	48 - 146
Fluoranthene	30.0	28.2		ug/L		94	54 - 128
Fluorene	30.0	32.2		ug/L		107	45 - 125
Indeno[1,2,3-cd]pyrene	30.0	24.4		ug/L		81	43 - 142
1-Methylnaphthalene	30.0	26.3		ug/L		88	41 - 120
2-Methylnaphthalene	30.0	26.3		ug/L		88	32 - 124
Phenanthrene	30.0	27.8		ug/L		93	48 - 120
Pyrene	30.0	31.5		ug/L		105	48 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*96*		*15 - 122*
Nitrobenzene-d5	*101*		*19 - 130*
Terphenyl-d14	*106*		*33 - 138*

Lab Sample ID: LCSD 400-278376/3-A
Matrix: Water
Analysis Batch: 278702

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 278376

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	30.0	28.7		ug/L		96	41 - 120	0	56
Acenaphthylene	30.0	29.3		ug/L		98	44 - 120	1	56
Anthracene	30.0	28.6		ug/L		95	49 - 120	3	51
Benzo[a]anthracene	30.0	27.5		ug/L		92	61 - 135	0	49
Benzo[a]pyrene	30.0	29.3		ug/L		98	52 - 120	1	50
Benzo[b]fluoranthene	30.0	29.6		ug/L		99	53 - 134	2	54

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCSD 400-278376/3-A
Matrix: Water
Analysis Batch: 278702

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 278376

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[g,h,i]perylene	30.0	23.0		ug/L		77	47 - 133	1	50
Benzo[k]fluoranthene	30.0	32.4		ug/L		108	57 - 134	2	52
Chrysene	30.0	31.9		ug/L		106	55 - 122	2	50
Dibenz(a,h)anthracene	30.0	23.8		ug/L		79	48 - 146	2	50
Fluoranthene	30.0	27.6		ug/L		92	54 - 128	2	52
Fluorene	30.0	32.6		ug/L		109	45 - 125	1	56
Indeno[1,2,3-cd]pyrene	30.0	23.9		ug/L		80	43 - 142	2	51
1-Methylnaphthalene	30.0	26.5		ug/L		88	41 - 120	1	55
2-Methylnaphthalene	30.0	26.5		ug/L		88	32 - 124	1	57
Phenanthrene	30.0	27.4		ug/L		91	48 - 120	2	56
Pyrene	30.0	32.4		ug/L		108	48 - 132	3	52

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*94*		*15 - 122*
Nitrobenzene-d5	*103*		*19 - 130*
Terphenyl-d14	*102*		*33 - 138*

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-278644/1-A
Matrix: Water
Analysis Batch: 278887

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278644

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/13/15 16:23	10/14/15 17:56	1
Ethylene Dibromide	ND		0.020	0.0050	ug/L		10/13/15 16:23	10/14/15 17:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*136*		*51 - 149*	*10/13/15 16:23*	*10/14/15 17:56*	*1*

Lab Sample ID: LCS 400-278644/2-A
Matrix: Water
Analysis Batch: 278887

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278644

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.100	0.116		ug/L		116	60 - 140
Ethylene Dibromide	0.100	0.0956		ug/L		96	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*51 - 149*

Lab Sample ID: LCSD 400-278644/3-A
Matrix: Water
Analysis Batch: 278887

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 278644

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	0.100	0.125		ug/L		125	60 - 140	7	30

Method: 8011 - EDB and DBCP in Water by Microextraction (Continued)

Lab Sample ID: LCSD 400-278644/3-A
Matrix: Water
Analysis Batch: 278887

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 278644

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide			0.100	0.107		ug/L		107	60 - 140	11	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*123*		*51 - 149*

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112225-1
SDG: 60400249-21563720.02004

Client Sample ID: TB-ROX-100915-8260-B

Lab Sample ID: 400-112225-1
Matrix: Water

Date Collected: 10/09/15 00:00
Date Received: 10/10/15 09:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	280082	10/22/15 17:43	CLN	TAL PEN

Client Sample ID: TB-ROX-100915-8011-B

Lab Sample ID: 400-112225-2
Matrix: Water

Date Collected: 10/09/15 00:00
Date Received: 10/10/15 09:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	278644	10/13/15 16:23	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	278887	10/15/15 02:50	AM	TAL PEN

Client Sample ID: MW3-ROX-100915-EB

Lab Sample ID: 400-112225-3
Matrix: Water

Date Collected: 10/09/15 11:10
Date Received: 10/10/15 09:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279924	10/22/15 00:52	CLN	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278483	10/13/15 20:37	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	278836	10/14/15 21:34	AJR	TAL PEN
Total/NA	Prep	8011			36.1 mL	35 mL	278644	10/13/15 16:23	AM	TAL PEN
Total/NA	Analysis	8011		1	36.1 mL	35 mL	278887	10/15/15 03:19	AM	TAL PEN

Client Sample ID: MW3-ROX-100915

Lab Sample ID: 400-112225-4
Matrix: Water

Date Collected: 10/09/15 13:00
Date Received: 10/10/15 09:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279924	10/22/15 01:18	CLN	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278483	10/13/15 21:14	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	278836	10/14/15 22:11	AJR	TAL PEN
Total/NA	Prep	8011			36.8 mL	35 mL	278644	10/13/15 16:23	AM	TAL PEN
Total/NA	Analysis	8011		1	36.8 mL	35 mL	278887	10/15/15 03:49	AM	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-278376/2-A
Matrix: Water

Date Collected: N/A
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112225-1
SDG: 60400249-21563720.02004

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-278376/2-A
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278441	10/13/15 16:21	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C LL		5	1000 mL	1 mL	278702	10/14/15 12:03	CEP	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-278644/2-A
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	278644	10/13/15 16:23	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	278887	10/14/15 18:25	AM	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-279924/1002
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279924	10/21/15 17:52	CLN	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-280082/1002
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	280082	10/22/15 16:15	CLN	TAL PEN

Client Sample ID: Lab Control Sample Dup
Lab Sample ID: LCSD 400-278376/3-A
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278441	10/13/15 17:01	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C LL		5	1000 mL	1 mL	278702	10/14/15 12:40	CEP	TAL PEN

Client Sample ID: Lab Control Sample Dup
Lab Sample ID: LCSD 400-278644/3-A
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	278644	10/13/15 16:23	AM	TAL PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-278644/3-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8011		1	35 mL	35 mL	278887	10/14/15 18:55	AM	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-278376/1-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278441	10/13/15 15:41	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	278702	10/14/15 11:26	CEP	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-278644/1-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	278644	10/13/15 16:23	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	278887	10/14/15 17:56	AM	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-279924/4

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279924	10/21/15 18:50	CLN	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-280082/4

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	280082	10/22/15 17:17	CLN	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112225-1
SDG: 60400249-21563720.02004

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL PEN
8011	EDB and DBCP in Water by Microextraction	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112225-1
SDG: 60400249-21563720.02004

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	08-31-15 *
Arizona	State Program	9	AZ0710	01-11-16
Arkansas DEQ	State Program	6	88-0689	09-01-16
Florida	NELAP	4	E81010	06-30-16
Georgia	State Program	4	N/A	06-30-16
Iowa	State Program	7	367	07-31-16
Kansas	NELAP	7	E-10253	10-31-15
Kentucky (UST)	State Program	4	53	06-30-16
Kentucky (WW)	State Program	4	98030	12-31-15
Louisiana	NELAP	6	30976	06-30-16
Maryland	State Program	3	233	09-30-16
Massachusetts	State Program	1	M-FL094	06-30-16
Michigan	State Program	5	9912	06-30-16
New Jersey	NELAP	2	FL006	10-30-15
North Carolina (WW/SW)	State Program	4	314	12-31-15
Oklahoma	State Program	6	9810	08-31-16
Pennsylvania	NELAP	3	68-00467	01-31-16
Rhode Island	State Program	1	LAO00307	12-30-15
South Carolina	State Program	4	96026	06-30-15 *
Tennessee	State Program	4	TN02907	06-30-16
Texas	NELAP	6	T104704286-15-9	09-30-16
USDA	Federal		P330-13-00193	07-01-16
Virginia	NELAP	3	460166	06-14-16
West Virginia DEP	State Program	3	136	06-30-16

* Certification renewal pending - certification considered valid.

Shell Oil Products Chain Of Custody Record

AECOM

LAB (LOCATION)

☐ XENCO (_____)
☐ CALSCIENCE (_____)
☑ OTHER (TestAmerica Pensacola; 3355 McLemore Dr. Pensacola, FL 32514 (850-474-1001)) Lab Vendor # (_____)
☐ SPL (_____)

Lab Vendor #

Please Check Appropriate Box:

☑ ENV. SERVICES	☐ MOTIVA RETAIL	☐ SHELL RETAIL
☐ MOTIVA SD&CM	☐ CONSULTANT	☐ LUBES
☐ SHELL PIPELINE	☐ OTHER _____	

Print Bill To Contact Name: Bob Billman

PO #: 60400249-21563720.03004

INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0

SAP #: 3 4 0 0 6 1

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 10-9-15

PAGE: 1 of 1

SAMPLING COMPANY: AECOM

LOG CODE:

SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA

State: IL

GLOBAL ID NO.:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110

EDF DELIVERABLE TO (Name, Company, Office Location):

PHONE NO.:

E-MAIL:

CONSULTANT PROJECT NO.: Roxana Quarterly GW / 60400249-21563720.03004

PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow

TELEPHONE: 314-429-0100

FAX: 314-429-0462

Bill To Contact E-MAIL: bob.billman@aecom.com; elizabeth.kunkel@aecom.com; lindsay.rathnow@aecom.com

SAMPLER NAME(S) (Print): S. Fisher, D. Haxel

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :

* Please include "J" values on Reports.
* Please provide sample receipt upon login.

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

400-112225 COC

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260	VOC 8011	SVOC 8270	PAH 8270LL	Comments
	TB-ROX-100915-8260-B	10-9	0000	water	2					2	X				
	TB-ROX-100915-8011-B	"	0000	"	2					2		X			
	MW3-ROX-100915-EB	"	1110	"	~~4~~ 3			3		~~7~~ 5	X	X	X	X	
	MW3-ROX-100915	↓	1300	↓	~~4~~ 3			3		~~7~~ 5	X	X	X	X	

Samuel Fisher

Relinquished by: (Signature) Samuel Fisher	Received by: (Signature) FED EX # 8092 1878 8140	Date: 10-9-15	Time:
Relinquished by: (Signature)	Received by: (Signature) DC Alves / TA 0.0°C ID-5	Date: 10-10-15	Time: 0921
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2/06 Revision

Custody seal: Test America 524360

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10/30/2015

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 400-112225-1
SDG Number: 60400249-21563720.02004

Login Number: 112225
List Number: 1
Creator: Crawford, Lauren E

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C IR-5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Roxana Groundwater Quarterly – 4th Quarter 2015 Data Review

Laboratory SDG: 400-112311-Rev.1

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 12/3/2015

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2014

Sample Identification	Sample Identification
TB-ROX-101215-8260	TB-ROX-101215-8011
ROST3MW-ROX-101215	MW5-ROX-101215
MW2-ROX-101215	MW28-ROX-101215
MW28-ROX-101215-Dup	ROST4PZC-ROX-101215

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated SVOC surrogate recoveries were outside evaluation criteria in sample MW28-ROX-101215-Dup. VOC and SVOC MS/MSD recoveries and MS/MSD RPDs were outside evaluation criteria in sample MW5-ROX-101215. VOCs in samples MW2-ROX-101215 and ROST4PZC-ROX-101215 were diluted due to high levels of target analytes. These issues are addressed further in the appropriate sections below.

Additionally, the initial calibration verification for bromomethane and dichlorodifluoromethane exceeded evaluation criteria. Also, the laboratory report was revised to correctly report 1,2-dichloroethane as non-detect in sample ROST4PZC-ROX-101215, which had been previously incorrectly reported by the laboratory. Three of 69 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds, results may be biased low due to the presence of HCl in the preservative.

The cooler receipt form indicated that three of four coolers were received by the laboratory at temperatures of 1.2°C, 1.2°C, and 1.8°C, which are outside the 4ºC ± 2ºC criteria. Samples were received in good condition; therefore, no qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Sample ID	Parameter	Surrogate	Recovery (%)	Criteria (%)
MW28-ROX-101215-Dup	SVOCs	Nitrobenzene-d_5	**122**	27-120
MW28-ROX-101215-Dup	SVOCs	Terphenyl-d_{14}	**137**	53-125

Analytical data reported as non-detect and associated with surrogate recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. No qualification of data was required.

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

Yes, sample MW5-ROX-101215 was spiked and analyzed for Method 8260 VOCs, Method 8011 VOCs, SVOCs, and PAHs.

Were MS/MSD recoveries within evaluation criteria?

No

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery (%)	RPD	MS/MSD/ RPD Criteria
MW5-ROX-101215	VOCs	2-Chloroethyl vinyl ether	**0/0**	**NC**	10-160/50
MW5-ROX-101215	SVOCs	3,3'-Dichlorobenzidine	**0/0**	**NC**	10-172/58

LCS/LCSD recoveries were within evaluation criteria; no further qualification of data was required.

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

Yes

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples analyzed as part of this SDG?

No

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
MW28-ROX-101215	MW28-ROX-101215-Dup

Were field duplicates within evaluation criteria?

Yes

11.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples requiring dilution.

12.0 Additional Qualifications

Were additional qualifications applied?

No

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-112231-1
TestAmerica SDG: Proj. 60400249-21563720.02004
Client Project/Site: ROXANA QUARTERLY GW - 4Q15

For:
AECOM Technical Services Inc.
1001 Highlands Plaza Dr. West
St. Louis, Missouri 63110

Attn: Mrs. Elizabeth Kunkel

Carolyn S. Hooper

Authorized for release by:
10/30/2015 3:48:29 PM

Carolyn Hooper, Project Manager I
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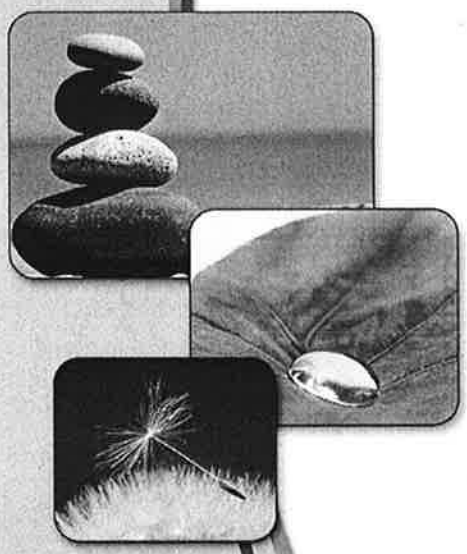

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Reviewed 12/2/15 LH

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 400-112231-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-112231-1

Receipt
The samples were received on 10/10/2015 9:21 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.0°C.

GC/MS VOA
Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-279821 were outside control limits for 2-chloroethyl vinyl ether due to the acidic nature of the parent sample.

The RPD for the MS/MSD for 2-chloroethyl vinyl ether was not calculable for batch 279821 because the recoveries were below the reporting limit due to the acidic nature of the parent sample.

The initial calibration verification (ICV) analyzed in batch 400-274907 was outside method criteria for the following analyte: vinyl acetate. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

The preservative (HCL) used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The requested target analyte list includes 2-chloroethyl vinyl ether, acrolein, and acrylonitrile, acid-labile compounds that degrade in an acidic medium.

GC/MS Semi VOA
Method 8270C: The method blank for preparation batch 400-278376 and analytical batch 400-278441 contained Di-n-octyl phthalate above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch (LCSD 400-278376/3-A) recovered outside control limits for the following analytes: Benzoic acid.

GC Semi VOA
Method 8011: Surrogate recovery for the following samples was outside the upper control limit: TB-ROX-100915-8011 (400-112231-2), MW10-ROX-100915 (400-112231-3) and P54-ROX-100915 (400-112231-4). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

The continuing calibration verification (CCV) associated with batch 400-278887 recovered above the upper control limit for 1,2-Dibromo-3-chloropropane and Ethylene Dibromide . The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: TB-ROX-100915-8011 (400-112231-2), MW10-ROX-100915 (400-112231-3) and P54-ROX-100915 (400-112231-4).

Organic Prep
Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 400-278376.

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

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112231-1
SDG: Proj. 60400249-21563720.02004

Client Sample ID: TB-ROX-100915-8260 — Lab Sample ID: 400-112231-1

No Detections.

Client Sample ID: TB-ROX-100915-8011 — Lab Sample ID: 400-112231-2

No Detections.

Client Sample ID: MW10-ROX-100915 — Lab Sample ID: 400-112231-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	0.039	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
2-Methylnaphthalene	0.063	J	0.20	0.020	ug/L	1		8270C LL	Total/NA

Client Sample ID: P54-ROX-100915 — Lab Sample ID: 400-112231-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	0.037	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
2-Methylnaphthalene	0.063	J	0.20	0.020	ug/L	1		8270C LL	Total/NA

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112231-1
SDG: Proj. 60400249-21563720.02004

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-112231-1	TB-ROX-100915-8260	Water	10/09/15 00:00	10/10/15 09:21
400-112231-2	TB-ROX-100915-8011	Water	10/09/15 00:00	10/10/15 09:21
400-112231-3	MW10-ROX-100915	Water	10/09/15 09:39	10/10/15 09:21
400-112231-4	P54-ROX-100915	Water	10/09/15 10:45	10/10/15 09:21

Client Sample ID: TB-ROX-100915-8260

Date Collected: 10/09/15 00:00
Date Received: 10/10/15 09:21

Lab Sample ID: 400-112231-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/21/15 14:38	1
Acrolein	ND		20	10	ug/L			10/21/15 14:38	1
Acrylonitrile	ND		10	2.8	ug/L			10/21/15 14:38	1
Benzene	ND		1.0	0.38	ug/L			10/21/15 14:38	1
Bromobenzene	ND		1.0	0.54	ug/L			10/21/15 14:38	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/21/15 14:38	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/21/15 14:38	1
Bromoform	ND		5.0	0.71	ug/L			10/21/15 14:38	1
Bromomethane	ND		1.0	0.98	ug/L			10/21/15 14:38	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/21/15 14:38	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/21/15 14:38	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/21/15 14:38	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/21/15 14:38	1
Chloroethane	ND		1.0	0.76	ug/L			10/21/15 14:38	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/21/15 14:38	1
Chloroform	ND		1.0	0.60	ug/L			10/21/15 14:38	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/21/15 14:38	1
Chloromethane	ND		1.0	0.83	ug/L			10/21/15 14:38	1
2-Chlorotoluene	ND		1.0	0.57	ug/L			10/21/15 14:38	1
4-Chlorotoluene	ND		1.0	0.56	ug/L			10/21/15 14:38	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 14:38	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/15 14:38	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/21/15 14:38	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/21/15 14:38	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/21/15 14:38	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/21/15 14:38	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/21/15 14:38	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/21/15 14:38	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/21/15 14:38	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 14:38	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 14:38	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 14:38	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 14:38	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/21/15 14:38	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/21/15 14:38	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/21/15 14:38	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/21/15 14:38	1
2-Hexanone	ND		25	3.1	ug/L			10/21/15 14:38	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/21/15 14:38	1
Methylene bromide	ND		5.0	0.59	ug/L			10/21/15 14:38	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/21/15 14:38	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/21/15 14:38	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/21/15 14:38	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/21/15 14:38	1
Naphthalene	ND		1.0	1.0	ug/L			10/21/15 14:38	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/21/15 14:38	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/21/15 14:38	1
o-Xylene	ND		5.0	0.60	ug/L			10/21/15 14:38	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/21/15 14:38	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112231-1
SDG: Proj. 60400249-21563720.02004

Client Sample ID: TB-ROX-100915-8260
Date Collected: 10/09/15 00:00
Date Received: 10/10/15 09:21

Lab Sample ID: 400-112231-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/21/15 14:38	1
Styrene	ND		1.0	1.0	ug/L			10/21/15 14:38	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/21/15 14:38	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/21/15 14:38	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/21/15 14:38	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/21/15 14:38	1
Toluene	ND		1.0	0.70	ug/L			10/21/15 14:38	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 14:38	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/15 14:38	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/21/15 14:38	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/21/15 14:38	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/21/15 14:38	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/21/15 14:38	1
Trichloroethene	ND		1.0	0.50	ug/L			10/21/15 14:38	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/21/15 14:38	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/21/15 14:38	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/21/15 14:38	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/21/15 14:38	1
Vinyl acetate	ND		25	2.0	ug/L			10/21/15 14:38	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/21/15 14:38	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/21/15 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*78 - 118*		*10/21/15 14:38*	*1*
Dibromofluoromethane	*95*		*81 - 121*		*10/21/15 14:38*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/21/15 14:38*	*1*

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112231-1
SDG: Proj. 60400249-21563720.02004

Client Sample ID: TB-ROX-100915-8011
Date Collected: 10/09/15 00:00
Date Received: 10/10/15 09:21

Lab Sample ID: 400-112231-2
Matrix: Water

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0054	ug/L		10/13/15 16:23	10/15/15 04:48	1
1,2-Dibromoethane	ND		0.020	0.0049	ug/L		10/13/15 16:23	10/15/15 04:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*169*	*X*	*51 - 149*	*10/13/15 16:23*	*10/15/15 04:48*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112231-1
SDG: Proj. 60400249-21563720.02004

Client Sample ID: MW10-ROX-100915
Date Collected: 10/09/15 09:39
Date Received: 10/10/15 09:21

Lab Sample ID: 400-112231-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/21/15 15:00	1
Acrolein	ND		20	10	ug/L			10/21/15 15:00	1
Acrylonitrile	ND		10	2.8	ug/L			10/21/15 15:00	1
Benzene	ND		1.0	0.38	ug/L			10/21/15 15:00	1
Bromobenzene	ND		1.0	0.54	ug/L			10/21/15 15:00	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/21/15 15:00	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/21/15 15:00	1
Bromoform	ND		5.0	0.71	ug/L			10/21/15 15:00	1
Bromomethane	ND		1.0	0.98	ug/L			10/21/15 15:00	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/21/15 15:00	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/21/15 15:00	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/21/15 15:00	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/21/15 15:00	1
Chloroethane	ND		1.0	0.76	ug/L			10/21/15 15:00	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/21/15 15:00	1
Chloroform	ND		1.0	0.60	ug/L			10/21/15 15:00	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/21/15 15:00	1
Chloromethane	ND		1.0	0.83	ug/L			10/21/15 15:00	1
2-Chlorotoluene	ND		1.0	0.57	ug/L			10/21/15 15:00	1
4-Chlorotoluene	ND		1.0	0.56	ug/L			10/21/15 15:00	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 15:00	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/15 15:00	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/21/15 15:00	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/21/15 15:00	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/21/15 15:00	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/21/15 15:00	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/21/15 15:00	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/21/15 15:00	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/21/15 15:00	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 15:00	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 15:00	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 15:00	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 15:00	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/21/15 15:00	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/21/15 15:00	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/21/15 15:00	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/21/15 15:00	1
2-Hexanone	ND		25	3.1	ug/L			10/21/15 15:00	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/21/15 15:00	1
Methylene bromide	ND		5.0	0.59	ug/L			10/21/15 15:00	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/21/15 15:00	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/21/15 15:00	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/21/15 15:00	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/21/15 15:00	1
Naphthalene	ND		1.0	1.0	ug/L			10/21/15 15:00	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/21/15 15:00	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/21/15 15:00	1
o-Xylene	ND		5.0	0.60	ug/L			10/21/15 15:00	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/21/15 15:00	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112231-1
SDG: Proj. 60400249-21563720.02004

Client Sample ID: MW10-ROX-100915
Date Collected: 10/09/15 09:39
Date Received: 10/10/15 09:21

Lab Sample ID: 400-112231-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/21/15 15:00	1
Styrene	ND		1.0	1.0	ug/L			10/21/15 15:00	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/21/15 15:00	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/21/15 15:00	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/21/15 15:00	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/21/15 15:00	1
Toluene	ND		1.0	0.70	ug/L			10/21/15 15:00	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 15:00	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/15 15:00	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/21/15 15:00	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/21/15 15:00	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/21/15 15:00	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/21/15 15:00	1
Trichloroethene	ND		1.0	0.50	ug/L			10/21/15 15:00	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/21/15 15:00	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/21/15 15:00	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/21/15 15:00	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/21/15 15:00	1
Vinyl acetate	ND		25	2.0	ug/L			10/21/15 15:00	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/21/15 15:00	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/21/15 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*78 - 118*		*10/21/15 15:00*	*1*
Dibromofluoromethane	*100*		*81 - 121*		*10/21/15 15:00*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/21/15 15:00*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 22:48	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 22:48	1
Anthracene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 22:48	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 22:48	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 22:48	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 22:48	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 22:48	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 22:48	1
Chrysene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 22:48	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 22:48	1
Fluoranthene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 22:48	1
Fluorene	ND		0.20	0.021	ug/L		10/12/15 11:00	10/14/15 22:48	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 22:48	1
1-Methylnaphthalene	**0.039**	**J**	0.20	0.020	ug/L		10/12/15 11:00	10/14/15 22:48	1
2-Methylnaphthalene	**0.063**	**J**	0.20	0.020	ug/L		10/12/15 11:00	10/14/15 22:48	1
Phenanthrene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 22:48	1
Pyrene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*104*		*15 - 122*	*10/12/15 11:00*	*10/14/15 22:48*	*1*
Nitrobenzene-d5	*90*		*19 - 130*	*10/12/15 11:00*	*10/14/15 22:48*	*1*

Client Sample ID: MW10-ROX-100915

Date Collected: 10/09/15 09:39
Date Received: 10/10/15 09:21

Lab Sample ID: 400-112231-3

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	91		33 - 138	10/12/15 11:00	10/14/15 22:48	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/12/15 11:00	10/13/15 21:52	1
Benzenethiol	ND		10	1.7	ug/L		10/12/15 11:00	10/13/15 21:52	1
Benzoic acid	ND	*	30	7.3	ug/L		10/12/15 11:00	10/13/15 21:52	1
Benzyl alcohol	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 21:52	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/12/15 11:00	10/13/15 21:52	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/12/15 11:00	10/13/15 21:52	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/12/15 11:00	10/13/15 21:52	1
Bis(2-ethylhexyl)phthalate	ND		10	2.3	ug/L		10/12/15 11:00	10/13/15 21:52	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/12/15 11:00	10/13/15 21:52	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/12/15 11:00	10/13/15 21:52	1
4-Chloroaniline	ND		10	3.4	ug/L		10/12/15 11:00	10/13/15 21:52	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/12/15 11:00	10/13/15 21:52	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/12/15 11:00	10/13/15 21:52	1
2-Chlorophenol	ND		10	2.2	ug/L		10/12/15 11:00	10/13/15 21:52	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 21:52	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/12/15 11:00	10/13/15 21:52	1
Dibenzofuran	ND		10	0.52	ug/L		10/12/15 11:00	10/13/15 21:52	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/12/15 11:00	10/13/15 21:52	1
2,4,-Dichlorophenol	ND		10	3.0	ug/L		10/12/15 11:00	10/13/15 21:52	1
Diethyl phthalate	ND		10	0.70	ug/L		10/12/15 11:00	10/13/15 21:52	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 21:52	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/12/15 11:00	10/13/15 21:52	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/12/15 11:00	10/13/15 21:52	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 21:52	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/12/15 11:00	10/13/15 21:52	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 11:00	10/13/15 21:52	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 11:00	10/13/15 21:52	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/12/15 11:00	10/13/15 21:52	1
1,4-Dioxane	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 21:52	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 21:52	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/12/15 11:00	10/13/15 21:52	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/12/15 11:00	10/13/15 21:52	1
Hexachloroethane	ND		10	4.2	ug/L		10/12/15 11:00	10/13/15 21:52	1
Indene	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 21:52	1
Isophorone	ND		10	0.57	ug/L		10/12/15 11:00	10/13/15 21:52	1
2-Methylphenol	ND		10	1.8	ug/L		10/12/15 11:00	10/13/15 21:52	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/12/15 11:00	10/13/15 21:52	1
2-Nitroaniline	ND		10	2.2	ug/L		10/12/15 11:00	10/13/15 21:52	1
3-Nitroaniline	ND		10	1.8	ug/L		10/12/15 11:00	10/13/15 21:52	1
4-Nitroaniline	ND		10	2.5	ug/L		10/12/15 11:00	10/13/15 21:52	1
Nitrobenzene	ND		10	0.55	ug/L		10/12/15 11:00	10/13/15 21:52	1
2-Nitrophenol	ND		10	0.65	ug/L		10/12/15 11:00	10/13/15 21:52	1
4-Nitrophenol	ND		10	2.1	ug/L		10/12/15 11:00	10/13/15 21:52	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 21:52	1

Client Sample ID: MW10-ROX-100915

Date Collected: 10/09/15 09:39
Date Received: 10/10/15 09:21

Lab Sample ID: 400-112231-3

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/12/15 11:00	10/13/15 21:52	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/12/15 11:00	10/13/15 21:52	1
Pentachlorophenol	ND		20	1.8	ug/L		10/12/15 11:00	10/13/15 21:52	1
Phenol	ND		10	2.6	ug/L		10/12/15 11:00	10/13/15 21:52	1
Pyridine	ND		10	3.2	ug/L		10/12/15 11:00	10/13/15 21:52	1
Quinoline	ND		10	6.0	ug/L		10/12/15 11:00	10/13/15 21:52	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/12/15 11:00	10/13/15 21:52	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 21:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*85*		*34 - 120*	*10/12/15 11:00*	*10/13/15 21:52*	*1*
2-Fluorophenol	*49*		*10 - 120*	*10/12/15 11:00*	*10/13/15 21:52*	*1*
Nitrobenzene-d5	*87*		*27 - 120*	*10/12/15 11:00*	*10/13/15 21:52*	*1*
Phenol-d5	*52*		*10 - 120*	*10/12/15 11:00*	*10/13/15 21:52*	*1*
Terphenyl-d14	*64*		*53 - 125*	*10/12/15 11:00*	*10/13/15 21:52*	*1*
2,4,6-Tribromophenol	*63*		*15 - 135*	*10/12/15 11:00*	*10/13/15 21:52*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.029	0.0054	ug/L		10/13/15 16:23	10/15/15 05:18	1
1,2-Dibromoethane	ND		0.020	0.0049	ug/L		10/13/15 16:23	10/15/15 05:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*241*	X	*51 - 149*	*10/13/15 16:23*	*10/15/15 05:18*	*1*

Client Sample ID: P54-ROX-100915
Date Collected: 10/09/15 10:45
Date Received: 10/10/15 09:21

Lab Sample ID: 400-112231-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/21/15 15:22	1
Acrolein	ND		20	10	ug/L			10/21/15 15:22	1
Acrylonitrile	ND		10	2.8	ug/L			10/21/15 15:22	1
Benzene	ND		1.0	0.38	ug/L			10/21/15 15:22	1
Bromobenzene	ND		1.0	0.54	ug/L			10/21/15 15:22	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/21/15 15:22	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/21/15 15:22	1
Bromoform	ND		5.0	0.71	ug/L			10/21/15 15:22	1
Bromomethane	ND		1.0	0.98	ug/L			10/21/15 15:22	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/21/15 15:22	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/21/15 15:22	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/21/15 15:22	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/21/15 15:22	1
Chloroethane	ND		1.0	0.76	ug/L			10/21/15 15:22	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/21/15 15:22	1
Chloroform	ND		1.0	0.60	ug/L			10/21/15 15:22	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/21/15 15:22	1
Chloromethane	ND		1.0	0.83	ug/L			10/21/15 15:22	1
2-Chlorotoluene	ND		1.0	0.57	ug/L			10/21/15 15:22	1
4-Chlorotoluene	ND		1.0	0.56	ug/L			10/21/15 15:22	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 15:22	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/15 15:22	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/21/15 15:22	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/21/15 15:22	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/21/15 15:22	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/21/15 15:22	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/21/15 15:22	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/21/15 15:22	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/21/15 15:22	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 15:22	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 15:22	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 15:22	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 15:22	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/21/15 15:22	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/21/15 15:22	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/21/15 15:22	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/21/15 15:22	1
2-Hexanone	ND		25	3.1	ug/L			10/21/15 15:22	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/21/15 15:22	1
Methylene bromide	ND		5.0	0.59	ug/L			10/21/15 15:22	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/21/15 15:22	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/21/15 15:22	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/21/15 15:22	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/21/15 15:22	1
Naphthalene	ND		1.0	1.0	ug/L			10/21/15 15:22	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/21/15 15:22	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/21/15 15:22	1
o-Xylene	ND		5.0	0.60	ug/L			10/21/15 15:22	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/21/15 15:22	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112231-1
SDG: Proj. 60400249-21563720.02004

Client Sample ID: P54-ROX-100915
Date Collected: 10/09/15 10:45
Date Received: 10/10/15 09:21

Lab Sample ID: 400-112231-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/21/15 15:22	1
Styrene	ND		1.0	1.0	ug/L			10/21/15 15:22	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/21/15 15:22	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/21/15 15:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/21/15 15:22	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/21/15 15:22	1
Toluene	ND		1.0	0.70	ug/L			10/21/15 15:22	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 15:22	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/15 15:22	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/21/15 15:22	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/21/15 15:22	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/21/15 15:22	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/21/15 15:22	1
Trichloroethene	ND		1.0	0.50	ug/L			10/21/15 15:22	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/21/15 15:22	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/21/15 15:22	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/21/15 15:22	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/21/15 15:22	1
Vinyl acetate	ND		25	2.0	ug/L			10/21/15 15:22	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/21/15 15:22	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/21/15 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*78 - 118*		*10/21/15 15:22*	*1*
Dibromofluoromethane	*96*		*81 - 121*		*10/21/15 15:22*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/21/15 15:22*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 23:25	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 23:25	1
Anthracene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 23:25	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 23:25	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 23:25	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 23:25	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 23:25	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 23:25	1
Chrysene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 23:25	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 23:25	1
Fluoranthene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 23:25	1
Fluorene	ND		0.20	0.021	ug/L		10/12/15 11:00	10/14/15 23:25	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 23:25	1
1-Methylnaphthalene	**0.037**	**J**	0.20	0.020	ug/L		10/12/15 11:00	10/14/15 23:25	1
2-Methylnaphthalene	**0.063**	**J**	0.20	0.020	ug/L		10/12/15 11:00	10/14/15 23:25	1
Phenanthrene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 23:25	1
Pyrene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 23:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*104*		*15 - 122*	*10/12/15 11:00*	*10/14/15 23:25*	*1*
Nitrobenzene-d5	*91*		*19 - 130*	*10/12/15 11:00*	*10/14/15 23:25*	*1*

Client Sample ID: P54-ROX-100915

Date Collected: 10/09/15 10:45
Date Received: 10/10/15 09:21

Lab Sample ID: 400-112231-4

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*119*		*33 - 138*	*10/12/15 11:00*	*10/14/15 23:25*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/12/15 11:00	10/15/15 23:46	1
Benzenethiol	ND		10	1.7	ug/L		10/12/15 11:00	10/15/15 23:46	1
Benzoic acid	ND	*	30	7.3	ug/L		10/12/15 11:00	10/15/15 23:46	1
Benzyl alcohol	ND		10	2.0	ug/L		10/12/15 11:00	10/15/15 23:46	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/12/15 11:00	10/15/15 23:46	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/12/15 11:00	10/15/15 23:46	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/12/15 11:00	10/15/15 23:46	1
Bis(2-ethylhexyl)phthalate	ND		10	2.3	ug/L		10/12/15 11:00	10/15/15 23:46	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/12/15 11:00	10/15/15 23:46	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/12/15 11:00	10/15/15 23:46	1
4-Chloroaniline	ND		10	3.4	ug/L		10/12/15 11:00	10/15/15 23:46	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/12/15 11:00	10/15/15 23:46	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/12/15 11:00	10/15/15 23:46	1
2-Chlorophenol	ND		10	2.2	ug/L		10/12/15 11:00	10/15/15 23:46	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/12/15 11:00	10/15/15 23:46	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/12/15 11:00	10/15/15 23:46	1
Dibenzofuran	ND		10	0.52	ug/L		10/12/15 11:00	10/15/15 23:46	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/12/15 11:00	10/15/15 23:46	1
2,4,-Dichlorophenol	ND		10	3.0	ug/L		10/12/15 11:00	10/15/15 23:46	1
Diethyl phthalate	ND		10	0.70	ug/L		10/12/15 11:00	10/15/15 23:46	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/12/15 11:00	10/15/15 23:46	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/12/15 11:00	10/15/15 23:46	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/12/15 11:00	10/15/15 23:46	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/12/15 11:00	10/15/15 23:46	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/12/15 11:00	10/15/15 23:46	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 11:00	10/15/15 23:46	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 11:00	10/15/15 23:46	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/12/15 11:00	10/15/15 23:46	1
1,4-Dioxane	ND		10	1.0	ug/L		10/12/15 11:00	10/15/15 23:46	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/12/15 11:00	10/15/15 23:46	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/12/15 11:00	10/15/15 23:46	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/12/15 11:00	10/15/15 23:46	1
Hexachloroethane	ND		10	4.2	ug/L		10/12/15 11:00	10/15/15 23:46	1
Indene	ND		10	1.0	ug/L		10/12/15 11:00	10/15/15 23:46	1
Isophorone	ND		10	0.57	ug/L		10/12/15 11:00	10/15/15 23:46	1
2-Methylphenol	ND		10	1.8	ug/L		10/12/15 11:00	10/15/15 23:46	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/12/15 11:00	10/15/15 23:46	1
2-Nitroaniline	ND		10	2.2	ug/L		10/12/15 11:00	10/15/15 23:46	1
3-Nitroaniline	ND		10	1.8	ug/L		10/12/15 11:00	10/15/15 23:46	1
4-Nitroaniline	ND		10	2.5	ug/L		10/12/15 11:00	10/15/15 23:46	1
Nitrobenzene	ND		10	0.55	ug/L		10/12/15 11:00	10/15/15 23:46	1
2-Nitrophenol	ND		10	0.65	ug/L		10/12/15 11:00	10/15/15 23:46	1
4-Nitrophenol	ND		10	2.1	ug/L		10/12/15 11:00	10/15/15 23:46	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/12/15 11:00	10/15/15 23:46	1

Client Sample ID: P54-ROX-100915

Date Collected: 10/09/15 10:45
Date Received: 10/10/15 09:21

Lab Sample ID: 400-112231-4

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/12/15 11:00	10/15/15 23:46	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/12/15 11:00	10/15/15 23:46	1
Pentachlorophenol	ND		20	1.8	ug/L		10/12/15 11:00	10/15/15 23:46	1
Phenol	ND		10	2.6	ug/L		10/12/15 11:00	10/15/15 23:46	1
Pyridine	ND		10	3.2	ug/L		10/12/15 11:00	10/15/15 23:46	1
Quinoline	ND		10	6.0	ug/L		10/12/15 11:00	10/15/15 23:46	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/12/15 11:00	10/15/15 23:46	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/12/15 11:00	10/15/15 23:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*34 - 120*	*10/12/15 11:00*	*10/15/15 23:46*	*1*
2-Fluorophenol	*53*		*10 - 120*	*10/12/15 11:00*	*10/15/15 23:46*	*1*
Nitrobenzene-d5	*84*		*27 - 120*	*10/12/15 11:00*	*10/15/15 23:46*	*1*
Phenol-d5	*56*		*10 - 120*	*10/12/15 11:00*	*10/15/15 23:46*	*1*
Terphenyl-d14	*82*		*53 - 125*	*10/12/15 11:00*	*10/15/15 23:46*	*1*
2,4,6-Tribromophenol	*63*		*15 - 135*	*10/12/15 11:00*	*10/15/15 23:46*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.028	0.0051	ug/L		10/13/15 16:23	10/15/15 05:48	1
1,2-Dibromoethane	ND		0.019	0.0046	ug/L		10/13/15 16:23	10/15/15 05:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*234*	*X*	*51 - 149*	*10/13/15 16:23*	*10/15/15 05:48*	*1*

Qualifiers

GC/MS Semi VOA

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

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Glossary

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

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112231-1
SDG: Proj. 60400249-21563720.02004

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(78-118)	(81-121)	(80-120)
400-112219-A-3 MS	Matrix Spike	101	103	97
400-112219-A-3 MSD	Matrix Spike Duplicate	103	103	98
400-112231-1	TB-ROX-100915-8260	99	95	96
400-112231-3	MW10-ROX-100915	103	100	97
400-112231-4	P54-ROX-100915	99	96	99
LCS 400-279821/1002	Lab Control Sample	101	105	96
MB 400-279821/4	Method Blank	102	103	97

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	Client Sample ID	(34-120)	(10-120)	(27-120)	(10-120)	(53-125)	(15-135)
400-112231-3	MW10-ROX-100915	85	49	87	52	64	63
400-112231-4	P54-ROX-100915	76	53	84	56	82	63
LCS 400-278376/2-A	Lab Control Sample	88	71	92	73	94	108
LCSD 400-278376/3-A	Lab Control Sample Dup	82	68	87	73	86	100
MB 400-278376/1-A	Method Blank	76	42	87	72	98	89

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPH
Lab Sample ID	Client Sample ID	(15-122)	(19-130)	(33-138)
400-112231-3	MW10-ROX-100915	104	90	91
400-112231-4	P54-ROX-100915	104	91	119
LCS 400-278376/2-A	Lab Control Sample	96	101	106
LCSD 400-278376/3-A	Lab Control Sample Dup	94	103	102
MB 400-278376/1-A	Method Blank	92	100	131

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5
TPH = Terphenyl-d14

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112231-1
SDG: Proj. 60400249-21563720.02004

Method: 8011 - EDB and DBCP in Water by Microextraction

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	**Client Sample ID**	**BFB1 (51-149)**
400-112231-2	TB-ROX-100915-8011	169 X
400-112231-3	MW10-ROX-100915	241 X
400-112231-4	P54-ROX-100915	234 X
LCS 400-278644/2-A	Lab Control Sample	103
LCSD 400-278644/3-A	Lab Control Sample Dup	123
MB 400-278644/1-A	Method Blank	136

Surrogate Legend

BFB = 4-Bromofluorobenzene

GC/MS VOA

Analysis Batch: 279821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112231-1	TB-ROX-100915-8260	Total/NA	Water	8260B	
400-112231-3	MW10-ROX-100915	Total/NA	Water	8260B	
400-112231-4	P54-ROX-100915	Total/NA	Water	8260B	
LCS 400-279821/1002	Lab Control Sample	Total/NA	Water	8260B	
MB 400-279821/4	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 278376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112231-3	MW10-ROX-100915	Total/NA	Water	3520C	
400-112231-4	P54-ROX-100915	Total/NA	Water	3520C	
LCS 400-278376/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-278376/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 400-278376/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 278441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-278376/2-A	Lab Control Sample	Total/NA	Water	8270C	278376
LCSD 400-278376/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	278376
MB 400-278376/1-A	Method Blank	Total/NA	Water	8270C	278376

Analysis Batch: 278483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112231-3	MW10-ROX-100915	Total/NA	Water	8270C	278376

Analysis Batch: 278702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-278376/2-A	Lab Control Sample	Total/NA	Water	8270C LL	278376
LCSD 400-278376/3-A	Lab Control Sample Dup	Total/NA	Water	8270C LL	278376
MB 400-278376/1-A	Method Blank	Total/NA	Water	8270C LL	278376

Analysis Batch: 278836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112231-3	MW10-ROX-100915	Total/NA	Water	8270C LL	278376
400-112231-4	P54-ROX-100915	Total/NA	Water	8270C LL	278376

Analysis Batch: 278897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112231-4	P54-ROX-100915	Total/NA	Water	8270C	278376

GC Semi VOA

Prep Batch: 278644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112231-2	TB-ROX-100915-8011	Total/NA	Water	8011	
400-112231-3	MW10-ROX-100915	Total/NA	Water	8011	
400-112231-4	P54-ROX-100915	Total/NA	Water	8011	
LCS 400-278644/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 400-278644/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

GC Semi VOA (Continued)

Prep Batch: 278644 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-278644/1-A	Method Blank	Total/NA	Water	8011	

Analysis Batch: 278887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112231-2	TB-ROX-100915-8011	Total/NA	Water	8011	278644
400-112231-3	MW10-ROX-100915	Total/NA	Water	8011	278644
400-112231-4	P54-ROX-100915	Total/NA	Water	8011	278644
LCS 400-278644/2-A	Lab Control Sample	Total/NA	Water	8011	278644
LCSD 400-278644/3-A	Lab Control Sample Dup	Total/NA	Water	8011	278644
MB 400-278644/1-A	Method Blank	Total/NA	Water	8011	278644

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

Lab Sample ID: MB 400-279821/4
Matrix: Water
Analysis Batch: 279821

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/21/15 11:00	1
Acrolein	ND		20	10	ug/L			10/21/15 11:00	1
Acrylonitrile	ND		10	2.8	ug/L			10/21/15 11:00	1
Benzene	ND		1.0	0.38	ug/L			10/21/15 11:00	1
Bromobenzene	ND		1.0	0.54	ug/L			10/21/15 11:00	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/21/15 11:00	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/21/15 11:00	1
Bromoform	ND		5.0	0.71	ug/L			10/21/15 11:00	1
Bromomethane	ND		1.0	0.98	ug/L			10/21/15 11:00	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/21/15 11:00	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/21/15 11:00	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/21/15 11:00	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/21/15 11:00	1
Chloroethane	ND		1.0	0.76	ug/L			10/21/15 11:00	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/21/15 11:00	1
Chloroform	ND		1.0	0.60	ug/L			10/21/15 11:00	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/21/15 11:00	1
Chloromethane	ND		1.0	0.83	ug/L			10/21/15 11:00	1
2-Chlorotoluene	ND		1.0	0.57	ug/L			10/21/15 11:00	1
4-Chlorotoluene	ND		1.0	0.56	ug/L			10/21/15 11:00	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 11:00	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/15 11:00	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/21/15 11:00	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/21/15 11:00	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/21/15 11:00	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/21/15 11:00	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/21/15 11:00	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/21/15 11:00	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/21/15 11:00	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 11:00	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 11:00	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 11:00	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 11:00	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/21/15 11:00	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/21/15 11:00	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/21/15 11:00	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/21/15 11:00	1
2-Hexanone	ND		25	3.1	ug/L			10/21/15 11:00	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/21/15 11:00	1
Methylene bromide	ND		5.0	0.59	ug/L			10/21/15 11:00	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/21/15 11:00	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/21/15 11:00	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/21/15 11:00	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/21/15 11:00	1
Naphthalene	ND		1.0	1.0	ug/L			10/21/15 11:00	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/21/15 11:00	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/21/15 11:00	1
o-Xylene	ND		5.0	0.60	ug/L			10/21/15 11:00	1

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

Lab Sample ID: MB 400-279821/4
Matrix: Water
Analysis Batch: 279821

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/21/15 11:00	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/21/15 11:00	1
Styrene	ND		1.0	1.0	ug/L			10/21/15 11:00	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/21/15 11:00	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/21/15 11:00	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/21/15 11:00	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/21/15 11:00	1
Toluene	ND		1.0	0.70	ug/L			10/21/15 11:00	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 11:00	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/15 11:00	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/21/15 11:00	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/21/15 11:00	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/21/15 11:00	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/21/15 11:00	1
Trichloroethene	ND		1.0	0.50	ug/L			10/21/15 11:00	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/21/15 11:00	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/21/15 11:00	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/21/15 11:00	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/21/15 11:00	1
Vinyl acetate	ND		25	2.0	ug/L			10/21/15 11:00	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/21/15 11:00	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/21/15 11:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*78 - 118*		*10/21/15 11:00*	*1*
Dibromofluoromethane	*103*		*81 - 121*		*10/21/15 11:00*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/21/15 11:00*	*1*

Lab Sample ID: LCS 400-279821/1002
Matrix: Water
Analysis Batch: 279821

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	251		ug/L		126	43 - 160
Acrolein	500	468		ug/L		94	38 - 160
Acrylonitrile	500	495		ug/L		99	64 - 142
Benzene	50.0	44.6		ug/L		89	70 - 130
Bromobenzene	50.0	38.2		ug/L		76	70 - 132
Bromochloromethane	50.0	41.3		ug/L		83	70 - 130
Bromodichloromethane	50.0	41.5		ug/L		83	67 - 133
Bromoform	50.0	29.0		ug/L		58	57 - 140
Bromomethane	50.0	49.4		ug/L		99	10 - 160
2-Butanone (MEK)	200	212		ug/L		106	61 - 145
Carbon disulfide	50.0	35.4		ug/L		71	61 - 137
Carbon tetrachloride	50.0	40.4		ug/L		81	61 - 137
Chlorobenzene	50.0	40.0		ug/L		80	70 - 130
Chloroethane	50.0	44.1		ug/L		88	55 - 141
2-Chloroethyl vinyl ether	50.0	47.8		ug/L		96	10 - 160

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

Lab Sample ID: LCS 400-279821/1002
Matrix: Water
Analysis Batch: 279821

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	50.0	45.3		ug/L		91	69 - 130
1-Chlorohexane	50.0	43.6		ug/L		87	69 - 130
Chloromethane	50.0	35.7		ug/L		71	58 - 137
2-Chlorotoluene	50.0	41.0		ug/L		82	70 - 130
4-Chlorotoluene	50.0	40.8		ug/L		82	70 - 130
cis-1,2-Dichloroethene	50.0	44.5		ug/L		89	68 - 130
cis-1,3-Dichloropropene	50.0	41.9		ug/L		84	69 - 132
Dibromochloromethane	50.0	36.6		ug/L		73	67 - 135
1,2-Dichlorobenzene	50.0	38.8		ug/L		78	67 - 130
1,3-Dichlorobenzene	50.0	38.8		ug/L		78	70 - 130
1,4-Dichlorobenzene	50.0	39.2		ug/L		78	70 - 130
Dichlorodifluoromethane	50.0	30.7		ug/L		61	41 - 146
1,1-Dichloroethane	50.0	45.1		ug/L		90	70 - 130
1,2-Dichloroethane	50.0	49.9		ug/L		100	69 - 130
1,1-Dichloroethene	50.0	41.5		ug/L		83	63 - 134
1,2-Dichloropropane	50.0	46.4		ug/L		93	70 - 130
1,3-Dichloropropane	50.0	43.1		ug/L		86	70 - 130
2,2-Dichloropropane	50.0	39.0		ug/L		78	52 - 135
1,1-Dichloropropene	50.0	44.8		ug/L		90	70 - 130
Ethylbenzene	50.0	40.6		ug/L		81	70 - 130
Ethyl methacrylate	50.0	43.9		ug/L		88	68 - 130
Hexachlorobutadiene	50.0	37.5		ug/L		75	53 - 140
2-Hexanone	200	207		ug/L		104	65 - 137
Isopropylbenzene	50.0	40.4		ug/L		81	70 - 130
Methylene bromide	50.0	46.2		ug/L		92	70 - 130
Methylene Chloride	50.0	45.5		ug/L		91	66 - 135
4-Methyl-2-pentanone (MIBK)	200	202		ug/L		101	69 - 138
Methyl tert-butyl ether	50.0	46.7		ug/L		93	66 - 130
m-Xylene & p-Xylene	50.0	40.6		ug/L		81	70 - 130
Naphthalene	50.0	38.3		ug/L		77	47 - 149
n-Butylbenzene	50.0	42.6		ug/L		85	67 - 130
N-Propylbenzene	50.0	42.0		ug/L		84	70 - 130
o-Xylene	50.0	40.2		ug/L		80	70 - 130
p-Isopropyltoluene	50.0	39.6		ug/L		79	65 - 130
sec-Butylbenzene	50.0	40.2		ug/L		80	66 - 130
Styrene	50.0	39.5		ug/L		79	70 - 130
tert-Butylbenzene	50.0	39.3		ug/L		79	64 - 139
1,1,1,2-Tetrachloroethane	50.0	36.9		ug/L		74	67 - 131
1,1,2,2-Tetrachloroethane	50.0	44.9		ug/L		90	70 - 131
Tetrachloroethene	50.0	34.5		ug/L		69	65 - 130
Toluene	50.0	41.4		ug/L		83	70 - 130
trans-1,2-Dichloroethene	50.0	42.7		ug/L		85	70 - 130
trans-1,3-Dichloropropene	50.0	39.3		ug/L		79	63 - 130
1,2,3-Trichlorobenzene	50.0	36.5		ug/L		73	60 - 138
1,2,4-Trichlorobenzene	50.0	37.1		ug/L		74	60 - 140
1,1,1-Trichloroethane	50.0	41.7		ug/L		83	68 - 130
1,1,2-Trichloroethane	50.0	42.2		ug/L		84	70 - 130
Trichloroethene	50.0	40.6		ug/L		81	70 - 130

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

Lab Sample ID: LCS 400-279821/1002
Matrix: Water
Analysis Batch: 279821

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	42.6		ug/L		85	65 - 138
1,2,3-Trichloropropane	50.0	42.9		ug/L		86	70 - 130
1,2,4-Trimethylbenzene	50.0	40.3		ug/L		81	70 - 130
1,3,5-Trimethylbenzene	50.0	39.9		ug/L		80	69 - 130
Vinyl acetate	100	83.6		ug/L		84	26 - 160
Vinyl chloride	50.0	40.7		ug/L		81	59 - 136
Xylenes, Total	100	80.8		ug/L		81	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*78 - 118*
Dibromofluoromethane	*105*		*81 - 121*
Toluene-d8 (Surr)	*96*		*80 - 120*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-278376/1-A
Matrix: Water
Analysis Batch: 278441

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/12/15 11:00	10/13/15 15:41	1
Benzenethiol	ND		10	1.7	ug/L		10/12/15 11:00	10/13/15 15:41	1
Benzoic acid	ND		30	7.3	ug/L		10/12/15 11:00	10/13/15 15:41	1
Benzyl alcohol	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/12/15 11:00	10/13/15 15:41	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/12/15 11:00	10/13/15 15:41	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/12/15 11:00	10/13/15 15:41	1
Bis(2-ethylhexyl)phthalate	ND		10	2.3	ug/L		10/12/15 11:00	10/13/15 15:41	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/12/15 11:00	10/13/15 15:41	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/12/15 11:00	10/13/15 15:41	1
4-Chloroaniline	ND		10	3.4	ug/L		10/12/15 11:00	10/13/15 15:41	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/12/15 11:00	10/13/15 15:41	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/12/15 11:00	10/13/15 15:41	1
2-Chlorophenol	ND		10	2.2	ug/L		10/12/15 11:00	10/13/15 15:41	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
Dibenzofuran	ND		10	0.52	ug/L		10/12/15 11:00	10/13/15 15:41	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/12/15 11:00	10/13/15 15:41	1
2,4,-Dichlorophenol	ND		10	3.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
Diethyl phthalate	ND		10	0.70	ug/L		10/12/15 11:00	10/13/15 15:41	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 15:41	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/12/15 11:00	10/13/15 15:41	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/12/15 11:00	10/13/15 15:41	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/12/15 11:00	10/13/15 15:41	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 11:00	10/13/15 15:41	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/12/15 11:00	10/13/15 15:41	1
Di-n-octyl phthalate	0.553	J	10	0.44	ug/L		10/12/15 11:00	10/13/15 15:41	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-278376/1-A
Matrix: Water
Analysis Batch: 278441

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/12/15 11:00	10/13/15 15:41	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/12/15 11:00	10/13/15 15:41	1
Hexachloroethane	ND		10	4.2	ug/L		10/12/15 11:00	10/13/15 15:41	1
Indene	ND		10	1.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
Isophorone	ND		10	0.57	ug/L		10/12/15 11:00	10/13/15 15:41	1
2-Methylphenol	ND		10	1.8	ug/L		10/12/15 11:00	10/13/15 15:41	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
2-Nitroaniline	ND		10	2.2	ug/L		10/12/15 11:00	10/13/15 15:41	1
3-Nitroaniline	ND		10	1.8	ug/L		10/12/15 11:00	10/13/15 15:41	1
4-Nitroaniline	ND		10	2.5	ug/L		10/12/15 11:00	10/13/15 15:41	1
Nitrobenzene	ND		10	0.55	ug/L		10/12/15 11:00	10/13/15 15:41	1
2-Nitrophenol	ND		10	0.65	ug/L		10/12/15 11:00	10/13/15 15:41	1
4-Nitrophenol	ND		10	2.1	ug/L		10/12/15 11:00	10/13/15 15:41	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 15:41	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/12/15 11:00	10/13/15 15:41	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/12/15 11:00	10/13/15 15:41	1
Pentachlorophenol	ND		20	1.8	ug/L		10/12/15 11:00	10/13/15 15:41	1
Phenol	ND		10	2.6	ug/L		10/12/15 11:00	10/13/15 15:41	1
Pyridine	ND		10	3.2	ug/L		10/12/15 11:00	10/13/15 15:41	1
Quinoline	ND		10	6.0	ug/L		10/12/15 11:00	10/13/15 15:41	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/12/15 11:00	10/13/15 15:41	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/12/15 11:00	10/13/15 15:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*34 - 120*	*10/12/15 11:00*	*10/13/15 15:41*	*1*
2-Fluorophenol	*42*		*10 - 120*	*10/12/15 11:00*	*10/13/15 15:41*	*1*
Nitrobenzene-d5	*87*		*27 - 120*	*10/12/15 11:00*	*10/13/15 15:41*	*1*
Phenol-d5	*72*		*10 - 120*	*10/12/15 11:00*	*10/13/15 15:41*	*1*
Terphenyl-d14	*98*		*53 - 125*	*10/12/15 11:00*	*10/13/15 15:41*	*1*
2,4,6-Tribromophenol	*89*		*15 - 135*	*10/12/15 11:00*	*10/13/15 15:41*	*1*

Lab Sample ID: LCS 400-278376/2-A
Matrix: Water
Analysis Batch: 278441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	30.0	19.2		ug/L		64	10 - 145
Benzoic acid	110	21.0	J	ug/L		19	10 - 120
Benzyl alcohol	30.0	24.1		ug/L		80	51 - 121
Bis(2-chloroethoxy)methane	30.0	25.1		ug/L		84	54 - 123
Bis(2-chloroethyl)ether	30.0	24.3		ug/L		81	47 - 120
bis (2-chloroisopropyl) ether	30.0	23.1		ug/L		77	20 - 142
Bis(2-ethylhexyl)phthalate	30.0	27.6		ug/L		92	62 - 140
4-Bromophenyl phenyl ether	30.0	24.6		ug/L		82	62 - 132
Butyl benzyl phthalate	30.0	27.2		ug/L		91	51 - 150

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-278376/2-A
Matrix: Water
Analysis Batch: 278441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	30.0	22.3		ug/L		74	32 - 128
4-Chloro-3-methylphenol	30.0	25.3		ug/L		84	47 - 135
2-Chloronaphthalene	30.0	23.4		ug/L		78	24 - 150
2-Chlorophenol	30.0	22.8		ug/L		76	45 - 120
4-Chlorophenyl phenyl ether	30.0	26.4		ug/L		88	61 - 133
Dibenzofuran	30.0	25.6		ug/L		85	62 - 124
3,3'-Dichlorobenzidine	30.0	28.6		ug/L		95	16 - 167
2,4,-Dichlorophenol	30.0	25.4		ug/L		85	52 - 125
Diethyl phthalate	30.0	27.8		ug/L		93	55 - 140
2,4-Dimethylphenol	30.0	23.4		ug/L		78	52 - 121
Dimethyl phthalate	30.0	26.0		ug/L		87	50 - 133
Di-n-butyl phthalate	30.0	28.9		ug/L		96	59 - 144
4,6-Dinitro-o-cresol	60.0	76.4		ug/L		127	46 - 136
2,4-Dinitrophenol	86.0	94.1		ug/L		109	22 - 146
2,4-Dinitrotoluene	30.0	30.5		ug/L		102	54 - 141
2,6-Dinitrotoluene	30.0	29.1		ug/L		97	61 - 130
Di-n-octyl phthalate	30.0	27.9		ug/L		93	55 - 140
1,4-Dioxane	30.0	18.7		ug/L		62	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	30.0	23.5		ug/L		78	55 - 139
Hexachlorobenzene	30.0	25.4		ug/L		85	60 - 138
Hexachlorocyclopentadiene	30.0	12.0	J	ug/L		40	1 - 139
Hexachloroethane	30.0	15.8		ug/L		53	46 - 121
Indene	30.0	21.5		ug/L		72	17 - 141
Isophorone	30.0	25.6		ug/L		85	57 - 122
2-Methylphenol	30.0	22.8		ug/L		76	38 - 121
3 & 4 Methylphenol	30.0	23.3		ug/L		78	43 - 126
2-Nitroaniline	30.0	27.9		ug/L		93	52 - 135
3-Nitroaniline	30.0	25.6		ug/L		85	51 - 128
4-Nitroaniline	30.0	27.8		ug/L		93	38 - 141
Nitrobenzene	30.0	24.9		ug/L		83	52 - 128
2-Nitrophenol	30.0	26.8		ug/L		89	47 - 129
4-Nitrophenol	60.0	46.3		ug/L		77	34 - 137
N-Nitrosodimethylamine	30.0	21.1		ug/L		70	21 - 134
N-Nitrosodi-n-propylamine	30.0	24.7		ug/L		82	41 - 143
N-Nitrosodiphenylamine	60.0	49.4		ug/L		82	10 - 185
Pentachlorophenol	60.0	65.1		ug/L		109	38 - 138
Phenol	30.0	19.4		ug/L		65	37 - 120
Pyridine	30.0	16.6		ug/L		55	10 - 127
2,4,5-Trichlorophenol	30.0	25.5		ug/L		85	53 - 130
2,4,6-Trichlorophenol	30.0	25.8		ug/L		86	52 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*88*		*34 - 120*
2-Fluorophenol	*71*		*10 - 120*
Nitrobenzene-d5	*92*		*27 - 120*
Phenol-d5	*73*		*10 - 120*
Terphenyl-d14	*94*		*53 - 125*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-278376/2-A
Matrix: Water
Analysis Batch: 278441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278376

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	108		15 - 135

Lab Sample ID: LCSD 400-278376/3-A
Matrix: Water
Analysis Batch: 278441

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 278376

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	30.0	20.9		ug/L		70	10 - 145	8	30
Benzoic acid	110	29.2	J *	ug/L		27	10 - 120	33	30
Benzyl alcohol	30.0	23.8		ug/L		79	51 - 121	1	30
Bis(2-chloroethoxy)methane	30.0	24.3		ug/L		81	54 - 123	3	30
Bis(2-chloroethyl)ether	30.0	23.1		ug/L		77	47 - 120	5	30
bis (2-chloroisopropyl) ether	30.0	22.0		ug/L		73	20 - 142	5	30
Bis(2-ethylhexyl)phthalate	30.0	26.5		ug/L		88	62 - 140	4	30
4-Bromophenyl phenyl ether	30.0	23.2		ug/L		77	62 - 132	5	30
Butyl benzyl phthalate	30.0	26.0		ug/L		87	51 - 150	5	30
4-Chloroaniline	30.0	23.1		ug/L		77	32 - 128	4	30
4-Chloro-3-methylphenol	30.0	24.9		ug/L		83	47 - 135	1	30
2-Chloronaphthalene	30.0	22.7		ug/L		76	24 - 150	3	30
2-Chlorophenol	30.0	22.1		ug/L		74	45 - 120	3	30
4-Chlorophenyl phenyl ether	30.0	24.9		ug/L		83	61 - 133	6	30
Dibenzofuran	30.0	24.1		ug/L		80	62 - 124	6	30
3,3'-Dichlorobenzidine	30.0	27.7		ug/L		92	16 - 167	3	30
2,4,-Dichlorophenol	30.0	25.1		ug/L		84	52 - 125	1	30
Diethyl phthalate	30.0	26.2		ug/L		87	55 - 140	6	30
2,4-Dimethylphenol	30.0	23.0		ug/L		77	52 - 121	1	30
Dimethyl phthalate	30.0	24.9		ug/L		83	50 - 133	4	30
Di-n-butyl phthalate	30.0	27.1		ug/L		90	59 - 144	7	30
4,6-Dinitro-o-cresol	60.0	73.6		ug/L		123	46 - 136	4	30
2,4-Dinitrophenol	86.0	94.5		ug/L		110	22 - 146	0	30
2,4-Dinitrotoluene	30.0	29.0		ug/L		97	54 - 141	5	30
2,6-Dinitrotoluene	30.0	27.9		ug/L		93	61 - 130	4	30
Di-n-octyl phthalate	30.0	26.9		ug/L		90	55 - 140	4	30
1,4-Dioxane	30.0	18.5		ug/L		62	10 - 130	1	30
1,2-Diphenylhydrazine (as Azobenzene)	30.0	22.3		ug/L		74	55 - 139	5	30
Hexachlorobenzene	30.0	24.0		ug/L		80	60 - 138	6	30
Hexachlorocyclopentadiene	30.0	10.9	J	ug/L		36	1 - 139	10	30
Hexachloroethane	30.0	15.6		ug/L		52	46 - 121	2	30
Indene	30.0	20.7		ug/L		69	17 - 141	4	30
Isophorone	30.0	24.4		ug/L		81	57 - 122	5	30
2-Methylphenol	30.0	23.0		ug/L		77	38 - 121	1	30
3 & 4 Methylphenol	30.0	23.3		ug/L		78	43 - 126	0	30
2-Nitroaniline	30.0	27.1		ug/L		90	52 - 135	3	30
3-Nitroaniline	30.0	24.5		ug/L		82	51 - 128	4	30
4-Nitroaniline	30.0	27.1		ug/L		90	38 - 141	2	30
Nitrobenzene	30.0	23.8		ug/L		79	52 - 128	5	30
2-Nitrophenol	30.0	26.5		ug/L		88	47 - 129	1	30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-278376/3-A
Matrix: Water
Analysis Batch: 278441

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 278376

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Nitrophenol	60.0	47.0		ug/L		78	34 - 137	1	30
N-Nitrosodimethylamine	30.0	20.1		ug/L		67	21 - 134	5	30
N-Nitrosodi-n-propylamine	30.0	24.1		ug/L		80	41 - 143	3	30
N-Nitrosodiphenylamine	60.0	47.1		ug/L		78	10 - 185	5	30
Pentachlorophenol	60.0	55.8		ug/L		93	38 - 138	15	30
Phenol	30.0	20.0		ug/L		67	37 - 120	3	30
Pyridine	30.0	17.7		ug/L		59	10 - 127	6	30
2,4,5-Trichlorophenol	30.0	26.0		ug/L		87	53 - 130	2	30
2,4,6-Trichlorophenol	30.0	24.6		ug/L		82	52 - 131	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*82*		*34 - 120*
2-Fluorophenol	*68*		*10 - 120*
Nitrobenzene-d5	*87*		*27 - 120*
Phenol-d5	*73*		*10 - 120*
Terphenyl-d14	*86*		*53 - 125*
2,4,6-Tribromophenol	*100*		*15 - 135*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 400-278376/1-A
Matrix: Water
Analysis Batch: 278702

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 11:26	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 11:26	1
Anthracene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 11:26	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 11:26	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 11:26	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 11:26	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 11:26	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 11:26	1
Chrysene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 11:26	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 11:26	1
Fluoranthene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 11:26	1
Fluorene	ND		0.20	0.021	ug/L		10/12/15 11:00	10/14/15 11:26	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/12/15 11:00	10/14/15 11:26	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 11:26	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 11:26	1
Phenanthrene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 11:26	1
Pyrene	ND		0.20	0.020	ug/L		10/12/15 11:00	10/14/15 11:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*92*		*15 - 122*	*10/12/15 11:00*	*10/14/15 11:26*	*1*
Nitrobenzene-d5	*100*		*19 - 130*	*10/12/15 11:00*	*10/14/15 11:26*	*1*
Terphenyl-d14	*131*		*33 - 138*	*10/12/15 11:00*	*10/14/15 11:26*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 400-278376/2-A
Matrix: Water
Analysis Batch: 278702

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	30.0	28.7		ug/L		96	41 - 120
Acenaphthylene	30.0	29.1		ug/L		97	44 - 120
Anthracene	30.0	29.5		ug/L		98	49 - 120
Benzo[a]anthracene	30.0	27.4		ug/L		91	61 - 135
Benzo[a]pyrene	30.0	29.6		ug/L		99	52 - 120
Benzo[b]fluoranthene	30.0	28.9		ug/L		96	53 - 134
Benzo[g,h,i]perylene	30.0	23.2		ug/L		77	47 - 133
Benzo[k]fluoranthene	30.0	33.1		ug/L		110	57 - 134
Chrysene	30.0	31.4		ug/L		105	55 - 122
Dibenz(a,h)anthracene	30.0	24.3		ug/L		81	48 - 146
Fluoranthene	30.0	28.2		ug/L		94	54 - 128
Fluorene	30.0	32.2		ug/L		107	45 - 125
Indeno[1,2,3-cd]pyrene	30.0	24.4		ug/L		81	43 - 142
1-Methylnaphthalene	30.0	26.3		ug/L		88	41 - 120
2-Methylnaphthalene	30.0	26.3		ug/L		88	32 - 124
Phenanthrene	30.0	27.8		ug/L		93	48 - 120
Pyrene	30.0	31.5		ug/L		105	48 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*96*		*15 - 122*
Nitrobenzene-d5	*101*		*19 - 130*
Terphenyl-d14	*106*		*33 - 138*

Lab Sample ID: LCSD 400-278376/3-A
Matrix: Water
Analysis Batch: 278702

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 278376

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	30.0	28.7		ug/L		96	41 - 120	0	56
Acenaphthylene	30.0	29.3		ug/L		98	44 - 120	1	56
Anthracene	30.0	28.6		ug/L		95	49 - 120	3	51
Benzo[a]anthracene	30.0	27.5		ug/L		92	61 - 135	0	49
Benzo[a]pyrene	30.0	29.3		ug/L		98	52 - 120	1	50
Benzo[b]fluoranthene	30.0	29.6		ug/L		99	53 - 134	2	54
Benzo[g,h,i]perylene	30.0	23.0		ug/L		77	47 - 133	1	50
Benzo[k]fluoranthene	30.0	32.4		ug/L		108	57 - 134	2	52
Chrysene	30.0	31.9		ug/L		106	55 - 122	2	50
Dibenz(a,h)anthracene	30.0	23.8		ug/L		79	48 - 146	2	50
Fluoranthene	30.0	27.6		ug/L		92	54 - 128	2	52
Fluorene	30.0	32.6		ug/L		109	45 - 125	1	56
Indeno[1,2,3-cd]pyrene	30.0	23.9		ug/L		80	43 - 142	2	51
1-Methylnaphthalene	30.0	26.5		ug/L		88	41 - 120	1	55
2-Methylnaphthalene	30.0	26.5		ug/L		88	32 - 124	1	57
Phenanthrene	30.0	27.4		ug/L		91	48 - 120	2	56
Pyrene	30.0	32.4		ug/L		108	48 - 132	3	52

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCSD 400-278376/3-A
Matrix: Water
Analysis Batch: 278702

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 278376

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	94		15 - 122
Nitrobenzene-d5	103		19 - 130
Terphenyl-d14	102		33 - 138

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-278644/1-A
Matrix: Water
Analysis Batch: 278887

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278644

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/13/15 16:23	10/14/15 17:56	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/13/15 16:23	10/14/15 17:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	136		51 - 149	10/13/15 16:23	10/14/15 17:56	1

Lab Sample ID: LCS 400-278644/2-A
Matrix: Water
Analysis Batch: 278887

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278644

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.100	0.116		ug/L		116	60 - 140
1,2-Dibromoethane	0.100	0.0956		ug/L		96	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	103		51 - 149

Lab Sample ID: LCSD 400-278644/3-A
Matrix: Water
Analysis Batch: 278887

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 278644

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	0.100	0.125		ug/L		125	60 - 140	7	30
1,2-Dibromoethane	0.100	0.107		ug/L		107	60 - 140	11	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	123		51 - 149

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112231-1
SDG: Proj. 60400249-21563720.02004

Client Sample ID: TB-ROX-100915-8260

Date Collected: 10/09/15 00:00
Date Received: 10/10/15 09:21

Lab Sample ID: 400-112231-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279821	10/21/15 14:38	CAR	TAL PEN

Client Sample ID: TB-ROX-100915-8011

Date Collected: 10/09/15 00:00
Date Received: 10/10/15 09:21

Lab Sample ID: 400-112231-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35.4 mL	35 mL	278644	10/13/15 16:23	AM	TAL PEN
Total/NA	Analysis	8011		1	35.4 mL	35 mL	278887	10/15/15 04:48	AM	TAL PEN

Client Sample ID: MW10-ROX-100915

Date Collected: 10/09/15 09:39
Date Received: 10/10/15 09:21

Lab Sample ID: 400-112231-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279821	10/21/15 15:00	CAR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278483	10/13/15 21:52	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	278836	10/14/15 22:48	AJR	TAL PEN
Total/NA	Prep	8011			35.6 mL	35 mL	278644	10/13/15 16:23	AM	TAL PEN
Total/NA	Analysis	8011		1	35.6 mL	35 mL	278887	10/15/15 05:18	AM	TAL PEN

Client Sample ID: P54-ROX-100915

Date Collected: 10/09/15 10:45
Date Received: 10/10/15 09:21

Lab Sample ID: 400-112231-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279821	10/21/15 15:22	CAR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278897	10/15/15 23:46	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	278836	10/14/15 23:25	AJR	TAL PEN
Total/NA	Prep	8011			37.7 mL	35 mL	278644	10/13/15 16:23	AM	TAL PEN
Total/NA	Analysis	8011		1	37.7 mL	35 mL	278887	10/15/15 05:48	AM	TAL PEN

Client Sample ID: Lab Control Sample

Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-278376/2-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-278376/2-A

Matrix: Water

Date Collected: N/A
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278441	10/13/15 16:21	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C LL		5	1000 mL	1 mL	278702	10/14/15 12:03	CEP	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-278644/2-A

Matrix: Water

Date Collected: N/A
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	278644	10/13/15 16:23	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	278887	10/14/15 18:25	AM	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-279821/1002

Matrix: Water

Date Collected: N/A
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279821	10/21/15 10:04	CAR	TAL PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-278376/3-A

Matrix: Water

Date Collected: N/A
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278441	10/13/15 17:01	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C LL		5	1000 mL	1 mL	278702	10/14/15 12:40	CEP	TAL PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-278644/3-A

Matrix: Water

Date Collected: N/A
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	278644	10/13/15 16:23	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	278887	10/14/15 18:55	AM	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-278376/1-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278441	10/13/15 15:41	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278376	10/12/15 11:00	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	278702	10/14/15 11:26	CEP	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-278644/1-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	278644	10/13/15 16:23	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	278887	10/14/15 17:56	AM	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-279821/4

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279821	10/21/15 11:00	CAR	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112231-1
SDG: Proj. 60400249-21563720.02004

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL PEN
8011	EDB and DBCP in Water by Microextraction	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112231-1
SDG: Proj. 60400249-21563720.02004

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	08-31-15 *
Arizona	State Program	9	AZ0710	01-11-16
Arkansas DEQ	State Program	6	88-0689	09-01-16
Florida	NELAP	4	E81010	06-30-16
Georgia	State Program	4	N/A	06-30-16
Iowa	State Program	7	367	07-31-16
Kansas	NELAP	7	E-10253	10-31-15
Kentucky (UST)	State Program	4	53	06-30-16
Kentucky (WW)	State Program	4	98030	12-31-15
Louisiana	NELAP	6	30976	06-30-16
Maryland	State Program	3	233	09-30-16
Massachusetts	State Program	1	M-FL094	06-30-16
Michigan	State Program	5	9912	06-30-16
New Jersey	NELAP	2	FL006	10-30-15
North Carolina (WW/SW)	State Program	4	314	12-31-15
Oklahoma	State Program	6	9810	08-31-16
Pennsylvania	NELAP	3	68-00467	01-31-16
Rhode Island	State Program	1	LAO00307	12-30-15
South Carolina	State Program	4	96026	06-30-15 *
Tennessee	State Program	4	TN02907	06-30-16
Texas	NELAP	6	T104704286-15-9	09-30-16
USDA	Federal		P330-13-00193	07-01-16
Virginia	NELAP	3	460166	06-14-16
West Virginia DEP	State Program	3	136	06-30-16

* Certification renewal pending - certification considered valid.

Shell Oil Products Chain Of Custody Record

AECOM

LAB (LOCATION)

☐ XENCO ( )
☐ CALSCIENCE ( )
☑ OTHER (TestAmerica Pensacola; 3355 McLemore Dr. Pensacola, FL 32514 (850-474-1001))
☐ Lab Vendor # ( )
☐ SPL

Lab Vendor #

Please Check Appropriate Box:

☑ ENV. SERVICES	☐ MOTIVA RETAIL	☐ SHELL RETAIL
☐ MOTIVA SD&DM	☐ CONSULTANT	☐ LUBES
☐ SHELL PIPELINE	☐ OTHER	

Print Bill To Contact Name: Bob Billman

INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 9 Oct 2015

PAGE: 1 of 1

PO #: 60400249-21563720.03004

SAP #: 3 4 0 0 6 1

SAMPLING COMPANY: AECOM

LOG CODE:

SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA

State: IL

GLOBAL ID NO.:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110

EDF DELIVERABLE TO (Name, Company, Office Location):

PHONE NO.:

E-MAIL:

CONSULTANT PROJECT NO.: Roxana Quarterly GW / 60400249-21563720.03004

PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow

SAMPLER NAME(S) (Print): S. Fisher / D. Haxel

LAB USE ONLY

TELEPHONE: 314-429-0100

FAX: 314-429-0462

Bill To Contact E-MAIL: bob.billman@aecom.com; elizabeth.kunkel@aecom.com; lindsay.rathnow@aecom.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
* Please include "J" values on Reports.
* Please provide sample receipt upon login.

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

400-112231 COC

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260	VOC 8011	SVOC 8270	PAH 8270LL	Comments
	TB-ROX-100915-8260	9/10/15	0000	Water	2					2	X				
	TB-ROX-100915-8011		0000		2					2		X			
	MW10-ROX-100915		0939		4			3		7	X	X	X	X	
	P54-ROX-100915		1045		4			3		7	X	X	X	X	

9 Oct 2015

Relinquished by: (Signature)	Received by: (Signature) FED EX # 8092 2040 9689	Date: 9 Oct. 2015	Time: 1400
Relinquished by: (Signature)	Received by: (Signature)	Date: 10/10/15	Time: 0921
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2/06 Revision

0.0°C IR6

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10/30/2015

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 400-112231-1
SDG Number: Proj. 60400249-21563720.02004

Login Number: 112231
List Number: 1
Creator: Crawford, Lauren E

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C IR-6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Roxana Groundwater Quarterly – 4th Quarter 2015 Data Review

Laboratory SDG: 400-112311-Rev.1

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 12/3/2015

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2014

Sample Identification	Sample Identification
TB-ROX-101215-8260	TB-ROX-101215-8011
ROST3MW-ROX-101215	MW5-ROX-101215
MW2-ROX-101215	MW28-ROX-101215
MW28-ROX-101215-Dup	ROST4PZC-ROX-101215

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated SVOC surrogate recoveries were outside evaluation criteria in sample MW28-ROX-101215-Dup. VOC and SVOC MS/MSD recoveries and MS/MSD RPDs were outside evaluation criteria in sample MW5-ROX-101215. VOCs in samples MW2-ROX-101215 and ROST4PZC-ROX-101215 were diluted due to high levels of target analytes. These issues are addressed further in the appropriate sections below.

Additionally, the initial calibration verification for bromomethane and dichlorodifluoromethane exceeded evaluation criteria. Also, the laboratory report was revised to correctly report 1,2-dichloroethane as non-detect in sample ROST4PZC-ROX-101215, which had been previously incorrectly reported by the laboratory. Three of 69 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds, results may be biased low due to the presence of HCl in the preservative.

The cooler receipt form indicated that three of four coolers were received by the laboratory at temperatures of 1.2°C, 1.2°C, and 1.8°C, which are outside the 4ºC ± 2ºC criteria. Samples were received in good condition; therefore, no qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Sample ID	Parameter	Surrogate	Recovery (%)	Criteria (%)
MW28-ROX-101215-Dup	SVOCs	Nitrobenzene-d_5	**122**	27-120
MW28-ROX-101215-Dup	SVOCs	Terphenyl-d_{14}	**137**	53-125

Analytical data reported as non-detect and associated with surrogate recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. No qualification of data was required.

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

Yes, sample MW5-ROX-101215 was spiked and analyzed for Method 8260 VOCs, Method 8011 VOCs, SVOCs, and PAHs.

Were MS/MSD recoveries within evaluation criteria?

No

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery (%)	RPD	MS/MSD/ RPD Criteria
MW5-ROX-101215	VOCs	2-Chloroethyl vinyl ether	**0/0**	**NC**	10-160/50
MW5-ROX-101215	SVOCs	3,3'-Dichlorobenzidine	**0/0**	**NC**	10-172/58

LCS/LCSD recoveries were within evaluation criteria; no further qualification of data was required.

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

Yes

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples analyzed as part of this SDG?

No

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
MW28-ROX-101215	MW28-ROX-101215-Dup

Were field duplicates within evaluation criteria?

Yes

11.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples requiring dilution.

12.0 Additional Qualifications

Were additional qualifications applied?

No

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-112311-1
TestAmerica SDG: Proj. 60400249-21563720.03004
Client Project/Site: ROXANA QUARTERLY GW - 4Q15
Revision: 1

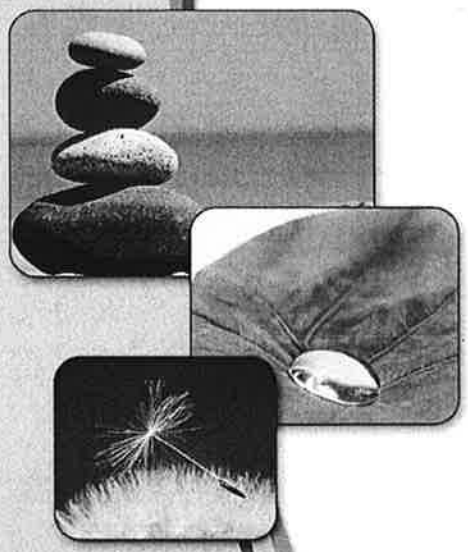
For:
AECOM Technical Services Inc.
1001 Highlands Plaza Dr. West
St. Louis, Missouri 63110

Attn: Mrs. Elizabeth Kunkel

Carolyn B. Hooper

Authorized for release by:
11/13/2015 12:47:42 PM

Carolyn Hooper, Project Manager I
(850)474-1001
carolyn.hooper@testamericainc.com



LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

Reviewed 12/3/15 KH

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112311-1
SDG: Proj. 60400249-21563720.03004

Job ID: 400-112311-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-112311-1

Receipt
The samples were received on 10/13/2015 10:04 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.2°C, 1.2°C, 1.8°C and 3.0°C.

GC/MS VOA
Method 8260B: The initial calibration verification (ICV) analyzed in batch 400-279112 was outside method criteria for the following analytes: Bromomethane and Dichlorodifluoromethane As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method 8260B: The preservative (HCL) used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The The requested target analyte list includes 2-chloroethyl vinyl ether, acrolein, and acrylonitrile, acid-labile compounds that degrade in an acidic medium.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-279924 were outside control limits for 2-Chloroethyl vinyl ether due the acidic nature of the parent sample..

Method 8260B: The RPD for the MS/MSD for 2-chloroethylvinyl ether was not calculable for batch 279924 because the recoveries were below the reporting limit due to the acidic nature of the parent sample.

GC/MS Semi VOA
Method 8270C: Surrogate recovery for the following sample was outside the upper control limit: MW28-ROX-101215-DUP (400-112311-7). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Revision 1
Data has been revised due to misidentification of 1,2-dichloroethane (DCA) caused by spectral interferences resulting from high concentrations of other target analytes present in sample: ROST4PZC-ROX-101215 (400-112311-8).

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

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112311-1
SDG: Proj. 60400249-21563720.03004

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-112311-1	TB-ROX-101215-8260	Water	10/12/15 00:00	10/13/15 10:04
400-112311-2	TB-ROX-101215-8011	Water	10/12/15 00:00	10/13/15 10:04
400-112311-3	ROST3MW-ROX-101215	Water	10/12/15 09:15	10/13/15 10:04
400-112311-4	MW5-ROX-101215	Water	10/12/15 10:15	10/13/15 10:04
400-112311-5	MW2-ROX-101215	Water	10/12/15 11:10	10/13/15 10:04
400-112311-6	MW28-ROX-101215	Water	10/12/15 13:10	10/13/15 10:04
400-112311-7	MW28-ROX-101215-DUP	Water	10/12/15 13:10	10/13/15 10:04
400-112311-8	ROST4PZC-ROX-101215	Water	10/12/15 14:15	10/13/15 10:04

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112311-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: TB-ROX-101215-8260 — Lab Sample ID: 400-112311-1

No Detections.

Client Sample ID: TB-ROX-101215-8011 — Lab Sample ID: 400-112311-2

No Detections.

Client Sample ID: ROST3MW-ROX-101215 — Lab Sample ID: 400-112311-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	17	J	25	10	ug/L	1		8260B	Total/NA
2-Butanone (MEK)	6.4	J	25	2.6	ug/L	1		8260B	Total/NA
Ethylbenzene	60		1.0	0.50	ug/L	1		8260B	Total/NA
Isopropylbenzene	2.3		1.0	0.53	ug/L	1		8260B	Total/NA
m-Xylene & p-Xylene	130		5.0	1.6	ug/L	1		8260B	Total/NA
Naphthalene	8.0		1.0	1.0	ug/L	1		8260B	Total/NA
N-Propylbenzene	2.9		1.0	0.69	ug/L	1		8260B	Total/NA
o-Xylene	24		5.0	0.60	ug/L	1		8260B	Total/NA
Toluene	3.6		1.0	0.70	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	20		1.0	0.82	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	4.5		1.0	0.56	ug/L	1		8260B	Total/NA
Xylenes, Total	160		5.0	0.60	ug/L	1		8260B	Total/NA
Acenaphthene	0.081	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
Anthracene	0.030	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
Benzo[a]anthracene	0.092	J	0.20	0.040	ug/L	1		8270C LL	Total/NA
Benzo[a]pyrene	0.089	J	0.20	0.040	ug/L	1		8270C LL	Total/NA
Benzo[b]fluoranthene	0.11	J	0.20	0.040	ug/L	1		8270C LL	Total/NA
Benzo[g,h,i]perylene	0.089	J	0.20	0.040	ug/L	1		8270C LL	Total/NA
Benzo[k]fluoranthene	0.12	J	0.20	0.040	ug/L	1		8270C LL	Total/NA
Chrysene	0.095	J	0.20	0.040	ug/L	1		8270C LL	Total/NA
Dibenz(a,h)anthracene	0.094	J	0.20	0.040	ug/L	1		8270C LL	Total/NA
Fluoranthene	0.056	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
Fluorene	0.086	J	0.20	0.021	ug/L	1		8270C LL	Total/NA
Indeno[1,2,3-cd]pyrene	0.092	J	0.20	0.040	ug/L	1		8270C LL	Total/NA
1-Methylnaphthalene	2.5		0.20	0.020	ug/L	1		8270C LL	Total/NA
2-Methylnaphthalene	2.3		0.20	0.020	ug/L	1		8270C LL	Total/NA
Phenanthrene	0.18	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
Pyrene	0.056	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
Bis(2-ethylhexyl) phthalate	3.9	J	10	2.3	ug/L	1		8270C	Total/NA
Di-n-octyl phthalate	2.8	J	10	0.44	ug/L	1		8270C	Total/NA

Client Sample ID: MW5-ROX-101215 — Lab Sample ID: 400-112311-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	8.8		1.0	0.38	ug/L	1		8260B	Total/NA
Chloroform	0.79	J	1.0	0.60	ug/L	1		8260B	Total/NA
Ethylbenzene	1.2		1.0	0.50	ug/L	1		8260B	Total/NA
Isopropylbenzene	3.1		1.0	0.53	ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	21		1.0	0.74	ug/L	1		8260B	Total/NA
m-Xylene & p-Xylene	4.4	J	5.0	1.6	ug/L	1		8260B	Total/NA
tert-Butylbenzene	3.5		1.0	0.63	ug/L	1		8260B	Total/NA
Toluene	1.9		1.0	0.70	ug/L	1		8260B	Total/NA
Xylenes, Total	4.4	J	5.0	0.60	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW5-ROX-101215 (Continued)

Lab Sample ID: 400-112311-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.080	J	0.20	0.040	ug/L	1		8270C LL	Total/NA
Benzo[b]fluoranthene	0.088	J	0.20	0.040	ug/L	1		8270C LL	Total/NA
Benzo[g,h,i]perylene	0.087	J	0.20	0.040	ug/L	1		8270C LL	Total/NA
Benzo[k]fluoranthene	0.088	J	0.20	0.040	ug/L	1		8270C LL	Total/NA
Chrysene	0.071	J	0.20	0.040	ug/L	1		8270C LL	Total/NA
Dibenz(a,h)anthracene	0.078	J	0.20	0.040	ug/L	1		8270C LL	Total/NA
Fluoranthene	0.055	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
Indeno[1,2,3-cd]pyrene	0.086	J	0.20	0.040	ug/L	1		8270C LL	Total/NA
1-Methylnaphthalene	0.16	J	0.20	0.020	ug/L	1		8270C LL	Total/NA

Client Sample ID: MW2-ROX-101215

Lab Sample ID: 400-112311-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	54		50	20	ug/L	2		8260B	Total/NA
Benzene	35		2.0	0.76	ug/L	2		8260B	Total/NA
2-Butanone (MEK)	48	J	50	5.2	ug/L	2		8260B	Total/NA
Ethylbenzene	420		2.0	1.0	ug/L	2		8260B	Total/NA
Isopropylbenzene	82		2.0	1.1	ug/L	2		8260B	Total/NA
m-Xylene & p-Xylene	260		10	3.2	ug/L	2		8260B	Total/NA
Naphthalene	39		2.0	2.0	ug/L	2		8260B	Total/NA
N-Propylbenzene	88		2.0	1.4	ug/L	2		8260B	Total/NA
o-Xylene	23		10	1.2	ug/L	2		8260B	Total/NA
p-Isopropyltoluene	6.5		2.0	1.4	ug/L	2		8260B	Total/NA
sec-Butylbenzene	5.6		2.0	1.4	ug/L	2		8260B	Total/NA
Toluene	13		2.0	1.4	ug/L	2		8260B	Total/NA
1,2,4-Trimethylbenzene	100		2.0	1.6	ug/L	2		8260B	Total/NA
1,3,5-Trimethylbenzene	90		2.0	1.1	ug/L	2		8260B	Total/NA
Xylenes, Total	280		10	1.2	ug/L	2		8260B	Total/NA
1-Methylnaphthalene	10		0.20	0.020	ug/L	1		8270C LL	Total/NA
2-Methylnaphthalene	17		0.20	0.020	ug/L	1		8270C LL	Total/NA

Client Sample ID: MW28-ROX-101215

Lab Sample ID: 400-112311-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.66	J	1.0	0.50	ug/L	1		8260B	Total/NA
Xylenes, Total	1.7	J	5.0	0.60	ug/L	1		8260B	Total/NA
1-Methylnaphthalene	0.069	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
2-Methylnaphthalene	0.070	J	0.20	0.020	ug/L	1		8270C LL	Total/NA

Client Sample ID: MW28-ROX-101215-DUP

Lab Sample ID: 400-112311-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	0.033	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
2-Methylnaphthalene	0.028	J	0.20	0.020	ug/L	1		8270C LL	Total/NA

Client Sample ID: ROST4PZC-ROX-101215

Lab Sample ID: 400-112311-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	22	J	25	10	ug/L	1		8260B	Total/NA
Benzene	71		1.0	0.38	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: ROST4PZC-ROX-101215 (Continued)

Lab Sample ID: 400-112311-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	9.7	J	25	2.6	ug/L	1		8260B	Total/NA
Ethylbenzene	150		1.0	0.50	ug/L	1		8260B	Total/NA
Isopropylbenzene	5.1		1.0	0.53	ug/L	1		8260B	Total/NA
Naphthalene	82		1.0	1.0	ug/L	1		8260B	Total/NA
N-Propylbenzene	5.9		1.0	0.69	ug/L	1		8260B	Total/NA
Toluene	42		1.0	0.70	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	36		1.0	0.82	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	6.6		1.0	0.56	ug/L	1		8260B	Total/NA
m-Xylene & p-Xylene - DL	530		25	8.0	ug/L	5		8260B	Total/NA
o-Xylene - DL	36		25	3.0	ug/L	5		8260B	Total/NA
Xylenes, Total - DL	570		25	3.0	ug/L	5		8260B	Total/NA
Acenaphthene	0.19	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
1-Methylnaphthalene	13		0.20	0.020	ug/L	1		8270C LL	Total/NA
2-Methylnaphthalene	11		0.20	0.020	ug/L	1		8270C LL	Total/NA
Indene	1.2	J	10	1.0	ug/L	1		8270C	Total/NA
3 & 4 Methylphenol	5.1	J	20	1.0	ug/L	1		8270C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TB-ROX-101215-8260

Date Collected: 10/12/15 00:00
Date Received: 10/13/15 10:04

Lab Sample ID: 400-112311-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/21/15 22:17	1
Acrolein	ND		20	10	ug/L			10/21/15 22:17	1
Acrylonitrile	ND		10	2.8	ug/L			10/21/15 22:17	1
Benzene	ND		1.0	0.38	ug/L			10/21/15 22:17	1
Bromobenzene	ND		1.0	0.54	ug/L			10/21/15 22:17	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/21/15 22:17	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/21/15 22:17	1
Bromoform	ND		5.0	0.71	ug/L			10/21/15 22:17	1
Bromomethane	ND		1.0	0.98	ug/L			10/21/15 22:17	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/21/15 22:17	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/21/15 22:17	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/21/15 22:17	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/21/15 22:17	1
Chloroethane	ND		1.0	0.76	ug/L			10/21/15 22:17	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/21/15 22:17	1
Chloroform	ND		1.0	0.60	ug/L			10/21/15 22:17	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/21/15 22:17	1
Chloromethane	ND		1.0	0.83	ug/L			10/21/15 22:17	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 22:17	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/15 22:17	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/21/15 22:17	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/21/15 22:17	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/21/15 22:17	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/21/15 22:17	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/21/15 22:17	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/21/15 22:17	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/21/15 22:17	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 22:17	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 22:17	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 22:17	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 22:17	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/21/15 22:17	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/21/15 22:17	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/21/15 22:17	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/21/15 22:17	1
2-Hexanone	ND		25	3.1	ug/L			10/21/15 22:17	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/21/15 22:17	1
Methylene bromide	ND		5.0	0.59	ug/L			10/21/15 22:17	1
Methylene chloride	ND		5.0	3.0	ug/L			10/21/15 22:17	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/21/15 22:17	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/21/15 22:17	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/21/15 22:17	1
Naphthalene	ND		1.0	1.0	ug/L			10/21/15 22:17	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/21/15 22:17	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/21/15 22:17	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/21/15 22:17	1
o-Xylene	ND		5.0	0.60	ug/L			10/21/15 22:17	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/21/15 22:17	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/21/15 22:17	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112311-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: TB-ROX-101215-8260
Date Collected: 10/12/15 00:00
Date Received: 10/13/15 10:04

Lab Sample ID: 400-112311-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/21/15 22:17	1
Styrene	ND		1.0	1.0	ug/L			10/21/15 22:17	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/21/15 22:17	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/21/15 22:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/21/15 22:17	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/21/15 22:17	1
Toluene	ND		1.0	0.70	ug/L			10/21/15 22:17	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 22:17	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/15 22:17	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/21/15 22:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/21/15 22:17	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/21/15 22:17	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/21/15 22:17	1
Trichloroethene	ND		1.0	0.50	ug/L			10/21/15 22:17	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/21/15 22:17	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/21/15 22:17	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/21/15 22:17	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/21/15 22:17	1
Vinyl acetate	ND		25	2.0	ug/L			10/21/15 22:17	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/21/15 22:17	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/21/15 22:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*78 - 118*		*10/21/15 22:17*	*1*
Dibromofluoromethane	*100*		*81 - 121*		*10/21/15 22:17*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/21/15 22:17*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112311-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: TB-ROX-101215-8011
Date Collected: 10/12/15 00:00
Date Received: 10/13/15 10:04

Lab Sample ID: 400-112311-2
Matrix: Water

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.031	0.0056	ug/L		10/15/15 14:44	10/20/15 02:40	1
1,2-Dibromoethane	ND		0.020	0.0051	ug/L		10/15/15 14:44	10/20/15 02:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*51 - 149*	*10/15/15 14:44*	*10/20/15 02:40*	*1*

Client Sample ID: ROST3MW-ROX-101215

Date Collected: 10/12/15 09:15
Date Received: 10/13/15 10:04

Lab Sample ID: 400-112311-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**17**	**J**	25	10	ug/L			10/21/15 22:43	1
Acrolein	ND		20	10	ug/L			10/21/15 22:43	1
Acrylonitrile	ND		10	2.8	ug/L			10/21/15 22:43	1
Benzene	ND		1.0	0.38	ug/L			10/21/15 22:43	1
Bromobenzene	ND		1.0	0.54	ug/L			10/21/15 22:43	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/21/15 22:43	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/21/15 22:43	1
Bromoform	ND		5.0	0.71	ug/L			10/21/15 22:43	1
Bromomethane	ND		1.0	0.98	ug/L			10/21/15 22:43	1
2-Butanone (MEK)	**6.4**	**J**	25	2.6	ug/L			10/21/15 22:43	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/21/15 22:43	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/21/15 22:43	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/21/15 22:43	1
Chloroethane	ND		1.0	0.76	ug/L			10/21/15 22:43	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/21/15 22:43	1
Chloroform	ND		1.0	0.60	ug/L			10/21/15 22:43	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/21/15 22:43	1
Chloromethane	ND		1.0	0.83	ug/L			10/21/15 22:43	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 22:43	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/15 22:43	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/21/15 22:43	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/21/15 22:43	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/21/15 22:43	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/21/15 22:43	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/21/15 22:43	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/21/15 22:43	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/21/15 22:43	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 22:43	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 22:43	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 22:43	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 22:43	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/21/15 22:43	1
Ethylbenzene	**60**		1.0	0.50	ug/L			10/21/15 22:43	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/21/15 22:43	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/21/15 22:43	1
2-Hexanone	ND		25	3.1	ug/L			10/21/15 22:43	1
Isopropylbenzene	**2.3**		1.0	0.53	ug/L			10/21/15 22:43	1
Methylene bromide	ND		5.0	0.59	ug/L			10/21/15 22:43	1
Methylene chloride	ND		5.0	3.0	ug/L			10/21/15 22:43	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/21/15 22:43	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/21/15 22:43	1
m-Xylene & p-Xylene	**130**		5.0	1.6	ug/L			10/21/15 22:43	1
Naphthalene	**8.0**		1.0	1.0	ug/L			10/21/15 22:43	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/21/15 22:43	1
N-Propylbenzene	**2.9**		1.0	0.69	ug/L			10/21/15 22:43	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/21/15 22:43	1
o-Xylene	**24**		5.0	0.60	ug/L			10/21/15 22:43	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/21/15 22:43	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/21/15 22:43	1

Client Sample ID: ROST3MW-ROX-101215

Date Collected: 10/12/15 09:15
Date Received: 10/13/15 10:04

Lab Sample ID: 400-112311-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/21/15 22:43	1
Styrene	ND		1.0	1.0	ug/L			10/21/15 22:43	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/21/15 22:43	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/21/15 22:43	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/21/15 22:43	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/21/15 22:43	1
Toluene	**3.6**		1.0	0.70	ug/L			10/21/15 22:43	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 22:43	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/15 22:43	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/21/15 22:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/21/15 22:43	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/21/15 22:43	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/21/15 22:43	1
Trichloroethene	ND		1.0	0.50	ug/L			10/21/15 22:43	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/21/15 22:43	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/21/15 22:43	1
1,2,4-Trimethylbenzene	**20**		1.0	0.82	ug/L			10/21/15 22:43	1
1,3,5-Trimethylbenzene	**4.5**		1.0	0.56	ug/L			10/21/15 22:43	1
Vinyl acetate	ND		25	2.0	ug/L			10/21/15 22:43	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/21/15 22:43	1
Xylenes, Total	**160**		5.0	0.60	ug/L			10/21/15 22:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*78 - 118*		*10/21/15 22:43*	*1*
Dibromofluoromethane	*97*		*81 - 121*		*10/21/15 22:43*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/21/15 22:43*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.081**	**J**	0.20	0.020	ug/L		10/14/15 10:33	10/17/15 04:36	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 04:36	1
Anthracene	**0.030**	**J**	0.20	0.020	ug/L		10/14/15 10:33	10/17/15 04:36	1
Benzo[a]anthracene	**0.092**	**J**	0.20	0.040	ug/L		10/14/15 10:33	10/17/15 04:36	1
Benzo[a]pyrene	**0.089**	**J**	0.20	0.040	ug/L		10/14/15 10:33	10/17/15 04:36	1
Benzo[b]fluoranthene	**0.11**	**J**	0.20	0.040	ug/L		10/14/15 10:33	10/17/15 04:36	1
Benzo[g,h,i]perylene	**0.089**	**J**	0.20	0.040	ug/L		10/14/15 10:33	10/17/15 04:36	1
Benzo[k]fluoranthene	**0.12**	**J**	0.20	0.040	ug/L		10/14/15 10:33	10/17/15 04:36	1
Chrysene	**0.095**	**J**	0.20	0.040	ug/L		10/14/15 10:33	10/17/15 04:36	1
Dibenz(a,h)anthracene	**0.094**	**J**	0.20	0.040	ug/L		10/14/15 10:33	10/17/15 04:36	1
Fluoranthene	**0.056**	**J**	0.20	0.020	ug/L		10/14/15 10:33	10/17/15 04:36	1
Fluorene	**0.086**	**J**	0.20	0.021	ug/L		10/14/15 10:33	10/17/15 04:36	1
Indeno[1,2,3-cd]pyrene	**0.092**	**J**	0.20	0.040	ug/L		10/14/15 10:33	10/17/15 04:36	1
1-Methylnaphthalene	**2.5**		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 04:36	1
2-Methylnaphthalene	**2.3**		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 04:36	1
Phenanthrene	**0.18**	**J**	0.20	0.020	ug/L		10/14/15 10:33	10/17/15 04:36	1
Pyrene	**0.056**	**J**	0.20	0.020	ug/L		10/14/15 10:33	10/17/15 04:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*15 - 122*	*10/14/15 10:33*	*10/17/15 04:36*	*1*
Nitrobenzene-d5	*77*		*19 - 130*	*10/14/15 10:33*	*10/17/15 04:36*	*1*

Client Sample ID: ROST3MW-ROX-101215

Date Collected: 10/12/15 09:15
Date Received: 10/13/15 10:04

Lab Sample ID: 400-112311-3

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	*85*		*33 - 138*	*10/14/15 10:33*	*10/17/15 04:36*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/14/15 10:33	10/15/15 20:37	1
Benzenethiol	ND		10	1.7	ug/L		10/14/15 10:33	10/15/15 20:37	1
Benzoic acid	ND		30	7.3	ug/L		10/14/15 10:33	10/15/15 20:37	1
Benzyl alcohol	ND		10	2.0	ug/L		10/14/15 10:33	10/15/15 20:37	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/14/15 10:33	10/15/15 20:37	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/14/15 10:33	10/15/15 20:37	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/14/15 10:33	10/15/15 20:37	1
Bis(2-ethylhexyl) phthalate	**3.9**	**J**	10	2.3	ug/L		10/14/15 10:33	10/15/15 20:37	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/14/15 10:33	10/15/15 20:37	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/14/15 10:33	10/15/15 20:37	1
4-Chloroaniline	ND		10	3.4	ug/L		10/14/15 10:33	10/15/15 20:37	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/14/15 10:33	10/15/15 20:37	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/14/15 10:33	10/15/15 20:37	1
2-Chlorophenol	ND		10	2.2	ug/L		10/14/15 10:33	10/15/15 20:37	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/14/15 10:33	10/15/15 20:37	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/14/15 10:33	10/15/15 20:37	1
Dibenzofuran	ND		10	0.52	ug/L		10/14/15 10:33	10/15/15 20:37	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/14/15 10:33	10/15/15 20:37	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/14/15 10:33	10/15/15 20:37	1
Diethyl phthalate	ND		10	0.70	ug/L		10/14/15 10:33	10/15/15 20:37	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/14/15 10:33	10/15/15 20:37	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/14/15 10:33	10/15/15 20:37	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/14/15 10:33	10/15/15 20:37	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/14/15 10:33	10/15/15 20:37	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/14/15 10:33	10/15/15 20:37	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/14/15 10:33	10/15/15 20:37	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/14/15 10:33	10/15/15 20:37	1
Di-n-octyl phthalate	**2.8**	**J**	10	0.44	ug/L		10/14/15 10:33	10/15/15 20:37	1
1,4-Dioxane	ND		10	1.0	ug/L		10/14/15 10:33	10/15/15 20:37	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/14/15 10:33	10/15/15 20:37	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/14/15 10:33	10/15/15 20:37	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/14/15 10:33	10/15/15 20:37	1
Hexachloroethane	ND		10	4.2	ug/L		10/14/15 10:33	10/15/15 20:37	1
Indene	ND		10	1.0	ug/L		10/14/15 10:33	10/15/15 20:37	1
Isophorone	ND		10	0.57	ug/L		10/14/15 10:33	10/15/15 20:37	1
2-Methylphenol	ND		10	1.8	ug/L		10/14/15 10:33	10/15/15 20:37	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/14/15 10:33	10/15/15 20:37	1
2-Nitroaniline	ND		10	2.2	ug/L		10/14/15 10:33	10/15/15 20:37	1
3-Nitroaniline	ND		10	1.8	ug/L		10/14/15 10:33	10/15/15 20:37	1
4-Nitroaniline	ND		10	2.5	ug/L		10/14/15 10:33	10/15/15 20:37	1
Nitrobenzene	ND		10	0.55	ug/L		10/14/15 10:33	10/15/15 20:37	1
2-Nitrophenol	ND		10	0.65	ug/L		10/14/15 10:33	10/15/15 20:37	1
4-Nitrophenol	ND		10	2.1	ug/L		10/14/15 10:33	10/15/15 20:37	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/14/15 10:33	10/15/15 20:37	1

Client Sample ID: ROST3MW-ROX-101215

Date Collected: 10/12/15 09:15
Date Received: 10/13/15 10:04

Lab Sample ID: 400-112311-3

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/14/15 10:33	10/15/15 20:37	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/14/15 10:33	10/15/15 20:37	1
Pentachlorophenol	ND		20	1.8	ug/L		10/14/15 10:33	10/15/15 20:37	1
Phenol	ND		10	2.6	ug/L		10/14/15 10:33	10/15/15 20:37	1
Pyridine	ND		10	3.2	ug/L		10/14/15 10:33	10/15/15 20:37	1
Quinoline	ND		10	6.0	ug/L		10/14/15 10:33	10/15/15 20:37	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/14/15 10:33	10/15/15 20:37	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/14/15 10:33	10/15/15 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*58*		*10 - 120*	*10/14/15 10:33*	*10/15/15 20:37*	*1*
2-Fluorobiphenyl	*85*		*34 - 120*	*10/14/15 10:33*	*10/15/15 20:37*	*1*
2,4,6-Tribromophenol	*86*		*15 - 135*	*10/14/15 10:33*	*10/15/15 20:37*	*1*
Nitrobenzene-d5	*107*		*27 - 120*	*10/14/15 10:33*	*10/15/15 20:37*	*1*
Phenol-d5	*62*		*10 - 120*	*10/14/15 10:33*	*10/15/15 20:37*	*1*
Terphenyl-d14	*89*		*53 - 125*	*10/14/15 10:33*	*10/15/15 20:37*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0056	ug/L		10/15/15 14:44	10/20/15 03:10	1
1,2-Dibromoethane	ND		0.020	0.0051	ug/L		10/15/15 14:44	10/20/15 03:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*82*		*51 - 149*	*10/15/15 14:44*	*10/20/15 03:10*	*1*

Client Sample ID: MW5-ROX-101215
Date Collected: 10/12/15 10:15
Date Received: 10/13/15 10:04

Lab Sample ID: 400-112311-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/21/15 21:51	1
Acrolein	ND		20	10	ug/L			10/21/15 21:51	1
Acrylonitrile	ND		10	2.8	ug/L			10/21/15 21:51	1
Benzene	**8.8**		1.0	0.38	ug/L			10/21/15 21:51	1
Bromobenzene	ND		1.0	0.54	ug/L			10/21/15 21:51	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/21/15 21:51	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/21/15 21:51	1
Bromoform	ND		5.0	0.71	ug/L			10/21/15 21:51	1
Bromomethane	ND		1.0	0.98	ug/L			10/21/15 21:51	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/21/15 21:51	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/21/15 21:51	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/21/15 21:51	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/21/15 21:51	1
Chloroethane	ND		1.0	0.76	ug/L			10/21/15 21:51	1
2-Chloroethyl vinyl ether	ND	F1	5.0	2.0	ug/L			10/21/15 21:51	1
Chloroform	**0.79**	**J**	1.0	0.60	ug/L			10/21/15 21:51	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/21/15 21:51	1
Chloromethane	ND		1.0	0.83	ug/L			10/21/15 21:51	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 21:51	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/15 21:51	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/21/15 21:51	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/21/15 21:51	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/21/15 21:51	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/21/15 21:51	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/21/15 21:51	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/21/15 21:51	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/21/15 21:51	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 21:51	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 21:51	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 21:51	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 21:51	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/21/15 21:51	1
Ethylbenzene	**1.2**		1.0	0.50	ug/L			10/21/15 21:51	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/21/15 21:51	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/21/15 21:51	1
2-Hexanone	ND		25	3.1	ug/L			10/21/15 21:51	1
Isopropylbenzene	**3.1**		1.0	0.53	ug/L			10/21/15 21:51	1
Methylene bromide	ND		5.0	0.59	ug/L			10/21/15 21:51	1
Methylene chloride	ND		5.0	3.0	ug/L			10/21/15 21:51	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/21/15 21:51	1
Methyl tert-butyl ether	**21**		1.0	0.74	ug/L			10/21/15 21:51	1
m-Xylene & p-Xylene	**4.4**	**J**	5.0	1.6	ug/L			10/21/15 21:51	1
Naphthalene	ND		1.0	1.0	ug/L			10/21/15 21:51	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/21/15 21:51	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/21/15 21:51	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/21/15 21:51	1
o-Xylene	ND		5.0	0.60	ug/L			10/21/15 21:51	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/21/15 21:51	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/21/15 21:51	1

Client Sample ID: MW5-ROX-101215

Date Collected: 10/12/15 10:15
Date Received: 10/13/15 10:04

Lab Sample ID: 400-112311-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/21/15 21:51	1
Styrene	ND		1.0	1.0	ug/L			10/21/15 21:51	1
tert-Butylbenzene	**3.5**		1.0	0.63	ug/L			10/21/15 21:51	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/21/15 21:51	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/21/15 21:51	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/21/15 21:51	1
Toluene	**1.9**		1.0	0.70	ug/L			10/21/15 21:51	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 21:51	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/15 21:51	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/21/15 21:51	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/21/15 21:51	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/21/15 21:51	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/21/15 21:51	1
Trichloroethene	ND		1.0	0.50	ug/L			10/21/15 21:51	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/21/15 21:51	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/21/15 21:51	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/21/15 21:51	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/21/15 21:51	1
Vinyl acetate	ND		25	2.0	ug/L			10/21/15 21:51	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/21/15 21:51	1
Xylenes, Total	**4.4**	J	5.0	0.60	ug/L			10/21/15 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*78 - 118*		*10/21/15 21:51*	*1*
Dibromofluoromethane	*98*		*81 - 121*		*10/21/15 21:51*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/21/15 21:51*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 05:11	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 05:11	1
Anthracene	ND		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 05:11	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 05:11	1
Benzo[a]pyrene	**0.080**	J	0.20	0.040	ug/L		10/14/15 10:33	10/17/15 05:11	1
Benzo[b]fluoranthene	**0.088**	J	0.20	0.040	ug/L		10/14/15 10:33	10/17/15 05:11	1
Benzo[g,h,i]perylene	**0.087**	J	0.20	0.040	ug/L		10/14/15 10:33	10/17/15 05:11	1
Benzo[k]fluoranthene	**0.088**	J	0.20	0.040	ug/L		10/14/15 10:33	10/17/15 05:11	1
Chrysene	**0.071**	J	0.20	0.040	ug/L		10/14/15 10:33	10/17/15 05:11	1
Dibenz(a,h)anthracene	**0.078**	J	0.20	0.040	ug/L		10/14/15 10:33	10/17/15 05:11	1
Fluoranthene	**0.055**	J	0.20	0.020	ug/L		10/14/15 10:33	10/17/15 05:11	1
Fluorene	ND		0.20	0.021	ug/L		10/14/15 10:33	10/17/15 05:11	1
Indeno[1,2,3-cd]pyrene	**0.086**	J	0.20	0.040	ug/L		10/14/15 10:33	10/17/15 05:11	1
1-Methylnaphthalene	**0.16**	J	0.20	0.020	ug/L		10/14/15 10:33	10/17/15 05:11	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 05:11	1
Phenanthrene	ND		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 05:11	1
Pyrene	ND		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 05:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*85*		*15 - 122*	*10/14/15 10:33*	*10/17/15 05:11*	*1*
Nitrobenzene-d5	*65*		*19 - 130*	*10/14/15 10:33*	*10/17/15 05:11*	*1*

Client Sample ID: MW5-ROX-101215

Date Collected: 10/12/15 10:15
Date Received: 10/13/15 10:04

Lab Sample ID: 400-112311-4

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	*63*		*33 - 138*	*10/14/15 10:33*	*10/17/15 05:11*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/14/15 10:33	10/15/15 19:59	1
Benzenethiol	ND		10	1.7	ug/L		10/14/15 10:33	10/15/15 19:59	1
Benzoic acid	ND		30	7.3	ug/L		10/14/15 10:33	10/15/15 19:59	1
Benzyl alcohol	ND		10	2.0	ug/L		10/14/15 10:33	10/15/15 19:59	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/14/15 10:33	10/15/15 19:59	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/14/15 10:33	10/15/15 19:59	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/14/15 10:33	10/15/15 19:59	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/14/15 10:33	10/15/15 19:59	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/14/15 10:33	10/15/15 19:59	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/14/15 10:33	10/15/15 19:59	1
4-Chloroaniline	ND		10	3.4	ug/L		10/14/15 10:33	10/15/15 19:59	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/14/15 10:33	10/15/15 19:59	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/14/15 10:33	10/15/15 19:59	1
2-Chlorophenol	ND		10	2.2	ug/L		10/14/15 10:33	10/15/15 19:59	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/14/15 10:33	10/15/15 19:59	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/14/15 10:33	10/15/15 19:59	1
Dibenzofuran	ND		10	0.52	ug/L		10/14/15 10:33	10/15/15 19:59	1
3,3'-Dichlorobenzidine	ND	F1	10	2.6	ug/L		10/14/15 10:33	10/15/15 19:59	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/14/15 10:33	10/15/15 19:59	1
Diethyl phthalate	ND		10	0.70	ug/L		10/14/15 10:33	10/15/15 19:59	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/14/15 10:33	10/15/15 19:59	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/14/15 10:33	10/15/15 19:59	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/14/15 10:33	10/15/15 19:59	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/14/15 10:33	10/15/15 19:59	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/14/15 10:33	10/15/15 19:59	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/14/15 10:33	10/15/15 19:59	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/14/15 10:33	10/15/15 19:59	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/14/15 10:33	10/15/15 19:59	1
1,4-Dioxane	ND		10	1.0	ug/L		10/14/15 10:33	10/15/15 19:59	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/14/15 10:33	10/15/15 19:59	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/14/15 10:33	10/15/15 19:59	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/14/15 10:33	10/15/15 19:59	1
Hexachloroethane	ND		10	4.2	ug/L		10/14/15 10:33	10/15/15 19:59	1
Indene	ND		10	1.0	ug/L		10/14/15 10:33	10/15/15 19:59	1
Isophorone	ND		10	0.57	ug/L		10/14/15 10:33	10/15/15 19:59	1
2-Methylphenol	ND		10	1.8	ug/L		10/14/15 10:33	10/15/15 19:59	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/14/15 10:33	10/15/15 19:59	1
2-Nitroaniline	ND		10	2.2	ug/L		10/14/15 10:33	10/15/15 19:59	1
3-Nitroaniline	ND		10	1.8	ug/L		10/14/15 10:33	10/15/15 19:59	1
4-Nitroaniline	ND		10	2.5	ug/L		10/14/15 10:33	10/15/15 19:59	1
Nitrobenzene	ND		10	0.55	ug/L		10/14/15 10:33	10/15/15 19:59	1
2-Nitrophenol	ND		10	0.65	ug/L		10/14/15 10:33	10/15/15 19:59	1
4-Nitrophenol	ND		10	2.1	ug/L		10/14/15 10:33	10/15/15 19:59	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/14/15 10:33	10/15/15 19:59	1

Client Sample ID: MW5-ROX-101215
Date Collected: 10/12/15 10:15
Date Received: 10/13/15 10:04

Lab Sample ID: 400-112311-4
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/14/15 10:33	10/15/15 19:59	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/14/15 10:33	10/15/15 19:59	1
Pentachlorophenol	ND		20	1.8	ug/L		10/14/15 10:33	10/15/15 19:59	1
Phenol	ND		10	2.6	ug/L		10/14/15 10:33	10/15/15 19:59	1
Pyridine	ND		10	3.2	ug/L		10/14/15 10:33	10/15/15 19:59	1
Quinoline	ND		10	6.0	ug/L		10/14/15 10:33	10/15/15 19:59	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/14/15 10:33	10/15/15 19:59	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/14/15 10:33	10/15/15 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*61*		*10 - 120*	*10/14/15 10:33*	*10/15/15 19:59*	*1*
2-Fluorobiphenyl	*99*		*34 - 120*	*10/14/15 10:33*	*10/15/15 19:59*	*1*
2,4,6-Tribromophenol	*92*		*15 - 135*	*10/14/15 10:33*	*10/15/15 19:59*	*1*
Nitrobenzene-d5	*83*		*27 - 120*	*10/14/15 10:33*	*10/15/15 19:59*	*1*
Phenol-d5	*65*		*10 - 120*	*10/14/15 10:33*	*10/15/15 19:59*	*1*
Terphenyl-d14	*71*		*53 - 125*	*10/14/15 10:33*	*10/15/15 19:59*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0054	ug/L		10/15/15 14:44	10/20/15 03:40	1
1,2-Dibromoethane	ND		0.020	0.0049	ug/L		10/15/15 14:44	10/20/15 03:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*51 - 149*	*10/15/15 14:44*	*10/20/15 03:40*	*1*

Client Sample ID: MW2-ROX-101215

Date Collected: 10/12/15 11:10
Date Received: 10/13/15 10:04

Lab Sample ID: 400-112311-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**54**		50	20	ug/L			10/22/15 04:45	2
Acrolein	ND		40	20	ug/L			10/22/15 04:45	2
Acrylonitrile	ND		20	5.6	ug/L			10/22/15 04:45	2
Benzene	**35**		2.0	0.76	ug/L			10/22/15 04:45	2
Bromobenzene	ND		2.0	1.1	ug/L			10/22/15 04:45	2
Bromochloromethane	ND		2.0	1.0	ug/L			10/22/15 04:45	2
Bromodichloromethane	ND		2.0	1.0	ug/L			10/22/15 04:45	2
Bromoform	ND		10	1.4	ug/L			10/22/15 04:45	2
Bromomethane	ND		2.0	2.0	ug/L			10/22/15 04:45	2
2-Butanone (MEK)	**48**	**J**	50	5.2	ug/L			10/22/15 04:45	2
Carbon disulfide	ND		2.0	1.0	ug/L			10/22/15 04:45	2
Carbon tetrachloride	ND		2.0	1.0	ug/L			10/22/15 04:45	2
Chlorobenzene	ND		2.0	1.0	ug/L			10/22/15 04:45	2
Chloroethane	ND		2.0	1.5	ug/L			10/22/15 04:45	2
2-Chloroethyl vinyl ether	ND		10	4.0	ug/L			10/22/15 04:45	2
Chloroform	ND		2.0	1.2	ug/L			10/22/15 04:45	2
1-Chlorohexane	ND		2.0	1.4	ug/L			10/22/15 04:45	2
Chloromethane	ND		2.0	1.7	ug/L			10/22/15 04:45	2
cis-1,2-Dichloroethene	ND		2.0	1.0	ug/L			10/22/15 04:45	2
cis-1,3-Dichloropropene	ND		10	1.0	ug/L			10/22/15 04:45	2
Dibromochloromethane	ND		2.0	1.0	ug/L			10/22/15 04:45	2
1,2-Dichlorobenzene	ND		2.0	1.0	ug/L			10/22/15 04:45	2
1,3-Dichlorobenzene	ND		2.0	1.1	ug/L			10/22/15 04:45	2
1,4-Dichlorobenzene	ND		2.0	1.3	ug/L			10/22/15 04:45	2
Dichlorodifluoromethane	ND		2.0	1.7	ug/L			10/22/15 04:45	2
1,1-Dichloroethane	ND		2.0	1.0	ug/L			10/22/15 04:45	2
1,2-Dichloroethane	ND		2.0	1.0	ug/L			10/22/15 04:45	2
1,1-Dichloroethene	ND		2.0	1.0	ug/L			10/22/15 04:45	2
1,2-Dichloropropane	ND		2.0	1.0	ug/L			10/22/15 04:45	2
1,3-Dichloropropane	ND		2.0	1.0	ug/L			10/22/15 04:45	2
2,2-Dichloropropane	ND		2.0	1.0	ug/L			10/22/15 04:45	2
1,1-Dichloropropene	ND		2.0	1.0	ug/L			10/22/15 04:45	2
Ethylbenzene	**420**		2.0	1.0	ug/L			10/22/15 04:45	2
Ethyl methacrylate	ND		2.0	1.2	ug/L			10/22/15 04:45	2
Hexachlorobutadiene	ND		10	1.8	ug/L			10/22/15 04:45	2
2-Hexanone	ND		50	6.2	ug/L			10/22/15 04:45	2
Isopropylbenzene	**82**		2.0	1.1	ug/L			10/22/15 04:45	2
Methylene bromide	ND		10	1.2	ug/L			10/22/15 04:45	2
Methylene chloride	ND		10	6.0	ug/L			10/22/15 04:45	2
4-Methyl-2-pentanone (MIBK)	ND		50	3.6	ug/L			10/22/15 04:45	2
Methyl tert-butyl ether	ND		2.0	1.5	ug/L			10/22/15 04:45	2
m-Xylene & p-Xylene	**260**		10	3.2	ug/L			10/22/15 04:45	2
Naphthalene	**39**		2.0	2.0	ug/L			10/22/15 04:45	2
n-Butylbenzene	ND		2.0	1.5	ug/L			10/22/15 04:45	2
N-Propylbenzene	**88**		2.0	1.4	ug/L			10/22/15 04:45	2
o-Chlorotoluene	ND		2.0	1.1	ug/L			10/22/15 04:45	2
o-Xylene	**23**		10	1.2	ug/L			10/22/15 04:45	2
p-Chlorotoluene	ND		2.0	1.1	ug/L			10/22/15 04:45	2
p-Isopropyltoluene	**6.5**		2.0	1.4	ug/L			10/22/15 04:45	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	**5.6**		2.0	1.4	ug/L			10/22/15 04:45	2
Styrene	ND		2.0	2.0	ug/L			10/22/15 04:45	2
tert-Butylbenzene	ND		2.0	1.3	ug/L			10/22/15 04:45	2
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/L			10/22/15 04:45	2
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/L			10/22/15 04:45	2
Tetrachloroethene	ND		2.0	1.2	ug/L			10/22/15 04:45	2
Toluene	**13**		2.0	1.4	ug/L			10/22/15 04:45	2
trans-1,2-Dichloroethene	ND		2.0	1.0	ug/L			10/22/15 04:45	2
trans-1,3-Dichloropropene	ND		10	1.0	ug/L			10/22/15 04:45	2
1,2,3-Trichlorobenzene	ND		2.0	1.4	ug/L			10/22/15 04:45	2
1,2,4-Trichlorobenzene	ND		2.0	1.6	ug/L			10/22/15 04:45	2
1,1,1-Trichloroethane	ND		2.0	1.0	ug/L			10/22/15 04:45	2
1,1,2-Trichloroethane	ND		10	1.0	ug/L			10/22/15 04:45	2
Trichloroethene	ND		2.0	1.0	ug/L			10/22/15 04:45	2
Trichlorofluoromethane	ND		2.0	1.0	ug/L			10/22/15 04:45	2
1,2,3-Trichloropropane	ND		10	1.7	ug/L			10/22/15 04:45	2
1,2,4-Trimethylbenzene	**100**		2.0	1.6	ug/L			10/22/15 04:45	2
1,3,5-Trimethylbenzene	**90**		2.0	1.1	ug/L			10/22/15 04:45	2
Vinyl acetate	ND		50	4.0	ug/L			10/22/15 04:45	2
Vinyl chloride	ND		2.0	1.0	ug/L			10/22/15 04:45	2
Xylenes, Total	**280**		10	1.2	ug/L			10/22/15 04:45	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*78 - 118*		*10/22/15 04:45*	*2*
Dibromofluoromethane	*96*		*81 - 121*		*10/22/15 04:45*	*2*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/22/15 04:45*	*2*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 05:45	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 05:45	1
Anthracene	ND		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 05:45	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 05:45	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 05:45	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 05:45	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 05:45	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 05:45	1
Chrysene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 05:45	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 05:45	1
Fluoranthene	ND		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 05:45	1
Fluorene	ND		0.20	0.021	ug/L		10/14/15 10:33	10/17/15 05:45	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 05:45	1
1-Methylnaphthalene	**10**		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 05:45	1
2-Methylnaphthalene	**17**		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 05:45	1
Phenanthrene	ND		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 05:45	1
Pyrene	ND		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 05:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*63*		*15 - 122*	*10/14/15 10:33*	*10/17/15 05:45*	*1*
Nitrobenzene-d5	*57*		*19 - 130*	*10/14/15 10:33*	*10/17/15 05:45*	*1*

Client Sample ID: MW2-ROX-101215

Date Collected: 10/12/15 11:10
Date Received: 10/13/15 10:04

Lab Sample ID: 400-112311-5

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	*60*		*33 - 138*	*10/14/15 10:33*	*10/17/15 05:45*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/14/15 10:33	10/15/15 21:15	1
Benzenethiol	ND		10	1.7	ug/L		10/14/15 10:33	10/15/15 21:15	1
Benzoic acid	ND		30	7.3	ug/L		10/14/15 10:33	10/15/15 21:15	1
Benzyl alcohol	ND		10	2.0	ug/L		10/14/15 10:33	10/15/15 21:15	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/14/15 10:33	10/15/15 21:15	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/14/15 10:33	10/15/15 21:15	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/14/15 10:33	10/15/15 21:15	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/14/15 10:33	10/15/15 21:15	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/14/15 10:33	10/15/15 21:15	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/14/15 10:33	10/15/15 21:15	1
4-Chloroaniline	ND		10	3.4	ug/L		10/14/15 10:33	10/15/15 21:15	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/14/15 10:33	10/15/15 21:15	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/14/15 10:33	10/15/15 21:15	1
2-Chlorophenol	ND		10	2.2	ug/L		10/14/15 10:33	10/15/15 21:15	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/14/15 10:33	10/15/15 21:15	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/14/15 10:33	10/15/15 21:15	1
Dibenzofuran	ND		10	0.52	ug/L		10/14/15 10:33	10/15/15 21:15	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/14/15 10:33	10/15/15 21:15	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/14/15 10:33	10/15/15 21:15	1
Diethyl phthalate	ND		10	0.70	ug/L		10/14/15 10:33	10/15/15 21:15	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/14/15 10:33	10/15/15 21:15	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/14/15 10:33	10/15/15 21:15	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/14/15 10:33	10/15/15 21:15	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/14/15 10:33	10/15/15 21:15	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/14/15 10:33	10/15/15 21:15	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/14/15 10:33	10/15/15 21:15	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/14/15 10:33	10/15/15 21:15	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/14/15 10:33	10/15/15 21:15	1
1,4-Dioxane	ND		10	1.0	ug/L		10/14/15 10:33	10/15/15 21:15	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/14/15 10:33	10/15/15 21:15	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/14/15 10:33	10/15/15 21:15	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/14/15 10:33	10/15/15 21:15	1
Hexachloroethane	ND		10	4.2	ug/L		10/14/15 10:33	10/15/15 21:15	1
Indene	ND		10	1.0	ug/L		10/14/15 10:33	10/15/15 21:15	1
Isophorone	ND		10	0.57	ug/L		10/14/15 10:33	10/15/15 21:15	1
2-Methylphenol	ND		10	1.8	ug/L		10/14/15 10:33	10/15/15 21:15	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/14/15 10:33	10/15/15 21:15	1
2-Nitroaniline	ND		10	2.2	ug/L		10/14/15 10:33	10/15/15 21:15	1
3-Nitroaniline	ND		10	1.8	ug/L		10/14/15 10:33	10/15/15 21:15	1
4-Nitroaniline	ND		10	2.5	ug/L		10/14/15 10:33	10/15/15 21:15	1
Nitrobenzene	ND		10	0.55	ug/L		10/14/15 10:33	10/15/15 21:15	1
2-Nitrophenol	ND		10	0.65	ug/L		10/14/15 10:33	10/15/15 21:15	1
4-Nitrophenol	ND		10	2.1	ug/L		10/14/15 10:33	10/15/15 21:15	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/14/15 10:33	10/15/15 21:15	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112311-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: MW2-ROX-101215
Date Collected: 10/12/15 11:10
Date Received: 10/13/15 10:04

Lab Sample ID: 400-112311-5
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/14/15 10:33	10/15/15 21:15	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/14/15 10:33	10/15/15 21:15	1
Pentachlorophenol	ND		20	1.8	ug/L		10/14/15 10:33	10/15/15 21:15	1
Phenol	ND		10	2.6	ug/L		10/14/15 10:33	10/15/15 21:15	1
Pyridine	ND		10	3.2	ug/L		10/14/15 10:33	10/15/15 21:15	1
Quinoline	ND		10	6.0	ug/L		10/14/15 10:33	10/15/15 21:15	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/14/15 10:33	10/15/15 21:15	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/14/15 10:33	10/15/15 21:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*39*		*10 - 120*	*10/14/15 10:33*	*10/15/15 21:15*	*1*
2-Fluorobiphenyl	*72*		*34 - 120*	*10/14/15 10:33*	*10/15/15 21:15*	*1*
2,4,6-Tribromophenol	*62*		*15 - 135*	*10/14/15 10:33*	*10/15/15 21:15*	*1*
Nitrobenzene-d5	*77*		*27 - 120*	*10/14/15 10:33*	*10/15/15 21:15*	*1*
Phenol-d5	*41*		*10 - 120*	*10/14/15 10:33*	*10/15/15 21:15*	*1*
Terphenyl-d14	*66*		*53 - 125*	*10/14/15 10:33*	*10/15/15 21:15*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.041	0.0075	ug/L		10/15/15 14:44	10/20/15 04:09	1
1,2-Dibromoethane	ND		0.027	0.0068	ug/L		10/15/15 14:44	10/20/15 04:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*87*		*51 - 149*	*10/15/15 14:44*	*10/20/15 04:09*	*1*

Client Sample ID: MW28-ROX-101215

Date Collected: 10/12/15 13:10
Date Received: 10/13/15 10:04

Lab Sample ID: 400-112311-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/21/15 23:09	1
Acrolein	ND		20	10	ug/L			10/21/15 23:09	1
Acrylonitrile	ND		10	2.8	ug/L			10/21/15 23:09	1
Benzene	ND		1.0	0.38	ug/L			10/21/15 23:09	1
Bromobenzene	ND		1.0	0.54	ug/L			10/21/15 23:09	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/21/15 23:09	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/21/15 23:09	1
Bromoform	ND		5.0	0.71	ug/L			10/21/15 23:09	1
Bromomethane	ND		1.0	0.98	ug/L			10/21/15 23:09	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/21/15 23:09	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/21/15 23:09	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/21/15 23:09	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/21/15 23:09	1
Chloroethane	ND		1.0	0.76	ug/L			10/21/15 23:09	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/21/15 23:09	1
Chloroform	ND		1.0	0.60	ug/L			10/21/15 23:09	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/21/15 23:09	1
Chloromethane	ND		1.0	0.83	ug/L			10/21/15 23:09	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 23:09	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/15 23:09	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/21/15 23:09	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/21/15 23:09	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/21/15 23:09	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/21/15 23:09	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/21/15 23:09	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/21/15 23:09	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/21/15 23:09	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 23:09	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 23:09	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 23:09	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 23:09	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/21/15 23:09	1
Ethylbenzene	**0.66**	**J**	1.0	0.50	ug/L			10/21/15 23:09	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/21/15 23:09	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/21/15 23:09	1
2-Hexanone	ND		25	3.1	ug/L			10/21/15 23:09	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/21/15 23:09	1
Methylene bromide	ND		5.0	0.59	ug/L			10/21/15 23:09	1
Methylene chloride	ND		5.0	3.0	ug/L			10/21/15 23:09	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/21/15 23:09	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/21/15 23:09	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/21/15 23:09	1
Naphthalene	ND		1.0	1.0	ug/L			10/21/15 23:09	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/21/15 23:09	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/21/15 23:09	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/21/15 23:09	1
o-Xylene	ND		5.0	0.60	ug/L			10/21/15 23:09	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/21/15 23:09	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/21/15 23:09	1

Client Sample ID: MW28-ROX-101215

Date Collected: 10/12/15 13:10
Date Received: 10/13/15 10:04

Lab Sample ID: 400-112311-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/21/15 23:09	1
Styrene	ND		1.0	1.0	ug/L			10/21/15 23:09	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/21/15 23:09	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/21/15 23:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/21/15 23:09	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/21/15 23:09	1
Toluene	ND		1.0	0.70	ug/L			10/21/15 23:09	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 23:09	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/15 23:09	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/21/15 23:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/21/15 23:09	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/21/15 23:09	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/21/15 23:09	1
Trichloroethene	ND		1.0	0.50	ug/L			10/21/15 23:09	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/21/15 23:09	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/21/15 23:09	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/21/15 23:09	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/21/15 23:09	1
Vinyl acetate	ND		25	2.0	ug/L			10/21/15 23:09	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/21/15 23:09	1
Xylenes, Total	**1.7**	J	5.0	0.60	ug/L			10/21/15 23:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*78 - 118*		*10/21/15 23:09*	*1*
Dibromofluoromethane	*102*		*81 - 121*		*10/21/15 23:09*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/21/15 23:09*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 06:20	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 06:20	1
Anthracene	ND		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 06:20	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 06:20	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 06:20	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 06:20	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 06:20	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 06:20	1
Chrysene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 06:20	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 06:20	1
Fluoranthene	ND		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 06:20	1
Fluorene	ND		0.20	0.021	ug/L		10/14/15 10:33	10/17/15 06:20	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 06:20	1
1-Methylnaphthalene	**0.069**	J	0.20	0.020	ug/L		10/14/15 10:33	10/17/15 06:20	1
2-Methylnaphthalene	**0.070**	J	0.20	0.020	ug/L		10/14/15 10:33	10/17/15 06:20	1
Phenanthrene	ND		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 06:20	1
Pyrene	ND		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 06:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*15 - 122*	*10/14/15 10:33*	*10/17/15 06:20*	*1*
Nitrobenzene-d5	*75*		*19 - 130*	*10/14/15 10:33*	*10/17/15 06:20*	*1*

Client Sample ID: MW28-ROX-101215

Date Collected: 10/12/15 13:10
Date Received: 10/13/15 10:04

Lab Sample ID: 400-112311-6

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	*77*		*33 - 138*	*10/14/15 10:33*	*10/17/15 06:20*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/14/15 10:33	10/15/15 21:53	1
Benzenethiol	ND		10	1.7	ug/L		10/14/15 10:33	10/15/15 21:53	1
Benzoic acid	ND		30	7.3	ug/L		10/14/15 10:33	10/15/15 21:53	1
Benzyl alcohol	ND		10	2.0	ug/L		10/14/15 10:33	10/15/15 21:53	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/14/15 10:33	10/15/15 21:53	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/14/15 10:33	10/15/15 21:53	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/14/15 10:33	10/15/15 21:53	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/14/15 10:33	10/15/15 21:53	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/14/15 10:33	10/15/15 21:53	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/14/15 10:33	10/15/15 21:53	1
4-Chloroaniline	ND		10	3.4	ug/L		10/14/15 10:33	10/15/15 21:53	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/14/15 10:33	10/15/15 21:53	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/14/15 10:33	10/15/15 21:53	1
2-Chlorophenol	ND		10	2.2	ug/L		10/14/15 10:33	10/15/15 21:53	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/14/15 10:33	10/15/15 21:53	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/14/15 10:33	10/15/15 21:53	1
Dibenzofuran	ND		10	0.52	ug/L		10/14/15 10:33	10/15/15 21:53	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/14/15 10:33	10/15/15 21:53	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/14/15 10:33	10/15/15 21:53	1
Diethyl phthalate	ND		10	0.70	ug/L		10/14/15 10:33	10/15/15 21:53	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/14/15 10:33	10/15/15 21:53	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/14/15 10:33	10/15/15 21:53	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/14/15 10:33	10/15/15 21:53	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/14/15 10:33	10/15/15 21:53	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/14/15 10:33	10/15/15 21:53	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/14/15 10:33	10/15/15 21:53	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/14/15 10:33	10/15/15 21:53	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/14/15 10:33	10/15/15 21:53	1
1,4-Dioxane	ND		10	1.0	ug/L		10/14/15 10:33	10/15/15 21:53	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/14/15 10:33	10/15/15 21:53	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/14/15 10:33	10/15/15 21:53	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/14/15 10:33	10/15/15 21:53	1
Hexachloroethane	ND		10	4.2	ug/L		10/14/15 10:33	10/15/15 21:53	1
Indene	ND		10	1.0	ug/L		10/14/15 10:33	10/15/15 21:53	1
Isophorone	ND		10	0.57	ug/L		10/14/15 10:33	10/15/15 21:53	1
2-Methylphenol	ND		10	1.8	ug/L		10/14/15 10:33	10/15/15 21:53	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/14/15 10:33	10/15/15 21:53	1
2-Nitroaniline	ND		10	2.2	ug/L		10/14/15 10:33	10/15/15 21:53	1
3-Nitroaniline	ND		10	1.8	ug/L		10/14/15 10:33	10/15/15 21:53	1
4-Nitroaniline	ND		10	2.5	ug/L		10/14/15 10:33	10/15/15 21:53	1
Nitrobenzene	ND		10	0.55	ug/L		10/14/15 10:33	10/15/15 21:53	1
2-Nitrophenol	ND		10	0.65	ug/L		10/14/15 10:33	10/15/15 21:53	1
4-Nitrophenol	ND		10	2.1	ug/L		10/14/15 10:33	10/15/15 21:53	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/14/15 10:33	10/15/15 21:53	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112311-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: MW28-ROX-101215
Date Collected: 10/12/15 13:10
Date Received: 10/13/15 10:04

Lab Sample ID: 400-112311-6
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/14/15 10:33	10/15/15 21:53	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/14/15 10:33	10/15/15 21:53	1
Pentachlorophenol	ND		20	1.8	ug/L		10/14/15 10:33	10/15/15 21:53	1
Phenol	ND		10	2.6	ug/L		10/14/15 10:33	10/15/15 21:53	1
Pyridine	ND		10	3.2	ug/L		10/14/15 10:33	10/15/15 21:53	1
Quinoline	ND		10	6.0	ug/L		10/14/15 10:33	10/15/15 21:53	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/14/15 10:33	10/15/15 21:53	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/14/15 10:33	10/15/15 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*63*		*10 - 120*	*10/14/15 10:33*	*10/15/15 21:53*	*1*
2-Fluorobiphenyl	*90*		*34 - 120*	*10/14/15 10:33*	*10/15/15 21:53*	*1*
2,4,6-Tribromophenol	*88*		*15 - 135*	*10/14/15 10:33*	*10/15/15 21:53*	*1*
Nitrobenzene-d5	*98*		*27 - 120*	*10/14/15 10:33*	*10/15/15 21:53*	*1*
Phenol-d5	*69*		*10 - 120*	*10/14/15 10:33*	*10/15/15 21:53*	*1*
Terphenyl-d14	*88*		*53 - 125*	*10/14/15 10:33*	*10/15/15 21:53*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.029	0.0054	ug/L		10/15/15 14:44	10/20/15 04:39	1
1,2-Dibromoethane	ND		0.020	0.0049	ug/L		10/15/15 14:44	10/20/15 04:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*51 - 149*	*10/15/15 14:44*	*10/20/15 04:39*	*1*

Client Sample ID: MW28-ROX-101215-DUP

Date Collected: 10/12/15 13:10
Date Received: 10/13/15 10:04

Lab Sample ID: 400-112311-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/21/15 23:35	1
Acrolein	ND		20	10	ug/L			10/21/15 23:35	1
Acrylonitrile	ND		10	2.8	ug/L			10/21/15 23:35	1
Benzene	ND		1.0	0.38	ug/L			10/21/15 23:35	1
Bromobenzene	ND		1.0	0.54	ug/L			10/21/15 23:35	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/21/15 23:35	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/21/15 23:35	1
Bromoform	ND		5.0	0.71	ug/L			10/21/15 23:35	1
Bromomethane	ND		1.0	0.98	ug/L			10/21/15 23:35	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/21/15 23:35	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/21/15 23:35	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/21/15 23:35	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/21/15 23:35	1
Chloroethane	ND		1.0	0.76	ug/L			10/21/15 23:35	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/21/15 23:35	1
Chloroform	ND		1.0	0.60	ug/L			10/21/15 23:35	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/21/15 23:35	1
Chloromethane	ND		1.0	0.83	ug/L			10/21/15 23:35	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 23:35	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/15 23:35	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/21/15 23:35	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/21/15 23:35	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/21/15 23:35	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/21/15 23:35	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/21/15 23:35	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/21/15 23:35	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/21/15 23:35	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 23:35	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 23:35	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 23:35	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 23:35	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/21/15 23:35	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/21/15 23:35	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/21/15 23:35	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/21/15 23:35	1
2-Hexanone	ND		25	3.1	ug/L			10/21/15 23:35	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/21/15 23:35	1
Methylene bromide	ND		5.0	0.59	ug/L			10/21/15 23:35	1
Methylene chloride	ND		5.0	3.0	ug/L			10/21/15 23:35	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/21/15 23:35	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/21/15 23:35	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/21/15 23:35	1
Naphthalene	ND		1.0	1.0	ug/L			10/21/15 23:35	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/21/15 23:35	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/21/15 23:35	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/21/15 23:35	1
o-Xylene	ND		5.0	0.60	ug/L			10/21/15 23:35	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/21/15 23:35	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/21/15 23:35	1

Client Sample ID: MW28-ROX-101215-DUP

Date Collected: 10/12/15 13:10
Date Received: 10/13/15 10:04

Lab Sample ID: 400-112311-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/21/15 23:35	1
Styrene	ND		1.0	1.0	ug/L			10/21/15 23:35	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/21/15 23:35	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/21/15 23:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/21/15 23:35	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/21/15 23:35	1
Toluene	ND		1.0	0.70	ug/L			10/21/15 23:35	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 23:35	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/15 23:35	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/21/15 23:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/21/15 23:35	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/21/15 23:35	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/21/15 23:35	1
Trichloroethene	ND		1.0	0.50	ug/L			10/21/15 23:35	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/21/15 23:35	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/21/15 23:35	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/21/15 23:35	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/21/15 23:35	1
Vinyl acetate	ND		25	2.0	ug/L			10/21/15 23:35	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/21/15 23:35	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/21/15 23:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*78 - 118*		*10/21/15 23:35*	*1*
Dibromofluoromethane	*102*		*81 - 121*		*10/21/15 23:35*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/21/15 23:35*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 07:42	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 07:42	1
Anthracene	ND		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 07:42	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 07:42	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 07:42	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 07:42	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 07:42	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 07:42	1
Chrysene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 07:42	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 07:42	1
Fluoranthene	ND		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 07:42	1
Fluorene	ND		0.20	0.021	ug/L		10/14/15 10:33	10/17/15 07:42	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 07:42	1
1-Methylnaphthalene	**0.033**	J	0.20	0.020	ug/L		10/14/15 10:33	10/17/15 07:42	1
2-Methylnaphthalene	**0.028**	J	0.20	0.020	ug/L		10/14/15 10:33	10/17/15 07:42	1
Phenanthrene	ND		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 07:42	1
Pyrene	ND		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 07:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*48*		*15 - 122*	*10/14/15 10:33*	*10/17/15 07:42*	*1*
Nitrobenzene-d5	*48*		*19 - 130*	*10/14/15 10:33*	*10/17/15 07:42*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112311-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: MW28-ROX-101215-DUP
Date Collected: 10/12/15 13:10
Date Received: 10/13/15 10:04

Lab Sample ID: 400-112311-7
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	55		33 - 138	10/14/15 10:33	10/17/15 07:42	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/14/15 10:33	10/15/15 22:30	1
Benzenethiol	ND		10	1.7	ug/L		10/14/15 10:33	10/15/15 22:30	1
Benzoic acid	ND		30	7.3	ug/L		10/14/15 10:33	10/15/15 22:30	1
Benzyl alcohol	ND		10	2.0	ug/L		10/14/15 10:33	10/15/15 22:30	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/14/15 10:33	10/15/15 22:30	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/14/15 10:33	10/15/15 22:30	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/14/15 10:33	10/15/15 22:30	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/14/15 10:33	10/15/15 22:30	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/14/15 10:33	10/15/15 22:30	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/14/15 10:33	10/15/15 22:30	1
4-Chloroaniline	ND		10	3.4	ug/L		10/14/15 10:33	10/15/15 22:30	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/14/15 10:33	10/15/15 22:30	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/14/15 10:33	10/15/15 22:30	1
2-Chlorophenol	ND		10	2.2	ug/L		10/14/15 10:33	10/15/15 22:30	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/14/15 10:33	10/15/15 22:30	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/14/15 10:33	10/15/15 22:30	1
Dibenzofuran	ND		10	0.52	ug/L		10/14/15 10:33	10/15/15 22:30	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/14/15 10:33	10/15/15 22:30	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/14/15 10:33	10/15/15 22:30	1
Diethyl phthalate	ND		10	0.70	ug/L		10/14/15 10:33	10/15/15 22:30	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/14/15 10:33	10/15/15 22:30	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/14/15 10:33	10/15/15 22:30	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/14/15 10:33	10/15/15 22:30	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/14/15 10:33	10/15/15 22:30	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/14/15 10:33	10/15/15 22:30	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/14/15 10:33	10/15/15 22:30	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/14/15 10:33	10/15/15 22:30	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/14/15 10:33	10/15/15 22:30	1
1,4-Dioxane	ND		10	1.0	ug/L		10/14/15 10:33	10/15/15 22:30	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/14/15 10:33	10/15/15 22:30	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/14/15 10:33	10/15/15 22:30	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/14/15 10:33	10/15/15 22:30	1
Hexachloroethane	ND		10	4.2	ug/L		10/14/15 10:33	10/15/15 22:30	1
Indene	ND		10	1.0	ug/L		10/14/15 10:33	10/15/15 22:30	1
Isophorone	ND		10	0.57	ug/L		10/14/15 10:33	10/15/15 22:30	1
2-Methylphenol	ND		10	1.8	ug/L		10/14/15 10:33	10/15/15 22:30	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/14/15 10:33	10/15/15 22:30	1
2-Nitroaniline	ND		10	2.2	ug/L		10/14/15 10:33	10/15/15 22:30	1
3-Nitroaniline	ND		10	1.8	ug/L		10/14/15 10:33	10/15/15 22:30	1
4-Nitroaniline	ND		10	2.5	ug/L		10/14/15 10:33	10/15/15 22:30	1
Nitrobenzene	ND		10	0.55	ug/L		10/14/15 10:33	10/15/15 22:30	1
2-Nitrophenol	ND		10	0.65	ug/L		10/14/15 10:33	10/15/15 22:30	1
4-Nitrophenol	ND		10	2.1	ug/L		10/14/15 10:33	10/15/15 22:30	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/14/15 10:33	10/15/15 22:30	1

Client Sample ID: MW28-ROX-101215-DUP

Date Collected: 10/12/15 13:10
Date Received: 10/13/15 10:04

Lab Sample ID: 400-112311-7

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/14/15 10:33	10/15/15 22:30	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/14/15 10:33	10/15/15 22:30	1
Pentachlorophenol	ND		20	1.8	ug/L		10/14/15 10:33	10/15/15 22:30	1
Phenol	ND		10	2.6	ug/L		10/14/15 10:33	10/15/15 22:30	1
Pyridine	ND		10	3.2	ug/L		10/14/15 10:33	10/15/15 22:30	1
Quinoline	ND		10	6.0	ug/L		10/14/15 10:33	10/15/15 22:30	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/14/15 10:33	10/15/15 22:30	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/14/15 10:33	10/15/15 22:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*87*		*10 - 120*	*10/14/15 10:33*	*10/15/15 22:30*	*1*
2-Fluorobiphenyl	*108*		*34 - 120*	*10/14/15 10:33*	*10/15/15 22:30*	*1*
2,4,6-Tribromophenol	*124*		*15 - 135*	*10/14/15 10:33*	*10/15/15 22:30*	*1*
Nitrobenzene-d5	*122*	*X*	*27 - 120*	*10/14/15 10:33*	*10/15/15 22:30*	*1*
Phenol-d5	*96*		*10 - 120*	*10/14/15 10:33*	*10/15/15 22:30*	*1*
Terphenyl-d14	*137*	*X*	*53 - 125*	*10/14/15 10:33*	*10/15/15 22:30*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/15/15 14:44	10/20/15 05:08	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/15/15 14:44	10/20/15 05:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*84*		*51 - 149*	*10/15/15 14:44*	*10/20/15 05:08*	*1*

Client Sample ID: ROST4PZC-ROX-101215

Date Collected: 10/12/15 14:15
Date Received: 10/13/15 10:04

Lab Sample ID: 400-112311-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**22**	**J**	25	10	ug/L			10/22/15 00:00	1
Acrolein	ND		20	10	ug/L			10/22/15 00:00	1
Acrylonitrile	ND		10	2.8	ug/L			10/22/15 00:00	1
Benzene	**71**		1.0	0.38	ug/L			10/22/15 00:00	1
Bromobenzene	ND		1.0	0.54	ug/L			10/22/15 00:00	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/22/15 00:00	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/22/15 00:00	1
Bromoform	ND		5.0	0.71	ug/L			10/22/15 00:00	1
Bromomethane	ND		1.0	0.98	ug/L			10/22/15 00:00	1
2-Butanone (MEK)	**9.7**	**J**	25	2.6	ug/L			10/22/15 00:00	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/22/15 00:00	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/22/15 00:00	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/22/15 00:00	1
Chloroethane	ND		1.0	0.76	ug/L			10/22/15 00:00	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/22/15 00:00	1
Chloroform	ND		1.0	0.60	ug/L			10/22/15 00:00	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/22/15 00:00	1
Chloromethane	ND		1.0	0.83	ug/L			10/22/15 00:00	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 00:00	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/15 00:00	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/22/15 00:00	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/22/15 00:00	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/22/15 00:00	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/22/15 00:00	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/22/15 00:00	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/22/15 00:00	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/22/15 00:00	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 00:00	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 00:00	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 00:00	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 00:00	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/22/15 00:00	1
Ethylbenzene	**150**		1.0	0.50	ug/L			10/22/15 00:00	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/22/15 00:00	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/22/15 00:00	1
2-Hexanone	ND		25	3.1	ug/L			10/22/15 00:00	1
Isopropylbenzene	**5.1**		1.0	0.53	ug/L			10/22/15 00:00	1
Methylene bromide	ND		5.0	0.59	ug/L			10/22/15 00:00	1
Methylene chloride	ND		5.0	3.0	ug/L			10/22/15 00:00	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/22/15 00:00	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/22/15 00:00	1
Naphthalene	**82**		1.0	1.0	ug/L			10/22/15 00:00	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/22/15 00:00	1
N-Propylbenzene	**5.9**		1.0	0.69	ug/L			10/22/15 00:00	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/22/15 00:00	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/22/15 00:00	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/22/15 00:00	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/22/15 00:00	1
Styrene	ND		1.0	1.0	ug/L			10/22/15 00:00	1

Client Sample ID: ROST4PZC-ROX-101215

Date Collected: 10/12/15 14:15
Date Received: 10/13/15 10:04

Lab Sample ID: 400-112311-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/22/15 00:00	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/22/15 00:00	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/22/15 00:00	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/22/15 00:00	1
Toluene	**42**		1.0	0.70	ug/L			10/22/15 00:00	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 00:00	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/15 00:00	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/22/15 00:00	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/22/15 00:00	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/22/15 00:00	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/22/15 00:00	1
Trichloroethene	ND		1.0	0.50	ug/L			10/22/15 00:00	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/22/15 00:00	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/22/15 00:00	1
1,2,4-Trimethylbenzene	**36**		1.0	0.82	ug/L			10/22/15 00:00	1
1,3,5-Trimethylbenzene	**6.6**		1.0	0.56	ug/L			10/22/15 00:00	1
Vinyl acetate	ND		25	2.0	ug/L			10/22/15 00:00	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/22/15 00:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*78 - 118*		*10/22/15 00:00*	*1*
Dibromofluoromethane	*100*		*81 - 121*		*10/22/15 00:00*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/22/15 00:00*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	**530**		25	8.0	ug/L			10/22/15 18:09	5
o-Xylene	**36**		25	3.0	ug/L			10/22/15 18:09	5
Xylenes, Total	**570**		25	3.0	ug/L			10/22/15 18:09	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*78 - 118*		*10/22/15 18:09*	*5*
Dibromofluoromethane	*102*		*81 - 121*		*10/22/15 18:09*	*5*
Toluene-d8 (Surr)	*94*		*80 - 120*		*10/22/15 18:09*	*5*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.19**	J	0.20	0.020	ug/L		10/14/15 10:33	10/17/15 08:17	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 08:17	1
Anthracene	ND		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 08:17	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 08:17	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 08:17	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 08:17	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 08:17	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 08:17	1
Chrysene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 08:17	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 08:17	1
Fluoranthene	ND		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 08:17	1
Fluorene	ND		0.20	0.021	ug/L		10/14/15 10:33	10/17/15 08:17	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 08:17	1

Client Sample ID: ROST4PZC-ROX-101215

Date Collected: 10/12/15 14:15
Date Received: 10/13/15 10:04

Lab Sample ID: 400-112311-8

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	13		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 08:17	1
2-Methylnaphthalene	11		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 08:17	1
Phenanthrene	ND		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 08:17	1
Pyrene	ND		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 08:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*58*		*15 - 122*	*10/14/15 10:33*	*10/17/15 08:17*	*1*
Nitrobenzene-d5	*57*		*19 - 130*	*10/14/15 10:33*	*10/17/15 08:17*	*1*
Terphenyl-d14	*58*		*33 - 138*	*10/14/15 10:33*	*10/17/15 08:17*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/14/15 10:33	10/15/15 23:08	1
Benzenethiol	ND		10	1.7	ug/L		10/14/15 10:33	10/15/15 23:08	1
Benzoic acid	ND		30	7.3	ug/L		10/14/15 10:33	10/15/15 23:08	1
Benzyl alcohol	ND		10	2.0	ug/L		10/14/15 10:33	10/15/15 23:08	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/14/15 10:33	10/15/15 23:08	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/14/15 10:33	10/15/15 23:08	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/14/15 10:33	10/15/15 23:08	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/14/15 10:33	10/15/15 23:08	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/14/15 10:33	10/15/15 23:08	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/14/15 10:33	10/15/15 23:08	1
4-Chloroaniline	ND		10	3.4	ug/L		10/14/15 10:33	10/15/15 23:08	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/14/15 10:33	10/15/15 23:08	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/14/15 10:33	10/15/15 23:08	1
2-Chlorophenol	ND		10	2.2	ug/L		10/14/15 10:33	10/15/15 23:08	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/14/15 10:33	10/15/15 23:08	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/14/15 10:33	10/15/15 23:08	1
Dibenzofuran	ND		10	0.52	ug/L		10/14/15 10:33	10/15/15 23:08	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/14/15 10:33	10/15/15 23:08	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/14/15 10:33	10/15/15 23:08	1
Diethyl phthalate	ND		10	0.70	ug/L		10/14/15 10:33	10/15/15 23:08	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/14/15 10:33	10/15/15 23:08	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/14/15 10:33	10/15/15 23:08	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/14/15 10:33	10/15/15 23:08	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/14/15 10:33	10/15/15 23:08	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/14/15 10:33	10/15/15 23:08	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/14/15 10:33	10/15/15 23:08	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/14/15 10:33	10/15/15 23:08	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/14/15 10:33	10/15/15 23:08	1
1,4-Dioxane	ND		10	1.0	ug/L		10/14/15 10:33	10/15/15 23:08	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/14/15 10:33	10/15/15 23:08	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/14/15 10:33	10/15/15 23:08	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/14/15 10:33	10/15/15 23:08	1
Hexachloroethane	ND		10	4.2	ug/L		10/14/15 10:33	10/15/15 23:08	1
Indene	1.2	J	10	1.0	ug/L		10/14/15 10:33	10/15/15 23:08	1
Isophorone	ND		10	0.57	ug/L		10/14/15 10:33	10/15/15 23:08	1
2-Methylphenol	ND		10	1.8	ug/L		10/14/15 10:33	10/15/15 23:08	1
3 & 4 Methylphenol	5.1	J	20	1.0	ug/L		10/14/15 10:33	10/15/15 23:08	1

Client Sample ID: ROST4PZC-ROX-101215

Date Collected: 10/12/15 14:15
Date Received: 10/13/15 10:04

Lab Sample ID: 400-112311-8

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	ND		10	2.2	ug/L		10/14/15 10:33	10/15/15 23:08	1
3-Nitroaniline	ND		10	1.8	ug/L		10/14/15 10:33	10/15/15 23:08	1
4-Nitroaniline	ND		10	2.5	ug/L		10/14/15 10:33	10/15/15 23:08	1
Nitrobenzene	ND		10	0.55	ug/L		10/14/15 10:33	10/15/15 23:08	1
2-Nitrophenol	ND		10	0.65	ug/L		10/14/15 10:33	10/15/15 23:08	1
4-Nitrophenol	ND		10	2.1	ug/L		10/14/15 10:33	10/15/15 23:08	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/14/15 10:33	10/15/15 23:08	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/14/15 10:33	10/15/15 23:08	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/14/15 10:33	10/15/15 23:08	1
Pentachlorophenol	ND		20	1.8	ug/L		10/14/15 10:33	10/15/15 23:08	1
Phenol	ND		10	2.6	ug/L		10/14/15 10:33	10/15/15 23:08	1
Pyridine	ND		10	3.2	ug/L		10/14/15 10:33	10/15/15 23:08	1
Quinoline	ND		10	6.0	ug/L		10/14/15 10:33	10/15/15 23:08	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/14/15 10:33	10/15/15 23:08	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/14/15 10:33	10/15/15 23:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*47*		*10 - 120*	*10/14/15 10:33*	*10/15/15 23:08*	*1*
2-Fluorobiphenyl	*67*		*34 - 120*	*10/14/15 10:33*	*10/15/15 23:08*	*1*
2,4,6-Tribromophenol	*83*		*15 - 135*	*10/14/15 10:33*	*10/15/15 23:08*	*1*
Nitrobenzene-d5	*74*		*27 - 120*	*10/14/15 10:33*	*10/15/15 23:08*	*1*
Phenol-d5	*59*		*10 - 120*	*10/14/15 10:33*	*10/15/15 23:08*	*1*
Terphenyl-d14	*65*		*53 - 125*	*10/14/15 10:33*	*10/15/15 23:08*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/15/15 14:44	10/20/15 05:38	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/15/15 14:44	10/20/15 05:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*51 - 149*	*10/15/15 14:44*	*10/20/15 05:38*	*1*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
X	Surrogate is outside control limits

Glossary

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

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112311-1
SDG: Proj. 60400249-21563720.03004

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(78-118)	(81-121)	(80-120)
400-112311-1	TB-ROX-101215-8260	92	100	95
400-112311-3	ROST3MW-ROX-101215	95	97	97
400-112311-4	MW5-ROX-101215	97	98	96
400-112311-4 MS	MW5-ROX-101215	96	102	94
400-112311-4 MSD	MW5-ROX-101215	95	104	95
400-112311-5	MW2-ROX-101215	96	96	96
400-112311-6	MW28-ROX-101215	94	102	95
400-112311-7	MW28-ROX-101215-DUP	92	102	96
400-112311-8	ROST4PZC-ROX-101215	94	100	96
400-112311-8 - DL	ROST4PZC-ROX-101215	95	102	94
490-89389-F-9 MS	Matrix Spike	96	105	93
490-89389-F-9 MSD	Matrix Spike Duplicate	95	104	94
LCS 400-279924/1002	Lab Control Sample	95	105	94
LCS 400-280082/1002	Lab Control Sample	96	105	93
MB 400-279924/4	Method Blank	92	99	95
MB 400-280082/4	Method Blank	94	104	93

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	FBP	TBP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(10-120)	(34-120)	(15-135)	(27-120)	(10-120)	(53-125)
400-112311-3	ROST3MW-ROX-101215	58	85	86	107	62	89
400-112311-4	MW5-ROX-101215	61	99	92	83	65	71
400-112311-4 MS	MW5-ROX-101215	63	93	98	85	74	83
400-112311-4 MSD	MW5-ROX-101215	50	90	78	68	56	71
400-112311-5	MW2-ROX-101215	39	72	62	77	41	66
400-112311-6	MW28-ROX-101215	63	90	88	98	69	88
400-112311-7	MW28-ROX-101215-DUP	87	108	124	122 X	96	137 X
400-112311-8	ROST4PZC-ROX-101215	47	67	83	74	59	65
LCS 400-278758/2-A	Lab Control Sample	71	97	104	98	79	106
MB 400-278758/1-A	Method Blank	70	93	87	100	72	109

Surrogate Legend

2FP = 2-Fluorophenol
FBP = 2-Fluorobiphenyl
TBP = 2,4,6-Tribromophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = Terphenyl-d14

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112311-1
SDG: Proj. 60400249-21563720.03004

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPH
Lab Sample ID	Client Sample ID	(15-122)	(19-130)	(33-138)
400-112311-3	ROST3MW-ROX-101215	79	77	85
400-112311-4	MW5-ROX-101215	85	65	63
400-112311-4 MS	MW5-ROX-101215	99	99	76
400-112311-4 MSD	MW5-ROX-101215	91	77	59
400-112311-5	MW2-ROX-101215	63	57	60
400-112311-6	MW28-ROX-101215	77	75	77
400-112311-7	MW28-ROX-101215-DUP	48	48	55
400-112311-8	ROST4PZC-ROX-101215	58	57	58
LCS 400-278758/2-A	Lab Control Sample	94	80	96
MB 400-278758/1-A	Method Blank	41	40	48

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5
TPH = Terphenyl-d14

Method: 8011 - EDB and DBCP in Water by Microextraction

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(51-149)
400-112311-2	TB-ROX-101215-8011	102
400-112311-3	ROST3MW-ROX-101215	82
400-112311-4	MW5-ROX-101215	93
400-112311-4 MS	MW5-ROX-101215	94
400-112311-4 MSD	MW5-ROX-101215	94
400-112311-5	MW2-ROX-101215	87
400-112311-6	MW28-ROX-101215	94
400-112311-7	MW28-ROX-101215-DUP	84
400-112311-8	ROST4PZC-ROX-101215	106
LCS 400-279017/2-A	Lab Control Sample	84
MB 400-279017/1-A	Method Blank	86

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112311-1
SDG: Proj. 60400249-21563720.03004

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL PEN
8011	EDB and DBCP in Water by Microextraction	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Client Sample ID: TB-ROX-101215-8260

Lab Sample ID: 400-112311-1
Matrix: Water

Date Collected: 10/12/15 00:00
Date Received: 10/13/15 10:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279924	10/21/15 22:17	CLN	TAL PEN

Client Sample ID: TB-ROX-101215-8011

Lab Sample ID: 400-112311-2
Matrix: Water

Date Collected: 10/12/15 00:00
Date Received: 10/13/15 10:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			34.3 mL	35 mL	279017	10/15/15 14:44	AM	TAL PEN
Total/NA	Analysis	8011		1	34.3 mL	35 mL	279537	10/20/15 02:40	AM	TAL PEN

Client Sample ID: ROST3MW-ROX-101215

Lab Sample ID: 400-112311-3
Matrix: Water

Date Collected: 10/12/15 09:15
Date Received: 10/13/15 10:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279924	10/21/15 22:43	CLN	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278758	10/14/15 10:33	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278897	10/15/15 20:37	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278758	10/14/15 10:33	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	279108	10/17/15 04:36	CEP	TAL PEN
Total/NA	Prep	8011			34.5 mL	35 mL	279017	10/15/15 14:44	AM	TAL PEN
Total/NA	Analysis	8011		1	34.5 mL	35 mL	279537	10/20/15 03:10	AM	TAL PEN

Client Sample ID: MW5-ROX-101215

Lab Sample ID: 400-112311-4
Matrix: Water

Date Collected: 10/12/15 10:15
Date Received: 10/13/15 10:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279924	10/21/15 21:51	CLN	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278758	10/14/15 10:33	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278897	10/15/15 19:59	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278758	10/14/15 10:33	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	279108	10/17/15 05:11	CEP	TAL PEN
Total/NA	Prep	8011			35.4 mL	35 mL	279017	10/15/15 14:44	AM	TAL PEN
Total/NA	Analysis	8011		1	35.4 mL	35 mL	279537	10/20/15 03:40	AM	TAL PEN

Client Sample ID: MW2-ROX-101215

Lab Sample ID: 400-112311-5
Matrix: Water

Date Collected: 10/12/15 11:10
Date Received: 10/13/15 10:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	5 mL	5 mL	279924	10/22/15 04:45	CLN	TAL PEN

Client Sample ID: MW2-ROX-101215

Lab Sample ID: 400-112311-5

Date Collected: 10/12/15 11:10
Matrix: Water
Date Received: 10/13/15 10:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	278758	10/14/15 10:33	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278897	10/15/15 21:15	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278758	10/14/15 10:33	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	279108	10/17/15 05:45	CEP	TAL PEN
Total/NA	Prep	8011			25.7 mL	35 mL	279017	10/15/15 14:44	AM	TAL PEN
Total/NA	Analysis	8011		1	25.7 mL	35 mL	279537	10/20/15 04:09	AM	TAL PEN

Client Sample ID: MW28-ROX-101215

Lab Sample ID: 400-112311-6

Date Collected: 10/12/15 13:10
Matrix: Water
Date Received: 10/13/15 10:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279924	10/21/15 23:09	CLN	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278758	10/14/15 10:33	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278897	10/15/15 21:53	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278758	10/14/15 10:33	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	279108	10/17/15 06:20	CEP	TAL PEN
Total/NA	Prep	8011			35.8 mL	35 mL	279017	10/15/15 14:44	AM	TAL PEN
Total/NA	Analysis	8011		1	35.8 mL	35 mL	279537	10/20/15 04:39	AM	TAL PEN

Client Sample ID: MW28-ROX-101215-DUP

Lab Sample ID: 400-112311-7

Date Collected: 10/12/15 13:10
Matrix: Water
Date Received: 10/13/15 10:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279924	10/21/15 23:35	CLN	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278758	10/14/15 10:33	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278897	10/15/15 22:30	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278758	10/14/15 10:33	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	279399	10/17/15 07:42	CEP	TAL PEN
Total/NA	Prep	8011			35.1 mL	35 mL	279017	10/15/15 14:44	AM	TAL PEN
Total/NA	Analysis	8011		1	35.1 mL	35 mL	279537	10/20/15 05:08	AM	TAL PEN

Client Sample ID: ROST4PZC-ROX-101215

Lab Sample ID: 400-112311-8

Date Collected: 10/12/15 14:15
Matrix: Water
Date Received: 10/13/15 10:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279924	10/22/15 00:00	CLN	TAL PEN
Total/NA	Analysis	8260B	DL	5	5 mL	5 mL	280082	10/22/15 18:09	CLN	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278758	10/14/15 10:33	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278897	10/15/15 23:08	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278758	10/14/15 10:33	KH1	TAL PEN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112311-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: ROST4PZC-ROX-101215

Date Collected: 10/12/15 14:15
Date Received: 10/13/15 10:04

Lab Sample ID: 400-112311-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	279399	10/17/15 08:17	CEP	TAL PEN
Total/NA	Prep	8011			34.7 mL	35 mL	279017	10/15/15 14:44	AM	TAL PEN
Total/NA	Analysis	8011		1	34.7 mL	35 mL	279537	10/20/15 05:38	AM	TAL PEN

Client Sample ID: Lab Control Sample

Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-278758/2-A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	278758	10/14/15 10:33	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278897	10/15/15 18:05	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278758	10/14/15 10:33	KH1	TAL PEN
Total/NA	Analysis	8270C LL		5	1000 mL	1 mL	279108	10/17/15 04:01	CEP	TAL PEN

Client Sample ID: Lab Control Sample

Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-279017/2-A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	279017	10/15/15 14:44	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	279537	10/19/15 21:44	AM	TAL PEN

Client Sample ID: Lab Control Sample

Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-279924/1002

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279924	10/21/15 17:52	CLN	TAL PEN

Client Sample ID: Lab Control Sample

Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-280082/1002

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	280082	10/22/15 16:15	CLN	TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-278758/1-A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	278758	10/14/15 10:33	KH1	TAL PEN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112311-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: Method Blank

Lab Sample ID: MB 400-278758/1-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278897	10/15/15 17:27	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278758	10/14/15 10:33	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	279108	10/17/15 03:26	CEP	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-279017/1-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	279017	10/15/15 14:44	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	279537	10/19/15 21:15	AM	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-279924/4

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279924	10/21/15 18:50	CLN	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-280082/4

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	280082	10/22/15 17:17	CLN	TAL PEN

Client Sample ID: MW5-ROX-101215

Lab Sample ID: 400-112311-4 MS

Date Collected: 10/12/15 10:15
Date Received: 10/13/15 10:04

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279924	10/21/15 20:33	CLN	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278758	10/14/15 10:33	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278897	10/15/15 18:43	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278758	10/14/15 10:33	KH1	TAL PEN
Total/NA	Analysis	8270C LL		5	1000 mL	1 mL	280303	10/24/15 05:42	CEP	TAL PEN
Total/NA	Prep	8011			33.8 mL	35 mL	279017	10/15/15 14:44	AM	TAL PEN
Total/NA	Analysis	8011		1	33.8 mL	35 mL	279537	10/19/15 22:14	AM	TAL PEN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112311-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: MW5-ROX-101215

Date Collected: 10/12/15 10:15
Date Received: 10/13/15 10:04

Lab Sample ID: 400-112311-4 MSD

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279924	10/21/15 20:59	CLN	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278758	10/14/15 10:33	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	278897	10/15/15 19:21	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	278758	10/14/15 10:33	KH1	TAL PEN
Total/NA	Analysis	8270C LL		5	1000 mL	1 mL	280303	10/24/15 06:19	CEP	TAL PEN
Total/NA	Prep	8011			35.6 mL	35 mL	279017	10/15/15 14:44	AM	TAL PEN
Total/NA	Analysis	8011		1	35.6 mL	35 mL	279537	10/19/15 22:44	AM	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

GC/MS VOA

Analysis Batch: 279924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112311-1	TB-ROX-101215-8260	Total/NA	Water	8260B	
400-112311-3	ROST3MW-ROX-101215	Total/NA	Water	8260B	
400-112311-4	MW5-ROX-101215	Total/NA	Water	8260B	
400-112311-4 MS	MW5-ROX-101215	Total/NA	Water	8260B	
400-112311-4 MSD	MW5-ROX-101215	Total/NA	Water	8260B	
400-112311-5	MW2-ROX-101215	Total/NA	Water	8260B	
400-112311-6	MW28-ROX-101215	Total/NA	Water	8260B	
400-112311-7	MW28-ROX-101215-DUP	Total/NA	Water	8260B	
400-112311-8	ROST4PZC-ROX-101215	Total/NA	Water	8260B	
LCS 400-279924/1002	Lab Control Sample	Total/NA	Water	8260B	
MB 400-279924/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 280082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112311-8 - DL	ROST4PZC-ROX-101215	Total/NA	Water	8260B	
LCS 400-280082/1002	Lab Control Sample	Total/NA	Water	8260B	
MB 400-280082/4	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 278758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112311-3	ROST3MW-ROX-101215	Total/NA	Water	3520C	
400-112311-4	MW5-ROX-101215	Total/NA	Water	3520C	
400-112311-4 MS	MW5-ROX-101215	Total/NA	Water	3520C	
400-112311-4 MSD	MW5-ROX-101215	Total/NA	Water	3520C	
400-112311-5	MW2-ROX-101215	Total/NA	Water	3520C	
400-112311-6	MW28-ROX-101215	Total/NA	Water	3520C	
400-112311-7	MW28-ROX-101215-DUP	Total/NA	Water	3520C	
400-112311-8	ROST4PZC-ROX-101215	Total/NA	Water	3520C	
LCS 400-278758/2-A	Lab Control Sample	Total/NA	Water	3520C	
MB 400-278758/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 278897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112311-3	ROST3MW-ROX-101215	Total/NA	Water	8270C	278758
400-112311-4	MW5-ROX-101215	Total/NA	Water	8270C	278758
400-112311-4 MS	MW5-ROX-101215	Total/NA	Water	8270C	278758
400-112311-4 MSD	MW5-ROX-101215	Total/NA	Water	8270C	278758
400-112311-5	MW2-ROX-101215	Total/NA	Water	8270C	278758
400-112311-6	MW28-ROX-101215	Total/NA	Water	8270C	278758
400-112311-7	MW28-ROX-101215-DUP	Total/NA	Water	8270C	278758
400-112311-8	ROST4PZC-ROX-101215	Total/NA	Water	8270C	278758
LCS 400-278758/2-A	Lab Control Sample	Total/NA	Water	8270C	278758
MB 400-278758/1-A	Method Blank	Total/NA	Water	8270C	278758

Analysis Batch: 279108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112311-3	ROST3MW-ROX-101215	Total/NA	Water	8270C LL	278758
400-112311-4	MW5-ROX-101215	Total/NA	Water	8270C LL	278758

GC/MS Semi VOA (Continued)

Analysis Batch: 279108 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112311-5	MW2-ROX-101215	Total/NA	Water	8270C LL	278758
400-112311-6	MW28-ROX-101215	Total/NA	Water	8270C LL	278758
LCS 400-278758/2-A	Lab Control Sample	Total/NA	Water	8270C LL	278758
MB 400-278758/1-A	Method Blank	Total/NA	Water	8270C LL	278758

Analysis Batch: 279399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112311-7	MW28-ROX-101215-DUP	Total/NA	Water	8270C LL	278758
400-112311-8	ROST4PZC-ROX-101215	Total/NA	Water	8270C LL	278758

Analysis Batch: 280303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112311-4 MS	MW5-ROX-101215	Total/NA	Water	8270C LL	278758
400-112311-4 MSD	MW5-ROX-101215	Total/NA	Water	8270C LL	278758

GC Semi VOA

Prep Batch: 279017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112311-2	TB-ROX-101215-8011	Total/NA	Water	8011	
400-112311-3	ROST3MW-ROX-101215	Total/NA	Water	8011	
400-112311-4	MW5-ROX-101215	Total/NA	Water	8011	
400-112311-4 MS	MW5-ROX-101215	Total/NA	Water	8011	
400-112311-4 MSD	MW5-ROX-101215	Total/NA	Water	8011	
400-112311-5	MW2-ROX-101215	Total/NA	Water	8011	
400-112311-6	MW28-ROX-101215	Total/NA	Water	8011	
400-112311-7	MW28-ROX-101215-DUP	Total/NA	Water	8011	
400-112311-8	ROST4PZC-ROX-101215	Total/NA	Water	8011	
LCS 400-279017/2-A	Lab Control Sample	Total/NA	Water	8011	
MB 400-279017/1-A	Method Blank	Total/NA	Water	8011	

Analysis Batch: 279537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112311-2	TB-ROX-101215-8011	Total/NA	Water	8011	279017
400-112311-3	ROST3MW-ROX-101215	Total/NA	Water	8011	279017
400-112311-4	MW5-ROX-101215	Total/NA	Water	8011	279017
400-112311-4 MS	MW5-ROX-101215	Total/NA	Water	8011	279017
400-112311-4 MSD	MW5-ROX-101215	Total/NA	Water	8011	279017
400-112311-5	MW2-ROX-101215	Total/NA	Water	8011	279017
400-112311-6	MW28-ROX-101215	Total/NA	Water	8011	279017
400-112311-7	MW28-ROX-101215-DUP	Total/NA	Water	8011	279017
400-112311-8	ROST4PZC-ROX-101215	Total/NA	Water	8011	279017
LCS 400-279017/2-A	Lab Control Sample	Total/NA	Water	8011	279017
MB 400-279017/1-A	Method Blank	Total/NA	Water	8011	279017

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

Lab Sample ID: MB 400-279924/4
Matrix: Water
Analysis Batch: 279924

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/21/15 18:50	1
Acrolein	ND		20	10	ug/L			10/21/15 18:50	1
Acrylonitrile	ND		10	2.8	ug/L			10/21/15 18:50	1
Benzene	ND		1.0	0.38	ug/L			10/21/15 18:50	1
Bromobenzene	ND		1.0	0.54	ug/L			10/21/15 18:50	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/21/15 18:50	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/21/15 18:50	1
Bromoform	ND		5.0	0.71	ug/L			10/21/15 18:50	1
Bromomethane	ND		1.0	0.98	ug/L			10/21/15 18:50	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/21/15 18:50	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/21/15 18:50	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/21/15 18:50	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/21/15 18:50	1
Chloroethane	ND		1.0	0.76	ug/L			10/21/15 18:50	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/21/15 18:50	1
Chloroform	ND		1.0	0.60	ug/L			10/21/15 18:50	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/21/15 18:50	1
Chloromethane	ND		1.0	0.83	ug/L			10/21/15 18:50	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 18:50	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/15 18:50	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/21/15 18:50	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/21/15 18:50	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/21/15 18:50	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/21/15 18:50	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/21/15 18:50	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/21/15 18:50	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/21/15 18:50	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 18:50	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 18:50	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 18:50	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/21/15 18:50	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/21/15 18:50	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/21/15 18:50	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/21/15 18:50	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/21/15 18:50	1
2-Hexanone	ND		25	3.1	ug/L			10/21/15 18:50	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/21/15 18:50	1
Methylene bromide	ND		5.0	0.59	ug/L			10/21/15 18:50	1
Methylene chloride	ND		5.0	3.0	ug/L			10/21/15 18:50	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/21/15 18:50	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/21/15 18:50	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/21/15 18:50	1
Naphthalene	ND		1.0	1.0	ug/L			10/21/15 18:50	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/21/15 18:50	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/21/15 18:50	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/21/15 18:50	1
o-Xylene	ND		5.0	0.60	ug/L			10/21/15 18:50	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/21/15 18:50	1

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

Lab Sample ID: MB 400-279924/4
Matrix: Water
Analysis Batch: 279924

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/21/15 18:50	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/21/15 18:50	1
Styrene	ND		1.0	1.0	ug/L			10/21/15 18:50	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/21/15 18:50	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/21/15 18:50	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/21/15 18:50	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/21/15 18:50	1
Toluene	ND		1.0	0.70	ug/L			10/21/15 18:50	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/21/15 18:50	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/21/15 18:50	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/21/15 18:50	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/21/15 18:50	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/21/15 18:50	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/21/15 18:50	1
Trichloroethene	ND		1.0	0.50	ug/L			10/21/15 18:50	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/21/15 18:50	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/21/15 18:50	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/21/15 18:50	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/21/15 18:50	1
Vinyl acetate	ND		25	2.0	ug/L			10/21/15 18:50	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/21/15 18:50	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/21/15 18:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*78 - 118*		*10/21/15 18:50*	*1*
Dibromofluoromethane	*99*		*81 - 121*		*10/21/15 18:50*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/21/15 18:50*	*1*

Lab Sample ID: LCS 400-279924/1002
Matrix: Water
Analysis Batch: 279924

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	212		ug/L		106	43 - 160
Acrolein	500	458		ug/L		92	38 - 160
Acrylonitrile	500	461		ug/L		92	64 - 142
Benzene	50.0	56.9		ug/L		114	70 - 130
Bromobenzene	50.0	41.2		ug/L		82	70 - 132
Bromochloromethane	50.0	57.9		ug/L		116	70 - 130
Bromodichloromethane	50.0	65.4		ug/L		131	67 - 133
Bromoform	50.0	44.5		ug/L		89	57 - 140
Bromomethane	50.0	68.5		ug/L		137	10 - 160
2-Butanone (MEK)	200	226		ug/L		113	61 - 145
Carbon disulfide	50.0	57.4		ug/L		115	61 - 137
Carbon tetrachloride	50.0	67.8		ug/L		136	61 - 137
Chlorobenzene	50.0	54.5		ug/L		109	70 - 130
Chloroethane	50.0	48.3		ug/L		97	55 - 141
2-Chloroethyl vinyl ether	50.0	55.3		ug/L		111	10 - 160

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

Lab Sample ID: LCS 400-279924/1002
Matrix: Water
Analysis Batch: 279924

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	50.0	59.0		ug/L		118	69 - 130
1-Chlorohexane	50.0	53.0		ug/L		106	69 - 130
Chloromethane	50.0	45.5		ug/L		91	58 - 137
cis-1,2-Dichloroethene	50.0	56.5		ug/L		113	68 - 130
cis-1,3-Dichloropropene	50.0	61.7		ug/L		123	69 - 132
Dibromochloromethane	50.0	57.0		ug/L		114	67 - 135
1,2-Dichlorobenzene	50.0	43.7		ug/L		87	67 - 130
1,3-Dichlorobenzene	50.0	44.3		ug/L		89	70 - 130
1,4-Dichlorobenzene	50.0	49.3		ug/L		99	70 - 130
Dichlorodifluoromethane	50.0	55.7		ug/L		111	41 - 146
1,1-Dichloroethane	50.0	55.6		ug/L		111	70 - 130
1,2-Dichloroethane	50.0	59.3		ug/L		119	69 - 130
1,1-Dichloroethene	50.0	56.5		ug/L		113	63 - 134
1,2-Dichloropropane	50.0	54.3		ug/L		109	70 - 130
1,3-Dichloropropane	50.0	53.0		ug/L		106	70 - 130
2,2-Dichloropropane	50.0	62.1		ug/L		124	52 - 135
1,1-Dichloropropene	50.0	61.7		ug/L		123	70 - 130
Ethylbenzene	50.0	57.8		ug/L		116	70 - 130
Ethyl methacrylate	50.0	55.7		ug/L		111	68 - 130
Hexachlorobutadiene	50.0	42.3		ug/L		85	53 - 140
2-Hexanone	200	188		ug/L		94	65 - 137
Isopropylbenzene	50.0	57.9		ug/L		116	70 - 130
Methylene bromide	50.0	58.3		ug/L		117	70 - 130
Methylene chloride	50.0	54.2		ug/L		108	66 - 135
4-Methyl-2-pentanone (MIBK)	200	211		ug/L		106	69 - 138
Methyl tert-butyl ether	50.0	57.1		ug/L		114	66 - 130
m-Xylene & p-Xylene	50.0	58.5		ug/L		117	70 - 130
Naphthalene	50.0	41.7		ug/L		83	47 - 149
n-Butylbenzene	50.0	47.3		ug/L		95	67 - 130
N-Propylbenzene	50.0	49.4		ug/L		99	70 - 130
o-Chlorotoluene	50.0	48.0		ug/L		96	70 - 130
o-Xylene	50.0	59.0		ug/L		118	70 - 130
p-Chlorotoluene	50.0	49.6		ug/L		99	70 - 130
p-Isopropyltoluene	50.0	50.8		ug/L		102	65 - 130
sec-Butylbenzene	50.0	48.3		ug/L		97	66 - 130
Styrene	50.0	55.5		ug/L		111	70 - 130
tert-Butylbenzene	50.0	49.2		ug/L		98	64 - 139
1,1,1,2-Tetrachloroethane	50.0	58.7		ug/L		117	67 - 131
1,1,2,2-Tetrachloroethane	50.0	43.5		ug/L		87	70 - 131
Tetrachloroethene	50.0	48.2		ug/L		96	65 - 130
Toluene	50.0	53.7		ug/L		107	70 - 130
trans-1,2-Dichloroethene	50.0	56.6		ug/L		113	70 - 130
trans-1,3-Dichloropropene	50.0	52.8		ug/L		106	63 - 130
1,2,3-Trichlorobenzene	50.0	42.6		ug/L		85	60 - 138
1,2,4-Trichlorobenzene	50.0	41.5		ug/L		83	60 - 140
1,1,1-Trichloroethane	50.0	65.1		ug/L		130	68 - 130
1,1,2-Trichloroethane	50.0	52.2		ug/L		104	70 - 130
Trichloroethene	50.0	57.9		ug/L		116	70 - 130

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

Lab Sample ID: LCS 400-279924/1002
Matrix: Water
Analysis Batch: 279924

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	56.4		ug/L		113	65 - 138
1,2,3-Trichloropropane	50.0	46.4		ug/L		93	70 - 130
1,2,4-Trimethylbenzene	50.0	48.9		ug/L		98	70 - 130
1,3,5-Trimethylbenzene	50.0	48.1		ug/L		96	69 - 130
Vinyl acetate	100	102		ug/L		102	26 - 160
Vinyl chloride	50.0	52.6		ug/L		105	59 - 136
Xylenes, Total	100	117		ug/L		117	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*78 - 118*
Dibromofluoromethane	*105*		*81 - 121*
Toluene-d8 (Surr)	*94*		*80 - 120*

Lab Sample ID: 400-112311-4 MS
Matrix: Water
Analysis Batch: 279924

Client Sample ID: MW5-ROX-101215
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		200	145		ug/L		72	43 - 160
Acrolein	ND		500	543		ug/L		109	38 - 160
Acrylonitrile	ND		500	497		ug/L		99	62 - 149
Benzene	8.8		50.0	64.3		ug/L		111	56 - 142
Bromobenzene	ND		50.0	40.1		ug/L		80	59 - 136
Bromochloromethane	ND		50.0	56.9		ug/L		114	64 - 140
Bromodichloromethane	ND		50.0	64.0		ug/L		128	59 - 143
Bromoform	ND		50.0	45.0		ug/L		90	50 - 140
Bromomethane	ND		50.0	65.5		ug/L		131	10 - 160
2-Butanone (MEK)	ND		200	213		ug/L		106	55 - 150
Carbon disulfide	ND		50.0	55.6		ug/L		111	48 - 152
Carbon tetrachloride	ND		50.0	67.5		ug/L		135	55 - 145
Chlorobenzene	ND		50.0	54.3		ug/L		109	64 - 130
Chloroethane	ND		50.0	46.6		ug/L		93	50 - 151
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160
Chloroform	0.79	J	50.0	58.0		ug/L		114	60 - 141
1-Chlorohexane	ND		50.0	52.7		ug/L		105	56 - 136
Chloromethane	ND		50.0	44.4		ug/L		89	49 - 148
cis-1,2-Dichloroethene	ND		50.0	56.3		ug/L		113	59 - 143
cis-1,3-Dichloropropene	ND		50.0	59.8		ug/L		120	57 - 140
Dibromochloromethane	ND		50.0	56.5		ug/L		113	56 - 143
1,2-Dichlorobenzene	ND		50.0	42.4		ug/L		85	52 - 137
1,3-Dichlorobenzene	ND		50.0	42.7		ug/L		85	54 - 135
1,4-Dichlorobenzene	ND		50.0	46.4		ug/L		93	53 - 135
Dichlorodifluoromethane	ND		50.0	55.4		ug/L		111	16 - 160
1,1-Dichloroethane	ND		50.0	54.5		ug/L		109	61 - 144
1,2-Dichloroethane	ND		50.0	59.3		ug/L		119	60 - 141
1,1-Dichloroethene	ND		50.0	54.6		ug/L		109	54 - 147
1,2-Dichloropropane	ND		50.0	53.8		ug/L		108	66 - 137
1,3-Dichloropropane	ND		50.0	53.6		ug/L		107	66 - 133

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

Lab Sample ID: 400-112311-4 MS
Matrix: Water
Analysis Batch: 279924

Client Sample ID: MW5-ROX-101215
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	ND		50.0	60.6		ug/L		121	42 - 144
1,1-Dichloropropene	ND		50.0	60.2		ug/L		120	65 - 136
Ethylbenzene	1.2		50.0	58.6		ug/L		115	58 - 131
Ethyl methacrylate	ND		50.0	56.1		ug/L		112	64 - 130
Hexachlorobutadiene	ND		50.0	35.8		ug/L		72	31 - 149
2-Hexanone	ND		200	186		ug/L		93	65 - 140
Isopropylbenzene	3.1		50.0	60.4		ug/L		115	56 - 133
Methylene bromide	ND		50.0	57.5		ug/L		115	63 - 138
Methylene chloride	ND		50.0	55.7		ug/L		111	60 - 146
4-Methyl-2-pentanone (MIBK)	ND		200	222		ug/L		111	63 - 146
Methyl tert-butyl ether	21		50.0	76.9		ug/L		111	59 - 137
m-Xylene & p-Xylene	4.4	J	50.0	62.9		ug/L		117	57 - 130
Naphthalene	ND		50.0	42.0		ug/L		84	25 - 160
n-Butylbenzene	ND		50.0	44.5		ug/L		89	41 - 142
N-Propylbenzene	ND		50.0	49.4		ug/L		99	51 - 138
o-Chlorotoluene	ND		50.0	47.5		ug/L		95	53 - 134
o-Xylene	ND		50.0	59.6		ug/L		119	61 - 130
p-Chlorotoluene	ND		50.0	48.6		ug/L		97	54 - 133
p-Isopropyltoluene	ND		50.0	48.8		ug/L		98	48 - 139
sec-Butylbenzene	ND		50.0	47.4		ug/L		95	50 - 138
Styrene	ND		50.0	55.6		ug/L		111	58 - 131
tert-Butylbenzene	3.5		50.0	52.0		ug/L		97	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	57.7		ug/L		115	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	45.2		ug/L		90	66 - 135
Tetrachloroethene	ND		50.0	47.2		ug/L		94	52 - 133
Toluene	1.9		50.0	55.8		ug/L		108	65 - 130
trans-1,2-Dichloroethene	ND		50.0	55.0		ug/L		110	61 - 143
trans-1,3-Dichloropropene	ND		50.0	52.3		ug/L		105	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	38.5		ug/L		77	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	37.2		ug/L		74	39 - 148
1,1,1-Trichloroethane	ND		50.0	63.0		ug/L		126	57 - 142
1,1,2-Trichloroethane	ND		50.0	54.1		ug/L		108	66 - 131
Trichloroethene	ND		50.0	56.0		ug/L		112	64 - 136
Trichlorofluoromethane	ND		50.0	56.7		ug/L		113	54 - 156
1,2,3-Trichloropropane	ND		50.0	48.3		ug/L		97	65 - 133
1,2,4-Trimethylbenzene	ND		50.0	47.4		ug/L		95	50 - 139
1,3,5-Trimethylbenzene	ND		50.0	47.1		ug/L		94	52 - 135
Vinyl acetate	ND		100	105		ug/L		105	26 - 160
Vinyl chloride	ND		50.0	51.5		ug/L		103	46 - 152
Xylenes, Total	4.4	J	100	122		ug/L		118	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*78 - 118*
Dibromofluoromethane	*102*		*81 - 121*
Toluene-d8 (Surr)	*94*		*80 - 120*

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

Lab Sample ID: 400-112311-4 MSD
Matrix: Water
Analysis Batch: 279924

Client Sample ID: MW5-ROX-101215
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		200	138		ug/L		69	43 - 160	5	30
Acrolein	ND		500	544		ug/L		109	38 - 160	0	31
Acrylonitrile	ND		500	480		ug/L		96	62 - 149	3	30
Benzene	8.8		50.0	62.9		ug/L		108	56 - 142	2	30
Bromobenzene	ND		50.0	40.6		ug/L		81	59 - 136	1	30
Bromochloromethane	ND		50.0	55.0		ug/L		110	64 - 140	3	30
Bromodichloromethane	ND		50.0	62.8		ug/L		126	59 - 143	2	30
Bromoform	ND		50.0	44.3		ug/L		89	50 - 140	2	30
Bromomethane	ND		50.0	65.4		ug/L		131	10 - 160	0	50
2-Butanone (MEK)	ND		200	201		ug/L		101	55 - 150	6	30
Carbon disulfide	ND		50.0	54.6		ug/L		109	48 - 152	2	30
Carbon tetrachloride	ND		50.0	64.7		ug/L		129	55 - 145	4	30
Chlorobenzene	ND		50.0	54.0		ug/L		108	64 - 130	0	30
Chloroethane	ND		50.0	47.1		ug/L		94	50 - 151	1	30
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160	NC	50
Chloroform	0.79	J	50.0	56.9		ug/L		112	60 - 141	2	30
1-Chlorohexane	ND		50.0	52.3		ug/L		105	56 - 136	1	30
Chloromethane	ND		50.0	45.7		ug/L		91	49 - 148	3	31
cis-1,2-Dichloroethene	ND		50.0	55.1		ug/L		110	59 - 143	2	30
cis-1,3-Dichloropropene	ND		50.0	60.0		ug/L		120	57 - 140	0	30
Dibromochloromethane	ND		50.0	55.6		ug/L		111	56 - 143	2	30
1,2-Dichlorobenzene	ND		50.0	43.0		ug/L		86	52 - 137	1	30
1,3-Dichlorobenzene	ND		50.0	43.7		ug/L		87	54 - 135	2	30
1,4-Dichlorobenzene	ND		50.0	47.7		ug/L		95	53 - 135	3	30
Dichlorodifluoromethane	ND		50.0	57.3		ug/L		115	16 - 160	3	31
1,1-Dichloroethane	ND		50.0	53.7		ug/L		107	61 - 144	2	30
1,2-Dichloroethane	ND		50.0	57.1		ug/L		114	60 - 141	4	30
1,1-Dichloroethene	ND		50.0	55.2		ug/L		110	54 - 147	1	30
1,2-Dichloropropane	ND		50.0	52.8		ug/L		106	66 - 137	2	30
1,3-Dichloropropane	ND		50.0	52.2		ug/L		104	66 - 133	3	30
2,2-Dichloropropane	ND		50.0	60.2		ug/L		120	42 - 144	1	31
1,1-Dichloropropene	ND		50.0	59.3		ug/L		119	65 - 136	1	30
Ethylbenzene	1.2		50.0	57.7		ug/L		113	58 - 131	1	30
Ethyl methacrylate	ND		50.0	54.9		ug/L		110	64 - 130	2	30
Hexachlorobutadiene	ND		50.0	48.7		ug/L		97	31 - 149	31	36
2-Hexanone	ND		200	175		ug/L		88	65 - 140	6	30
Isopropylbenzene	3.1		50.0	60.1		ug/L		114	56 - 133	1	30
Methylene bromide	ND		50.0	56.3		ug/L		113	63 - 138	2	30
Methylene chloride	ND		50.0	54.5		ug/L		109	60 - 146	2	32
4-Methyl-2-pentanone (MIBK)	ND		200	209		ug/L		104	63 - 146	6	30
Methyl tert-butyl ether	21		50.0	76.7		ug/L		111	59 - 137	0	30
m-Xylene & p-Xylene	4.4	J	50.0	62.2		ug/L		116	57 - 130	1	30
Naphthalene	ND		50.0	44.7		ug/L		89	25 - 160	6	30
n-Butylbenzene	ND		50.0	48.4		ug/L		97	41 - 142	8	31
N-Propylbenzene	ND		50.0	49.6		ug/L		99	51 - 138	0	30
o-Chlorotoluene	ND		50.0	47.4		ug/L		95	53 - 134	0	30
o-Xylene	ND		50.0	58.6		ug/L		117	61 - 130	2	30
p-Chlorotoluene	ND		50.0	48.9		ug/L		98	54 - 133	1	30

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

Lab Sample ID: 400-112311-4 MSD
Matrix: Water
Analysis Batch: 279924

Client Sample ID: MW5-ROX-101215
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
p-Isopropyltoluene	ND		50.0	51.1		ug/L		102	48 - 139	5	30
sec-Butylbenzene	ND		50.0	49.4		ug/L		99	50 - 138	4	30
Styrene	ND		50.0	54.7		ug/L		109	58 - 131	2	30
tert-Butylbenzene	3.5		50.0	53.1		ug/L		99	54 - 146	2	30
1,1,1,2-Tetrachloroethane	ND		50.0	57.7		ug/L		115	59 - 137	0	30
1,1,2,2-Tetrachloroethane	ND		50.0	43.9		ug/L		88	66 - 135	3	30
Tetrachloroethene	ND		50.0	46.6		ug/L		93	52 - 133	1	30
Toluene	1.9		50.0	54.7		ug/L		106	65 - 130	2	30
trans-1,2-Dichloroethene	ND		50.0	55.3		ug/L		111	61 - 143	1	30
trans-1,3-Dichloropropene	ND		50.0	51.3		ug/L		103	53 - 133	2	30
1,2,3-Trichlorobenzene	ND		50.0	46.1		ug/L		92	43 - 145	18	30
1,2,4-Trichlorobenzene	ND		50.0	43.9		ug/L		88	39 - 148	16	30
1,1,1-Trichloroethane	ND		50.0	61.8		ug/L		124	57 - 142	2	30
1,1,2-Trichloroethane	ND		50.0	52.2		ug/L		104	66 - 131	4	30
Trichloroethene	ND		50.0	56.1		ug/L		112	64 - 136	0	30
Trichlorofluoromethane	ND		50.0	55.4		ug/L		111	54 - 156	2	30
1,2,3-Trichloropropane	ND		50.0	46.6		ug/L		93	65 - 133	3	30
1,2,4-Trimethylbenzene	ND		50.0	48.0		ug/L		96	50 - 139	1	30
1,3,5-Trimethylbenzene	ND		50.0	47.7		ug/L		95	52 - 135	1	30
Vinyl acetate	ND		100	108		ug/L		108	26 - 160	3	33
Vinyl chloride	ND		50.0	51.9		ug/L		104	46 - 152	1	30
Xylenes, Total	4.4	J	100	121		ug/L		116	59 - 130	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*78 - 118*
Dibromofluoromethane	*104*		*81 - 121*
Toluene-d8 (Surr)	*95*		*80 - 120*

Lab Sample ID: MB 400-280082/4
Matrix: Water
Analysis Batch: 280082

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/22/15 17:17	1
o-Xylene	ND		5.0	0.60	ug/L			10/22/15 17:17	1
Xylenes, Total	ND		10	1.6	ug/L			10/22/15 17:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*78 - 118*		*10/22/15 17:17*	*1*
Dibromofluoromethane	*104*		*81 - 121*		*10/22/15 17:17*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*10/22/15 17:17*	*1*

Lab Sample ID: LCS 400-280082/1002
Matrix: Water
Analysis Batch: 280082

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	50.0	58.9		ug/L		118	70 - 130

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

Lab Sample ID: LCS 400-280082/1002
Matrix: Water
Analysis Batch: 280082

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	50.0	59.3		ug/L		119	70 - 130
Xylenes, Total	100	118		ug/L		118	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*78 - 118*
Dibromofluoromethane	*105*		*81 - 121*
Toluene-d8 (Surr)	*93*		*80 - 120*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-278758/1-A
Matrix: Water
Analysis Batch: 278897

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278758

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/14/15 10:33	10/15/15 17:27	1
Benzenethiol	ND		10	1.7	ug/L		10/14/15 10:33	10/15/15 17:27	1
Benzoic acid	ND		30	7.3	ug/L		10/14/15 10:33	10/15/15 17:27	1
Benzyl alcohol	ND		10	2.0	ug/L		10/14/15 10:33	10/15/15 17:27	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/14/15 10:33	10/15/15 17:27	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/14/15 10:33	10/15/15 17:27	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/14/15 10:33	10/15/15 17:27	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/14/15 10:33	10/15/15 17:27	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/14/15 10:33	10/15/15 17:27	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/14/15 10:33	10/15/15 17:27	1
4-Chloroaniline	ND		10	3.4	ug/L		10/14/15 10:33	10/15/15 17:27	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/14/15 10:33	10/15/15 17:27	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/14/15 10:33	10/15/15 17:27	1
2-Chlorophenol	ND		10	2.2	ug/L		10/14/15 10:33	10/15/15 17:27	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/14/15 10:33	10/15/15 17:27	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/14/15 10:33	10/15/15 17:27	1
Dibenzofuran	ND		10	0.52	ug/L		10/14/15 10:33	10/15/15 17:27	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/14/15 10:33	10/15/15 17:27	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/14/15 10:33	10/15/15 17:27	1
Diethyl phthalate	ND		10	0.70	ug/L		10/14/15 10:33	10/15/15 17:27	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/14/15 10:33	10/15/15 17:27	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/14/15 10:33	10/15/15 17:27	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/14/15 10:33	10/15/15 17:27	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/14/15 10:33	10/15/15 17:27	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/14/15 10:33	10/15/15 17:27	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/14/15 10:33	10/15/15 17:27	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/14/15 10:33	10/15/15 17:27	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/14/15 10:33	10/15/15 17:27	1
1,4-Dioxane	ND		10	1.0	ug/L		10/14/15 10:33	10/15/15 17:27	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/14/15 10:33	10/15/15 17:27	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/14/15 10:33	10/15/15 17:27	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/14/15 10:33	10/15/15 17:27	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-278758/1-A
Matrix: Water
Analysis Batch: 278897

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278758

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	ND		10	4.2	ug/L		10/14/15 10:33	10/15/15 17:27	1
Indene	ND		10	1.0	ug/L		10/14/15 10:33	10/15/15 17:27	1
Isophorone	ND		10	0.57	ug/L		10/14/15 10:33	10/15/15 17:27	1
2-Methylphenol	ND		10	1.8	ug/L		10/14/15 10:33	10/15/15 17:27	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/14/15 10:33	10/15/15 17:27	1
2-Nitroaniline	ND		10	2.2	ug/L		10/14/15 10:33	10/15/15 17:27	1
3-Nitroaniline	ND		10	1.8	ug/L		10/14/15 10:33	10/15/15 17:27	1
4-Nitroaniline	ND		10	2.5	ug/L		10/14/15 10:33	10/15/15 17:27	1
Nitrobenzene	ND		10	0.55	ug/L		10/14/15 10:33	10/15/15 17:27	1
2-Nitrophenol	ND		10	0.65	ug/L		10/14/15 10:33	10/15/15 17:27	1
4-Nitrophenol	ND		10	2.1	ug/L		10/14/15 10:33	10/15/15 17:27	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/14/15 10:33	10/15/15 17:27	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/14/15 10:33	10/15/15 17:27	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/14/15 10:33	10/15/15 17:27	1
Pentachlorophenol	ND		20	1.8	ug/L		10/14/15 10:33	10/15/15 17:27	1
Phenol	ND		10	2.6	ug/L		10/14/15 10:33	10/15/15 17:27	1
Pyridine	ND		10	3.2	ug/L		10/14/15 10:33	10/15/15 17:27	1
Quinoline	ND		10	6.0	ug/L		10/14/15 10:33	10/15/15 17:27	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/14/15 10:33	10/15/15 17:27	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/14/15 10:33	10/15/15 17:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*70*		*10 - 120*	*10/14/15 10:33*	*10/15/15 17:27*	*1*
2-Fluorobiphenyl	*93*		*34 - 120*	*10/14/15 10:33*	*10/15/15 17:27*	*1*
2,4,6-Tribromophenol	*87*		*15 - 135*	*10/14/15 10:33*	*10/15/15 17:27*	*1*
Nitrobenzene-d5	*100*		*27 - 120*	*10/14/15 10:33*	*10/15/15 17:27*	*1*
Phenol-d5	*72*		*10 - 120*	*10/14/15 10:33*	*10/15/15 17:27*	*1*
Terphenyl-d14	*109*		*53 - 125*	*10/14/15 10:33*	*10/15/15 17:27*	*1*

Lab Sample ID: LCS 400-278758/2-A
Matrix: Water
Analysis Batch: 278897

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278758

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	30.0	23.3		ug/L		78	10 - 145
Benzyl alcohol	30.0	24.2		ug/L		81	51 - 121
Bis(2-chloroethoxy)methane	30.0	26.8		ug/L		89	54 - 123
Bis(2-chloroethyl)ether	30.0	25.5		ug/L		85	47 - 120
bis (2-chloroisopropyl) ether	30.0	26.7		ug/L		89	20 - 142
Bis(2-ethylhexyl) phthalate	30.0	29.6		ug/L		99	62 - 140
4-Bromophenyl phenyl ether	30.0	28.4		ug/L		95	62 - 132
Butyl benzyl phthalate	30.0	29.6		ug/L		99	51 - 150
4-Chloroaniline	30.0	23.9		ug/L		80	32 - 128
4-Chloro-3-methylphenol	30.0	28.5		ug/L		95	47 - 135
2-Chloronaphthalene	30.0	26.8		ug/L		89	24 - 150
2-Chlorophenol	30.0	24.2		ug/L		81	45 - 120
4-Chlorophenyl phenyl ether	30.0	28.5		ug/L		95	61 - 133
Dibenzofuran	30.0	28.2		ug/L		94	62 - 124

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-278758/2-A
Matrix: Water
Analysis Batch: 278897

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278758

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
3,3'-Dichlorobenzidine	30.0	35.4		ug/L		118	16 - 167
2,4-Dichlorophenol	30.0	26.5		ug/L		88	52 - 125
Diethyl phthalate	30.0	30.1		ug/L		100	55 - 140
2,4-Dimethylphenol	30.0	25.0		ug/L		83	52 - 121
Dimethyl phthalate	30.0	28.1		ug/L		94	50 - 133
Di-n-butyl phthalate	30.0	29.4		ug/L		98	59 - 144
4,6-Dinitro-o-cresol	60.0	50.7		ug/L		84	46 - 136
2,4-Dinitrophenol	86.0	67.1		ug/L		78	22 - 146
2,4-Dinitrotoluene	30.0	30.6		ug/L		102	54 - 141
2,6-Dinitrotoluene	30.0	29.3		ug/L		98	61 - 130
Di-n-octyl phthalate	30.0	30.7		ug/L		102	55 - 140
1,4-Dioxane	30.0	21.3		ug/L		71	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	30.0	27.4		ug/L		91	55 - 139
Hexachlorobenzene	30.0	29.0		ug/L		97	60 - 138
Hexachlorocyclopentadiene	30.0	10.7	J	ug/L		36	1 - 139
Hexachloroethane	30.0	18.5		ug/L		62	46 - 121
Indene	30.0	24.9		ug/L		83	17 - 141
Isophorone	30.0	28.4		ug/L		95	57 - 122
2-Methylphenol	30.0	26.9		ug/L		90	38 - 121
3 & 4 Methylphenol	30.0	24.1		ug/L		80	43 - 126
2-Nitroaniline	30.0	29.3		ug/L		98	52 - 135
3-Nitroaniline	30.0	30.7		ug/L		102	51 - 128
4-Nitroaniline	30.0	30.4		ug/L		101	38 - 141
Nitrobenzene	30.0	27.2		ug/L		91	52 - 128
2-Nitrophenol	30.0	26.1		ug/L		87	47 - 129
4-Nitrophenol	60.0	46.9		ug/L		78	34 - 137
N-Nitrosodimethylamine	30.0	24.6		ug/L		82	21 - 134
N-Nitrosodi-n-propylamine	30.0	27.9		ug/L		93	41 - 143
N-Nitrosodiphenylamine	60.0	52.4		ug/L		87	10 - 185
Pentachlorophenol	60.0	50.3		ug/L		84	38 - 138
Phenol	30.0	21.5		ug/L		72	37 - 120
Pyridine	30.0	18.6		ug/L		62	10 - 127
2,4,5-Trichlorophenol	30.0	29.1		ug/L		97	53 - 130
2,4,6-Trichlorophenol	30.0	27.1		ug/L		90	52 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol	*71*		*10 - 120*
2-Fluorobiphenyl	*97*		*34 - 120*
2,4,6-Tribromophenol	*104*		*15 - 135*
Nitrobenzene-d5	*98*		*27 - 120*
Phenol-d5	*79*		*10 - 120*
Terphenyl-d14	*106*		*53 - 125*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-112311-4 MS
Matrix: Water
Analysis Batch: 278897

Client Sample ID: MW5-ROX-101215
Prep Type: Total/NA
Prep Batch: 278758

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	ND		30.0	20.4		ug/L		68	10 - 143
Benzyl alcohol	ND		30.0	19.7		ug/L		66	10 - 154
Bis(2-chloroethoxy)methane	ND		30.0	25.2		ug/L		84	14 - 147
Bis(2-chloroethyl)ether	ND		30.0	24.0		ug/L		80	28 - 130
bis (2-chloroisopropyl) ether	ND		30.0	24.7		ug/L		82	10 - 141
Bis(2-ethylhexyl) phthalate	ND		30.0	27.4		ug/L		91	43 - 160
4-Bromophenyl phenyl ether	ND		30.0	27.4		ug/L		91	26 - 159
Butyl benzyl phthalate	ND		30.0	27.6		ug/L		92	43 - 151
4-Chloroaniline	ND		30.0	14.7		ug/L		49	10 - 152
4-Chloro-3-methylphenol	ND		30.0	25.2		ug/L		84	17 - 156
2-Chloronaphthalene	ND		30.0	25.4		ug/L		85	10 - 155
2-Chlorophenol	ND		30.0	20.5		ug/L		68	19 - 130
4-Chlorophenyl phenyl ether	ND		30.0	26.8		ug/L		89	25 - 161
Dibenzofuran	ND		30.0	27.0		ug/L		90	18 - 157
3,3'-Dichlorobenzidine	ND	F1	30.0	ND	F1	ug/L		0	10 - 172
2,4-Dichlorophenol	ND		30.0	22.3		ug/L		74	16 - 147
Diethyl phthalate	ND		30.0	25.9		ug/L		86	23 - 160
2,4-Dimethylphenol	ND		30.0	25.0		ug/L		83	25 - 146
Dimethyl phthalate	ND		30.0	23.8		ug/L		79	11 - 158
Di-n-butyl phthalate	ND		30.0	27.6		ug/L		92	28 - 162
4,6-Dinitro-o-cresol	ND		60.0	49.3		ug/L		82	10 - 168
2,4-Dinitrophenol	ND		86.0	65.0		ug/L		76	10 - 166
2,4-Dinitrotoluene	ND		30.0	27.0		ug/L		90	26 - 158
2,6-Dinitrotoluene	ND		30.0	25.1		ug/L		84	19 - 157
Di-n-octyl phthalate	ND		30.0	28.2		ug/L		94	42 - 150
1,4-Dioxane	ND		30.0	18.9		ug/L		63	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	ND		30.0	26.8		ug/L		89	19 - 162
Hexachlorobenzene	ND		30.0	27.3		ug/L		91	45 - 145
Hexachlorocyclopentadiene	ND		30.0	10.3	J	ug/L		34	10 - 151
Hexachloroethane	ND		30.0	20.1		ug/L		67	29 - 130
Indene	ND		30.0	23.8		ug/L		79	22 - 130
Isophorone	ND		30.0	26.6		ug/L		89	24 - 144
2-Methylphenol	ND		30.0	26.7		ug/L		89	22 - 130
3 & 4 Methylphenol	ND		30.0	21.5		ug/L		72	31 - 130
2-Nitroaniline	ND		30.0	24.2		ug/L		81	10 - 162
3-Nitroaniline	ND		30.0	15.5		ug/L		52	10 - 163
4-Nitroaniline	ND		30.0	16.1		ug/L		54	10 - 162
Nitrobenzene	ND		30.0	22.3		ug/L		74	34 - 135
2-Nitrophenol	ND		30.0	22.5		ug/L		75	27 - 134
4-Nitrophenol	ND		60.0	45.3		ug/L		75	10 - 175
N-Nitrosodimethylamine	ND		30.0	23.2		ug/L		77	10 - 139
N-Nitrosodi-n-propylamine	ND		30.0	26.3		ug/L		88	13 - 147
N-Nitrosodiphenylamine	ND		60.0	51.7		ug/L		86	31 - 150
Pentachlorophenol	ND		60.0	56.7		ug/L		95	10 - 180
Phenol	ND		30.0	18.7		ug/L		62	23 - 130
Pyridine	ND		30.0	19.9		ug/L		66	10 - 130
2,4,5-Trichlorophenol	ND		30.0	26.0		ug/L		87	43 - 137

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-112311-4 MS
Matrix: Water
Analysis Batch: 278897

Client Sample ID: MW5-ROX-101215
Prep Type: Total/NA
Prep Batch: 278758

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,6-Trichlorophenol	ND		30.0	23.3		ug/L		78	42 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorophenol	*63*		*10 - 120*
2-Fluorobiphenyl	*93*		*34 - 120*
2,4,6-Tribromophenol	*98*		*15 - 135*
Nitrobenzene-d5	*85*		*27 - 120*
Phenol-d5	*74*		*10 - 120*
Terphenyl-d14	*83*		*53 - 125*

Lab Sample ID: 400-112311-4 MSD
Matrix: Water
Analysis Batch: 278897

Client Sample ID: MW5-ROX-101215
Prep Type: Total/NA
Prep Batch: 278758

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	ND		30.0	18.4		ug/L		61	10 - 143	10	63
Benzyl alcohol	ND		30.0	23.3		ug/L		78	10 - 154	17	37
Bis(2-chloroethoxy)methane	ND		30.0	24.3		ug/L		81	14 - 147	4	70
Bis(2-chloroethyl)ether	ND		30.0	23.1		ug/L		77	28 - 130	4	42
bis (2-chloroisopropyl) ether	ND		30.0	24.0		ug/L		80	10 - 141	3	41
Bis(2-ethylhexyl) phthalate	ND		30.0	28.1		ug/L		94	43 - 160	2	35
4-Bromophenyl phenyl ether	ND		30.0	28.0		ug/L		93	26 - 159	2	30
Butyl benzyl phthalate	ND		30.0	28.6		ug/L		95	43 - 151	4	32
4-Chloroaniline	ND		30.0	14.1		ug/L		47	10 - 152	4	94
4-Chloro-3-methylphenol	ND		30.0	21.2		ug/L		71	17 - 156	17	40
2-Chloronaphthalene	ND		30.0	26.0		ug/L		87	10 - 155	2	29
2-Chlorophenol	ND		30.0	17.7		ug/L		59	19 - 130	15	42
4-Chlorophenyl phenyl ether	ND		30.0	27.5		ug/L		92	25 - 161	2	27
Dibenzofuran	ND		30.0	27.2		ug/L		91	18 - 157	1	29
3,3'-Dichlorobenzidine	ND	F1	30.0	ND	F1	ug/L		0	10 - 172	NC	58
2,4-Dichlorophenol	ND		30.0	19.0		ug/L		63	16 - 147	16	43
Diethyl phthalate	ND		30.0	25.4		ug/L		85	23 - 160	2	40
2,4-Dimethylphenol	ND		30.0	22.1		ug/L		74	25 - 146	13	47
Dimethyl phthalate	ND		30.0	20.9		ug/L		70	11 - 158	13	36
Di-n-butyl phthalate	ND		30.0	27.7		ug/L		92	28 - 162	0	32
4,6-Dinitro-o-cresol	ND		60.0	43.3		ug/L		72	10 - 168	13	42
2,4-Dinitrophenol	ND		86.0	51.7		ug/L		60	10 - 166	23	36
2,4-Dinitrotoluene	ND		30.0	25.4		ug/L		85	26 - 158	6	28
2,6-Dinitrotoluene	ND		30.0	23.4		ug/L		78	19 - 157	7	28
Di-n-octyl phthalate	ND		30.0	28.9		ug/L		96	42 - 150	2	35
1,4-Dioxane	ND		30.0	18.1		ug/L		60	10 - 130	4	40
1,2-Diphenylhydrazine (as Azobenzene)	ND		30.0	26.5		ug/L		88	19 - 162	1	40
Hexachlorobenzene	ND		30.0	26.9		ug/L		90	45 - 145	2	33
Hexachlorocyclopentadiene	ND		30.0	10.2	J	ug/L		34	10 - 151	1	50
Hexachloroethane	ND		30.0	21.1		ug/L		70	29 - 130	5	41
Indene	ND		30.0	24.5		ug/L		82	22 - 130	3	40
Isophorone	ND		30.0	25.6		ug/L		85	24 - 144	4	33

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-112311-4 MSD
Matrix: Water
Analysis Batch: 278897

Client Sample ID: MW5-ROX-101215
Prep Type: Total/NA
Prep Batch: 278758

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylphenol	ND		30.0	19.5		ug/L		65	22 - 130	31	47
3 & 4 Methylphenol	ND		30.0	17.5	J	ug/L		58	31 - 130	20	47
2-Nitroaniline	ND		30.0	20.4		ug/L		68	10 - 162	17	33
3-Nitroaniline	ND		30.0	13.7		ug/L		46	10 - 163	13	39
4-Nitroaniline	ND		30.0	13.0		ug/L		43	10 - 162	22	50
Nitrobenzene	ND		30.0	19.6		ug/L		65	34 - 135	13	35
2-Nitrophenol	ND		30.0	19.3		ug/L		64	27 - 134	15	43
4-Nitrophenol	ND		60.0	32.4		ug/L		54	10 - 175	33	82
N-Nitrosodimethylamine	ND		30.0	18.8		ug/L		63	10 - 139	21	62
N-Nitrosodi-n-propylamine	ND		30.0	25.6		ug/L		85	13 - 147	3	36
N-Nitrosodiphenylamine	ND		60.0	51.4		ug/L		86	31 - 150	1	34
Pentachlorophenol	ND		60.0	53.3		ug/L		89	10 - 180	6	42
Phenol	ND		30.0	14.9		ug/L		50	23 - 130	22	52
Pyridine	ND		30.0	16.7		ug/L		56	10 - 130	17	55
2,4,5-Trichlorophenol	ND		30.0	21.8		ug/L		73	43 - 137	17	42
2,4,6-Trichlorophenol	ND		30.0	20.8		ug/L		69	42 - 135	11	44

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorophenol	*50*		*10 - 120*
2-Fluorobiphenyl	*90*		*34 - 120*
2,4,6-Tribromophenol	*78*		*15 - 135*
Nitrobenzene-d5	*68*		*27 - 120*
Phenol-d5	*56*		*10 - 120*
Terphenyl-d14	*71*		*53 - 125*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 400-278758/1-A
Matrix: Water
Analysis Batch: 279108

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278758

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 03:26	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 03:26	1
Anthracene	ND		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 03:26	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 03:26	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 03:26	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 03:26	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 03:26	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 03:26	1
Chrysene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 03:26	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 03:26	1
Fluoranthene	ND		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 03:26	1
Fluorene	ND		0.20	0.021	ug/L		10/14/15 10:33	10/17/15 03:26	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/14/15 10:33	10/17/15 03:26	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 03:26	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 03:26	1
Phenanthrene	ND		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 03:26	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 400-278758/1-A
Matrix: Water
Analysis Batch: 279108

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278758

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		0.20	0.020	ug/L		10/14/15 10:33	10/17/15 03:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*41*		*15 - 122*	*10/14/15 10:33*	*10/17/15 03:26*	*1*
Nitrobenzene-d5	*40*		*19 - 130*	*10/14/15 10:33*	*10/17/15 03:26*	*1*
Terphenyl-d14	*48*		*33 - 138*	*10/14/15 10:33*	*10/17/15 03:26*	*1*

Lab Sample ID: LCS 400-278758/2-A
Matrix: Water
Analysis Batch: 279108

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278758

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	30.0	26.2		ug/L		87	41 - 120
Acenaphthylene	30.0	26.6		ug/L		89	44 - 120
Anthracene	30.0	25.9		ug/L		86	49 - 120
Benzo[a]anthracene	30.0	27.6		ug/L		92	61 - 135
Benzo[a]pyrene	30.0	25.8		ug/L		86	52 - 120
Benzo[b]fluoranthene	30.0	25.2		ug/L		84	53 - 134
Benzo[g,h,i]perylene	30.0	24.3		ug/L		81	47 - 133
Benzo[k]fluoranthene	30.0	27.6		ug/L		92	57 - 134
Chrysene	30.0	27.3		ug/L		91	55 - 122
Dibenz(a,h)anthracene	30.0	24.6		ug/L		82	48 - 146
Fluoranthene	30.0	27.8		ug/L		93	54 - 128
Fluorene	30.0	28.0		ug/L		93	45 - 125
Indeno[1,2,3-cd]pyrene	30.0	23.8		ug/L		79	43 - 142
1-Methylnaphthalene	30.0	26.5		ug/L		88	41 - 120
2-Methylnaphthalene	30.0	26.2		ug/L		87	32 - 124
Phenanthrene	30.0	25.7		ug/L		86	48 - 120
Pyrene	30.0	26.9		ug/L		90	48 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*94*		*15 - 122*
Nitrobenzene-d5	*80*		*19 - 130*
Terphenyl-d14	*96*		*33 - 138*

Lab Sample ID: 400-112311-4 MS
Matrix: Water
Analysis Batch: 280303

Client Sample ID: MW5-ROX-101215
Prep Type: Total/NA
Prep Batch: 278758

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		30.0	29.4		ug/L		98	35 - 113
Acenaphthylene	ND		30.0	29.8		ug/L		99	41 - 118
Anthracene	ND		30.0	28.6		ug/L		95	45 - 122
Benzo[a]anthracene	ND		30.0	26.3		ug/L		88	55 - 133
Benzo[a]pyrene	0.080	J	30.0	27.2		ug/L		90	50 - 108
Benzo[b]fluoranthene	0.088	J	30.0	28.4		ug/L		94	50 - 128
Benzo[g,h,i]perylene	0.087	J	30.0	17.5		ug/L		58	46 - 133
Benzo[k]fluoranthene	0.088	J	30.0	26.6		ug/L		88	52 - 128

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: 400-112311-4 MS
Matrix: Water
Analysis Batch: 280303

Client Sample ID: MW5-ROX-101215
Prep Type: Total/NA
Prep Batch: 278758

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	0.071	J	30.0	28.5		ug/L		95	52 - 116
Dibenz(a,h)anthracene	0.078	J	30.0	23.0		ug/L		77	52 - 143
Fluoranthene	0.055	J	30.0	27.7		ug/L		92	32 - 150
Fluorene	ND		30.0	32.9		ug/L		110	15 - 150
Indeno[1,2,3-cd]pyrene	0.086	J	30.0	21.4		ug/L		71	41 - 141
1-Methylnaphthalene	0.16	J	30.0	27.9		ug/L		93	10 - 150
2-Methylnaphthalene	ND		30.0	28.3		ug/L		94	10 - 150
Phenanthrene	ND		30.0	28.3		ug/L		94	36 - 125
Pyrene	ND		30.0	29.4		ug/L		98	41 - 127

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*99*		*15 - 122*
Nitrobenzene-d5	*99*		*19 - 130*
Terphenyl-d14	*76*		*33 - 138*

Lab Sample ID: 400-112311-4 MSD
Matrix: Water
Analysis Batch: 280303

Client Sample ID: MW5-ROX-101215
Prep Type: Total/NA
Prep Batch: 278758

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		30.0	29.4		ug/L		98	35 - 113	0	49
Acenaphthylene	ND		30.0	30.0		ug/L		100	41 - 118	1	48
Anthracene	ND		30.0	28.5		ug/L		95	45 - 122	0	56
Benzo[a]anthracene	ND		30.0	26.4		ug/L		88	55 - 133	0	57
Benzo[a]pyrene	0.080	J	30.0	27.2		ug/L		90	50 - 108	0	59
Benzo[b]fluoranthene	0.088	J	30.0	29.2		ug/L		97	50 - 128	3	62
Benzo[g,h,i]perylene	0.087	J	30.0	16.9		ug/L		56	46 - 133	3	58
Benzo[k]fluoranthene	0.088	J	30.0	26.2		ug/L		87	52 - 128	1	58
Chrysene	0.071	J	30.0	28.9		ug/L		96	52 - 116	1	59
Dibenz(a,h)anthracene	0.078	J	30.0	22.8		ug/L		76	52 - 143	1	60
Fluoranthene	0.055	J	30.0	28.0		ug/L		93	32 - 150	1	59
Fluorene	ND		30.0	34.3		ug/L		114	15 - 150	4	49
Indeno[1,2,3-cd]pyrene	0.086	J	30.0	21.2		ug/L		70	41 - 141	1	58
1-Methylnaphthalene	0.16	J	30.0	28.6		ug/L		95	10 - 150	2	66
2-Methylnaphthalene	ND		30.0	28.9		ug/L		96	10 - 150	2	66
Phenanthrene	ND		30.0	27.8		ug/L		93	36 - 125	2	69
Pyrene	ND		30.0	28.3		ug/L		94	41 - 127	4	58

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*91*		*15 - 122*
Nitrobenzene-d5	*77*		*19 - 130*
Terphenyl-d14	*59*		*33 - 138*

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-279017/1-A
Matrix: Water
Analysis Batch: 279537

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279017

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/15/15 14:44	10/19/15 21:15	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/15/15 14:44	10/19/15 21:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*86*		*51 - 149*	*10/15/15 14:44*	*10/19/15 21:15*	*1*

Lab Sample ID: LCS 400-279017/2-A
Matrix: Water
Analysis Batch: 279537

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279017

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.100	0.123		ug/L		123	60 - 140
1,2-Dibromoethane	0.100	0.0843		ug/L		84	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*84*		*51 - 149*

Lab Sample ID: 400-112311-4 MS
Matrix: Water
Analysis Batch: 279537

Client Sample ID: MW5-ROX-101215
Prep Type: Total/NA
Prep Batch: 279017

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	ND		0.104	0.119		ug/L		115	65 - 135
1,2-Dibromoethane	ND		0.104	0.0980		ug/L		95	65 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*51 - 149*

Lab Sample ID: 400-112311-4 MSD
Matrix: Water
Analysis Batch: 279537

Client Sample ID: MW5-ROX-101215
Prep Type: Total/NA
Prep Batch: 279017

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	ND		0.0983	0.119		ug/L		121	65 - 135	NC	20
1,2-Dibromoethane	ND		0.0983	0.0918		ug/L		93	65 - 135	7	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*51 - 149*

Shell Oil Products Chain Of Custody Record

AECOM

LAB (LOCATION)
☐ XENCO ( )
☐ CALSCIENCE (TestAmerica Pensacola; 3355 McLemore Dr.)
☑ OTHER (Pensacola, FL 32514 (850-474-1001))
☐ SPL ( )
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES | ☐ MOTIVA RETAIL | ☐ SHELL RETAIL
☐ MOTIVA SD&CM | ☐ CONSULTANT | ☐ LUBES
☐ SHELL PIPELINE | ☐ OTHER

Print Bill To Contact Name: Bob Billman
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 12Oct. 2015
PO #: 60400249-21563720.03004
SAP #: 3 4 0 0 6 1
PAGE: 1 of 1

SAMPLING COMPANY: AECOM
LOG CODE:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: bob.billman@aecom.com; elizabeth.kunkel@aecom.com; lindsay.rathnow@aecom.com

SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA
State: IL
GLOBAL ID NO.:
EDF DELIVERABLE TO (Name, Company, Office Location):
PHONE NO.:
E-MAIL:
CONSULTANT PROJECT NO.: Roxana Quarterly GW / 60400249-21563720.03004

SAMPLER NAME(S) (Print): S. Fisher / D. Haxel
LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND
☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD
TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
* Please include "J" values on Reports.
* Please provide sample receipt upon login.

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

400-112311 COC

FIELD NOTES:
TEMPERATURE ON RECEIPT C°

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260	VOC 8011	SVOC 8270	PAH 8270LL	Comments
	TB-ROX-101215-8260	10/9/15	0000	Water	2					2	X				
	TB-ROX-101215-8011		0000		2					2		X			
	ROST3MW-101215		0915		4			3		7	X	X	X	X	
	MW5-ROX-101215		1015		4			3		7	X	X	X	X	
	MW5-ROX-101215-MS		↓		4			3		7	X	X	X	X	
	MW5-ROX-101215-MSD		↓		4			3		7	X	X	X	X	
	MW2-ROX-101215		1110		4			3		7	X	X	X	X	
	MW28-ROX-101215		1310		4			3		7	X	X	X	X	
	MW28-ROX-101215-DUP		1310		4			3		7	X	X	X	X	
	ROST4PZC-101215		1415		4			3		7	X	X	X	X	

Relinquished by: (Signature) — Received by: (Signature) FED EX # 8092 2040 9678 — Date: 12Oct.2015 — Time:
Relinquished by: (Signature) — Received by: (Signature) — Date: 10/13/15 — Time: 1004
Relinquished by: (Signature) — Received by: (Signature) — Date: — Time:

05/2/06 Revision

Custody Seals: Test America 524355 524356 524357 524358 1.2°c, 1.8°c, 3.0°c, 1.2°c
JRS

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11/13/2015

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 400-112311-1
SDG Number: Proj. 60400249-21563720.03004

Login Number: 112311
List Number: 1
Creator: Crawford, Lauren E

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.2°C, 1.8°C, 3.0°C, 1.2°C IR-5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112311-1
SDG: Proj. 60400249-21563720.03004

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	11-30-15 *
Arizona	State Program	9	AZ0710	01-11-16
Arkansas DEQ	State Program	6	88-0689	09-01-16
Florida	NELAP	4	E81010	06-30-16
Georgia	State Program	4	N/A	06-30-16
Illinois	NELAP	5	200041	10-09-15 *
Iowa	State Program	7	367	07-31-16
Kansas	NELAP	7	E-10253	01-31-16 *
Kentucky (UST)	State Program	4	53	06-30-16
Kentucky (WW)	State Program	4	98030	12-31-15
Louisiana	NELAP	6	30976	06-30-16
Maryland	State Program	3	233	09-30-16
Massachusetts	State Program	1	M-FL094	06-30-16
Michigan	State Program	5	9912	06-30-16
New Jersey	NELAP	2	FL006	11-30-15 *
North Carolina (WW/SW)	State Program	4	314	12-31-15
Oklahoma	State Program	6	9810	08-31-16
Pennsylvania	NELAP	3	68-00467	01-31-16
Rhode Island	State Program	1	LAO00307	12-30-15
South Carolina	State Program	4	96026	06-30-16
Tennessee	State Program	4	TN02907	06-30-16
Texas	NELAP	6	T104704286-15-9	09-30-16
USDA	Federal		P330-13-00193	07-01-16
Virginia	NELAP	3	460166	06-14-16
West Virginia DEP	State Program	3	136	06-30-16

* Certification renewal pending - certification considered valid.

Roxana Groundwater Quarterly – 4th Quarter 2015 Data Review

Laboratory SDG: 400-112387

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 12/4/2015

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2014

Sample Identification	Sample Identification
TB-ROX-101315-8260	TB-ROX-101315-8011
MW14-ROX-101315	P66-ROX-101315

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated that SVOC re-analysis of samples MW14-ROX-101315 and P66-ROX-101315 was performed outside of hold time. VOC LCS recovery for dichlorodifluoromethane, and SVOC LCS/LCSD recoveries and SVOC LCS/LCSD RPDs for several analytes were outside evaluation criteria. The surrogate terphenyl-d_{14} was outside criteria for Method 8270 SVOCs in the initial run of sample MW14-ROX-101315. These issues are addressed further in the appropriate sections below.

Additionally, the continuing calibration verification for dihlorodifluoromethane exceeded evaluation criteria. Three of 69 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds, results may be biased low due to the presence of HCl in the preservative.

The cooler receipt form indicated that one of one cooler was received by the laboratory at a temperature of 1.4°C, which is outside the 4ºC ± 2ºC criteria. Samples were received in good condition; therefore, no qualification of data was required. The cooler receipt form indicated insufficient sample volume was received for MS/MSD analysis, however MS/MSD analysis was not requested; no qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

No, re-extraction of SVOCs aniline, 4-chloroaniline, 3,3'-dichlorobenzidine, 3-nitroaniline, and pyridine in samples MW14-ROX-101315 and P66-ROX-101315 was performed approximately 2 days outside of hold time for extraction (7 days) due to quality control spiking problems in the associated extraction batch. Target analytes were non-detect and, therefore, reported using the initial run extracted and analyzed within holding time criteria. SVOCs in the initial run were appropriately qualified due to LCS recovery (see Section 5.0). No qualification of data based on hold time was required.

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS/LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD /RPD Criteria
LCS 400-280323/1002	VOCs	Dichlorodifluoromethane	**191**	NA	41-146
LCS/LCSD 400-279637/2-A/3-A	SVOCs	Aniline	32/15	**70**	10-145/30
LCS/LCSD 400-279637/2-A/3-A	SVOCs	4-Chloroaniline	**17/10**	**53**	32-128/30
LCS/LCSD 400-279637/2-A/3-A	SVOCs	3,3'-Dichlorobenzidine	**0/-0.4**	**200**	16-167/30
LCS/LCSD 400-279637/2-A/3-A	SVOCs	3-Nitroaniline	**37/37**	0	51-128/30
LCS/LCSD 400-279637/2-A/3-A	SVOCs	Pyridine	11/**7**	**53**	10-127/30

Analytical data that required qualification based on LCS data are included in the table below. Analytical data reported as non-detect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. Analytical data associated with LCS/LCSD RPDs above evaluation criteria did not require qualification; LCS/LCSD recoveries were within evaluation criteria.

Sample ID	Parameter	Analyte	Qualification
MW14-ROX-101315 Run #1	SVOCs	4-Chloroaniline	**UJ**
MW14-ROX-101315 Run #1	SVOCs	3,3'-Dichlorobenzidine	**UJ**
MW14-ROX-101315 Run #1	SVOCs	3-Nitroaniline	**UJ**
MW14-ROX-101315 Run #1	SVOCs	Pyridine	**UJ**
P66-ROX-101315 Run #1	SVOCs	4-Chloroaniline	**UJ**
P66-ROX-101315 Run #1	SVOCs	3,3'-Dichlorobenzidine	**UJ**
P66-ROX-101315 Run #1	SVOCs	3-Nitroaniline	**UJ**
P66-ROX-101315 Run #1	SVOCs	Pyridine	**UJ**

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Sample ID	Parameter	Surrogate	Recovery (%)	Criteria (%)
MW14-ROX-101315 Run #1	SVOCs	Terphenyl-d_{14}	**129**	53-125

Analytical data reported as non-detect and associated with surrogate recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. Qualifications due to surrogate recoveries were not required due to only one of six SVOC surrogate recoveries being outside evaluation criteria in sample MW14-ROX-101315. No qualification of data was required.

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

No

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

Yes

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples analyzed as part of this SDG?

No

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

11.0 Sample Dilutions

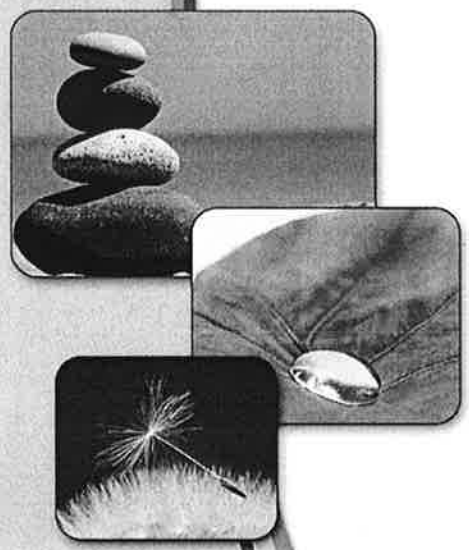
For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; samples analyzed did not require dilution.

12.0 Additional Qualifications

Were additional qualifications applied?

No



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-112387-1
TestAmerica SDG: Proj. 60400249-21563720.03004
Client Project/Site: ROXANA QUARTERLY GW - 4Q15

For:
AECOM Technical Services Inc.
1001 Highlands Plaza Dr. West
St. Louis, Missouri 63110

Attn: Mrs. Elizabeth Kunkel

Carolyn S. Hooper

Authorized for release by:
10/31/2015 2:12:52 PM

Carolyn Hooper, Project Manager I
(850)474-1001
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LINKS

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Reviewed 12/4/15 LH

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 400-112387-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-112387-1

Receipt
The samples were received on 10/14/2015 9:49 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.4°C.

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch 280323 recovered above the upper control limit for Dichlorodifluoromethane. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

The laboratory control sample (LCS) for batch 280323 recovered outside control limits for one analyte. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

The preservative (HCL) used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The requested target analyte list includes 2-chloroethyl vinyl ether, acrolein, acrylonitrile, acid-labile compounds that degrades in an acidic medium.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-280323 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

The RPD for the MS/MSD for 2-chloroethyl vinyl ether was not calculable because the recoveries were below the reporting limit due to the acidic nature of the parent sample.

GC/MS Semi VOA
Method 8270C: Surrogate recovery for the following sample was outside the upper control limit: MW14-ROX-101315 (400-112387-3). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

The following samples was re-prepared outside of preparation holding time due to failing compounds in the LCS/D from the original extraction batch: MW14-ROX-101315 (400-112387-3) and P66-ROX-101315 (400-112387-4). The two sets of results have been reported.

GC Semi VOA
Method 8011: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-279801 and analytical batch 400-279999 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Organic Prep
Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 8270 / LL.analytical batch 400-279637.

Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 8270. analytical batch 400-280032.

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

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112387-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: TB-ROX-101315-8260

Lab Sample ID: 400-112387-1

No Detections.

Client Sample ID: TB-ROX-101315-8011

Lab Sample ID: 400-112387-2

No Detections.

Client Sample ID: MW14-ROX-101315

Lab Sample ID: 400-112387-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluorene	0.13	J	0.20	0.021	ug/L	1		8270C LL	Total/NA

Client Sample ID: P66-ROX-101315

Lab Sample ID: 400-112387-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	9.4		1.0	0.38	ug/L	1		8260B	Total/NA
Ethylbenzene	4.2		1.0	0.50	ug/L	1		8260B	Total/NA
Isopropylbenzene	72		1.0	0.53	ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	19		1.0	0.74	ug/L	1		8260B	Total/NA
m-Xylene & p-Xylene	2.4	J	5.0	1.6	ug/L	1		8260B	Total/NA
Naphthalene	3.5		1.0	1.0	ug/L	1		8260B	Total/NA
N-Propylbenzene	68		1.0	0.69	ug/L	1		8260B	Total/NA
o-Xylene	0.86	J	5.0	0.60	ug/L	1		8260B	Total/NA
sec-Butylbenzene	8.0		1.0	0.70	ug/L	1		8260B	Total/NA
tert-Butylbenzene	2.3		1.0	0.63	ug/L	1		8260B	Total/NA
Toluene	0.92	J	1.0	0.70	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	1.2		1.0	0.82	ug/L	1		8260B	Total/NA
Xylenes, Total	3.3	J	5.0	0.60	ug/L	1		8260B	Total/NA
1-Methylnaphthalene	34		0.20	0.020	ug/L	1		8270C LL	Total/NA
2-Methylnaphthalene	2.5		0.20	0.020	ug/L	1		8270C LL	Total/NA
Indene	1.0	J	10	1.0	ug/L	1		8270C	Total/NA

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112387-1
SDG: Proj. 60400249-21563720.03004

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-112387-1	TB-ROX-101315-8260	Water	10/13/15 00:00	10/14/15 09:49
400-112387-2	TB-ROX-101315-8011	Water	10/13/15 00:00	10/14/15 09:49
400-112387-3	MW14-ROX-101315	Water	10/13/15 09:45	10/14/15 09:49
400-112387-4	P66-ROX-101315	Water	10/13/15 11:30	10/14/15 09:49

Client Sample ID: TB-ROX-101315-8260

Date Collected: 10/13/15 00:00
Date Received: 10/14/15 09:49

Lab Sample ID: 400-112387-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/24/15 15:37	1
Acrolein	ND		20	10	ug/L			10/24/15 15:37	1
Acrylonitrile	ND		10	2.8	ug/L			10/24/15 15:37	1
Benzene	ND		1.0	0.38	ug/L			10/24/15 15:37	1
Bromobenzene	ND		1.0	0.54	ug/L			10/24/15 15:37	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/24/15 15:37	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/24/15 15:37	1
Bromoform	ND		5.0	0.71	ug/L			10/24/15 15:37	1
Bromomethane	ND		1.0	0.98	ug/L			10/24/15 15:37	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/24/15 15:37	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/24/15 15:37	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/24/15 15:37	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/24/15 15:37	1
Chloroethane	ND		1.0	0.76	ug/L			10/24/15 15:37	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/24/15 15:37	1
Chloroform	ND		1.0	0.60	ug/L			10/24/15 15:37	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/24/15 15:37	1
Chloromethane	ND		1.0	0.83	ug/L			10/24/15 15:37	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/24/15 15:37	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/24/15 15:37	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/24/15 15:37	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/24/15 15:37	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/24/15 15:37	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/24/15 15:37	1
Dichlorodifluoromethane	ND	*	1.0	0.85	ug/L			10/24/15 15:37	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/24/15 15:37	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/24/15 15:37	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/24/15 15:37	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/24/15 15:37	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/24/15 15:37	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/24/15 15:37	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/24/15 15:37	1
1,4-Dioxane	ND		400	100	ug/L			10/24/15 15:37	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/24/15 15:37	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/24/15 15:37	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/24/15 15:37	1
2-Hexanone	ND		25	3.1	ug/L			10/24/15 15:37	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/24/15 15:37	1
Methylene bromide	ND		5.0	0.59	ug/L			10/24/15 15:37	1
Methylene chloride	ND		5.0	3.0	ug/L			10/24/15 15:37	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/24/15 15:37	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/24/15 15:37	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/24/15 15:37	1
Naphthalene	ND		1.0	1.0	ug/L			10/24/15 15:37	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/24/15 15:37	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/24/15 15:37	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/24/15 15:37	1
o-Xylene	ND		5.0	0.60	ug/L			10/24/15 15:37	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/24/15 15:37	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112387-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: TB-ROX-101315-8260
Date Collected: 10/13/15 00:00
Date Received: 10/14/15 09:49

Lab Sample ID: 400-112387-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/24/15 15:37	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/24/15 15:37	1
Styrene	ND		1.0	1.0	ug/L			10/24/15 15:37	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/24/15 15:37	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/24/15 15:37	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/24/15 15:37	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/24/15 15:37	1
Toluene	ND		1.0	0.70	ug/L			10/24/15 15:37	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/24/15 15:37	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/24/15 15:37	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/24/15 15:37	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/24/15 15:37	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/24/15 15:37	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/24/15 15:37	1
Trichloroethene	ND		1.0	0.50	ug/L			10/24/15 15:37	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/24/15 15:37	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/24/15 15:37	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/24/15 15:37	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/24/15 15:37	1
Vinyl acetate	ND		25	2.0	ug/L			10/24/15 15:37	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/24/15 15:37	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/24/15 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*78 - 118*		*10/24/15 15:37*	*1*
Dibromofluoromethane	*100*		*81 - 121*		*10/24/15 15:37*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/24/15 15:37*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112387-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: TB-ROX-101315-8011
Date Collected: 10/13/15 00:00
Date Received: 10/14/15 09:49

Lab Sample ID: 400-112387-2
Matrix: Water

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/21/15 08:51	10/23/15 04:43	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/21/15 08:51	10/23/15 04:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*86*		*51 - 149*	*10/21/15 08:51*	*10/23/15 04:43*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112387-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: MW14-ROX-101315
Date Collected: 10/13/15 09:45
Date Received: 10/14/15 09:49

Lab Sample ID: 400-112387-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/24/15 16:02	1
Acrolein	ND		20	10	ug/L			10/24/15 16:02	1
Acrylonitrile	ND		10	2.8	ug/L			10/24/15 16:02	1
Benzene	ND		1.0	0.38	ug/L			10/24/15 16:02	1
Bromobenzene	ND		1.0	0.54	ug/L			10/24/15 16:02	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/24/15 16:02	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/24/15 16:02	1
Bromoform	ND		5.0	0.71	ug/L			10/24/15 16:02	1
Bromomethane	ND		1.0	0.98	ug/L			10/24/15 16:02	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/24/15 16:02	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/24/15 16:02	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/24/15 16:02	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/24/15 16:02	1
Chloroethane	ND		1.0	0.76	ug/L			10/24/15 16:02	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/24/15 16:02	1
Chloroform	ND		1.0	0.60	ug/L			10/24/15 16:02	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/24/15 16:02	1
Chloromethane	ND		1.0	0.83	ug/L			10/24/15 16:02	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/24/15 16:02	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/24/15 16:02	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/24/15 16:02	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/24/15 16:02	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/24/15 16:02	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/24/15 16:02	1
Dichlorodifluoromethane	ND	*	1.0	0.85	ug/L			10/24/15 16:02	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/24/15 16:02	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/24/15 16:02	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/24/15 16:02	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/24/15 16:02	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/24/15 16:02	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/24/15 16:02	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/24/15 16:02	1
1,4-Dioxane	ND		400	100	ug/L			10/24/15 16:02	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/24/15 16:02	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/24/15 16:02	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/24/15 16:02	1
2-Hexanone	ND		25	3.1	ug/L			10/24/15 16:02	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/24/15 16:02	1
Methylene bromide	ND		5.0	0.59	ug/L			10/24/15 16:02	1
Methylene chloride	ND		5.0	3.0	ug/L			10/24/15 16:02	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/24/15 16:02	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/24/15 16:02	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/24/15 16:02	1
Naphthalene	ND		1.0	1.0	ug/L			10/24/15 16:02	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/24/15 16:02	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/24/15 16:02	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/24/15 16:02	1
o-Xylene	ND		5.0	0.60	ug/L			10/24/15 16:02	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/24/15 16:02	1

Client Sample ID: MW14-ROX-101315

Date Collected: 10/13/15 09:45
Date Received: 10/14/15 09:49

Lab Sample ID: 400-112387-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/24/15 16:02	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/24/15 16:02	1
Styrene	ND		1.0	1.0	ug/L			10/24/15 16:02	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/24/15 16:02	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/24/15 16:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/24/15 16:02	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/24/15 16:02	1
Toluene	ND		1.0	0.70	ug/L			10/24/15 16:02	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/24/15 16:02	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/24/15 16:02	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/24/15 16:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/24/15 16:02	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/24/15 16:02	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/24/15 16:02	1
Trichloroethene	ND		1.0	0.50	ug/L			10/24/15 16:02	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/24/15 16:02	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/24/15 16:02	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/24/15 16:02	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/24/15 16:02	1
Vinyl acetate	ND		25	2.0	ug/L			10/24/15 16:02	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/24/15 16:02	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/24/15 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*78 - 118*		*10/24/15 16:02*	*1*
Dibromofluoromethane	*96*		*81 - 121*		*10/24/15 16:02*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/24/15 16:02*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 17:31	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 17:31	1
Anthracene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 17:31	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 17:31	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 17:31	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 17:31	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 17:31	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 17:31	1
Chrysene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 17:31	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 17:31	1
Fluoranthene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 17:31	1
Fluorene	**0.13**	**J**	0.20	0.021	ug/L		10/20/15 11:18	10/29/15 17:31	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 17:31	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 17:31	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 17:31	1
Phenanthrene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 17:31	1
Pyrene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*89*		*15 - 122*	*10/20/15 11:18*	*10/29/15 17:31*	*1*

Client Sample ID: MW14-ROX-101315

Date Collected: 10/13/15 09:45
Date Received: 10/14/15 09:49

Lab Sample ID: 400-112387-3

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	100		19 - 130	10/20/15 11:18	10/29/15 17:31	1
Terphenyl-d14	113		33 - 138	10/20/15 11:18	10/29/15 17:31	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	*	10	3.8	ug/L		10/20/15 11:18	10/21/15 22:17	1
Aniline	ND	H	10	3.8	ug/L		10/22/15 10:55	10/23/15 18:30	1
Benzenethiol	ND		10	1.7	ug/L		10/20/15 11:18	10/21/15 22:17	1
Benzoic acid	ND		30	7.3	ug/L		10/20/15 11:18	10/21/15 22:17	1
Benzyl alcohol	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 22:17	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/20/15 11:18	10/21/15 22:17	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/20/15 11:18	10/21/15 22:17	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/20/15 11:18	10/21/15 22:17	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/20/15 11:18	10/21/15 22:17	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/20/15 11:18	10/21/15 22:17	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/20/15 11:18	10/21/15 22:17	1
4-Chloroaniline	ND	UJ	10	3.4	ug/L		10/20/15 11:18	10/21/15 22:17	1
4-Chloroaniline	ND	H	10	3.4	ug/L		10/22/15 10:55	10/23/15 18:30	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/20/15 11:18	10/21/15 22:17	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/20/15 11:18	10/21/15 22:17	1
2-Chlorophenol	ND		10	2.2	ug/L		10/20/15 11:18	10/21/15 22:17	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 22:17	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/20/15 11:18	10/21/15 22:17	1
Dibenzofuran	ND		10	0.52	ug/L		10/20/15 11:18	10/21/15 22:17	1
3,3'-Dichlorobenzidine	ND	* UJ	10	2.6	ug/L		10/20/15 11:18	10/21/15 22:17	1
3,3'-Dichlorobenzidine	ND	H	10	2.6	ug/L		10/22/15 10:55	10/23/15 18:30	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/20/15 11:18	10/21/15 22:17	1
Diethyl phthalate	ND		10	0.70	ug/L		10/20/15 11:18	10/21/15 22:17	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 22:17	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/20/15 11:18	10/21/15 22:17	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/20/15 11:18	10/21/15 22:17	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 22:17	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/20/15 11:18	10/21/15 22:17	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/20/15 11:18	10/21/15 22:17	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/20/15 11:18	10/21/15 22:17	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/20/15 11:18	10/21/15 22:17	1
1,4-Dioxane	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 22:17	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 22:17	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/20/15 11:18	10/21/15 22:17	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/20/15 11:18	10/21/15 22:17	1
Hexachloroethane	ND		10	4.2	ug/L		10/20/15 11:18	10/21/15 22:17	1
Indene	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 22:17	1
Isophorone	ND		10	0.57	ug/L		10/20/15 11:18	10/21/15 22:17	1
2-Methylphenol	ND		10	1.8	ug/L		10/20/15 11:18	10/21/15 22:17	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/20/15 11:18	10/21/15 22:17	1
2-Nitroaniline	ND		10	2.2	ug/L		10/20/15 11:18	10/21/15 22:17	1
3-Nitroaniline	ND	* UJ	10	1.8	ug/L		10/20/15 11:18	10/21/15 22:17	1
3-Nitroaniline	ND	H	10	1.8	ug/L		10/22/15 10:55	10/23/15 18:30	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112387-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: MW14-ROX-101315
Date Collected: 10/13/15 09:45
Date Received: 10/14/15 09:49

Lab Sample ID: 400-112387-3
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	ND		10	2.5	ug/L		10/20/15 11:18	10/21/15 22:17	1
Nitrobenzene	ND		10	0.55	ug/L		10/20/15 11:18	10/21/15 22:17	1
2-Nitrophenol	ND		10	0.65	ug/L		10/20/15 11:18	10/21/15 22:17	1
4-Nitrophenol	ND		10	2.1	ug/L		10/20/15 11:18	10/21/15 22:17	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 22:17	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/20/15 11:18	10/21/15 22:17	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/20/15 11:18	10/21/15 22:17	1
Pentachlorophenol	ND		20	1.8	ug/L		10/20/15 11:18	10/21/15 22:17	1
Phenol	ND		10	2.6	ug/L		10/20/15 11:18	10/21/15 22:17	1
Pyridine	ND	* UJ	10	3.2	ug/L		10/20/15 11:18	10/21/15 22:17	1
Pyridine	ND	H	10	3.2	ug/L		10/22/15 10:55	10/23/15 18:30	1
Quinoline	ND		10	6.0	ug/L		10/20/15 11:18	10/21/15 22:17	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/20/15 11:18	10/21/15 22:17	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 22:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*103*		*34 - 120*	*10/20/15 11:18*	*10/21/15 22:17*	*1*
2-Fluorobiphenyl	*81*		*34 - 120*	*10/22/15 10:55*	*10/23/15 18:30*	*1*
2-Fluorophenol	*75*		*10 - 120*	*10/20/15 11:18*	*10/21/15 22:17*	*1*
2-Fluorophenol	*58*		*10 - 120*	*10/22/15 10:55*	*10/23/15 18:30*	*1*
Nitrobenzene-d5	*103*		*27 - 120*	*10/20/15 11:18*	*10/21/15 22:17*	*1*
Nitrobenzene-d5	*80*		*27 - 120*	*10/22/15 10:55*	*10/23/15 18:30*	*1*
Phenol-d5	*91*		*10 - 120*	*10/20/15 11:18*	*10/21/15 22:17*	*1*
Phenol-d5	*74*		*10 - 120*	*10/22/15 10:55*	*10/23/15 18:30*	*1*
Terphenyl-d14	*129*	*X*	*53 - 125*	*10/20/15 11:18*	*10/21/15 22:17*	*1*
Terphenyl-d14	*89*		*53 - 125*	*10/22/15 10:55*	*10/23/15 18:30*	*1*
2,4,6-Tribromophenol	*122*		*15 - 135*	*10/20/15 11:18*	*10/21/15 22:17*	*1*
2,4,6-Tribromophenol	*90*		*15 - 135*	*10/22/15 10:55*	*10/23/15 18:30*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.031	0.0058	ug/L		10/21/15 08:51	10/23/15 05:42	1
1,2-Dibromoethane	ND		0.021	0.0052	ug/L		10/21/15 08:51	10/23/15 05:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*79*		*51 - 149*	*10/21/15 08:51*	*10/23/15 05:42*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112387-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: P66-ROX-101315
Date Collected: 10/13/15 11:30
Date Received: 10/14/15 09:49

Lab Sample ID: 400-112387-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/24/15 16:28	1
Acrolein	ND		20	10	ug/L			10/24/15 16:28	1
Acrylonitrile	ND		10	2.8	ug/L			10/24/15 16:28	1
Benzene	**9.4**		1.0	0.38	ug/L			10/24/15 16:28	1
Bromobenzene	ND		1.0	0.54	ug/L			10/24/15 16:28	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/24/15 16:28	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/24/15 16:28	1
Bromoform	ND		5.0	0.71	ug/L			10/24/15 16:28	1
Bromomethane	ND		1.0	0.98	ug/L			10/24/15 16:28	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/24/15 16:28	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/24/15 16:28	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/24/15 16:28	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/24/15 16:28	1
Chloroethane	ND		1.0	0.76	ug/L			10/24/15 16:28	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/24/15 16:28	1
Chloroform	ND		1.0	0.60	ug/L			10/24/15 16:28	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/24/15 16:28	1
Chloromethane	ND		1.0	0.83	ug/L			10/24/15 16:28	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/24/15 16:28	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/24/15 16:28	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/24/15 16:28	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/24/15 16:28	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/24/15 16:28	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/24/15 16:28	1
Dichlorodifluoromethane	ND	*	1.0	0.85	ug/L			10/24/15 16:28	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/24/15 16:28	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/24/15 16:28	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/24/15 16:28	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/24/15 16:28	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/24/15 16:28	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/24/15 16:28	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/24/15 16:28	1
1,4-Dioxane	ND		400	100	ug/L			10/24/15 16:28	1
Ethylbenzene	**4.2**		1.0	0.50	ug/L			10/24/15 16:28	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/24/15 16:28	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/24/15 16:28	1
2-Hexanone	ND		25	3.1	ug/L			10/24/15 16:28	1
Isopropylbenzene	**72**		1.0	0.53	ug/L			10/24/15 16:28	1
Methylene bromide	ND		5.0	0.59	ug/L			10/24/15 16:28	1
Methylene chloride	ND		5.0	3.0	ug/L			10/24/15 16:28	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/24/15 16:28	1
Methyl tert-butyl ether	**19**		1.0	0.74	ug/L			10/24/15 16:28	1
m-Xylene & p-Xylene	**2.4**	J	5.0	1.6	ug/L			10/24/15 16:28	1
Naphthalene	**3.5**		1.0	1.0	ug/L			10/24/15 16:28	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/24/15 16:28	1
N-Propylbenzene	**68**		1.0	0.69	ug/L			10/24/15 16:28	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/24/15 16:28	1
o-Xylene	**0.86**	J	5.0	0.60	ug/L			10/24/15 16:28	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/24/15 16:28	1

Client Sample ID: P66-ROX-101315
Date Collected: 10/13/15 11:30
Date Received: 10/14/15 09:49

Lab Sample ID: 400-112387-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/24/15 16:28	1
sec-Butylbenzene	**8.0**		1.0	0.70	ug/L			10/24/15 16:28	1
Styrene	ND		1.0	1.0	ug/L			10/24/15 16:28	1
tert-Butylbenzene	**2.3**		1.0	0.63	ug/L			10/24/15 16:28	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/24/15 16:28	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/24/15 16:28	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/24/15 16:28	1
Toluene	**0.92**	J	1.0	0.70	ug/L			10/24/15 16:28	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/24/15 16:28	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/24/15 16:28	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/24/15 16:28	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/24/15 16:28	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/24/15 16:28	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/24/15 16:28	1
Trichloroethene	ND		1.0	0.50	ug/L			10/24/15 16:28	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/24/15 16:28	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/24/15 16:28	1
1,2,4-Trimethylbenzene	**1.2**		1.0	0.82	ug/L			10/24/15 16:28	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/24/15 16:28	1
Vinyl acetate	ND		25	2.0	ug/L			10/24/15 16:28	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/24/15 16:28	1
Xylenes, Total	**3.3**	J	5.0	0.60	ug/L			10/24/15 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*78 - 118*		*10/24/15 16:28*	*1*
Dibromofluoromethane	*96*		*81 - 121*		*10/24/15 16:28*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/24/15 16:28*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 18:09	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 18:09	1
Anthracene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 18:09	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 18:09	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 18:09	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 18:09	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 18:09	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 18:09	1
Chrysene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 18:09	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 18:09	1
Fluoranthene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 18:09	1
Fluorene	ND		0.20	0.021	ug/L		10/20/15 11:18	10/29/15 18:09	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 18:09	1
1-Methylnaphthalene	**34**		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 18:09	1
2-Methylnaphthalene	**2.5**		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 18:09	1
Phenanthrene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 18:09	1
Pyrene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*100*		*15 - 122*	*10/20/15 11:18*	*10/29/15 18:09*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112387-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: P66-ROX-101315
Date Collected: 10/13/15 11:30
Date Received: 10/14/15 09:49

Lab Sample ID: 400-112387-4
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	66		19 - 130	10/20/15 11:18	10/29/15 18:09	1
Terphenyl-d14	84		33 - 138	10/20/15 11:18	10/29/15 18:09	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	*	10	3.8	ug/L		10/20/15 11:18	10/21/15 22:55	1
Aniline	ND	H	10	3.8	ug/L		10/22/15 10:55	10/23/15 19:09	1
Benzenethiol	ND		10	1.7	ug/L		10/20/15 11:18	10/21/15 22:55	1
Benzoic acid	ND		30	7.3	ug/L		10/20/15 11:18	10/21/15 22:55	1
Benzyl alcohol	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 22:55	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/20/15 11:18	10/21/15 22:55	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/20/15 11:18	10/21/15 22:55	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/20/15 11:18	10/21/15 22:55	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/20/15 11:18	10/21/15 22:55	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/20/15 11:18	10/21/15 22:55	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/20/15 11:18	10/21/15 22:55	1
4-Chloroaniline	ND	* UJ	10	3.4	ug/L		10/20/15 11:18	10/21/15 22:55	1
4-Chloroaniline	ND	H	10	3.4	ug/L		10/22/15 10:55	10/23/15 19:09	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/20/15 11:18	10/21/15 22:55	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/20/15 11:18	10/21/15 22:55	1
2-Chlorophenol	ND		10	2.2	ug/L		10/20/15 11:18	10/21/15 22:55	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 22:55	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/20/15 11:18	10/21/15 22:55	1
Dibenzofuran	ND		10	0.52	ug/L		10/20/15 11:18	10/21/15 22:55	1
3,3'-Dichlorobenzidine	ND	* UJ	10	2.6	ug/L		10/20/15 11:18	10/21/15 22:55	1
3,3'-Dichlorobenzidine	ND	H	10	2.6	ug/L		10/22/15 10:55	10/23/15 19:09	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/20/15 11:18	10/21/15 22:55	1
Diethyl phthalate	ND		10	0.70	ug/L		10/20/15 11:18	10/21/15 22:55	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 22:55	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/20/15 11:18	10/21/15 22:55	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/20/15 11:18	10/21/15 22:55	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 22:55	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/20/15 11:18	10/21/15 22:55	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/20/15 11:18	10/21/15 22:55	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/20/15 11:18	10/21/15 22:55	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/20/15 11:18	10/21/15 22:55	1
1,4-Dioxane	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 22:55	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 22:55	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/20/15 11:18	10/21/15 22:55	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/20/15 11:18	10/21/15 22:55	1
Hexachloroethane	ND		10	4.2	ug/L		10/20/15 11:18	10/21/15 22:55	1
Indene	1.0	J	10	1.0	ug/L		10/20/15 11:18	10/21/15 22:55	1
Isophorone	ND		10	0.57	ug/L		10/20/15 11:18	10/21/15 22:55	1
2-Methylphenol	ND		10	1.8	ug/L		10/20/15 11:18	10/21/15 22:55	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/20/15 11:18	10/21/15 22:55	1
2-Nitroaniline	ND		10	2.2	ug/L		10/20/15 11:18	10/21/15 22:55	1
3-Nitroaniline	ND	* UJ	10	1.8	ug/L		10/20/15 11:18	10/21/15 22:55	1
3-Nitroaniline	ND	H	10	1.8	ug/L		10/22/15 10:55	10/23/15 19:09	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112387-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: P66-ROX-101315
Date Collected: 10/13/15 11:30
Date Received: 10/14/15 09:49

Lab Sample ID: 400-112387-4
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	ND		10	2.5	ug/L		10/20/15 11:18	10/21/15 22:55	1
Nitrobenzene	ND		10	0.55	ug/L		10/20/15 11:18	10/21/15 22:55	1
2-Nitrophenol	ND		10	0.65	ug/L		10/20/15 11:18	10/21/15 22:55	1
4-Nitrophenol	ND		10	2.1	ug/L		10/20/15 11:18	10/21/15 22:55	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 22:55	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/20/15 11:18	10/21/15 22:55	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/20/15 11:18	10/21/15 22:55	1
Pentachlorophenol	ND		20	1.8	ug/L		10/20/15 11:18	10/21/15 22:55	1
Phenol	ND		10	2.6	ug/L		10/20/15 11:18	10/21/15 22:55	1
Pyridine	ND	* UJ	10	3.2	ug/L		10/20/15 11:18	10/21/15 22:55	1
Pyridine	ND	H	10	3.2	ug/L		10/22/15 10:55	10/23/15 19:09	1
Quinoline	ND		10	6.0	ug/L		10/20/15 11:18	10/21/15 22:55	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/20/15 11:18	10/21/15 22:55	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 22:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	86		34 - 120	10/20/15 11:18	10/21/15 22:55	1
2-Fluorobiphenyl	86		34 - 120	10/22/15 10:55	10/23/15 19:09	1
2-Fluorophenol	67		10 - 120	10/20/15 11:18	10/21/15 22:55	1
2-Fluorophenol	66		10 - 120	10/22/15 10:55	10/23/15 19:09	1
Nitrobenzene-d5	85		27 - 120	10/20/15 11:18	10/21/15 22:55	1
Nitrobenzene-d5	80		27 - 120	10/22/15 10:55	10/23/15 19:09	1
Phenol-d5	76		10 - 120	10/20/15 11:18	10/21/15 22:55	1
Phenol-d5	69		10 - 120	10/22/15 10:55	10/23/15 19:09	1
Terphenyl-d14	89		53 - 125	10/20/15 11:18	10/21/15 22:55	1
Terphenyl-d14	54		53 - 125	10/22/15 10:55	10/23/15 19:09	1
2,4,6-Tribromophenol	95		15 - 135	10/20/15 11:18	10/21/15 22:55	1
2,4,6-Tribromophenol	98		15 - 135	10/22/15 10:55	10/23/15 19:09	1

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/21/15 08:51	10/23/15 06:12	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/21/15 08:51	10/23/15 06:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	60	p	51 - 149	10/21/15 08:51	10/23/15 06:12	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
X	Surrogate is outside control limits
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Glossary

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

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112387-1
SDG: Proj. 60400249-21563720.03004

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(78-118)	(81-121)	(80-120)
400-112387-1	TB-ROX-101315-8260	95	100	96
400-112387-3	MW14-ROX-101315	96	96	97
400-112387-4	P66-ROX-101315	96	96	99
400-112438-A-2 MS	Matrix Spike	97	101	97
400-112438-A-2 MSD	Matrix Spike Duplicate	96	102	97
LCS 400-280323/1002	Lab Control Sample	96	101	97
MB 400-280323/4	Method Blank	95	98	98

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	Client Sample ID	(34-120)	(10-120)	(27-120)	(10-120)	(53-125)	(15-135)
400-112387-3	MW14-ROX-101315	103	75	103	91	129 X	122
400-112387-3	MW14-ROX-101315	81	58	80	74	89	90
400-112387-4	P66-ROX-101315	86	67	85	76	89	95
400-112387-4	P66-ROX-101315	86	66	80	69	54	98
LCS 400-279637/2-A	Lab Control Sample	90	74	93	84	95	102
LCS 400-280032/2-A	Lab Control Sample	82	70	79	78	92	89
LCSD 400-279637/3-A	Lab Control Sample Dup	95	74	97	79	101	103
LCSD 400-280032/3-A	Lab Control Sample Dup	81	71	76	76	89	87
MB 400-279637/1-A	Method Blank	83	56	87	77	101	86
MB 400-280032/1-A	Method Blank	82	54	80	73	88	83

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPH
Lab Sample ID	Client Sample ID	(15-122)	(19-130)	(33-138)
400-112387-3	MW14-ROX-101315	89	100	113
400-112387-4	P66-ROX-101315	100	66	84
LCS 400-279637/2-A	Lab Control Sample	85	94	88
LCSD 400-279637/3-A	Lab Control Sample Dup	84	92	87
MB 400-279637/1-A	Method Blank	73	79	95

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112387-1
SDG: Proj. 60400249-21563720.03004

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5
TPH = Terphenyl-d14

Method: 8011 - EDB and DBCP in Water by Microextraction

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	**Client Sample ID**	**BFB1 (51-149)**
400-112234-C-14-A MS	Matrix Spike	117
400-112234-C-14-B MSD	Matrix Spike Duplicate	95
400-112387-2	TB-ROX-101315-8011	86
400-112387-3	MW14-ROX-101315	79
400-112387-4	P66-ROX-101315	60 p
LCS 400-279801/2-A	Lab Control Sample	108
MB 400-279801/1-A	Method Blank	117

Surrogate Legend

BFB = 4-Bromofluorobenzene

GC/MS VOA

Analysis Batch: 280323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112387-1	TB-ROX-101315-8260	Total/NA	Water	8260B	
400-112387-3	MW14-ROX-101315	Total/NA	Water	8260B	
400-112387-4	P66-ROX-101315	Total/NA	Water	8260B	
LCS 400-280323/1002	Lab Control Sample	Total/NA	Water	8260B	
MB 400-280323/4	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 279637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112387-3	MW14-ROX-101315	Total/NA	Water	3520C	
400-112387-4	P66-ROX-101315	Total/NA	Water	3520C	
LCS 400-279637/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-279637/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 400-279637/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 279755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-279637/2-A	Lab Control Sample	Total/NA	Water	8270C	279637
LCSD 400-279637/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	279637
MB 400-279637/1-A	Method Blank	Total/NA	Water	8270C	279637

Analysis Batch: 279761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112387-3	MW14-ROX-101315	Total/NA	Water	8270C	279637
400-112387-4	P66-ROX-101315	Total/NA	Water	8270C	279637

Prep Batch: 280032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112387-3	MW14-ROX-101315	Total/NA	Water	3520C	
400-112387-4	P66-ROX-101315	Total/NA	Water	3520C	
LCS 400-280032/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-280032/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 400-280032/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 280147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112387-3	MW14-ROX-101315	Total/NA	Water	8270C	280032
400-112387-4	P66-ROX-101315	Total/NA	Water	8270C	280032
LCS 400-280032/2-A	Lab Control Sample	Total/NA	Water	8270C	280032
LCSD 400-280032/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	280032
MB 400-280032/1-A	Method Blank	Total/NA	Water	8270C	280032

Analysis Batch: 281055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112387-3	MW14-ROX-101315	Total/NA	Water	8270C LL	279637
400-112387-4	P66-ROX-101315	Total/NA	Water	8270C LL	279637
LCS 400-279637/2-A	Lab Control Sample	Total/NA	Water	8270C LL	279637
LCSD 400-279637/3-A	Lab Control Sample Dup	Total/NA	Water	8270C LL	279637
MB 400-279637/1-A	Method Blank	Total/NA	Water	8270C LL	279637

QC Association Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112387-1
SDG: Proj. 60400249-21563720.03004

GC Semi VOA

Prep Batch: 279801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112387-2	TB-ROX-101315-8011	Total/NA	Water	8011	
400-112387-3	MW14-ROX-101315	Total/NA	Water	8011	
400-112387-4	P66-ROX-101315	Total/NA	Water	8011	
LCS 400-279801/2-A	Lab Control Sample	Total/NA	Water	8011	
MB 400-279801/1-A	Method Blank	Total/NA	Water	8011	

Analysis Batch: 279999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112387-2	TB-ROX-101315-8011	Total/NA	Water	8011	279801
400-112387-3	MW14-ROX-101315	Total/NA	Water	8011	279801
400-112387-4	P66-ROX-101315	Total/NA	Water	8011	279801
LCS 400-279801/2-A	Lab Control Sample	Total/NA	Water	8011	279801
MB 400-279801/1-A	Method Blank	Total/NA	Water	8011	279801

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112387-1
SDG: Proj. 60400249-21563720.03004

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

Lab Sample ID: MB 400-280323/4
Matrix: Water
Analysis Batch: 280323

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/24/15 10:11	1
Acrolein	ND		20	10	ug/L			10/24/15 10:11	1
Acrylonitrile	ND		10	2.8	ug/L			10/24/15 10:11	1
Benzene	ND		1.0	0.38	ug/L			10/24/15 10:11	1
Bromobenzene	ND		1.0	0.54	ug/L			10/24/15 10:11	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/24/15 10:11	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/24/15 10:11	1
Bromoform	ND		5.0	0.71	ug/L			10/24/15 10:11	1
Bromomethane	ND		1.0	0.98	ug/L			10/24/15 10:11	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/24/15 10:11	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/24/15 10:11	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/24/15 10:11	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/24/15 10:11	1
Chloroethane	ND		1.0	0.76	ug/L			10/24/15 10:11	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/24/15 10:11	1
Chloroform	ND		1.0	0.60	ug/L			10/24/15 10:11	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/24/15 10:11	1
Chloromethane	ND		1.0	0.83	ug/L			10/24/15 10:11	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/24/15 10:11	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/24/15 10:11	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/24/15 10:11	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/24/15 10:11	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/24/15 10:11	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/24/15 10:11	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/24/15 10:11	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/24/15 10:11	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/24/15 10:11	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/24/15 10:11	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/24/15 10:11	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/24/15 10:11	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/24/15 10:11	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/24/15 10:11	1
1,4-Dioxane	ND		400	100	ug/L			10/24/15 10:11	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/24/15 10:11	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/24/15 10:11	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/24/15 10:11	1
2-Hexanone	ND		25	3.1	ug/L			10/24/15 10:11	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/24/15 10:11	1
Methylene bromide	ND		5.0	0.59	ug/L			10/24/15 10:11	1
Methylene chloride	ND		5.0	3.0	ug/L			10/24/15 10:11	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/24/15 10:11	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/24/15 10:11	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/24/15 10:11	1
Naphthalene	ND		1.0	1.0	ug/L			10/24/15 10:11	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/24/15 10:11	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/24/15 10:11	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/24/15 10:11	1
o-Xylene	ND		5.0	0.60	ug/L			10/24/15 10:11	1

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

Lab Sample ID: MB 400-280323/4
Matrix: Water
Analysis Batch: 280323

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/24/15 10:11	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/24/15 10:11	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/24/15 10:11	1
Styrene	ND		1.0	1.0	ug/L			10/24/15 10:11	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/24/15 10:11	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/24/15 10:11	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/24/15 10:11	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/24/15 10:11	1
Toluene	ND		1.0	0.70	ug/L			10/24/15 10:11	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/24/15 10:11	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/24/15 10:11	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/24/15 10:11	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/24/15 10:11	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/24/15 10:11	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/24/15 10:11	1
Trichloroethene	ND		1.0	0.50	ug/L			10/24/15 10:11	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/24/15 10:11	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/24/15 10:11	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/24/15 10:11	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/24/15 10:11	1
Vinyl acetate	ND		25	2.0	ug/L			10/24/15 10:11	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/24/15 10:11	1
Xylenes, Total	ND		10	1.6	ug/L			10/24/15 10:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*78 - 118*		*10/24/15 10:11*	*1*
Dibromofluoromethane	*98*		*81 - 121*		*10/24/15 10:11*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/24/15 10:11*	*1*

Lab Sample ID: LCS 400-280323/1002
Matrix: Water
Analysis Batch: 280323

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	218		ug/L		109	43 - 160
Acrolein	500	492		ug/L		98	38 - 160
Acrylonitrile	500	481		ug/L		96	64 - 142
Benzene	50.0	52.1		ug/L		104	70 - 130
Bromobenzene	50.0	42.0		ug/L		84	70 - 132
Bromochloromethane	50.0	51.6		ug/L		103	70 - 130
Bromodichloromethane	50.0	59.9		ug/L		120	67 - 133
Bromoform	50.0	48.6		ug/L		97	57 - 140
Bromomethane	50.0	63.3		ug/L		127	10 - 160
2-Butanone (MEK)	200	235		ug/L		118	61 - 145
Carbon disulfide	50.0	54.5		ug/L		109	61 - 137
Carbon tetrachloride	50.0	61.0		ug/L		122	61 - 137
Chlorobenzene	50.0	53.2		ug/L		106	70 - 130
Chloroethane	50.0	46.9		ug/L		94	55 - 141

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

Lab Sample ID: LCS 400-280323/1002
Matrix: Water
Analysis Batch: 280323

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloroethyl vinyl ether	50.0	55.5		ug/L		111	10 - 160
Chloroform	50.0	52.7		ug/L		105	69 - 130
1-Chlorohexane	50.0	52.5		ug/L		105	69 - 130
Chloromethane	50.0	57.6		ug/L		115	58 - 137
cis-1,2-Dichloroethene	50.0	53.3		ug/L		107	68 - 130
cis-1,3-Dichloropropene	50.0	57.4		ug/L		115	69 - 132
Dibromochloromethane	50.0	58.1		ug/L		116	67 - 135
1,2-Dichlorobenzene	50.0	43.1		ug/L		86	67 - 130
1,3-Dichlorobenzene	50.0	43.6		ug/L		87	70 - 130
1,4-Dichlorobenzene	50.0	47.7		ug/L		95	70 - 130
Dichlorodifluoromethane	50.0	95.7	*	ug/L		191	41 - 146
1,1-Dichloroethane	50.0	52.3		ug/L		105	70 - 130
1,2-Dichloroethane	50.0	54.4		ug/L		109	69 - 130
1,1-Dichloroethene	50.0	53.0		ug/L		106	63 - 134
1,2-Dichloropropane	50.0	49.5		ug/L		99	70 - 130
1,3-Dichloropropane	50.0	54.8		ug/L		110	70 - 130
2,2-Dichloropropane	50.0	58.5		ug/L		117	52 - 135
1,1-Dichloropropene	50.0	55.3		ug/L		111	70 - 130
1,4-Dioxane	1000	976		ug/L		98	50 - 160
Ethylbenzene	50.0	55.4		ug/L		111	70 - 130
Ethyl methacrylate	50.0	57.9		ug/L		116	68 - 130
Hexachlorobutadiene	50.0	39.1		ug/L		78	53 - 140
2-Hexanone	200	207		ug/L		103	65 - 137
Isopropylbenzene	50.0	54.6		ug/L		109	70 - 130
Methylene bromide	50.0	54.6		ug/L		109	70 - 130
Methylene chloride	50.0	51.8		ug/L		104	66 - 135
4-Methyl-2-pentanone (MIBK)	200	210		ug/L		105	69 - 138
Methyl tert-butyl ether	50.0	56.4		ug/L		113	66 - 130
m-Xylene & p-Xylene	50.0	56.3		ug/L		113	70 - 130
Naphthalene	50.0	43.7		ug/L		87	47 - 149
n-Butylbenzene	50.0	43.5		ug/L		87	67 - 130
N-Propylbenzene	50.0	48.6		ug/L		97	70 - 130
o-Chlorotoluene	50.0	47.3		ug/L		95	70 - 130
o-Xylene	50.0	56.3		ug/L		113	70 - 130
p-Chlorotoluene	50.0	49.0		ug/L		98	70 - 130
p-Isopropyltoluene	50.0	48.5		ug/L		97	65 - 130
sec-Butylbenzene	50.0	46.7		ug/L		93	66 - 130
Styrene	50.0	53.8		ug/L		108	70 - 130
tert-Butylbenzene	50.0	48.1		ug/L		96	64 - 139
1,1,1,2-Tetrachloroethane	50.0	57.6		ug/L		115	67 - 131
1,1,2,2-Tetrachloroethane	50.0	48.4		ug/L		97	70 - 131
Tetrachloroethene	50.0	46.9		ug/L		94	65 - 130
Toluene	50.0	53.2		ug/L		106	70 - 130
trans-1,2-Dichloroethene	50.0	53.2		ug/L		106	70 - 130
trans-1,3-Dichloropropene	50.0	52.5		ug/L		105	63 - 130
1,2,3-Trichlorobenzene	50.0	41.2		ug/L		82	60 - 138
1,2,4-Trichlorobenzene	50.0	40.0		ug/L		80	60 - 140
1,1,1-Trichloroethane	50.0	58.5		ug/L		117	68 - 130

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

Lab Sample ID: LCS 400-280323/1002
Matrix: Water
Analysis Batch: 280323

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	50.0	54.6		ug/L		109	70 - 130
Trichloroethene	50.0	53.1		ug/L		106	70 - 130
Trichlorofluoromethane	50.0	54.1		ug/L		108	65 - 138
1,2,3-Trichloropropane	50.0	50.3		ug/L		101	70 - 130
1,2,4-Trimethylbenzene	50.0	47.4		ug/L		95	70 - 130
1,3,5-Trimethylbenzene	50.0	46.9		ug/L		94	69 - 130
Vinyl acetate	100	109		ug/L		109	26 - 160
Vinyl chloride	50.0	57.6		ug/L		115	59 - 136
Xylenes, Total	100	113		ug/L		113	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*78 - 118*
Dibromofluoromethane	*101*		*81 - 121*
Toluene-d8 (Surr)	*97*		*80 - 120*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-279637/1-A
Matrix: Water
Analysis Batch: 279755

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/20/15 11:18	10/21/15 15:08	1
Benzenethiol	ND		10	1.7	ug/L		10/20/15 11:18	10/21/15 15:08	1
Benzoic acid	ND		30	7.3	ug/L		10/20/15 11:18	10/21/15 15:08	1
Benzyl alcohol	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/20/15 11:18	10/21/15 15:08	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/20/15 11:18	10/21/15 15:08	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/20/15 11:18	10/21/15 15:08	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/20/15 11:18	10/21/15 15:08	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/20/15 11:18	10/21/15 15:08	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/20/15 11:18	10/21/15 15:08	1
4-Chloroaniline	ND		10	3.4	ug/L		10/20/15 11:18	10/21/15 15:08	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/20/15 11:18	10/21/15 15:08	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/20/15 11:18	10/21/15 15:08	1
2-Chlorophenol	ND		10	2.2	ug/L		10/20/15 11:18	10/21/15 15:08	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
Dibenzofuran	ND		10	0.52	ug/L		10/20/15 11:18	10/21/15 15:08	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/20/15 11:18	10/21/15 15:08	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
Diethyl phthalate	ND		10	0.70	ug/L		10/20/15 11:18	10/21/15 15:08	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 15:08	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/20/15 11:18	10/21/15 15:08	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/20/15 11:18	10/21/15 15:08	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/20/15 11:18	10/21/15 15:08	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/20/15 11:18	10/21/15 15:08	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-279637/1-A
Matrix: Water
Analysis Batch: 279755

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/20/15 11:18	10/21/15 15:08	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/20/15 11:18	10/21/15 15:08	1
1,4-Dioxane	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/20/15 11:18	10/21/15 15:08	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/20/15 11:18	10/21/15 15:08	1
Hexachloroethane	ND		10	4.2	ug/L		10/20/15 11:18	10/21/15 15:08	1
Indene	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
Isophorone	ND		10	0.57	ug/L		10/20/15 11:18	10/21/15 15:08	1
2-Methylphenol	ND		10	1.8	ug/L		10/20/15 11:18	10/21/15 15:08	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
2-Nitroaniline	ND		10	2.2	ug/L		10/20/15 11:18	10/21/15 15:08	1
3-Nitroaniline	ND		10	1.8	ug/L		10/20/15 11:18	10/21/15 15:08	1
4-Nitroaniline	ND		10	2.5	ug/L		10/20/15 11:18	10/21/15 15:08	1
Nitrobenzene	ND		10	0.55	ug/L		10/20/15 11:18	10/21/15 15:08	1
2-Nitrophenol	ND		10	0.65	ug/L		10/20/15 11:18	10/21/15 15:08	1
4-Nitrophenol	ND		10	2.1	ug/L		10/20/15 11:18	10/21/15 15:08	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 15:08	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/20/15 11:18	10/21/15 15:08	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/20/15 11:18	10/21/15 15:08	1
Pentachlorophenol	ND		20	1.8	ug/L		10/20/15 11:18	10/21/15 15:08	1
Phenol	ND		10	2.6	ug/L		10/20/15 11:18	10/21/15 15:08	1
Pyridine	ND		10	3.2	ug/L		10/20/15 11:18	10/21/15 15:08	1
Quinoline	ND		10	6.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/20/15 11:18	10/21/15 15:08	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 15:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*83*		*34 - 120*	*10/20/15 11:18*	*10/21/15 15:08*	*1*
2-Fluorophenol	*56*		*10 - 120*	*10/20/15 11:18*	*10/21/15 15:08*	*1*
Nitrobenzene-d5	*87*		*27 - 120*	*10/20/15 11:18*	*10/21/15 15:08*	*1*
Phenol-d5	*77*		*10 - 120*	*10/20/15 11:18*	*10/21/15 15:08*	*1*
Terphenyl-d14	*101*		*53 - 125*	*10/20/15 11:18*	*10/21/15 15:08*	*1*
2,4,6-Tribromophenol	*86*		*15 - 135*	*10/20/15 11:18*	*10/21/15 15:08*	*1*

Lab Sample ID: LCS 400-279637/2-A
Matrix: Water
Analysis Batch: 279755

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	30.0	9.55	J	ug/L		32	10 - 145
Benzoic acid	126	94.5		ug/L		75	10 - 120
Benzyl alcohol	30.0	24.5		ug/L		82	51 - 121
Bis(2-chloroethoxy)methane	30.0	24.7		ug/L		82	54 - 123
Bis(2-chloroethyl)ether	30.0	21.1		ug/L		70	47 - 120
bis (2-chloroisopropyl) ether	30.0	25.7		ug/L		86	20 - 142
Bis(2-ethylhexyl) phthalate	30.0	25.3		ug/L		84	62 - 140

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-279637/2-A
Matrix: Water
Analysis Batch: 279755

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Bromophenyl phenyl ether	30.0	25.5		ug/L		85	62 - 132
Butyl benzyl phthalate	30.0	25.9		ug/L		86	51 - 150
4-Chloroaniline	30.0	4.96	J *	ug/L		17	32 - 128
4-Chloro-3-methylphenol	30.0	28.6		ug/L		95	47 - 135
2-Chloronaphthalene	30.0	25.0		ug/L		83	24 - 150
2-Chlorophenol	30.0	23.8		ug/L		79	45 - 120
4-Chlorophenyl phenyl ether	30.0	26.2		ug/L		87	61 - 133
Dibenzofuran	30.0	25.7		ug/L		86	62 - 124
3,3'-Dichlorobenzidine	30.0	ND	*	ug/L		0	16 - 167
2,4-Dichlorophenol	30.0	26.3		ug/L		88	52 - 125
Diethyl phthalate	30.0	27.3		ug/L		91	55 - 140
2,4-Dimethylphenol	30.0	26.4		ug/L		88	52 - 121
Dimethyl phthalate	30.0	26.1		ug/L		87	50 - 133
Di-n-butyl phthalate	30.0	26.3		ug/L		88	59 - 144
4,6-Dinitro-o-cresol	60.0	53.3		ug/L		89	46 - 136
2,4-Dinitrophenol	86.0	81.1		ug/L		94	22 - 146
2,4-Dinitrotoluene	30.0	28.4		ug/L		95	54 - 141
2,6-Dinitrotoluene	30.0	26.9		ug/L		90	61 - 130
Di-n-octyl phthalate	30.0	26.7		ug/L		89	55 - 140
1,4-Dioxane	30.0	20.6		ug/L		69	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	30.0	24.9		ug/L		83	55 - 139
Hexachlorobenzene	30.0	25.1		ug/L		84	60 - 138
Hexachlorocyclopentadiene	30.0	12.7	J	ug/L		42	1 - 139
Hexachloroethane	30.0	24.2		ug/L		81	46 - 121
Indene	30.0	23.2		ug/L		77	17 - 141
Isophorone	30.0	26.3		ug/L		88	57 - 122
2-Methylphenol	30.0	26.8		ug/L		89	38 - 121
3 & 4 Methylphenol	30.0	25.3		ug/L		84	43 - 126
2-Nitroaniline	30.0	29.1		ug/L		97	52 - 135
3-Nitroaniline	30.0	11.2	*	ug/L		37	51 - 128
4-Nitroaniline	30.0	14.3		ug/L		48	38 - 141
Nitrobenzene	30.0	26.0		ug/L		87	52 - 128
2-Nitrophenol	30.0	25.4		ug/L		85	47 - 129
4-Nitrophenol	60.0	55.0		ug/L		92	34 - 137
N-Nitrosodimethylamine	30.0	24.6		ug/L		82	21 - 134
N-Nitrosodi-n-propylamine	30.0	26.8		ug/L		89	41 - 143
N-Nitrosodiphenylamine	60.0	40.6		ug/L		68	10 - 185
Pentachlorophenol	60.0	52.9		ug/L		88	38 - 138
Phenol	30.0	22.8		ug/L		76	37 - 120
Pyridine	30.0	3.40	J	ug/L		11	10 - 127
2,4,5-Trichlorophenol	30.0	28.5		ug/L		95	53 - 130
2,4,6-Trichlorophenol	30.0	26.9		ug/L		90	52 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*90*		*34 - 120*
2-Fluorophenol	*74*		*10 - 120*
Nitrobenzene-d5	*93*		*27 - 120*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-279637/2-A
Matrix: Water
Analysis Batch: 279755

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279637

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Phenol-d5	*84*		*10 - 120*
Terphenyl-d14	*95*		*53 - 125*
2,4,6-Tribromophenol	*102*		*15 - 135*

Lab Sample ID: LCSD 400-279637/3-A
Matrix: Water
Analysis Batch: 279755

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 279637

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	30.0	4.59	J *	ug/L		15	10 - 145	70	30
Benzoic acid	126	88.3		ug/L		70	10 - 120	7	30
Benzyl alcohol	30.0	24.4		ug/L		81	51 - 121	1	30
Bis(2-chloroethoxy)methane	30.0	25.7		ug/L		86	54 - 123	4	30
Bis(2-chloroethyl)ether	30.0	21.9		ug/L		73	47 - 120	4	30
bis (2-chloroisopropyl) ether	30.0	27.1		ug/L		90	20 - 142	6	30
Bis(2-ethylhexyl) phthalate	30.0	27.2		ug/L		91	62 - 140	7	30
4-Bromophenyl phenyl ether	30.0	27.8		ug/L		93	62 - 132	9	30
Butyl benzyl phthalate	30.0	27.8		ug/L		93	51 - 150	7	30
4-Chloroaniline	30.0	ND	*	ug/L		10	32 - 128	53	30
4-Chloro-3-methylphenol	30.0	29.1		ug/L		97	47 - 135	2	30
2-Chloronaphthalene	30.0	26.6		ug/L		89	24 - 150	6	30
2-Chlorophenol	30.0	24.5		ug/L		82	45 - 120	3	30
4-Chlorophenyl phenyl ether	30.0	27.7		ug/L		92	61 - 133	6	30
Dibenzofuran	30.0	27.4		ug/L		91	62 - 124	6	30
3,3'-Dichlorobenzidine	30.0	ND	*	ug/L		-0.4	16 - 167	200	30
2,4-Dichlorophenol	30.0	26.9		ug/L		90	52 - 125	2	30
Diethyl phthalate	30.0	28.6		ug/L		95	55 - 140	5	30
2,4-Dimethylphenol	30.0	27.3		ug/L		91	52 - 121	3	30
Dimethyl phthalate	30.0	27.2		ug/L		91	50 - 133	4	30
Di-n-butyl phthalate	30.0	28.1		ug/L		94	59 - 144	6	30
4,6-Dinitro-o-cresol	60.0	55.1		ug/L		92	46 - 136	3	30
2,4-Dinitrophenol	86.0	81.2		ug/L		94	22 - 146	0	30
2,4-Dinitrotoluene	30.0	29.9		ug/L		100	54 - 141	5	30
2,6-Dinitrotoluene	30.0	28.7		ug/L		96	61 - 130	6	30
Di-n-octyl phthalate	30.0	28.5		ug/L		95	55 - 140	7	30
1,4-Dioxane	30.0	20.7		ug/L		69	10 - 130	1	30
1,2-Diphenylhydrazine (as Azobenzene)	30.0	26.9		ug/L		90	55 - 139	8	30
Hexachlorobenzene	30.0	27.2		ug/L		91	60 - 138	8	30
Hexachlorocyclopentadiene	30.0	12.6	J	ug/L		42	1 - 139	0	30
Hexachloroethane	30.0	25.6		ug/L		85	46 - 121	5	30
Indene	30.0	24.3		ug/L		81	17 - 141	5	30
Isophorone	30.0	27.9		ug/L		93	57 - 122	6	30
2-Methylphenol	30.0	27.4		ug/L		91	38 - 121	2	30
3 & 4 Methylphenol	30.0	24.8		ug/L		83	43 - 126	2	30
2-Nitroaniline	30.0	30.3		ug/L		101	52 - 135	4	30
3-Nitroaniline	30.0	11.1	*	ug/L		37	51 - 128	0	30
4-Nitroaniline	30.0	14.2		ug/L		47	38 - 141	1	30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-279637/3-A
Matrix: Water
Analysis Batch: 279755

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 279637

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrobenzene	30.0	27.3		ug/L		91	52 - 128	5	30
2-Nitrophenol	30.0	26.2		ug/L		87	47 - 129	3	30
4-Nitrophenol	60.0	48.9		ug/L		82	34 - 137	12	30
N-Nitrosodimethylamine	30.0	23.8		ug/L		79	21 - 134	3	30
N-Nitrosodi-n-propylamine	30.0	28.5		ug/L		95	41 - 143	6	30
N-Nitrosodiphenylamine	60.0	43.8		ug/L		73	10 - 185	8	30
Pentachlorophenol	60.0	55.3		ug/L		92	38 - 138	4	30
Phenol	30.0	22.2		ug/L		74	37 - 120	3	30
Pyridine	30.0	ND	*	ug/L		7	10 - 127	53	30
2,4,5-Trichlorophenol	30.0	29.5		ug/L		98	53 - 130	3	30
2,4,6-Trichlorophenol	30.0	28.0		ug/L		93	52 - 131	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*95*		*34 - 120*
2-Fluorophenol	*74*		*10 - 120*
Nitrobenzene-d5	*97*		*27 - 120*
Phenol-d5	*79*		*10 - 120*
Terphenyl-d14	*101*		*53 - 125*
2,4,6-Tribromophenol	*103*		*15 - 135*

Lab Sample ID: MB 400-280032/1-A
Matrix: Water
Analysis Batch: 280147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 280032

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/22/15 10:55	10/23/15 15:54	1
4-Chloroaniline	ND		10	3.4	ug/L		10/22/15 10:55	10/23/15 15:54	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/22/15 10:55	10/23/15 15:54	1
3-Nitroaniline	ND		10	1.8	ug/L		10/22/15 10:55	10/23/15 15:54	1
Pyridine	ND		10	3.2	ug/L		10/22/15 10:55	10/23/15 15:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*34 - 120*	*10/22/15 10:55*	*10/23/15 15:54*	*1*
2-Fluorophenol	*54*		*10 - 120*	*10/22/15 10:55*	*10/23/15 15:54*	*1*
Nitrobenzene-d5	*80*		*27 - 120*	*10/22/15 10:55*	*10/23/15 15:54*	*1*
Phenol-d5	*73*		*10 - 120*	*10/22/15 10:55*	*10/23/15 15:54*	*1*
Terphenyl-d14	*88*		*53 - 125*	*10/22/15 10:55*	*10/23/15 15:54*	*1*
2,4,6-Tribromophenol	*83*		*15 - 135*	*10/22/15 10:55*	*10/23/15 15:54*	*1*

Lab Sample ID: LCS 400-280032/2-A
Matrix: Water
Analysis Batch: 280147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280032

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	25.0	20.0		ug/L		80	10 - 145
4-Chloroaniline	25.0	19.1		ug/L		77	32 - 128
3,3'-Dichlorobenzidine	25.0	22.1		ug/L		88	16 - 167
3-Nitroaniline	25.0	20.5		ug/L		82	51 - 128

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-280032/2-A
Matrix: Water
Analysis Batch: 280147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280032

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pyridine	25.0	15.6		ug/L		63	10 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*82*		*34 - 120*
2-Fluorophenol	*70*		*10 - 120*
Nitrobenzene-d5	*79*		*27 - 120*
Phenol-d5	*78*		*10 - 120*
Terphenyl-d14	*92*		*53 - 125*
2,4,6-Tribromophenol	*89*		*15 - 135*

Lab Sample ID: LCSD 400-280032/3-A
Matrix: Water
Analysis Batch: 280147

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 280032

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	25.0	19.9		ug/L		80	10 - 145	1	30
4-Chloroaniline	25.0	18.7		ug/L		75	32 - 128	2	30
3,3'-Dichlorobenzidine	25.0	22.5		ug/L		90	16 - 167	2	30
3-Nitroaniline	25.0	20.3		ug/L		81	51 - 128	1	30
Pyridine	25.0	15.5		ug/L		62	10 - 127	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*81*		*34 - 120*
2-Fluorophenol	*71*		*10 - 120*
Nitrobenzene-d5	*76*		*27 - 120*
Phenol-d5	*76*		*10 - 120*
Terphenyl-d14	*89*		*53 - 125*
2,4,6-Tribromophenol	*87*		*15 - 135*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 400-279637/1-A
Matrix: Water
Analysis Batch: 281055

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 11:52	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 11:52	1
Anthracene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 11:52	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 11:52	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 11:52	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 11:52	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 11:52	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 11:52	1
Chrysene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 11:52	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 11:52	1
Fluoranthene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 11:52	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 400-279637/1-A
Matrix: Water
Analysis Batch: 281055

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	ND		0.20	0.021	ug/L		10/20/15 11:18	10/29/15 11:52	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 11:52	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 11:52	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 11:52	1
Phenanthrene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 11:52	1
Pyrene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 11:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*15 - 122*	*10/20/15 11:18*	*10/29/15 11:52*	*1*
Nitrobenzene-d5	*79*		*19 - 130*	*10/20/15 11:18*	*10/29/15 11:52*	*1*
Terphenyl-d14	*95*		*33 - 138*	*10/20/15 11:18*	*10/29/15 11:52*	*1*

Lab Sample ID: LCS 400-279637/2-A
Matrix: Water
Analysis Batch: 281055

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	30.0	23.4		ug/L		78	41 - 120
Acenaphthylene	30.0	24.1		ug/L		80	44 - 120
Anthracene	30.0	23.3		ug/L		78	49 - 120
Benzo[a]anthracene	30.0	24.1		ug/L		80	61 - 135
Benzo[a]pyrene	30.0	19.4		ug/L		65	52 - 120
Benzo[b]fluoranthene	30.0	18.3		ug/L		61	53 - 134
Benzo[g,h,i]perylene	30.0	19.9		ug/L		66	47 - 133
Benzo[k]fluoranthene	30.0	20.1		ug/L		67	57 - 134
Chrysene	30.0	23.5		ug/L		78	55 - 122
Dibenz(a,h)anthracene	30.0	20.7		ug/L		69	48 - 146
Fluoranthene	30.0	23.7		ug/L		79	54 - 128
Fluorene	30.0	23.9		ug/L		80	45 - 125
Indeno[1,2,3-cd]pyrene	30.0	22.0		ug/L		73	43 - 142
1-Methylnaphthalene	30.0	23.2		ug/L		77	41 - 120
2-Methylnaphthalene	30.0	23.5		ug/L		78	32 - 124
Phenanthrene	30.0	23.4		ug/L		78	48 - 120
Pyrene	30.0	24.3		ug/L		81	48 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*85*		*15 - 122*
Nitrobenzene-d5	*94*		*19 - 130*
Terphenyl-d14	*88*		*33 - 138*

Lab Sample ID: LCSD 400-279637/3-A
Matrix: Water
Analysis Batch: 281055

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 279637

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	30.0	25.4		ug/L		85	41 - 120	8	56
Acenaphthylene	30.0	26.0		ug/L		87	44 - 120	8	56
Anthracene	30.0	25.3		ug/L		84	49 - 120	8	51

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCSD 400-279637/3-A
Matrix: Water
Analysis Batch: 281055

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 279637

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[a]anthracene	30.0	25.8		ug/L		86	61 - 135	7	49
Benzo[a]pyrene	30.0	21.1		ug/L		70	52 - 120	8	50
Benzo[b]fluoranthene	30.0	20.1		ug/L		67	53 - 134	10	54
Benzo[g,h,i]perylene	30.0	21.6		ug/L		72	47 - 133	8	50
Benzo[k]fluoranthene	30.0	22.4		ug/L		75	57 - 134	11	52
Chrysene	30.0	25.4		ug/L		85	55 - 122	8	50
Dibenz(a,h)anthracene	30.0	22.6		ug/L		75	48 - 146	9	50
Fluoranthene	30.0	25.3		ug/L		84	54 - 128	7	52
Fluorene	30.0	25.8		ug/L		86	45 - 125	7	56
Indeno[1,2,3-cd]pyrene	30.0	24.1		ug/L		80	43 - 142	9	51
1-Methylnaphthalene	30.0	25.1		ug/L		84	41 - 120	8	55
2-Methylnaphthalene	30.0	25.5		ug/L		85	32 - 124	8	57
Phenanthrene	30.0	25.4		ug/L		85	48 - 120	8	56
Pyrene	30.0	26.1		ug/L		87	48 - 132	7	52

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*84*		*15 - 122*
Nitrobenzene-d5	*92*		*19 - 130*
Terphenyl-d14	*87*		*33 - 138*

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-279801/1-A
Matrix: Water
Analysis Batch: 279999

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279801

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/21/15 08:51	10/22/15 18:50	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/21/15 08:51	10/22/15 18:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*117*		*51 - 149*	*10/21/15 08:51*	*10/22/15 18:50*	*1*

Lab Sample ID: LCS 400-279801/2-A
Matrix: Water
Analysis Batch: 279999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279801

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.100	0.102		ug/L		102	60 - 140
1,2-Dibromoethane	0.100	0.103		ug/L		103	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*108*		*51 - 149*

Client Sample ID: TB-ROX-101315-8260

Lab Sample ID: 400-112387-1
Matrix: Water

Date Collected: 10/13/15 00:00
Date Received: 10/14/15 09:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	280323	10/24/15 15:37	CLN	TAL PEN

Client Sample ID: TB-ROX-101315-8011

Lab Sample ID: 400-112387-2
Matrix: Water

Date Collected: 10/13/15 00:00
Date Received: 10/14/15 09:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	279801	10/21/15 08:51	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	279999	10/23/15 04:43	AM	TAL PEN

Client Sample ID: MW14-ROX-101315

Lab Sample ID: 400-112387-3
Matrix: Water

Date Collected: 10/13/15 09:45
Date Received: 10/14/15 09:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	280323	10/24/15 16:02	CLN	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	279761	10/21/15 22:17	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280147	10/23/15 18:30	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	281055	10/29/15 17:31	CEP	TAL PEN
Total/NA	Prep	8011			33.4 mL	35 mL	279801	10/21/15 08:51	AM	TAL PEN
Total/NA	Analysis	8011		1	33.4 mL	35 mL	279999	10/23/15 05:42	AM	TAL PEN

Client Sample ID: P66-ROX-101315

Lab Sample ID: 400-112387-4
Matrix: Water

Date Collected: 10/13/15 11:30
Date Received: 10/14/15 09:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	280323	10/24/15 16:28	CLN	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	279761	10/21/15 22:55	KJA	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280147	10/23/15 19:09	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	281055	10/29/15 18:09	CEP	TAL PEN
Total/NA	Prep	8011			35.2 mL	35 mL	279801	10/21/15 08:51	AM	TAL PEN
Total/NA	Analysis	8011		1	35.2 mL	35 mL	279999	10/23/15 06:12	AM	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-279637/2-A

Matrix: Water

Date Collected: N/A
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	279755	10/21/15 15:46	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C LL		5	1000 mL	1 mL	281055	10/29/15 12:30	CEP	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-279801/2-A

Matrix: Water

Date Collected: N/A
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	279801	10/21/15 08:51	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	279999	10/22/15 19:19	AM	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-280032/2-A

Matrix: Water

Date Collected: N/A
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280147	10/23/15 16:33	AJR	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-280323/1002

Matrix: Water

Date Collected: N/A
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	280323	10/24/15 09:21	CLN	TAL PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-279637/3-A

Matrix: Water

Date Collected: N/A
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	279755	10/21/15 16:25	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C LL		5	1000 mL	1 mL	281055	10/29/15 13:07	CEP	TAL PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-280032/3-A

Matrix: Water

Date Collected: N/A
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280147	10/23/15 17:12	AJR	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-279637/1-A

Matrix: Water

Date Collected: N/A
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	279755	10/21/15 15:08	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	281055	10/29/15 11:52	CEP	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-279801/1-A

Matrix: Water

Date Collected: N/A
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	279801	10/21/15 08:51	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	279999	10/22/15 18:50	AM	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-280032/1-A

Matrix: Water

Date Collected: N/A
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280147	10/23/15 15:54	AJR	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-280323/4

Matrix: Water

Date Collected: N/A
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	280323	10/24/15 10:11	CLN	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112387-1
SDG: Proj. 60400249-21563720.03004

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL PEN
8011	EDB and DBCP in Water by Microextraction	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112387-1
SDG: Proj. 60400249-21563720.03004

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	08-31-15 *
Arizona	State Program	9	AZ0710	01-11-16
Arkansas DEQ	State Program	6	88-0689	09-01-16
Florida	NELAP	4	E81010	06-30-16
Georgia	State Program	4	N/A	06-30-16
Iowa	State Program	7	367	07-31-16
Kansas	NELAP	7	E-10253	10-31-15 *
Kentucky (UST)	State Program	4	53	06-30-16
Kentucky (WW)	State Program	4	98030	12-31-15
Louisiana	NELAP	6	30976	06-30-16
Maryland	State Program	3	233	09-30-16
Massachusetts	State Program	1	M-FL094	06-30-16
Michigan	State Program	5	9912	06-30-16
New Jersey	NELAP	2	FL006	10-30-15
North Carolina (WW/SW)	State Program	4	314	12-31-15
Oklahoma	State Program	6	9810	08-31-16
Pennsylvania	NELAP	3	68-00467	01-31-16
Rhode Island	State Program	1	LAO00307	12-30-15
South Carolina	State Program	4	96026	06-30-15 *
Tennessee	State Program	4	TN02907	06-30-16
Texas	NELAP	6	T104704286-15-9	09-30-16
USDA	Federal		P330-13-00193	07-01-16
Virginia	NELAP	3	460166	06-14-16
West Virginia DEP	State Program	3	136	06-30-16

* Certification renewal pending - certification considered valid.

Shell Oil Products Chain Of Custody Record

AECOM

LAB (LOCATION)

☐ KENCO ( )
☐ CALSCIENCE ( )
☑ OTHER (TestAmerica Pensacola; 3355 McLemore Dr. Pensacola, FL 32514 (850-474-1001))
☐ SPL (Lab Vendor #)

Lab Vendor #

Please Check Appropriate Box:

☑ ENV. SERVICES	☐ MOTIVA RETAIL	☐ SHELL RETAIL
☐ MOTIVA SD&CM	☐ CONSULTANT	☐ LUBES
☐ SHELL PIPELINE	☐ OTHER:	

Print Bill To Contact Name: Bob Billman

INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 13 Oct. 2015

PAGE: 1 of 1

PO #: 60400249-21563720.03004

SAP #: 3 4 0 0 6 1

SAMPLING COMPANY: AECOM

LOG CODE:

SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA

State: IL

GLOBAL ID NO.:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110

EDF DELIVERABLE TO (Name, Company, Office Location):

PHONE NO.:

E-MAIL:

CONSULTANT PROJECT NO.: Roxana Quarterly GW / 60400249-21563720.03004

PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow

SAMPLER NAME(S) (Print): S. Fishea / D. Haxel

LAB USE ONLY

TELEPHONE: 314-429-0100

FAX: 314-429-0462

EDD To Contact E-MAIL: bob.billman@aecom.com; elizabeth.kunkel@aecom.com; lindsay.rathnow@aecom.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

SPECIAL INSTRUCTIONS OR NOTES :
* Please include "J" values on Reports.
* Please provide sample receipt upon login.

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

400-112387 COC

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260	VOC 8011	SVOC 8270	PAH 8270LL	Comments
	TB-ROX-101315-8260	10/13/15	0000	Water	2					2	2				
	TB-ROX-101315-8011		0000		2					2		2			
	MW14-ROX-101315		0945		4			3		7	X	X	X	X	
	P66-ROX-101315		1130		4			3		7	X	X	X	X	

13 Oct. 2015

Relinquished by: (Signature)

Received by: (Signature) FED EX # 8092 2040 9667

Date: 13 Oct. 2015 Time:

Relinquished by: (Signature)

Received by: (Signature)

Date: 10/14/15 Time: 0949

Relinquished by: (Signature)

Received by: (Signature)

Date: Time:

05/2/05 Revision

Custody seal: Test America 524370 1.4° C IR5

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10/31/2015

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 400-112387-1
SDG Number: Proj. 60400249-21563720.03004

Login Number: 112387
List Number: 1
Creator: Crawford, Lauren E

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4°C IR-5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Roxana Groundwater Quarterly – 4th Quarter 2015 Data Review

Laboratory SDG: 400-112444

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 12/7/2015

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2014

Sample Identification	Sample Identification
TB-ROX-101415-8260	TB-ROX-101415-8011
P74-ROX-101415	MW22-ROX-101415

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated that SVOC re-analysis of samples P74-ROX-101415 and MW22-ROX-101415 was performed outside of hold time. SVOC LCS/LCSD recoveries and SVOC LCS/LCSD RPDs for several analytes were outside evaluation criteria. The surrogate 2-fluorophenol was outside criteria for Method 8270 SVOCs in the initial run of sample MW22-ROX-101415, and surrogates 2-fluorophenol and terphenyl-d_{14} were outside criteria for Method 8270 SVOCs in the confirmation run of sample MW22-ROX-101415. VOCs in samples P74-ROX-101415 and MW22-ROX-101415 were diluted due to high levels of target analytes. These issues are addressed further in the appropriate sections below.

Additionally, the initial calibration verification for vinyl acetate exceeded evaluation criteria. Three of 69 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds, results may be biased low due to the presence of HCl in the preservative.

The cooler receipt form indicated insufficient sample volume was received for MS/MSD analysis, however MS/MSD analysis was not requested; no qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

No, re-extraction of SVOCs aniline, 4-chloroaniline, 3,3'-dichlorobenzidine, 3-nitroaniline, and pyridine in samples P74-ROX-101415 and MW22-ROX-101415 was performed approximately 1 day outside of hold time for extraction (7 days) due to quality control spiking problems in the associated extraction batch. Target analytes were non-detect and, therefore, reported using the initial run extracted and analyzed within holding time criteria. SVOCs in the initial run were appropriately qualified due to LCS recovery (see Section 5.0). No qualification of data based on hold time was required.

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS/LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD /RPD Criteria
LCS/LCSD 400-279637/2-A/3-A	SVOCs	Aniline	32/15	**70**	10-145/30
LCS/LCSD 400-279637/2-A/3-A	SVOCs	4-Chloroaniline	**17/10**	**53**	32-128/30
LCS/LCSD 400-279637/2-A/3-A	SVOCs	3,3'-Dichlorobenzidine	**0/-0.4**	**200**	16-167/30
LCS/LCSD 400-279637/2-A/3-A	SVOCs	3-Nitroaniline	**37/37**	0	51-128/30
LCS/LCSD 400-279637/2-A/3-A	SVOCs	Pyridine	11/**7**	**53**	10-127/30

Analytical data that required qualification based on LCS data are included in the table below. Analytical data reported as non-detect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. Analytical data associated with LCS/LCSD RPDs above evaluation criteria did not require qualification; LCS/LCSD recoveries were within evaluation criteria.

Sample ID	Parameter	Analyte	Qualification
P74-ROX-101415 Run #1	SVOCs	4-Chloroaniline	**UJ**
P74-ROX-101415 Run #1	SVOCs	3,3'-Dichlorobenzidine	**UJ**
P74-ROX-101415 Run #1	SVOCs	3-Nitroaniline	**UJ**
P74-ROX-101415 Run #1	SVOCs	Pyridine	**UJ**
MW22-ROX-101415 Run #1	SVOCs	4-Chloroaniline	**UJ**
MW22-ROX-101415 Run #1	SVOCs	3,3'-Dichlorobenzidine	**UJ**
MW22-ROX-101415 Run #1	SVOCs	3-Nitroaniline	**UJ**
MW22-ROX-101415 Run #1	SVOCs	Pyridine	**J**

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Sample ID	Parameter	Surrogate	Recovery (%)	Criteria (%)
MW22-ROX-101415 Run #1	SVOCs	2-Fluorophenol	**0**	10-120
MW22-ROX-101415 Run #2	SVOCs	2-Fluorophenol	**0**	10-120
MW22-ROX-101415 Run #2	SVOCs	Terphenyl-d_{14}	**45**	53-125

Qualifications due to surrogate recoveries were not required due to only one of six SVOC surrogate recoveries being outside evaluation criteria in the initial run of sample MW22-ROX-101415. The confirmation run of sample MW22-ROX-101415 was not used due to re-extraction performed outside holding time criteria. No qualification of data was required.

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

No

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

Yes

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples analyzed as part of this SDG?

No

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

11.0 Sample Dilutions

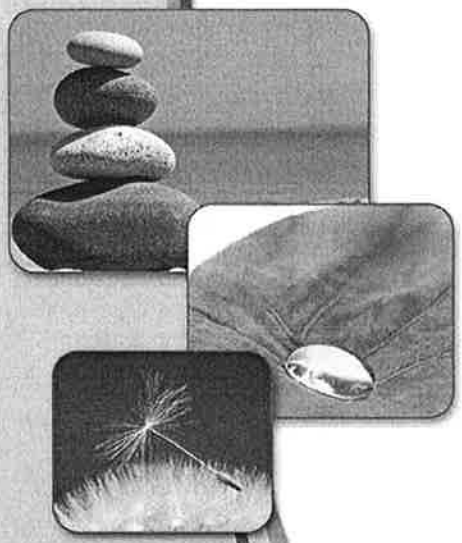
For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples requiring dilution.

12.0 Additional Qualifications

Were additional qualifications applied?

No



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-112444-1
TestAmerica SDG: Proj. 60400249-21563720.03004
Client Project/Site: ROXANA QUARTERLY GW - 4Q15

For:
AECOM Technical Services Inc.
1001 Highlands Plaza Dr. West
St. Louis, Missouri 63110

Attn: Mrs. Elizabeth Kunkel

Carolyn S. Hooper

Authorized for release by:
10/31/2015 2:15:13 PM

Carolyn Hooper, Project Manager I
(850)474-1001
carolyn.hooper@testamericainc.com

LINKS

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Reviewed 12/7/15

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112444-1
SDG: Proj. 60400249-21563720.03004

Job ID: 400-112444-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-112444-1

Receipt
The samples were received on 10/15/2015 9:57 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.8°C.

GC/MS VOA
Method 8260B: The initial calibration verification (ICV) analyzed in batch 400-274907 was outside method criteria for the following analyte: Vinyl acetate As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

The matrix spike (MS) recoveries for batch 279952 were outside control limits for one analyte due to matrix interference.

The preservative (HCL) used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The requested target analyte list includes 2-chloroethyl vinyl ether, Acrolein and Acrylonitrile, which are acid-labile compounds that degrade in an acidic medium.

GC/MS Semi VOA
Method 8270C: Surrogate recovery for the following sample was outside control limits: MW22-ROX-101415 (400-112444-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Surrogate recovery for the following sample was outside control limits: MW22-ROX-101415 (400-112444-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

The following samples were re-prepared outside of preparation holding time due to failing compounds in the LCS/D from the original extraction batch: P74-ROX-101415 (400-112444-3) and MW22-ROX-101415 (400-112444-4). The two sets of results have been reported.

The following sample was diluted to bring the concentration of target analytes within the calibration range: MW22-ROX-101415 (400-112444-4). Elevated reporting limits (RLs) are provided.

GC Semi VOA
Method 8011: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-279801 and analytical batch 400-279999 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Organic Prep
Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 8270 / LL.analytical batch 400-279637.

Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 8270. analytical batch 400-280032.

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

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112444-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: TB-ROX-101415-8260 — Lab Sample ID: 400-112444-1

No Detections.

Client Sample ID: TB-ROX-101415-8011 — Lab Sample ID: 400-112444-2

No Detections.

Client Sample ID: P74-ROX-101415 — Lab Sample ID: 400-112444-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	310		130	50	ug/L	5		8260B	Total/NA
Benzene	1200		5.0	1.9	ug/L	5		8260B	Total/NA
Ethylbenzene	56		5.0	2.5	ug/L	5		8260B	Total/NA
m-Xylene & p-Xylene	210		25	8.0	ug/L	5		8260B	Total/NA
Naphthalene	20		5.0	5.0	ug/L	5		8260B	Total/NA
N-Propylbenzene	3.8	J	5.0	3.5	ug/L	5		8260B	Total/NA
o-Xylene	7.1	J	25	3.0	ug/L	5		8260B	Total/NA
Toluene	12		5.0	3.5	ug/L	5		8260B	Total/NA
1,2,4-Trimethylbenzene	81		5.0	4.1	ug/L	5		8260B	Total/NA
1,3,5-Trimethylbenzene	33		5.0	2.8	ug/L	5		8260B	Total/NA
Xylenes, Total	210		25	3.0	ug/L	5		8260B	Total/NA
Fluorene	0.12	J	0.20	0.021	ug/L	1		8270C LL	Total/NA
1-Methylnaphthalene	3.2		0.20	0.020	ug/L	1		8270C LL	Total/NA
2-Methylnaphthalene	3.1		0.20	0.020	ug/L	1		8270C LL	Total/NA
Pyrene	0.037	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
2,4-Dimethylphenol	21		10	3.5	ug/L	1		8270C	Total/NA
Di-n-octyl phthalate	0.89	J	10	0.44	ug/L	1		8270C	Total/NA
Indene	2.2	J	10	1.0	ug/L	1		8270C	Total/NA
Phenol	100		10	2.6	ug/L	1		8270C	Total/NA

Client Sample ID: MW22-ROX-101415 — Lab Sample ID: 400-112444-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	800		20	7.6	ug/L	20		8260B	Total/NA
Ethylbenzene	1600		20	10	ug/L	20		8260B	Total/NA
Isopropylbenzene	48		20	11	ug/L	20		8260B	Total/NA
m-Xylene & p-Xylene	3000		100	32	ug/L	20		8260B	Total/NA
Naphthalene	180		20	20	ug/L	20		8260B	Total/NA
N-Propylbenzene	75		20	14	ug/L	20		8260B	Total/NA
o-Xylene	1600		100	12	ug/L	20		8260B	Total/NA
Toluene	960		20	14	ug/L	20		8260B	Total/NA
1,2,4-Trimethylbenzene	470		20	16	ug/L	20		8260B	Total/NA
1,3,5-Trimethylbenzene	110		20	11	ug/L	20		8260B	Total/NA
Xylenes, Total	4600		100	12	ug/L	20		8260B	Total/NA
1-Methylnaphthalene	15		0.20	0.020	ug/L	1		8270C LL	Total/NA
2-Methylnaphthalene	26		0.20	0.020	ug/L	1		8270C LL	Total/NA
2,4-Dimethylphenol	15		10	3.5	ug/L	1		8270C	Total/NA
Indene	21		10	1.0	ug/L	1		8270C	Total/NA
2-Methylphenol	5.5	J	10	1.8	ug/L	1		8270C	Total/NA
3 & 4 Methylphenol	9.7	J	20	1.0	ug/L	1		8270C	Total/NA
Phenol	8.2	J	10	2.6	ug/L	1		8270C	Total/NA
Pyridine	3.8	J * J	10	3.2	ug/L	1		8270C	Total/NA

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112444-1
SDG: Proj. 60400249-21563720.03004

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-112444-1	TB-ROX-101415-8260	Water	10/14/15 00:00	10/15/15 09:57
400-112444-2	TB-ROX-101415-8011	Water	10/14/15 00:00	10/15/15 09:57
400-112444-3	P74-ROX-101415	Water	10/14/15 10:50	10/15/15 09:57
400-112444-4	MW22-ROX-101415	Water	10/14/15 15:20	10/15/15 09:57

Client Sample ID: TB-ROX-101415-8260

Date Collected: 10/14/15 00:00
Date Received: 10/15/15 09:57

Lab Sample ID: 400-112444-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/22/15 16:07	1
Acrolein	ND		20	10	ug/L			10/22/15 16:07	1
Acrylonitrile	ND		10	2.8	ug/L			10/22/15 16:07	1
Benzene	ND		1.0	0.38	ug/L			10/22/15 16:07	1
Bromobenzene	ND		1.0	0.54	ug/L			10/22/15 16:07	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/22/15 16:07	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/22/15 16:07	1
Bromoform	ND		5.0	0.71	ug/L			10/22/15 16:07	1
Bromomethane	ND		1.0	0.98	ug/L			10/22/15 16:07	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/22/15 16:07	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/22/15 16:07	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/22/15 16:07	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/22/15 16:07	1
Chloroethane	ND		1.0	0.76	ug/L			10/22/15 16:07	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/22/15 16:07	1
Chloroform	ND		1.0	0.60	ug/L			10/22/15 16:07	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/22/15 16:07	1
Chloromethane	ND		1.0	0.83	ug/L			10/22/15 16:07	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 16:07	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/15 16:07	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/22/15 16:07	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/22/15 16:07	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/22/15 16:07	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/22/15 16:07	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/22/15 16:07	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/22/15 16:07	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/22/15 16:07	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 16:07	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 16:07	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 16:07	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 16:07	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/22/15 16:07	1
1,4-Dioxane	ND		400	100	ug/L			10/22/15 16:07	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/22/15 16:07	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/22/15 16:07	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/22/15 16:07	1
2-Hexanone	ND		25	3.1	ug/L			10/22/15 16:07	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/22/15 16:07	1
Methylene bromide	ND		5.0	0.59	ug/L			10/22/15 16:07	1
Methylene chloride	ND		5.0	3.0	ug/L			10/22/15 16:07	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/22/15 16:07	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/22/15 16:07	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/22/15 16:07	1
Naphthalene	ND		1.0	1.0	ug/L			10/22/15 16:07	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/22/15 16:07	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/22/15 16:07	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/22/15 16:07	1
o-Xylene	ND		5.0	0.60	ug/L			10/22/15 16:07	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/22/15 16:07	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112444-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: TB-ROX-101415-8260
Date Collected: 10/14/15 00:00
Date Received: 10/15/15 09:57

Lab Sample ID: 400-112444-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/22/15 16:07	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/22/15 16:07	1
Styrene	ND		1.0	1.0	ug/L			10/22/15 16:07	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/22/15 16:07	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/22/15 16:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/22/15 16:07	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/22/15 16:07	1
Toluene	ND		1.0	0.70	ug/L			10/22/15 16:07	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 16:07	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/15 16:07	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/22/15 16:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/22/15 16:07	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/22/15 16:07	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/22/15 16:07	1
Trichloroethene	ND		1.0	0.50	ug/L			10/22/15 16:07	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/22/15 16:07	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/22/15 16:07	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/22/15 16:07	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/22/15 16:07	1
Vinyl acetate	ND		25	2.0	ug/L			10/22/15 16:07	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/22/15 16:07	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/22/15 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*78 - 118*		*10/22/15 16:07*	*1*
Dibromofluoromethane	*101*		*81 - 121*		*10/22/15 16:07*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/22/15 16:07*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112444-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: TB-ROX-101415-8011
Date Collected: 10/14/15 00:00
Date Received: 10/15/15 09:57

Lab Sample ID: 400-112444-2
Matrix: Water

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.029	0.0053	ug/L		10/21/15 08:51	10/23/15 00:16	1
1,2-Dibromoethane	ND		0.019	0.0048	ug/L		10/21/15 08:51	10/23/15 00:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*51 - 149*	*10/21/15 08:51*	*10/23/15 00:16*	*1*

Client Sample ID: P74-ROX-101415

Date Collected: 10/14/15 10:50
Date Received: 10/15/15 09:57

Lab Sample ID: 400-112444-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**310**		130	50	ug/L			10/22/15 16:29	5
Acrolein	ND		100	50	ug/L			10/22/15 16:29	5
Acrylonitrile	ND		50	14	ug/L			10/22/15 16:29	5
Benzene	**1200**		5.0	1.9	ug/L			10/22/15 16:29	5
Bromobenzene	ND		5.0	2.7	ug/L			10/22/15 16:29	5
Bromochloromethane	ND		5.0	2.6	ug/L			10/22/15 16:29	5
Bromodichloromethane	ND		5.0	2.5	ug/L			10/22/15 16:29	5
Bromoform	ND		25	3.6	ug/L			10/22/15 16:29	5
Bromomethane	ND		5.0	4.9	ug/L			10/22/15 16:29	5
2-Butanone (MEK)	ND		130	13	ug/L			10/22/15 16:29	5
Carbon disulfide	ND		5.0	2.5	ug/L			10/22/15 16:29	5
Carbon tetrachloride	ND		5.0	2.5	ug/L			10/22/15 16:29	5
Chlorobenzene	ND		5.0	2.5	ug/L			10/22/15 16:29	5
Chloroethane	ND		5.0	3.8	ug/L			10/22/15 16:29	5
2-Chloroethyl vinyl ether	ND		25	10	ug/L			10/22/15 16:29	5
Chloroform	ND		5.0	3.0	ug/L			10/22/15 16:29	5
1-Chlorohexane	ND		5.0	3.5	ug/L			10/22/15 16:29	5
Chloromethane	ND		5.0	4.2	ug/L			10/22/15 16:29	5
cis-1,2-Dichloroethene	ND		5.0	2.5	ug/L			10/22/15 16:29	5
cis-1,3-Dichloropropene	ND		25	2.5	ug/L			10/22/15 16:29	5
Dibromochloromethane	ND		5.0	2.5	ug/L			10/22/15 16:29	5
1,2-Dichlorobenzene	ND		5.0	2.5	ug/L			10/22/15 16:29	5
1,3-Dichlorobenzene	ND		5.0	2.7	ug/L			10/22/15 16:29	5
1,4-Dichlorobenzene	ND		5.0	3.2	ug/L			10/22/15 16:29	5
Dichlorodifluoromethane	ND		5.0	4.3	ug/L			10/22/15 16:29	5
1,1-Dichloroethane	ND		5.0	2.5	ug/L			10/22/15 16:29	5
1,2-Dichloroethane	ND		5.0	2.5	ug/L			10/22/15 16:29	5
1,1-Dichloroethene	ND		5.0	2.5	ug/L			10/22/15 16:29	5
1,2-Dichloropropane	ND		5.0	2.5	ug/L			10/22/15 16:29	5
1,3-Dichloropropane	ND		5.0	2.5	ug/L			10/22/15 16:29	5
2,2-Dichloropropane	ND		5.0	2.5	ug/L			10/22/15 16:29	5
1,1-Dichloropropene	ND		5.0	2.5	ug/L			10/22/15 16:29	5
1,4-Dioxane	ND		2000	500	ug/L			10/22/15 16:29	5
Ethylbenzene	**56**		5.0	2.5	ug/L			10/22/15 16:29	5
Ethyl methacrylate	ND		5.0	3.0	ug/L			10/22/15 16:29	5
Hexachlorobutadiene	ND		25	4.5	ug/L			10/22/15 16:29	5
2-Hexanone	ND		130	16	ug/L			10/22/15 16:29	5
Isopropylbenzene	ND		5.0	2.7	ug/L			10/22/15 16:29	5
Methylene bromide	ND		25	3.0	ug/L			10/22/15 16:29	5
Methylene chloride	ND		25	15	ug/L			10/22/15 16:29	5
4-Methyl-2-pentanone (MIBK)	ND		130	9.0	ug/L			10/22/15 16:29	5
Methyl tert-butyl ether	ND		5.0	3.7	ug/L			10/22/15 16:29	5
m-Xylene & p-Xylene	**210**		25	8.0	ug/L			10/22/15 16:29	5
Naphthalene	**20**		5.0	5.0	ug/L			10/22/15 16:29	5
n-Butylbenzene	ND		5.0	3.8	ug/L			10/22/15 16:29	5
N-Propylbenzene	**3.8**	**J**	5.0	3.5	ug/L			10/22/15 16:29	5
o-Chlorotoluene	ND		5.0	2.9	ug/L			10/22/15 16:29	5
o-Xylene	**7.1**	**J**	25	3.0	ug/L			10/22/15 16:29	5
p-Chlorotoluene	ND		5.0	2.8	ug/L			10/22/15 16:29	5

Client Sample ID: P74-ROX-101415
Date Collected: 10/14/15 10:50
Date Received: 10/15/15 09:57

Lab Sample ID: 400-112444-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		5.0	3.6	ug/L			10/22/15 16:29	5
sec-Butylbenzene	ND		5.0	3.5	ug/L			10/22/15 16:29	5
Styrene	ND		5.0	5.0	ug/L			10/22/15 16:29	5
tert-Butylbenzene	ND		5.0	3.2	ug/L			10/22/15 16:29	5
1,1,1,2-Tetrachloroethane	ND		5.0	2.6	ug/L			10/22/15 16:29	5
1,1,2,2-Tetrachloroethane	ND		5.0	2.5	ug/L			10/22/15 16:29	5
Tetrachloroethene	ND		5.0	2.9	ug/L			10/22/15 16:29	5
Toluene	**12**		5.0	3.5	ug/L			10/22/15 16:29	5
trans-1,2-Dichloroethene	ND		5.0	2.5	ug/L			10/22/15 16:29	5
trans-1,3-Dichloropropene	ND		25	2.5	ug/L			10/22/15 16:29	5
1,2,3-Trichlorobenzene	ND		5.0	3.5	ug/L			10/22/15 16:29	5
1,2,4-Trichlorobenzene	ND		5.0	4.1	ug/L			10/22/15 16:29	5
1,1,1-Trichloroethane	ND		5.0	2.5	ug/L			10/22/15 16:29	5
1,1,2-Trichloroethane	ND		25	2.5	ug/L			10/22/15 16:29	5
Trichloroethene	ND		5.0	2.5	ug/L			10/22/15 16:29	5
Trichlorofluoromethane	ND		5.0	2.6	ug/L			10/22/15 16:29	5
1,2,3-Trichloropropane	ND		25	4.2	ug/L			10/22/15 16:29	5
1,2,4-Trimethylbenzene	**81**		5.0	4.1	ug/L			10/22/15 16:29	5
1,3,5-Trimethylbenzene	**33**		5.0	2.8	ug/L			10/22/15 16:29	5
Vinyl acetate	ND		130	10	ug/L			10/22/15 16:29	5
Vinyl chloride	ND		5.0	2.5	ug/L			10/22/15 16:29	5
Xylenes, Total	**210**		25	3.0	ug/L			10/22/15 16:29	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*78 - 118*		*10/22/15 16:29*	*5*
Dibromofluoromethane	*99*		*81 - 121*		*10/22/15 16:29*	*5*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/22/15 16:29*	*5*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 18:46	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 18:46	1
Anthracene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 18:46	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 18:46	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 18:46	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 18:46	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 18:46	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 18:46	1
Chrysene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 18:46	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 18:46	1
Fluoranthene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 18:46	1
Fluorene	**0.12**	**J**	0.20	0.021	ug/L		10/20/15 11:18	10/29/15 18:46	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 18:46	1
1-Methylnaphthalene	**3.2**		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 18:46	1
2-Methylnaphthalene	**3.1**		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 18:46	1
Phenanthrene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 18:46	1
Pyrene	**0.037**	**J**	0.20	0.020	ug/L		10/20/15 11:18	10/29/15 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*15 - 122*	*10/20/15 11:18*	*10/29/15 18:46*	*1*

Client Sample ID: P74-ROX-101415

Date Collected: 10/14/15 10:50
Date Received: 10/15/15 09:57

Lab Sample ID: 400-112444-3

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	64		19 - 130	10/20/15 11:18	10/29/15 18:46	1
Terphenyl-d14	67		33 - 138	10/20/15 11:18	10/29/15 18:46	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	*	10	3.8	ug/L		10/20/15 11:18	10/21/15 17:03	1
Aniline	ND	H	10	3.8	ug/L		10/22/15 10:55	10/23/15 19:48	1
Benzenethiol	ND		10	1.7	ug/L		10/20/15 11:18	10/21/15 17:03	1
Benzoic acid	ND		30	7.3	ug/L		10/20/15 11:18	10/21/15 17:03	1
Benzyl alcohol	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 17:03	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/20/15 11:18	10/21/15 17:03	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/20/15 11:18	10/21/15 17:03	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/20/15 11:18	10/21/15 17:03	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/20/15 11:18	10/21/15 17:03	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/20/15 11:18	10/21/15 17:03	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/20/15 11:18	10/21/15 17:03	1
4-Chloroaniline	ND	* UJ	10	3.4	ug/L		10/20/15 11:18	10/21/15 17:03	1
4-Chloroaniline	ND	H	10	3.4	ug/L		10/22/15 10:55	10/23/15 19:48	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/20/15 11:18	10/21/15 17:03	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/20/15 11:18	10/21/15 17:03	1
2-Chlorophenol	ND		10	2.2	ug/L		10/20/15 11:18	10/21/15 17:03	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 17:03	1
Chrysene	ND		10	0.49	ug/L		10/20/15 11:18	10/21/15 17:03	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/20/15 11:18	10/21/15 17:03	1
Dibenzofuran	ND		10	0.52	ug/L		10/20/15 11:18	10/21/15 17:03	1
3,3'-Dichlorobenzidine	ND	* UJ	10	2.6	ug/L		10/20/15 11:18	10/21/15 17:03	1
3,3'-Dichlorobenzidine	ND	H	10	2.6	ug/L		10/22/15 10:55	10/23/15 19:48	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/20/15 11:18	10/21/15 17:03	1
Diethyl phthalate	ND		10	0.70	ug/L		10/20/15 11:18	10/21/15 17:03	1
2,4-Dimethylphenol	**21**		10	3.5	ug/L		10/20/15 11:18	10/21/15 17:03	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/20/15 11:18	10/21/15 17:03	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/20/15 11:18	10/21/15 17:03	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 17:03	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/20/15 11:18	10/21/15 17:03	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/20/15 11:18	10/21/15 17:03	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/20/15 11:18	10/21/15 17:03	1
Di-n-octyl phthalate	**0.89**	J	10	0.44	ug/L		10/20/15 11:18	10/21/15 17:03	1
1,4-Dioxane	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 17:03	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 17:03	1
Fluoranthene	ND		10	0.77	ug/L		10/20/15 11:18	10/21/15 17:03	1
Fluorene	ND		10	0.56	ug/L		10/20/15 11:18	10/21/15 17:03	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/20/15 11:18	10/21/15 17:03	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/20/15 11:18	10/21/15 17:03	1
Hexachloroethane	ND		10	4.2	ug/L		10/20/15 11:18	10/21/15 17:03	1
Indene	**2.2**	J	10	1.0	ug/L		10/20/15 11:18	10/21/15 17:03	1
Isophorone	ND		10	0.57	ug/L		10/20/15 11:18	10/21/15 17:03	1
2-Methylphenol	ND		10	1.8	ug/L		10/20/15 11:18	10/21/15 17:03	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/20/15 11:18	10/21/15 17:03	1

Client Sample ID: P74-ROX-101415

Date Collected: 10/14/15 10:50
Date Received: 10/15/15 09:57

Lab Sample ID: 400-112444-3

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	ND		10	2.2	ug/L		10/20/15 11:18	10/21/15 17:03	1
3-Nitroaniline	ND	* UJ	10	1.8	ug/L		10/20/15 11:18	10/21/15 17:03	1
3-Nitroaniline	ND	H	10	1.8	ug/L		10/22/15 10:55	10/23/15 19:48	1
4-Nitroaniline	ND		10	2.5	ug/L		10/20/15 11:18	10/21/15 17:03	1
Nitrobenzene	ND		10	0.55	ug/L		10/20/15 11:18	10/21/15 17:03	1
2-Nitrophenol	ND		10	0.65	ug/L		10/20/15 11:18	10/21/15 17:03	1
4-Nitrophenol	ND		10	2.1	ug/L		10/20/15 11:18	10/21/15 17:03	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 17:03	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/20/15 11:18	10/21/15 17:03	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/20/15 11:18	10/21/15 17:03	1
Pentachlorophenol	ND		20	1.8	ug/L		10/20/15 11:18	10/21/15 17:03	1
Phenol	**100**		10	2.6	ug/L		10/20/15 11:18	10/21/15 17:03	1
Pyridine	ND	* UJ	10	3.2	ug/L		10/20/15 11:18	10/21/15 17:03	1
Pyridine	ND	H	10	3.2	ug/L		10/22/15 10:55	10/23/15 19:48	1
Quinoline	ND		10	6.0	ug/L		10/20/15 11:18	10/21/15 17:03	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/20/15 11:18	10/21/15 17:03	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*47*		*10 - 120*	*10/20/15 11:18*	*10/21/15 17:03*	*1*
2-Fluorophenol	*52*		*10 - 120*	*10/22/15 10:55*	*10/23/15 19:48*	*1*
2-Fluorobiphenyl	*77*		*34 - 120*	*10/20/15 11:18*	*10/21/15 17:03*	*1*
2-Fluorobiphenyl	*76*		*34 - 120*	*10/22/15 10:55*	*10/23/15 19:48*	*1*
2,4,6-Tribromophenol	*72*		*15 - 135*	*10/20/15 11:18*	*10/21/15 17:03*	*1*
2,4,6-Tribromophenol	*85*		*15 - 135*	*10/22/15 10:55*	*10/23/15 19:48*	*1*
Nitrobenzene-d5	*78*		*27 - 120*	*10/20/15 11:18*	*10/21/15 17:03*	*1*
Nitrobenzene-d5	*75*		*27 - 120*	*10/22/15 10:55*	*10/23/15 19:48*	*1*
Phenol-d5	*49*		*10 - 120*	*10/20/15 11:18*	*10/21/15 17:03*	*1*
Phenol-d5	*64*		*10 - 120*	*10/22/15 10:55*	*10/23/15 19:48*	*1*
Terphenyl-d14	*77*		*53 - 125*	*10/20/15 11:18*	*10/21/15 17:03*	*1*
Terphenyl-d14	*65*		*53 - 125*	*10/22/15 10:55*	*10/23/15 19:48*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.029	0.0053	ug/L		10/21/15 08:51	10/23/15 00:46	1
1,2-Dibromoethane	ND		0.019	0.0049	ug/L		10/21/15 08:51	10/23/15 00:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*51 - 149*	*10/21/15 08:51*	*10/23/15 00:46*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112444-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: MW22-ROX-101415
Date Collected: 10/14/15 15:20
Date Received: 10/15/15 09:57

Lab Sample ID: 400-112444-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		500	200	ug/L			10/22/15 16:51	20
Acrolein	ND		400	200	ug/L			10/22/15 16:51	20
Acrylonitrile	ND		200	56	ug/L			10/22/15 16:51	20
Benzene	**800**		20	7.6	ug/L			10/22/15 16:51	20
Bromobenzene	ND		20	11	ug/L			10/22/15 16:51	20
Bromochloromethane	ND		20	10	ug/L			10/22/15 16:51	20
Bromodichloromethane	ND		20	10	ug/L			10/22/15 16:51	20
Bromoform	ND		100	14	ug/L			10/22/15 16:51	20
Bromomethane	ND		20	20	ug/L			10/22/15 16:51	20
2-Butanone (MEK)	ND		500	52	ug/L			10/22/15 16:51	20
Carbon disulfide	ND		20	10	ug/L			10/22/15 16:51	20
Carbon tetrachloride	ND		20	10	ug/L			10/22/15 16:51	20
Chlorobenzene	ND		20	10	ug/L			10/22/15 16:51	20
Chloroethane	ND		20	15	ug/L			10/22/15 16:51	20
2-Chloroethyl vinyl ether	ND		100	40	ug/L			10/22/15 16:51	20
Chloroform	ND		20	12	ug/L			10/22/15 16:51	20
1-Chlorohexane	ND		20	14	ug/L			10/22/15 16:51	20
Chloromethane	ND		20	17	ug/L			10/22/15 16:51	20
cis-1,2-Dichloroethene	ND		20	10	ug/L			10/22/15 16:51	20
cis-1,3-Dichloropropene	ND		100	10	ug/L			10/22/15 16:51	20
Dibromochloromethane	ND		20	10	ug/L			10/22/15 16:51	20
1,2-Dichlorobenzene	ND		20	10	ug/L			10/22/15 16:51	20
1,3-Dichlorobenzene	ND		20	11	ug/L			10/22/15 16:51	20
1,4-Dichlorobenzene	ND		20	13	ug/L			10/22/15 16:51	20
Dichlorodifluoromethane	ND		20	17	ug/L			10/22/15 16:51	20
1,1-Dichloroethane	ND		20	10	ug/L			10/22/15 16:51	20
1,2-Dichloroethane	ND		20	10	ug/L			10/22/15 16:51	20
1,1-Dichloroethene	ND		20	10	ug/L			10/22/15 16:51	20
1,2-Dichloropropane	ND		20	10	ug/L			10/22/15 16:51	20
1,3-Dichloropropane	ND		20	10	ug/L			10/22/15 16:51	20
2,2-Dichloropropane	ND		20	10	ug/L			10/22/15 16:51	20
1,1-Dichloropropene	ND		20	10	ug/L			10/22/15 16:51	20
1,4-Dioxane	ND		8000	2000	ug/L			10/22/15 16:51	20
Ethylbenzene	**1600**		20	10	ug/L			10/22/15 16:51	20
Ethyl methacrylate	ND		20	12	ug/L			10/22/15 16:51	20
Hexachlorobutadiene	ND		100	18	ug/L			10/22/15 16:51	20
2-Hexanone	ND		500	62	ug/L			10/22/15 16:51	20
Isopropylbenzene	**48**		20	11	ug/L			10/22/15 16:51	20
Methylene bromide	ND		100	12	ug/L			10/22/15 16:51	20
Methylene chloride	ND		100	60	ug/L			10/22/15 16:51	20
4-Methyl-2-pentanone (MIBK)	ND		500	36	ug/L			10/22/15 16:51	20
Methyl tert-butyl ether	ND		20	15	ug/L			10/22/15 16:51	20
m-Xylene & p-Xylene	**3000**		100	32	ug/L			10/22/15 16:51	20
Naphthalene	**180**		20	20	ug/L			10/22/15 16:51	20
n-Butylbenzene	ND		20	15	ug/L			10/22/15 16:51	20
N-Propylbenzene	**75**		20	14	ug/L			10/22/15 16:51	20
o-Chlorotoluene	ND		20	11	ug/L			10/22/15 16:51	20
o-Xylene	**1600**		100	12	ug/L			10/22/15 16:51	20
p-Chlorotoluene	ND		20	11	ug/L			10/22/15 16:51	20

Client Sample ID: MW22-ROX-101415

Date Collected: 10/14/15 15:20
Date Received: 10/15/15 09:57

Lab Sample ID: 400-112444-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		20	14	ug/L			10/22/15 16:51	20
sec-Butylbenzene	ND		20	14	ug/L			10/22/15 16:51	20
Styrene	ND		20	20	ug/L			10/22/15 16:51	20
tert-Butylbenzene	ND		20	13	ug/L			10/22/15 16:51	20
1,1,1,2-Tetrachloroethane	ND		20	10	ug/L			10/22/15 16:51	20
1,1,2,2-Tetrachloroethane	ND		20	10	ug/L			10/22/15 16:51	20
Tetrachloroethene	ND		20	12	ug/L			10/22/15 16:51	20
Toluene	**960**		20	14	ug/L			10/22/15 16:51	20
trans-1,2-Dichloroethene	ND		20	10	ug/L			10/22/15 16:51	20
trans-1,3-Dichloropropene	ND		100	10	ug/L			10/22/15 16:51	20
1,2,3-Trichlorobenzene	ND		20	14	ug/L			10/22/15 16:51	20
1,2,4-Trichlorobenzene	ND		20	16	ug/L			10/22/15 16:51	20
1,1,1-Trichloroethane	ND		20	10	ug/L			10/22/15 16:51	20
1,1,2-Trichloroethane	ND		100	10	ug/L			10/22/15 16:51	20
Trichloroethene	ND		20	10	ug/L			10/22/15 16:51	20
Trichlorofluoromethane	ND		20	10	ug/L			10/22/15 16:51	20
1,2,3-Trichloropropane	ND		100	17	ug/L			10/22/15 16:51	20
1,2,4-Trimethylbenzene	**470**		20	16	ug/L			10/22/15 16:51	20
1,3,5-Trimethylbenzene	**110**		20	11	ug/L			10/22/15 16:51	20
Vinyl acetate	ND		500	40	ug/L			10/22/15 16:51	20
Vinyl chloride	ND		20	10	ug/L			10/22/15 16:51	20
Xylenes, Total	**4600**		100	12	ug/L			10/22/15 16:51	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*78 - 118*		*10/22/15 16:51*	*20*
Dibromofluoromethane	*100*		*81 - 121*		*10/22/15 16:51*	*20*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/22/15 16:51*	*20*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 19:24	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 19:24	1
Anthracene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 19:24	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 19:24	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 19:24	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 19:24	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 19:24	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 19:24	1
Chrysene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 19:24	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 19:24	1
Fluoranthene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 19:24	1
Fluorene	ND		0.20	0.021	ug/L		10/20/15 11:18	10/29/15 19:24	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 19:24	1
1-Methylnaphthalene	**15**		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 19:24	1
2-Methylnaphthalene	**26**		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 19:24	1
Phenanthrene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 19:24	1
Pyrene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*15 - 122*	*10/20/15 11:18*	*10/29/15 19:24*	*1*

Client Sample ID: MW22-ROX-101415
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Date Received: 10/15/15 09:57

Lab Sample ID: 400-112444-4
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	*68*		*19 - 130*	*10/20/15 11:18*	*10/29/15 19:24*	*1*
Terphenyl-d14	*54*		*33 - 138*	*10/20/15 11:18*	*10/29/15 19:24*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	*	10	3.8	ug/L		10/20/15 11:18	10/21/15 17:41	1
Aniline	ND	H	10	3.8	ug/L		10/22/15 10:55	10/23/15 20:27	1
Benzenethiol	ND		10	1.7	ug/L		10/20/15 11:18	10/21/15 17:41	1
Benzoic acid	ND		30	7.3	ug/L		10/20/15 11:18	10/21/15 17:41	1
Benzyl alcohol	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 17:41	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/20/15 11:18	10/21/15 17:41	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/20/15 11:18	10/21/15 17:41	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/20/15 11:18	10/21/15 17:41	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/20/15 11:18	10/21/15 17:41	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/20/15 11:18	10/21/15 17:41	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/20/15 11:18	10/21/15 17:41	1
4-Chloroaniline	ND	* UJ	10	3.4	ug/L		10/20/15 11:18	10/21/15 17:41	1
4-Chloroaniline	ND	H	10	3.4	ug/L		10/22/15 10:55	10/23/15 20:27	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/20/15 11:18	10/21/15 17:41	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/20/15 11:18	10/21/15 17:41	1
2-Chlorophenol	ND		10	2.2	ug/L		10/20/15 11:18	10/21/15 17:41	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 17:41	1
Chrysene	ND		10	0.49	ug/L		10/20/15 11:18	10/21/15 17:41	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/20/15 11:18	10/21/15 17:41	1
Dibenzofuran	ND		10	0.52	ug/L		10/20/15 11:18	10/21/15 17:41	1
3,3'-Dichlorobenzidine	ND	* UJ	10	2.6	ug/L		10/20/15 11:18	10/21/15 17:41	1
3,3'-Dichlorobenzidine	ND	H	10	2.6	ug/L		10/22/15 10:55	10/23/15 20:27	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/20/15 11:18	10/21/15 17:41	1
Diethyl phthalate	ND		10	0.70	ug/L		10/20/15 11:18	10/21/15 17:41	1
2,4-Dimethylphenol	**15**		10	3.5	ug/L		10/20/15 11:18	10/21/15 17:41	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/20/15 11:18	10/21/15 17:41	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/20/15 11:18	10/21/15 17:41	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 17:41	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/20/15 11:18	10/21/15 17:41	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/20/15 11:18	10/21/15 17:41	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/20/15 11:18	10/21/15 17:41	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/20/15 11:18	10/21/15 17:41	1
1,4-Dioxane	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 17:41	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 17:41	1
Fluoranthene	ND		10	0.77	ug/L		10/20/15 11:18	10/21/15 17:41	1
Fluorene	ND		10	0.56	ug/L		10/20/15 11:18	10/21/15 17:41	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/20/15 11:18	10/21/15 17:41	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/20/15 11:18	10/21/15 17:41	1
Hexachloroethane	ND		10	4.2	ug/L		10/20/15 11:18	10/21/15 17:41	1
Indene	**21**		10	1.0	ug/L		10/20/15 11:18	10/21/15 17:41	1
Isophorone	ND		10	0.57	ug/L		10/20/15 11:18	10/21/15 17:41	1
2-Methylphenol	**5.5**	**J**	10	1.8	ug/L		10/20/15 11:18	10/21/15 17:41	1
3 & 4 Methylphenol	**9.7**	**J**	20	1.0	ug/L		10/20/15 11:18	10/21/15 17:41	1

Client Sample ID: MW22-ROX-101415

Date Collected: 10/14/15 15:20
Date Received: 10/15/15 09:57

Lab Sample ID: 400-112444-4

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	ND		10	2.2	ug/L		10/20/15 11:18	10/21/15 17:41	1
3-Nitroaniline	ND	* UJ	10	1.8	ug/L		10/20/15 11:18	10/21/15 17:41	1
3-Nitroaniline	ND	H	10	1.8	ug/L		10/22/15 10:55	10/23/15 20:27	1
4-Nitroaniline	ND		10	2.5	ug/L		10/20/15 11:18	10/21/15 17:41	1
Nitrobenzene	ND		10	0.55	ug/L		10/20/15 11:18	10/21/15 17:41	1
2-Nitrophenol	ND		10	0.65	ug/L		10/20/15 11:18	10/21/15 17:41	1
4-Nitrophenol	ND		10	2.1	ug/L		10/20/15 11:18	10/21/15 17:41	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 17:41	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/20/15 11:18	10/21/15 17:41	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/20/15 11:18	10/21/15 17:41	1
Pentachlorophenol	ND		20	1.8	ug/L		10/20/15 11:18	10/21/15 17:41	1
Phenol	**8.2**	**J**	10	2.6	ug/L		10/20/15 11:18	10/21/15 17:41	1
Pyridine	**3.8**	**J** * J	10	3.2	ug/L		10/20/15 11:18	10/21/15 17:41	1
Pyridine	ND	H	10	3.2	ug/L		10/22/15 10:55	10/23/15 20:27	1
Quinoline	ND		10	6.0	ug/L		10/20/15 11:18	10/21/15 17:41	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/20/15 11:18	10/21/15 17:41	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*0*	*X*	*10 - 120*	*10/20/15 11:18*	*10/21/15 17:41*	*1*
2-Fluorophenol	*0*	*X*	*10 - 120*	*10/22/15 10:55*	*10/23/15 20:27*	*1*
2-Fluorobiphenyl	*84*		*34 - 120*	*10/20/15 11:18*	*10/21/15 17:41*	*1*
2-Fluorobiphenyl	*54*		*34 - 120*	*10/22/15 10:55*	*10/23/15 20:27*	*1*
2,4,6-Tribromophenol	*109*		*15 - 135*	*10/20/15 11:18*	*10/21/15 17:41*	*1*
2,4,6-Tribromophenol	*62*		*15 - 135*	*10/22/15 10:55*	*10/23/15 20:27*	*1*
Nitrobenzene-d5	*101*		*27 - 120*	*10/20/15 11:18*	*10/21/15 17:41*	*1*
Nitrobenzene-d5	*79*		*27 - 120*	*10/22/15 10:55*	*10/23/15 20:27*	*1*
Phenol-d5	*76*		*10 - 120*	*10/20/15 11:18*	*10/21/15 17:41*	*1*
Phenol-d5	*74*		*10 - 120*	*10/22/15 10:55*	*10/23/15 20:27*	*1*
Terphenyl-d14	*71*		*53 - 125*	*10/20/15 11:18*	*10/21/15 17:41*	*1*
Terphenyl-d14	*45*	*X*	*53 - 125*	*10/22/15 10:55*	*10/23/15 20:27*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/21/15 08:51	10/23/15 01:16	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/21/15 08:51	10/23/15 01:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*70*		*51 - 149*	*10/21/15 08:51*	*10/23/15 01:16*	*1*

Definitions/Glossary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112444-1
SDG: Proj. 60400249-21563720.03004

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
H	Sample was prepped or analyzed beyond the specified holding time
X	Surrogate is outside control limits

Glossary

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

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112444-1
SDG: Proj. 60400249-21563720.03004

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(78-118)	(81-121)	(80-120)
400-112444-1	TB-ROX-101415-8260	104	101	98
400-112444-3	P74-ROX-101415	102	99	96
400-112444-4	MW22-ROX-101415	103	100	98
400-112532-A-6 MS	Matrix Spike	100	103	96
400-112532-A-6 MSD	Matrix Spike Duplicate	101	105	96
LCS 400-279952/1002	Lab Control Sample	103	103	97
MB 400-279952/4	Method Blank	103	102	98

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	FBP	TBP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(10-120)	(34-120)	(15-135)	(27-120)	(10-120)	(53-125)
400-112444-3	P74-ROX-101415	47	77	72	78	49	77
400-112444-3	P74-ROX-101415	52	76	85	75	64	65
400-112444-4	MW22-ROX-101415	0 X	84	109	101	76	71
400-112444-4	MW22-ROX-101415	0 X	54	62	79	74	45 X
LCS 400-279637/2-A	Lab Control Sample	74	90	102	93	84	95
LCS 400-280032/2-A	Lab Control Sample	70	82	89	79	78	92
LCSD 400-279637/3-A	Lab Control Sample Dup	74	95	103	97	79	101
LCSD 400-280032/3-A	Lab Control Sample Dup	71	81	87	76	76	89
MB 400-279637/1-A	Method Blank	56	83	86	87	77	101
MB 400-280032/1-A	Method Blank	54	82	83	80	73	88

Surrogate Legend

2FP = 2-Fluorophenol
FBP = 2-Fluorobiphenyl
TBP = 2,4,6-Tribromophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = Terphenyl-d14

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPH
Lab Sample ID	Client Sample ID	(15-122)	(19-130)	(33-138)
400-112444-3	P74-ROX-101415	69	64	67
400-112444-4	MW22-ROX-101415	60	68	54
LCS 400-279637/2-A	Lab Control Sample	85	94	88
LCSD 400-279637/3-A	Lab Control Sample Dup	84	92	87
MB 400-279637/1-A	Method Blank	73	79	95

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112444-1
SDG: Proj. 60400249-21563720.03004

Surrogate Legend
FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5
TPH = Terphenyl-d14

Method: 8011 - EDB and DBCP in Water by Microextraction

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

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	**Client Sample ID**	**BFB1 (51-149)**
400-112234-C-14-A MS	Matrix Spike	117
400-112234-C-14-B MSD	Matrix Spike Duplicate	95
400-112444-2	TB-ROX-101415-8011	97
400-112444-3	P74-ROX-101415	96
400-112444-4	MW22-ROX-101415	70
LCS 400-279801/2-A	Lab Control Sample	108
MB 400-279801/1-A	Method Blank	117

Surrogate Legend
BFB = 4-Bromofluorobenzene

GC/MS VOA

Analysis Batch: 279952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112444-1	TB-ROX-101415-8260	Total/NA	Water	8260B	
400-112444-3	P74-ROX-101415	Total/NA	Water	8260B	
400-112444-4	MW22-ROX-101415	Total/NA	Water	8260B	
LCS 400-279952/1002	Lab Control Sample	Total/NA	Water	8260B	
MB 400-279952/4	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 279637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112444-3	P74-ROX-101415	Total/NA	Water	3520C	
400-112444-4	MW22-ROX-101415	Total/NA	Water	3520C	
LCS 400-279637/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-279637/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 400-279637/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 279755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112444-3	P74-ROX-101415	Total/NA	Water	8270C	279637
400-112444-4	MW22-ROX-101415	Total/NA	Water	8270C	279637
LCS 400-279637/2-A	Lab Control Sample	Total/NA	Water	8270C	279637
LCSD 400-279637/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	279637
MB 400-279637/1-A	Method Blank	Total/NA	Water	8270C	279637

Prep Batch: 280032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112444-3	P74-ROX-101415	Total/NA	Water	3520C	
400-112444-4	MW22-ROX-101415	Total/NA	Water	3520C	
LCS 400-280032/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-280032/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 400-280032/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 280147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112444-3	P74-ROX-101415	Total/NA	Water	8270C	280032
400-112444-4	MW22-ROX-101415	Total/NA	Water	8270C	280032
LCS 400-280032/2-A	Lab Control Sample	Total/NA	Water	8270C	280032
LCSD 400-280032/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	280032
MB 400-280032/1-A	Method Blank	Total/NA	Water	8270C	280032

Analysis Batch: 281055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112444-3	P74-ROX-101415	Total/NA	Water	8270C LL	279637
400-112444-4	MW22-ROX-101415	Total/NA	Water	8270C LL	279637
LCS 400-279637/2-A	Lab Control Sample	Total/NA	Water	8270C LL	279637
LCSD 400-279637/3-A	Lab Control Sample Dup	Total/NA	Water	8270C LL	279637
MB 400-279637/1-A	Method Blank	Total/NA	Water	8270C LL	279637

QC Association Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112444-1
SDG: Proj. 60400249-21563720.03004

GC Semi VOA

Prep Batch: 279801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112444-2	TB-ROX-101415-8011	Total/NA	Water	8011	
400-112444-3	P74-ROX-101415	Total/NA	Water	8011	
400-112444-4	MW22-ROX-101415	Total/NA	Water	8011	
LCS 400-279801/2-A	Lab Control Sample	Total/NA	Water	8011	
MB 400-279801/1-A	Method Blank	Total/NA	Water	8011	

Analysis Batch: 279999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112444-2	TB-ROX-101415-8011	Total/NA	Water	8011	279801
400-112444-3	P74-ROX-101415	Total/NA	Water	8011	279801
400-112444-4	MW22-ROX-101415	Total/NA	Water	8011	279801
LCS 400-279801/2-A	Lab Control Sample	Total/NA	Water	8011	279801
MB 400-279801/1-A	Method Blank	Total/NA	Water	8011	279801

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

Lab Sample ID: MB 400-279952/4
Matrix: Water
Analysis Batch: 279952

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/22/15 08:52	1
Acrolein	ND		20	10	ug/L			10/22/15 08:52	1
Acrylonitrile	ND		10	2.8	ug/L			10/22/15 08:52	1
Benzene	ND		1.0	0.38	ug/L			10/22/15 08:52	1
Bromobenzene	ND		1.0	0.54	ug/L			10/22/15 08:52	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/22/15 08:52	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/22/15 08:52	1
Bromoform	ND		5.0	0.71	ug/L			10/22/15 08:52	1
Bromomethane	ND		1.0	0.98	ug/L			10/22/15 08:52	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/22/15 08:52	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/22/15 08:52	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/22/15 08:52	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/22/15 08:52	1
Chloroethane	ND		1.0	0.76	ug/L			10/22/15 08:52	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/22/15 08:52	1
Chloroform	ND		1.0	0.60	ug/L			10/22/15 08:52	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/22/15 08:52	1
Chloromethane	ND		1.0	0.83	ug/L			10/22/15 08:52	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 08:52	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/15 08:52	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/22/15 08:52	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/22/15 08:52	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/22/15 08:52	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/22/15 08:52	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/22/15 08:52	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/22/15 08:52	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/22/15 08:52	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 08:52	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 08:52	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 08:52	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 08:52	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/22/15 08:52	1
1,4-Dioxane	ND		400	100	ug/L			10/22/15 08:52	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/22/15 08:52	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/22/15 08:52	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/22/15 08:52	1
2-Hexanone	ND		25	3.1	ug/L			10/22/15 08:52	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/22/15 08:52	1
Methylene bromide	ND		5.0	0.59	ug/L			10/22/15 08:52	1
Methylene chloride	ND		5.0	3.0	ug/L			10/22/15 08:52	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/22/15 08:52	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/22/15 08:52	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/22/15 08:52	1
Naphthalene	ND		1.0	1.0	ug/L			10/22/15 08:52	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/22/15 08:52	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/22/15 08:52	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/22/15 08:52	1
o-Xylene	ND		5.0	0.60	ug/L			10/22/15 08:52	1

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

Lab Sample ID: MB 400-279952/4
Matrix: Water
Analysis Batch: 279952

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/22/15 08:52	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/22/15 08:52	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/22/15 08:52	1
Styrene	ND		1.0	1.0	ug/L			10/22/15 08:52	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/22/15 08:52	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/22/15 08:52	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/22/15 08:52	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/22/15 08:52	1
Toluene	ND		1.0	0.70	ug/L			10/22/15 08:52	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 08:52	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/15 08:52	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/22/15 08:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/22/15 08:52	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/22/15 08:52	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/22/15 08:52	1
Trichloroethene	ND		1.0	0.50	ug/L			10/22/15 08:52	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/22/15 08:52	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/22/15 08:52	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/22/15 08:52	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/22/15 08:52	1
Vinyl acetate	ND		25	2.0	ug/L			10/22/15 08:52	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/22/15 08:52	1
Xylenes, Total	ND		10	1.6	ug/L			10/22/15 08:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*78 - 118*		*10/22/15 08:52*	*1*
Dibromofluoromethane	*102*		*81 - 121*		*10/22/15 08:52*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/22/15 08:52*	*1*

Lab Sample ID: LCS 400-279952/1002
Matrix: Water
Analysis Batch: 279952

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	296		ug/L		148	43 - 160
Acrolein	500	489		ug/L		98	38 - 160
Acrylonitrile	500	559		ug/L		112	64 - 142
Benzene	50.0	56.6		ug/L		113	70 - 130
Bromobenzene	50.0	44.9		ug/L		90	70 - 132
Bromochloromethane	50.0	49.5		ug/L		99	70 - 130
Bromodichloromethane	50.0	56.8		ug/L		114	67 - 133
Bromoform	50.0	38.5		ug/L		77	57 - 140
Bromomethane	50.0	71.6		ug/L		143	10 - 160
2-Butanone (MEK)	200	239		ug/L		120	61 - 145
Carbon disulfide	50.0	53.2		ug/L		106	61 - 137
Carbon tetrachloride	50.0	53.0		ug/L		106	61 - 137
Chlorobenzene	50.0	49.0		ug/L		98	70 - 130
Chloroethane	50.0	50.9		ug/L		102	55 - 141

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

Lab Sample ID: LCS 400-279952/1002
Matrix: Water
Analysis Batch: 279952

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloroethyl vinyl ether	50.0	55.2		ug/L		110	10 - 160
Chloroform	50.0	55.8		ug/L		112	69 - 130
1-Chlorohexane	50.0	56.3		ug/L		113	69 - 130
Chloromethane	50.0	44.2		ug/L		88	58 - 137
cis-1,2-Dichloroethene	50.0	57.7		ug/L		115	68 - 130
cis-1,3-Dichloropropene	50.0	56.0		ug/L		112	69 - 132
Dibromochloromethane	50.0	48.5		ug/L		97	67 - 135
1,2-Dichlorobenzene	50.0	47.1		ug/L		94	67 - 130
1,3-Dichlorobenzene	50.0	46.3		ug/L		93	70 - 130
1,4-Dichlorobenzene	50.0	46.7		ug/L		93	70 - 130
Dichlorodifluoromethane	50.0	35.0		ug/L		70	41 - 146
1,1-Dichloroethane	50.0	58.2		ug/L		116	70 - 130
1,2-Dichloroethane	50.0	59.8		ug/L		120	69 - 130
1,1-Dichloroethene	50.0	53.8		ug/L		108	63 - 134
1,2-Dichloropropane	50.0	58.3		ug/L		117	70 - 130
1,3-Dichloropropane	50.0	51.6		ug/L		103	70 - 130
2,2-Dichloropropane	50.0	54.6		ug/L		109	52 - 135
1,1-Dichloropropene	50.0	56.5		ug/L		113	70 - 130
1,4-Dioxane	1000	1040		ug/L		104	50 - 160
Ethylbenzene	50.0	51.6		ug/L		103	70 - 130
Ethyl methacrylate	50.0	48.5		ug/L		97	68 - 130
Hexachlorobutadiene	50.0	45.5		ug/L		91	53 - 140
2-Hexanone	200	224		ug/L		112	65 - 137
Isopropylbenzene	50.0	50.9		ug/L		102	70 - 130
Methylene bromide	50.0	56.1		ug/L		112	70 - 130
Methylene chloride	50.0	56.7		ug/L		113	66 - 135
4-Methyl-2-pentanone (MIBK)	200	227		ug/L		114	69 - 138
Methyl tert-butyl ether	50.0	57.9		ug/L		116	66 - 130
m-Xylene & p-Xylene	50.0	50.1		ug/L		100	70 - 130
Naphthalene	50.0	43.9		ug/L		88	47 - 149
n-Butylbenzene	50.0	54.4		ug/L		109	67 - 130
N-Propylbenzene	50.0	51.9		ug/L		104	70 - 130
o-Chlorotoluene	50.0	50.6		ug/L		101	70 - 130
o-Xylene	50.0	51.7		ug/L		103	70 - 130
p-Chlorotoluene	50.0	51.5		ug/L		103	70 - 130
p-Isopropyltoluene	50.0	50.0		ug/L		100	65 - 130
sec-Butylbenzene	50.0	51.0		ug/L		102	66 - 130
Styrene	50.0	50.0		ug/L		100	70 - 130
tert-Butylbenzene	50.0	49.1		ug/L		98	64 - 139
1,1,1,2-Tetrachloroethane	50.0	47.6		ug/L		95	67 - 131
1,1,2,2-Tetrachloroethane	50.0	50.1		ug/L		100	70 - 131
Tetrachloroethene	50.0	43.4		ug/L		87	65 - 130
Toluene	50.0	50.3		ug/L		101	70 - 130
trans-1,2-Dichloroethene	50.0	54.0		ug/L		108	70 - 130
trans-1,3-Dichloropropene	50.0	51.3		ug/L		103	63 - 130
1,2,3-Trichlorobenzene	50.0	42.0		ug/L		84	60 - 138
1,2,4-Trichlorobenzene	50.0	44.5		ug/L		89	60 - 140
1,1,1-Trichloroethane	50.0	53.0		ug/L		106	68 - 130

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

Lab Sample ID: LCS 400-279952/1002
Matrix: Water
Analysis Batch: 279952

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	50.0	51.4		ug/L		103	70 - 130
Trichloroethene	50.0	50.7		ug/L		101	70 - 130
Trichlorofluoromethane	50.0	49.4		ug/L		99	65 - 138
1,2,3-Trichloropropane	50.0	46.0		ug/L		92	70 - 130
1,2,4-Trimethylbenzene	50.0	50.1		ug/L		100	70 - 130
1,3,5-Trimethylbenzene	50.0	50.0		ug/L		100	69 - 130
Vinyl acetate	100	94.0		ug/L		94	26 - 160
Vinyl chloride	50.0	46.5		ug/L		93	59 - 136
Xylenes, Total	100	102		ug/L		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*78 - 118*
Dibromofluoromethane	*103*		*81 - 121*
Toluene-d8 (Surr)	*97*		*80 - 120*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-279637/1-A
Matrix: Water
Analysis Batch: 279755

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/20/15 11:18	10/21/15 15:08	1
Benzenethiol	ND		10	1.7	ug/L		10/20/15 11:18	10/21/15 15:08	1
Benzoic acid	ND		30	7.3	ug/L		10/20/15 11:18	10/21/15 15:08	1
Benzyl alcohol	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/20/15 11:18	10/21/15 15:08	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/20/15 11:18	10/21/15 15:08	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/20/15 11:18	10/21/15 15:08	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/20/15 11:18	10/21/15 15:08	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/20/15 11:18	10/21/15 15:08	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/20/15 11:18	10/21/15 15:08	1
4-Chloroaniline	ND		10	3.4	ug/L		10/20/15 11:18	10/21/15 15:08	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/20/15 11:18	10/21/15 15:08	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/20/15 11:18	10/21/15 15:08	1
2-Chlorophenol	ND		10	2.2	ug/L		10/20/15 11:18	10/21/15 15:08	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
Chrysene	ND		10	0.49	ug/L		10/20/15 11:18	10/21/15 15:08	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
Dibenzofuran	ND		10	0.52	ug/L		10/20/15 11:18	10/21/15 15:08	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/20/15 11:18	10/21/15 15:08	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
Diethyl phthalate	ND		10	0.70	ug/L		10/20/15 11:18	10/21/15 15:08	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 15:08	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/20/15 11:18	10/21/15 15:08	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/20/15 11:18	10/21/15 15:08	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/20/15 11:18	10/21/15 15:08	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-279637/1-A
Matrix: Water
Analysis Batch: 279755

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/20/15 11:18	10/21/15 15:08	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/20/15 11:18	10/21/15 15:08	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/20/15 11:18	10/21/15 15:08	1
1,4-Dioxane	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
Fluoranthene	ND		10	0.77	ug/L		10/20/15 11:18	10/21/15 15:08	1
Fluorene	ND		10	0.56	ug/L		10/20/15 11:18	10/21/15 15:08	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/20/15 11:18	10/21/15 15:08	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/20/15 11:18	10/21/15 15:08	1
Hexachloroethane	ND		10	4.2	ug/L		10/20/15 11:18	10/21/15 15:08	1
Indene	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
Isophorone	ND		10	0.57	ug/L		10/20/15 11:18	10/21/15 15:08	1
2-Methylphenol	ND		10	1.8	ug/L		10/20/15 11:18	10/21/15 15:08	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
2-Nitroaniline	ND		10	2.2	ug/L		10/20/15 11:18	10/21/15 15:08	1
3-Nitroaniline	ND		10	1.8	ug/L		10/20/15 11:18	10/21/15 15:08	1
4-Nitroaniline	ND		10	2.5	ug/L		10/20/15 11:18	10/21/15 15:08	1
Nitrobenzene	ND		10	0.55	ug/L		10/20/15 11:18	10/21/15 15:08	1
2-Nitrophenol	ND		10	0.65	ug/L		10/20/15 11:18	10/21/15 15:08	1
4-Nitrophenol	ND		10	2.1	ug/L		10/20/15 11:18	10/21/15 15:08	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 15:08	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/20/15 11:18	10/21/15 15:08	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/20/15 11:18	10/21/15 15:08	1
Pentachlorophenol	ND		20	1.8	ug/L		10/20/15 11:18	10/21/15 15:08	1
Phenol	ND		10	2.6	ug/L		10/20/15 11:18	10/21/15 15:08	1
Pyridine	ND		10	3.2	ug/L		10/20/15 11:18	10/21/15 15:08	1
Quinoline	ND		10	6.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/20/15 11:18	10/21/15 15:08	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 15:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*56*		*10 - 120*	*10/20/15 11:18*	*10/21/15 15:08*	*1*
2-Fluorobiphenyl	*83*		*34 - 120*	*10/20/15 11:18*	*10/21/15 15:08*	*1*
2,4,6-Tribromophenol	*86*		*15 - 135*	*10/20/15 11:18*	*10/21/15 15:08*	*1*
Nitrobenzene-d5	*87*		*27 - 120*	*10/20/15 11:18*	*10/21/15 15:08*	*1*
Phenol-d5	*77*		*10 - 120*	*10/20/15 11:18*	*10/21/15 15:08*	*1*
Terphenyl-d14	*101*		*53 - 125*	*10/20/15 11:18*	*10/21/15 15:08*	*1*

Lab Sample ID: LCS 400-279637/2-A
Matrix: Water
Analysis Batch: 279755

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	30.0	9.55	J	ug/L		32	10 - 145
Benzoic acid	126	94.5		ug/L		75	10 - 120
Benzyl alcohol	30.0	24.5		ug/L		82	51 - 121
Bis(2-chloroethoxy)methane	30.0	24.7		ug/L		82	54 - 123

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-279637/2-A
Matrix: Water
Analysis Batch: 279755

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-chloroethyl)ether	30.0	21.1		ug/L		70	47 - 120
bis (2-chloroisopropyl) ether	30.0	25.7		ug/L		86	20 - 142
Bis(2-ethylhexyl) phthalate	30.0	25.3		ug/L		84	62 - 140
4-Bromophenyl phenyl ether	30.0	25.5		ug/L		85	62 - 132
Butyl benzyl phthalate	30.0	25.9		ug/L		86	51 - 150
4-Chloroaniline	30.0	4.96	J *	ug/L		17	32 - 128
4-Chloro-3-methylphenol	30.0	28.6		ug/L		95	47 - 135
2-Chloronaphthalene	30.0	25.0		ug/L		83	24 - 150
2-Chlorophenol	30.0	23.8		ug/L		79	45 - 120
4-Chlorophenyl phenyl ether	30.0	26.2		ug/L		87	61 - 133
Chrysene	30.0	26.0		ug/L		87	60 - 126
Dibenzofuran	30.0	25.7		ug/L		86	62 - 124
3,3'-Dichlorobenzidine	30.0	ND	*	ug/L		0	16 - 167
2,4-Dichlorophenol	30.0	26.3		ug/L		88	52 - 125
Diethyl phthalate	30.0	27.3		ug/L		91	55 - 140
2,4-Dimethylphenol	30.0	26.4		ug/L		88	52 - 121
Dimethyl phthalate	30.0	26.1		ug/L		87	50 - 133
Di-n-butyl phthalate	30.0	26.3		ug/L		88	59 - 144
4,6-Dinitro-o-cresol	60.0	53.3		ug/L		89	46 - 136
2,4-Dinitrophenol	86.0	81.1		ug/L		94	22 - 146
2,4-Dinitrotoluene	30.0	28.4		ug/L		95	54 - 141
2,6-Dinitrotoluene	30.0	26.9		ug/L		90	61 - 130
Di-n-octyl phthalate	30.0	26.7		ug/L		89	55 - 140
1,4-Dioxane	30.0	20.6		ug/L		69	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	30.0	24.9		ug/L		83	55 - 139
Fluoranthene	30.0	25.7		ug/L		86	66 - 131
Fluorene	30.0	25.9		ug/L		86	60 - 132
Hexachlorobenzene	30.0	25.1		ug/L		84	60 - 138
Hexachlorocyclopentadiene	30.0	12.7	J	ug/L		42	1 - 139
Hexachloroethane	30.0	24.2		ug/L		81	46 - 121
Indene	30.0	23.2		ug/L		77	17 - 141
Isophorone	30.0	26.3		ug/L		88	57 - 122
2-Methylphenol	30.0	26.8		ug/L		89	38 - 121
3 & 4 Methylphenol	30.0	25.3		ug/L		84	43 - 126
2-Nitroaniline	30.0	29.1		ug/L		97	52 - 135
3-Nitroaniline	30.0	11.2	*	ug/L		37	51 - 128
4-Nitroaniline	30.0	14.3		ug/L		48	38 - 141
Nitrobenzene	30.0	26.0		ug/L		87	52 - 128
2-Nitrophenol	30.0	25.4		ug/L		85	47 - 129
4-Nitrophenol	60.0	55.0		ug/L		92	34 - 137
N-Nitrosodimethylamine	30.0	24.6		ug/L		82	21 - 134
N-Nitrosodi-n-propylamine	30.0	26.8		ug/L		89	41 - 143
N-Nitrosodiphenylamine	60.0	40.6		ug/L		68	10 - 185
Pentachlorophenol	60.0	52.9		ug/L		88	38 - 138
Phenol	30.0	22.8		ug/L		76	37 - 120
Pyridine	30.0	3.40	J	ug/L		11	10 - 127
2,4,5-Trichlorophenol	30.0	28.5		ug/L		95	53 - 130

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-279637/2-A
Matrix: Water
Analysis Batch: 279755

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,6-Trichlorophenol	30.0	26.9		ug/L		90	52 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol	*74*		*10 - 120*
2-Fluorobiphenyl	*90*		*34 - 120*
2,4,6-Tribromophenol	*102*		*15 - 135*
Nitrobenzene-d5	*93*		*27 - 120*
Phenol-d5	*84*		*10 - 120*
Terphenyl-d14	*95*		*53 - 125*

Lab Sample ID: LCSD 400-279637/3-A
Matrix: Water
Analysis Batch: 279755

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 279637

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	30.0	4.59	J *	ug/L		15	10 - 145	70	30
Benzoic acid	126	88.3		ug/L		70	10 - 120	7	30
Benzyl alcohol	30.0	24.4		ug/L		81	51 - 121	1	30
Bis(2-chloroethoxy)methane	30.0	25.7		ug/L		86	54 - 123	4	30
Bis(2-chloroethyl)ether	30.0	21.9		ug/L		73	47 - 120	4	30
bis (2-chloroisopropyl) ether	30.0	27.1		ug/L		90	20 - 142	6	30
Bis(2-ethylhexyl) phthalate	30.0	27.2		ug/L		91	62 - 140	7	30
4-Bromophenyl phenyl ether	30.0	27.8		ug/L		93	62 - 132	9	30
Butyl benzyl phthalate	30.0	27.8		ug/L		93	51 - 150	7	30
4-Chloroaniline	30.0	ND	*	ug/L		10	32 - 128	53	30
4-Chloro-3-methylphenol	30.0	29.1		ug/L		97	47 - 135	2	30
2-Chloronaphthalene	30.0	26.6		ug/L		89	24 - 150	6	30
2-Chlorophenol	30.0	24.5		ug/L		82	45 - 120	3	30
4-Chlorophenyl phenyl ether	30.0	27.7		ug/L		92	61 - 133	6	30
Chrysene	30.0	27.8		ug/L		93	60 - 126	7	30
Dibenzofuran	30.0	27.4		ug/L		91	62 - 124	6	30
3,3'-Dichlorobenzidine	30.0	ND	*	ug/L		-0.4	16 - 167	200	30
2,4-Dichlorophenol	30.0	26.9		ug/L		90	52 - 125	2	30
Diethyl phthalate	30.0	28.6		ug/L		95	55 - 140	5	30
2,4-Dimethylphenol	30.0	27.3		ug/L		91	52 - 121	3	30
Dimethyl phthalate	30.0	27.2		ug/L		91	50 - 133	4	30
Di-n-butyl phthalate	30.0	28.1		ug/L		94	59 - 144	6	30
4,6-Dinitro-o-cresol	60.0	55.1		ug/L		92	46 - 136	3	30
2,4-Dinitrophenol	86.0	81.2		ug/L		94	22 - 146	0	30
2,4-Dinitrotoluene	30.0	29.9		ug/L		100	54 - 141	5	30
2,6-Dinitrotoluene	30.0	28.7		ug/L		96	61 - 130	6	30
Di-n-octyl phthalate	30.0	28.5		ug/L		95	55 - 140	7	30
1,4-Dioxane	30.0	20.7		ug/L		69	10 - 130	1	30
1,2-Diphenylhydrazine (as Azobenzene)	30.0	26.9		ug/L		90	55 - 139	8	30
Fluoranthene	30.0	27.2		ug/L		91	66 - 131	6	30
Fluorene	30.0	27.2		ug/L		91	60 - 132	5	30
Hexachlorobenzene	30.0	27.2		ug/L		91	60 - 138	8	30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-279637/3-A
Matrix: Water
Analysis Batch: 279755

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 279637

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachlorocyclopentadiene	30.0	12.6	J	ug/L		42	1 - 139	0	30
Hexachloroethane	30.0	25.6		ug/L		85	46 - 121	5	30
Indene	30.0	24.3		ug/L		81	17 - 141	5	30
Isophorone	30.0	27.9		ug/L		93	57 - 122	6	30
2-Methylphenol	30.0	27.4		ug/L		91	38 - 121	2	30
3 & 4 Methylphenol	30.0	24.8		ug/L		83	43 - 126	2	30
2-Nitroaniline	30.0	30.3		ug/L		101	52 - 135	4	30
3-Nitroaniline	30.0	11.1	*	ug/L		37	51 - 128	0	30
4-Nitroaniline	30.0	14.2		ug/L		47	38 - 141	1	30
Nitrobenzene	30.0	27.3		ug/L		91	52 - 128	5	30
2-Nitrophenol	30.0	26.2		ug/L		87	47 - 129	3	30
4-Nitrophenol	60.0	48.9		ug/L		82	34 - 137	12	30
N-Nitrosodimethylamine	30.0	23.8		ug/L		79	21 - 134	3	30
N-Nitrosodi-n-propylamine	30.0	28.5		ug/L		95	41 - 143	6	30
N-Nitrosodiphenylamine	60.0	43.8		ug/L		73	10 - 185	8	30
Pentachlorophenol	60.0	55.3		ug/L		92	38 - 138	4	30
Phenol	30.0	22.2		ug/L		74	37 - 120	3	30
Pyridine	30.0	ND	*	ug/L		7	10 - 127	53	30
2,4,5-Trichlorophenol	30.0	29.5		ug/L		98	53 - 130	3	30
2,4,6-Trichlorophenol	30.0	28.0		ug/L		93	52 - 131	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorophenol	*74*		*10 - 120*
2-Fluorobiphenyl	*95*		*34 - 120*
2,4,6-Tribromophenol	*103*		*15 - 135*
Nitrobenzene-d5	*97*		*27 - 120*
Phenol-d5	*79*		*10 - 120*
Terphenyl-d14	*101*		*53 - 125*

Lab Sample ID: MB 400-280032/1-A
Matrix: Water
Analysis Batch: 280147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 280032

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/22/15 10:55	10/23/15 15:54	1
4-Chloroaniline	ND		10	3.4	ug/L		10/22/15 10:55	10/23/15 15:54	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/22/15 10:55	10/23/15 15:54	1
3-Nitroaniline	ND		10	1.8	ug/L		10/22/15 10:55	10/23/15 15:54	1
Pyridine	ND		10	3.2	ug/L		10/22/15 10:55	10/23/15 15:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*54*		*10 - 120*	*10/22/15 10:55*	*10/23/15 15:54*	*1*
2-Fluorobiphenyl	*82*		*34 - 120*	*10/22/15 10:55*	*10/23/15 15:54*	*1*
2,4,6-Tribromophenol	*83*		*15 - 135*	*10/22/15 10:55*	*10/23/15 15:54*	*1*
Nitrobenzene-d5	*80*		*27 - 120*	*10/22/15 10:55*	*10/23/15 15:54*	*1*
Phenol-d5	*73*		*10 - 120*	*10/22/15 10:55*	*10/23/15 15:54*	*1*
Terphenyl-d14	*88*		*53 - 125*	*10/22/15 10:55*	*10/23/15 15:54*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-280032/2-A
Matrix: Water
Analysis Batch: 280147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280032

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	25.0	20.0		ug/L		80	10 - 145
4-Chloroaniline	25.0	19.1		ug/L		77	32 - 128
3,3'-Dichlorobenzidine	25.0	22.1		ug/L		88	16 - 167
3-Nitroaniline	25.0	20.5		ug/L		82	51 - 128
Pyridine	25.0	15.6		ug/L		63	10 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol	*70*		*10 - 120*
2-Fluorobiphenyl	*82*		*34 - 120*
2,4,6-Tribromophenol	*89*		*15 - 135*
Nitrobenzene-d5	*79*		*27 - 120*
Phenol-d5	*78*		*10 - 120*
Terphenyl-d14	*92*		*53 - 125*

Lab Sample ID: LCSD 400-280032/3-A
Matrix: Water
Analysis Batch: 280147

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 280032

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	25.0	19.9		ug/L		80	10 - 145	1	30
4-Chloroaniline	25.0	18.7		ug/L		75	32 - 128	2	30
3,3'-Dichlorobenzidine	25.0	22.5		ug/L		90	16 - 167	2	30
3-Nitroaniline	25.0	20.3		ug/L		81	51 - 128	1	30
Pyridine	25.0	15.5		ug/L		62	10 - 127	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorophenol	*71*		*10 - 120*
2-Fluorobiphenyl	*81*		*34 - 120*
2,4,6-Tribromophenol	*87*		*15 - 135*
Nitrobenzene-d5	*76*		*27 - 120*
Phenol-d5	*76*		*10 - 120*
Terphenyl-d14	*89*		*53 - 125*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 400-279637/1-A
Matrix: Water
Analysis Batch: 281055

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 11:52	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 11:52	1
Anthracene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 11:52	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 11:52	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 11:52	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 11:52	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 11:52	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 400-279637/1-A
Matrix: Water
Analysis Batch: 281055

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 11:52	1
Chrysene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 11:52	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 11:52	1
Fluoranthene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 11:52	1
Fluorene	ND		0.20	0.021	ug/L		10/20/15 11:18	10/29/15 11:52	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 11:52	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 11:52	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 11:52	1
Phenanthrene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 11:52	1
Pyrene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 11:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*15 - 122*	*10/20/15 11:18*	*10/29/15 11:52*	*1*
Nitrobenzene-d5	*79*		*19 - 130*	*10/20/15 11:18*	*10/29/15 11:52*	*1*
Terphenyl-d14	*95*		*33 - 138*	*10/20/15 11:18*	*10/29/15 11:52*	*1*

Lab Sample ID: LCS 400-279637/2-A
Matrix: Water
Analysis Batch: 281055

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	30.0	23.4		ug/L		78	41 - 120
Acenaphthylene	30.0	24.1		ug/L		80	44 - 120
Anthracene	30.0	23.3		ug/L		78	49 - 120
Benzo[a]anthracene	30.0	24.1		ug/L		80	61 - 135
Benzo[a]pyrene	30.0	19.4		ug/L		65	52 - 120
Benzo[b]fluoranthene	30.0	18.3		ug/L		61	53 - 134
Benzo[g,h,i]perylene	30.0	19.9		ug/L		66	47 - 133
Benzo[k]fluoranthene	30.0	20.1		ug/L		67	57 - 134
Chrysene	30.0	23.5		ug/L		78	55 - 122
Dibenz(a,h)anthracene	30.0	20.7		ug/L		69	48 - 146
Fluoranthene	30.0	23.7		ug/L		79	54 - 128
Fluorene	30.0	23.9		ug/L		80	45 - 125
Indeno[1,2,3-cd]pyrene	30.0	22.0		ug/L		73	43 - 142
1-Methylnaphthalene	30.0	23.2		ug/L		77	41 - 120
2-Methylnaphthalene	30.0	23.5		ug/L		78	32 - 124
Phenanthrene	30.0	23.4		ug/L		78	48 - 120
Pyrene	30.0	24.3		ug/L		81	48 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*85*		*15 - 122*
Nitrobenzene-d5	*94*		*19 - 130*
Terphenyl-d14	*88*		*33 - 138*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCSD 400-279637/3-A
Matrix: Water
Analysis Batch: 281055

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 279637

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	30.0	25.4		ug/L		85	41 - 120	8	56
Acenaphthylene	30.0	26.0		ug/L		87	44 - 120	8	56
Anthracene	30.0	25.3		ug/L		84	49 - 120	8	51
Benzo[a]anthracene	30.0	25.8		ug/L		86	61 - 135	7	49
Benzo[a]pyrene	30.0	21.1		ug/L		70	52 - 120	8	50
Benzo[b]fluoranthene	30.0	20.1		ug/L		67	53 - 134	10	54
Benzo[g,h,i]perylene	30.0	21.6		ug/L		72	47 - 133	8	50
Benzo[k]fluoranthene	30.0	22.4		ug/L		75	57 - 134	11	52
Chrysene	30.0	25.4		ug/L		85	55 - 122	8	50
Dibenz(a,h)anthracene	30.0	22.6		ug/L		75	48 - 146	9	50
Fluoranthene	30.0	25.3		ug/L		84	54 - 128	7	52
Fluorene	30.0	25.8		ug/L		86	45 - 125	7	56
Indeno[1,2,3-cd]pyrene	30.0	24.1		ug/L		80	43 - 142	9	51
1-Methylnaphthalene	30.0	25.1		ug/L		84	41 - 120	8	55
2-Methylnaphthalene	30.0	25.5		ug/L		85	32 - 124	8	57
Phenanthrene	30.0	25.4		ug/L		85	48 - 120	8	56
Pyrene	30.0	26.1		ug/L		87	48 - 132	7	52

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*84*		*15 - 122*
Nitrobenzene-d5	*92*		*19 - 130*
Terphenyl-d14	*87*		*33 - 138*

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-279801/1-A
Matrix: Water
Analysis Batch: 279999

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279801

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/21/15 08:51	10/22/15 18:50	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/21/15 08:51	10/22/15 18:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*117*		*51 - 149*	*10/21/15 08:51*	*10/22/15 18:50*	*1*

Lab Sample ID: LCS 400-279801/2-A
Matrix: Water
Analysis Batch: 279999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279801

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.100	0.102		ug/L		102	60 - 140
1,2-Dibromoethane	0.100	0.103		ug/L		103	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*108*		*51 - 149*

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112444-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: TB-ROX-101415-8260

Lab Sample ID: 400-112444-1
Matrix: Water

Date Collected: 10/14/15 00:00
Date Received: 10/15/15 09:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279952	10/22/15 16:07	S1S	TAL PEN

Client Sample ID: TB-ROX-101415-8011

Lab Sample ID: 400-112444-2
Matrix: Water

Date Collected: 10/14/15 00:00
Date Received: 10/15/15 09:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			36.2 mL	35 mL	279801	10/21/15 08:51	AM	TAL PEN
Total/NA	Analysis	8011		1	36.2 mL	35 mL	279999	10/23/15 00:16	AM	TAL PEN

Client Sample ID: P74-ROX-101415

Lab Sample ID: 400-112444-3
Matrix: Water

Date Collected: 10/14/15 10:50
Date Received: 10/15/15 09:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	279952	10/22/15 16:29	S1S	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	279755	10/21/15 17:03	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280147	10/23/15 19:48	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	281055	10/29/15 18:46	CEP	TAL PEN
Total/NA	Prep	8011			36 mL	35 mL	279801	10/21/15 08:51	AM	TAL PEN
Total/NA	Analysis	8011		1	36 mL	35 mL	279999	10/23/15 00:46	AM	TAL PEN

Client Sample ID: MW22-ROX-101415

Lab Sample ID: 400-112444-4
Matrix: Water

Date Collected: 10/14/15 15:20
Date Received: 10/15/15 09:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	5 mL	5 mL	279952	10/22/15 16:51	S1S	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	279755	10/21/15 17:41	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280147	10/23/15 20:27	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	281055	10/29/15 19:24	CEP	TAL PEN
Total/NA	Prep	8011			35.2 mL	35 mL	279801	10/21/15 08:51	AM	TAL PEN
Total/NA	Analysis	8011		1	35.2 mL	35 mL	279999	10/23/15 01:16	AM	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-279637/2-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	279755	10/21/15 15:46	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C LL		5	1000 mL	1 mL	281055	10/29/15 12:30	CEP	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-279801/2-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	279801	10/21/15 08:51	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	279999	10/22/15 19:19	AM	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-279952/1002

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279952	10/22/15 08:08	S1S	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-280032/2-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280147	10/23/15 16:33	AJR	TAL PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-279637/3-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	279755	10/21/15 16:25	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C LL		5	1000 mL	1 mL	281055	10/29/15 13:07	CEP	TAL PEN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112444-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-280032/3-A
Matrix: Water

Date Collected: N/A
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280147	10/23/15 17:12	AJR	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-279637/1-A
Matrix: Water

Date Collected: N/A
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	279755	10/21/15 15:08	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	281055	10/29/15 11:52	CEP	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-279801/1-A
Matrix: Water

Date Collected: N/A
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	279801	10/21/15 08:51	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	279999	10/22/15 18:50	AM	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-279952/4
Matrix: Water

Date Collected: N/A
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279952	10/22/15 08:52	S1S	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-280032/1-A
Matrix: Water

Date Collected: N/A
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280147	10/23/15 15:54	AJR	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112444-1
SDG: Proj. 60400249-21563720.03004

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL PEN
8011	EDB and DBCP in Water by Microextraction	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Shell Oil Products Chain Of Custody Record

AECOM

LAB (LOCATION)

☐ XENCO (_____)
☐ CALSCIENCE (_____)
TestAmerica Pensacola; 3355 McLemore Dr.
☑ OTHER (Pensacola, FL 32514 (850-474-1001))
☐ Lab Vendor # (_____)
☐ SPL (_____)

Lab Vendor #

Please Check Appropriate Box:

☑ ENV. SERVICES	☐ MOTIVA RETAIL	☐ SHELL RETAIL
☐ MOTIVA SD&CM	☐ CONSULTANT	☐ LUBES
☐ SHELL PIPELINE	☐ OTHER _____	

Print Bill To Contact Name: Bob Billman

PO. #: 60400249-21563720.03004

INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0

☐ CHECK IF NO INCIDENT # APPLIES

SAP #: 3 4 0 0 6 1

DATE: 10-14-15

PAGE: 1 of 1

SAMPLING COMPANY: AECOM

LOG CODE:

SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA

State: IL

GLOBAL ID NO.:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110

EDF DELIVERABLE TO (Name, Company, Office Location):

PHONE NO.:

E-MAIL:

CONSULTANT PROJECT NO.: Roxana Quarterly GW / 60400249-21563720.03004

PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow

SAMPLER NAME(S) (Print): S. Fisher, D. Haxel

LAB USE ONLY

TELEPHONE: 314-429-0100

FAX: 314-429-0462

Bill To Contact E-MAIL: bob.billman@aecom.com; elizabeth.kunkel@aecom.com; lindsay.rathnow@aecom.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
* Please include "J" values on Reports.
* Please provide sample receipt upon login.

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

400-112444 COC

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260	VOC 8011	SVOC 8270	PAH 8270LL	Comments
	TB-ROX-101415-8260	10-14	0000	water	2					2	X				
	TB-ROX-101415-8011	"	0000	"	2					2		X			
	P74-ROX-101415	"	1050	"	4			3		7	X	X	X	X	
	MW22-ROX-101415	"	1520	"	4			3		7	X	X	X	X	

Samuel Fisher

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Comments

Relinquished by: (Signature) Samuel Fisher	Received by: (Signature) FED EX # 8092 2040 9634	Date: 10-14-15	Time:
Relinquished by: (Signature)	Received by: (Signature) DCAnna / TA 3.5°C, IR-6	Date: 10-15-15	Time: 0957
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2/08 Revision

Custody Seal: S24367

Page 37 of 39

10/31/2015

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 400-112444-1
SDG Number: Proj. 60400249-21563720.03004

Login Number: 112444
List Number: 1
Creator: Crawford, Lauren E

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.8°C IR-6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112444-1
SDG: Proj. 60400249-21563720.03004

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	08-31-15 *
Arizona	State Program	9	AZ0710	01-11-16
Arkansas DEQ	State Program	6	88-0689	09-01-16
Florida	NELAP	4	E81010	06-30-16
Georgia	State Program	4	N/A	06-30-16
Iowa	State Program	7	367	07-31-16
Kansas	NELAP	7	E-10253	10-31-15 *
Kentucky (UST)	State Program	4	53	06-30-16
Kentucky (WW)	State Program	4	98030	12-31-15
Louisiana	NELAP	6	30976	06-30-16
Maryland	State Program	3	233	09-30-16
Massachusetts	State Program	1	M-FL094	06-30-16
Michigan	State Program	5	9912	06-30-16
New Jersey	NELAP	2	FL006	10-30-15
North Carolina (WW/SW)	State Program	4	314	12-31-15
Oklahoma	State Program	6	9810	08-31-16
Pennsylvania	NELAP	3	68-00467	01-31-16
Rhode Island	State Program	1	LAO00307	12-30-15
South Carolina	State Program	4	96026	06-30-15 *
Tennessee	State Program	4	TN02907	06-30-16
Texas	NELAP	6	T104704286-15-9	09-30-16
USDA	Federal		P330-13-00193	07-01-16
Virginia	NELAP	3	460166	06-14-16
West Virginia DEP	State Program	3	136	06-30-16

* Certification renewal pending - certification considered valid.

Roxana Groundwater Quarterly – 4th Quarter 2015 Data Review

Laboratory SDG: 400-112445

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 12/7/2015

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2014

Sample Identification	Sample Identification
P93C-ROX-101415	P56-ROX-101415-EB
P56-ROX-101415	TB-ROX-101415-SS

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, although not indicated in the laboratory case narrative, 2-methylnaphthalene was detected in the equipment blank. The laboratory case narrative indicated that SVOC re-analysis of samples P93C-ROX-101415 and P56-ROX-101415, and equipment blank P56-ROX-101415-EB, was performed outside of hold time. SVOC LCS/LCSD recoveries and SVOC LCS/LCSD RPDs for several analytes were outside evaluation criteria. The surrogate terphenyl-d_{14} was outside criteria for Method 8270 SVOCs and Method 8270 LL PAHs in sample P56-ROX-101415. 3&4-Methylphenol in sample P56-ROX-101415 was diluted to bring the concentration within instrument calibration range. These issues are addressed further in the appropriate sections below.

Additionally, the initial calibration verification for vinyl acetate exceeded evaluation criteria. Three of 69 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds, results may be biased low due to the presence of HCl in the preservative.

The cooler receipt form indicated that one of two coolers was received by the laboratory at a temperature of 1.2°C, which is outside the 4ºC ± 2ºC criteria. Samples were received in good condition; therefore, no qualification of data was required. The cooler receipt form indicated insufficient sample volume was received for MS/MSD analysis, however MS/MSD analysis was not requested; no qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

No, re-extraction of SVOCs aniline, 4-chloroaniline, 3,3'-dichlorobenzidine, 3-nitroaniline, and pyridine in samples P93C-ROX-101415 and P56-ROX-101415, and equipment blank P56-ROX-101415-EB, was performed approximately 1 day outside of hold time for extraction (7 days) due to quality control spiking problems in the associated extraction batch. Target analytes were non-detect and, therefore, reported using the initial run extracted and analyzed within holding time criteria. SVOCs in the initial run were

appropriately qualified due to LCS recovery (see Section 5.0). No qualification of data based on hold time was required.

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/ Amount
P56-ROX-101415-EB	PAHs	2-Methylnaphthalene	0.025 µg/L

Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification. No qualification of data was required.

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS/LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD /RPD Criteria
LCS/LCSD 400-279637/2-A/3-A	SVOCs	Aniline	32/15	**70**	10-145/30
LCS/LCSD 400-279637/2-A/3-A	SVOCs	4-Chloroaniline	**17/10**	**53**	32-128/30
LCS/LCSD 400-279637/2-A/3-A	SVOCs	3,3'-Dichlorobenzidine	**0/-0.4**	**200**	16-167/30
LCS/LCSD 400-279637/2-A/3-A	SVOCs	3-Nitroaniline	**37/37**	0	51-128/30
LCS/LCSD 400-279637/2-A/3-A	SVOCs	Pyridine	11/**7**	**53**	10-127/30

Analytical data that required qualification based on LCS data are included in the table below. Analytical data reported as non-detect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. Analytical data associated with LCS/LCSD RPDs above evaluation criteria did not require qualification; LCS/LCSD recoveries were within evaluation criteria. Equipment blank P56-ROX-101415-EB associated with LCS/LCSD 400-279637/2-A/3-A is a quality control sample, and did not require qualification.

Sample ID	Parameter	Analyte	Qualification
P93C-ROX-101415 Run #1	SVOCs	4-Chloroaniline	**UJ**
P93C-ROX-101415 Run #1	SVOCs	3,3'-Dichlorobenzidine	**UJ**
P93C-ROX-101415 Run #1	SVOCs	3-Nitroaniline	**UJ**
P93C-ROX-101415 Run #1	SVOCs	Pyridine	**UJ**
P56-ROX-101415 Run #1	SVOCs	4-Chloroaniline	**UJ**
P56-ROX-101415 Run #1	SVOCs	3,3'-Dichlorobenzidine	**UJ**
P56-ROX-101415 Run #1	SVOCs	3-Nitroaniline	**UJ**
P56-ROX-101415 Run #1	SVOCs	Pyridine	**UJ**

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Sample ID	Parameter	Surrogate	Recovery (%)	Criteria (%)
P56-ROX-101415	PAHs	Terphenyl-d_{14}	**30**	33-138
P56-ROX-101415 Run #1	SVOCs	Terphenyl-d_{14}	**48**	53-125
P56-ROX-101415 Run #2	SVOCs	Terphenyl-d_{14}	**29**	53-125

Qualifications due to surrogate recoveries were not required due to only one of six SVOC surrogate recoveries being outside evaluation criteria in the initial and confirmation run of sample P56-ROX-101415. No qualification of data was required.

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

No

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

Yes

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples analyzed as part of this SDG?

No

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

11.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples requiring dilution.

12.0 Additional Qualifications

Were additional qualifications applied?

No

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-112445-1
TestAmerica SDG: Proj. 60400249-21563720.03004
Client Project/Site: ROXANA QUARTERLY GW - 4Q15

For:
AECOM Technical Services Inc.
1001 Highlands Plaza Dr. West
St. Louis, Missouri 63110

Attn: Mrs. Elizabeth Kunkel

Carolyn S. Hooper

Authorized for release by:
10/31/2015 2:20:09 PM

Carolyn Hooper, Project Manager I
(850)474-1001
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Reviewed 12/7/15 MH

LINKS

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Have a Question? Ask The Expert

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 400-112445-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-112445-1

Receipt
The samples were received on 10/15/2015 9:57 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.2°C and 2.9°C.

GC/MS VOA
Method 8260B: The initial calibration verification (ICV) analyzed in batch 400-274907 was outside method criteria for the following analyte: Vinyl acetate As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

The matrix spike (MS) recoveries for batch 279952 were outside control limits for one analyte due to matrix interference.

The preservative (HCL) used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The requested target analyte list includes 2-chloroethyl vinyl ether, Acrolein and Acrylonitrile, which are acid-labile compounds that degrade in an acidic medium.

GC/MS Semi VOA
Method 8270C: Surrogate recovery for the following sample was outside control limits: P56-ROX-101415 (400-112445-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

The following samples were re-prepared outside of preparation holding time due to failing compounds in the LCS/D from the original extraction batch: P93C-ROX-101415 (400-112445-1), P56-ROX-101415-EB (400-112445-2) and P56-ROX-101415 (400-112445-3). The two sets of results have been reported.

The following sample was diluted to bring the concentration of target analytes within the calibration range: P56-ROX-101415 (400-112445-3). Elevated reporting limits (RLs) are provided.

Method 8270C LL: Three surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: P56-ROX-101415 (400-112445-3). These results have been reported and qualified.

GC Semi VOA
Method 8011: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-279801 and analytical batch 400-279999 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Organic Prep
Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 8270 / LL.analytical batch 400-279637.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 8270. analytical batch 400-280032.

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

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112445-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: P93C-ROX-101415 — Lab Sample ID: 400-112445-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	11		1.0	0.38	ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	2.2		1.0	0.74	ug/L	1		8260B	Total/NA
1-Methylnaphthalene	0.10	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
2-Methylnaphthalene	0.13	J	0.20	0.020	ug/L	1		8270C LL	Total/NA

Client Sample ID: P56-ROX-101415-EB — Lab Sample ID: 400-112445-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.025	J	0.20	0.020	ug/L	1		8270C LL	Total/NA

Client Sample ID: P56-ROX-101415 — Lab Sample ID: 400-112445-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	150		25	10	ug/L	1		8260B	Total/NA
Benzene	33		1.0	0.38	ug/L	1		8260B	Total/NA
2-Butanone (MEK)	34		25	2.6	ug/L	1		8260B	Total/NA
Carbon disulfide	1.1		1.0	0.50	ug/L	1		8260B	Total/NA
Chloroform	2.2		1.0	0.60	ug/L	1		8260B	Total/NA
Ethylbenzene	67		1.0	0.50	ug/L	1		8260B	Total/NA
Isopropylbenzene	27		1.0	0.53	ug/L	1		8260B	Total/NA
4-Methyl-2-pentanone (MIBK)	11	J	25	1.8	ug/L	1		8260B	Total/NA
m-Xylene & p-Xylene	100		5.0	1.6	ug/L	1		8260B	Total/NA
Naphthalene	16		1.0	1.0	ug/L	1		8260B	Total/NA
n-Butylbenzene	1.2		1.0	0.76	ug/L	1		8260B	Total/NA
N-Propylbenzene	31		1.0	0.69	ug/L	1		8260B	Total/NA
o-Xylene	3.1	J	5.0	0.60	ug/L	1		8260B	Total/NA
p-Isopropyltoluene	1.3		1.0	0.71	ug/L	1		8260B	Total/NA
sec-Butylbenzene	1.8		1.0	0.70	ug/L	1		8260B	Total/NA
Toluene	7.7		1.0	0.70	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	29		1.0	0.82	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	7.7		1.0	0.56	ug/L	1		8260B	Total/NA
Xylenes, Total	100		5.0	0.60	ug/L	1		8260B	Total/NA
Fluorene	0.18	J	0.20	0.021	ug/L	1		8270C LL	Total/NA
1-Methylnaphthalene	13		0.20	0.020	ug/L	1		8270C LL	Total/NA
2-Methylnaphthalene	11		0.20	0.020	ug/L	1		8270C LL	Total/NA
Phenanthrene	0.82		0.20	0.020	ug/L	1		8270C LL	Total/NA
Benzoic acid	28	J	30	7.3	ug/L	1		8270C	Total/NA
3 & 4 Methylphenol	290		100	5.2	ug/L	5		8270C	Total/NA

Client Sample ID: TB-ROX-101415-SS — Lab Sample ID: 400-112445-4

No Detections.

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112445-1
SDG: Proj. 60400249-21563720.03004

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-112445-1	P93C-ROX-101415	Water	10/14/15 11:50	10/15/15 09:57
400-112445-2	P56-ROX-101415-EB	Water	10/14/15 12:15	10/15/15 09:57
400-112445-3	P56-ROX-101415	Water	10/14/15 13:00	10/15/15 09:57
400-112445-4	TB-ROX-101415-SS	Water	10/14/15 00:00	10/15/15 09:57

Client Sample ID: P93C-ROX-101415
Date Collected: 10/14/15 11:50
Date Received: 10/15/15 09:57

Lab Sample ID: 400-112445-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/22/15 13:57	1
Acrolein	ND		20	10	ug/L			10/22/15 13:57	1
Acrylonitrile	ND		10	2.8	ug/L			10/22/15 13:57	1
Benzene	**11**		1.0	0.38	ug/L			10/22/15 13:57	1
Bromobenzene	ND		1.0	0.54	ug/L			10/22/15 13:57	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/22/15 13:57	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/22/15 13:57	1
Bromoform	ND		5.0	0.71	ug/L			10/22/15 13:57	1
Bromomethane	ND		1.0	0.98	ug/L			10/22/15 13:57	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/22/15 13:57	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/22/15 13:57	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/22/15 13:57	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/22/15 13:57	1
Chloroethane	ND		1.0	0.76	ug/L			10/22/15 13:57	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/22/15 13:57	1
Chloroform	ND		1.0	0.60	ug/L			10/22/15 13:57	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/22/15 13:57	1
Chloromethane	ND		1.0	0.83	ug/L			10/22/15 13:57	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 13:57	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/15 13:57	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/22/15 13:57	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/22/15 13:57	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/22/15 13:57	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/22/15 13:57	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/22/15 13:57	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/22/15 13:57	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/22/15 13:57	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 13:57	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 13:57	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 13:57	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 13:57	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/22/15 13:57	1
1,4-Dioxane	ND		400	100	ug/L			10/22/15 13:57	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/22/15 13:57	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/22/15 13:57	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/22/15 13:57	1
2-Hexanone	ND		25	3.1	ug/L			10/22/15 13:57	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/22/15 13:57	1
Methylene bromide	ND		5.0	0.59	ug/L			10/22/15 13:57	1
Methylene chloride	ND		5.0	3.0	ug/L			10/22/15 13:57	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/22/15 13:57	1
Methyl tert-butyl ether	**2.2**		1.0	0.74	ug/L			10/22/15 13:57	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/22/15 13:57	1
Naphthalene	ND		1.0	1.0	ug/L			10/22/15 13:57	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/22/15 13:57	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/22/15 13:57	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/22/15 13:57	1
o-Xylene	ND		5.0	0.60	ug/L			10/22/15 13:57	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/22/15 13:57	1

Client Sample ID: P93C-ROX-101415
Date Collected: 10/14/15 11:50
Date Received: 10/15/15 09:57

Lab Sample ID: 400-112445-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/22/15 13:57	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/22/15 13:57	1
Styrene	ND		1.0	1.0	ug/L			10/22/15 13:57	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/22/15 13:57	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/22/15 13:57	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/22/15 13:57	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/22/15 13:57	1
Toluene	ND		1.0	0.70	ug/L			10/22/15 13:57	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 13:57	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/15 13:57	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/22/15 13:57	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/22/15 13:57	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/22/15 13:57	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/22/15 13:57	1
Trichloroethene	ND		1.0	0.50	ug/L			10/22/15 13:57	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/22/15 13:57	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/22/15 13:57	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/22/15 13:57	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/22/15 13:57	1
Vinyl acetate	ND		25	2.0	ug/L			10/22/15 13:57	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/22/15 13:57	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/22/15 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*78 - 118*		*10/22/15 13:57*	*1*
Dibromofluoromethane	*103*		*81 - 121*		*10/22/15 13:57*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/22/15 13:57*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 20:01	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 20:01	1
Anthracene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 20:01	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 20:01	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 20:01	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 20:01	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 20:01	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 20:01	1
Chrysene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 20:01	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 20:01	1
Fluoranthene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 20:01	1
Fluorene	ND		0.20	0.021	ug/L		10/20/15 11:18	10/29/15 20:01	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 20:01	1
1-Methylnaphthalene	**0.10**	**J**	0.20	0.020	ug/L		10/20/15 11:18	10/29/15 20:01	1
2-Methylnaphthalene	**0.13**	**J**	0.20	0.020	ug/L		10/20/15 11:18	10/29/15 20:01	1
Phenanthrene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 20:01	1
Pyrene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 20:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*15 - 122*	*10/20/15 11:18*	*10/29/15 20:01*	*1*

Client Sample ID: P93C-ROX-101415
Date Collected: 10/14/15 11:50
Date Received: 10/15/15 09:57

Lab Sample ID: 400-112445-1
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	78		19 - 130	10/20/15 11:18	10/29/15 20:01	1
Terphenyl-d14	71		33 - 138	10/20/15 11:18	10/29/15 20:01	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	*	10	3.8	ug/L		10/20/15 11:18	10/21/15 18:19	1
Aniline	ND	H	10	3.8	ug/L		10/22/15 10:55	10/23/15 21:06	1
Benzenethiol	ND		10	1.7	ug/L		10/20/15 11:18	10/21/15 18:19	1
Benzoic acid	ND		30	7.3	ug/L		10/20/15 11:18	10/21/15 18:19	1
Benzyl alcohol	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 18:19	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/20/15 11:18	10/21/15 18:19	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/20/15 11:18	10/21/15 18:19	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/20/15 11:18	10/21/15 18:19	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/20/15 11:18	10/21/15 18:19	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/20/15 11:18	10/21/15 18:19	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/20/15 11:18	10/21/15 18:19	1
4-Chloroaniline	ND	* UJ	10	3.4	ug/L		10/20/15 11:18	10/21/15 18:19	1
4-Chloroaniline	ND	H	10	3.4	ug/L		10/22/15 10:55	10/23/15 21:06	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/20/15 11:18	10/21/15 18:19	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/20/15 11:18	10/21/15 18:19	1
2-Chlorophenol	ND		10	2.2	ug/L		10/20/15 11:18	10/21/15 18:19	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 18:19	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/20/15 11:18	10/21/15 18:19	1
Dibenzofuran	ND		10	0.52	ug/L		10/20/15 11:18	10/21/15 18:19	1
3,3'-Dichlorobenzidine	ND	* UJ	10	2.6	ug/L		10/20/15 11:18	10/21/15 18:19	1
3,3'-Dichlorobenzidine	ND	H	10	2.6	ug/L		10/22/15 10:55	10/23/15 21:06	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/20/15 11:18	10/21/15 18:19	1
Diethyl phthalate	ND		10	0.70	ug/L		10/20/15 11:18	10/21/15 18:19	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 18:19	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/20/15 11:18	10/21/15 18:19	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/20/15 11:18	10/21/15 18:19	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 18:19	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/20/15 11:18	10/21/15 18:19	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/20/15 11:18	10/21/15 18:19	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/20/15 11:18	10/21/15 18:19	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/20/15 11:18	10/21/15 18:19	1
1,4-Dioxane	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 18:19	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 18:19	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/20/15 11:18	10/21/15 18:19	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/20/15 11:18	10/21/15 18:19	1
Hexachloroethane	ND		10	4.2	ug/L		10/20/15 11:18	10/21/15 18:19	1
Indene	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 18:19	1
Isophorone	ND		10	0.57	ug/L		10/20/15 11:18	10/21/15 18:19	1
2-Methylphenol	ND		10	1.8	ug/L		10/20/15 11:18	10/21/15 18:19	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/20/15 11:18	10/21/15 18:19	1
2-Nitroaniline	ND		10	2.2	ug/L		10/20/15 11:18	10/21/15 18:19	1
3-Nitroaniline	ND	* UJ	10	1.8	ug/L		10/20/15 11:18	10/21/15 18:19	1
3-Nitroaniline	ND	H	10	1.8	ug/L		10/22/15 10:55	10/23/15 21:06	1

Client Sample ID: P93C-ROX-101415
Date Collected: 10/14/15 11:50
Date Received: 10/15/15 09:57

Lab Sample ID: 400-112445-1
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	ND		10	2.5	ug/L		10/20/15 11:18	10/21/15 18:19	1
Nitrobenzene	ND		10	0.55	ug/L		10/20/15 11:18	10/21/15 18:19	1
2-Nitrophenol	ND		10	0.65	ug/L		10/20/15 11:18	10/21/15 18:19	1
4-Nitrophenol	ND		10	2.1	ug/L		10/20/15 11:18	10/21/15 18:19	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 18:19	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/20/15 11:18	10/21/15 18:19	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/20/15 11:18	10/21/15 18:19	1
Pentachlorophenol	ND		20	1.8	ug/L		10/20/15 11:18	10/21/15 18:19	1
Phenol	ND		10	2.6	ug/L		10/20/15 11:18	10/21/15 18:19	1
Pyridine	ND	* UJ	10	3.2	ug/L		10/20/15 11:18	10/21/15 18:19	1
Pyridine	ND	H	10	3.2	ug/L		10/22/15 10:55	10/23/15 21:06	1
Quinoline	ND		10	6.0	ug/L		10/20/15 11:18	10/21/15 18:19	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/20/15 11:18	10/21/15 18:19	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*59*		*10 - 120*	*10/20/15 11:18*	*10/21/15 18:19*	*1*
2-Fluorophenol	*47*		*10 - 120*	*10/22/15 10:55*	*10/23/15 21:06*	*1*
2-Fluorobiphenyl	*82*		*34 - 120*	*10/20/15 11:18*	*10/21/15 18:19*	*1*
2-Fluorobiphenyl	*75*		*34 - 120*	*10/22/15 10:55*	*10/23/15 21:06*	*1*
2,4,6-Tribromophenol	*85*		*15 - 135*	*10/20/15 11:18*	*10/21/15 18:19*	*1*
2,4,6-Tribromophenol	*65*		*15 - 135*	*10/22/15 10:55*	*10/23/15 21:06*	*1*
Nitrobenzene-d5	*91*		*27 - 120*	*10/20/15 11:18*	*10/21/15 18:19*	*1*
Nitrobenzene-d5	*74*		*27 - 120*	*10/22/15 10:55*	*10/23/15 21:06*	*1*
Phenol-d5	*64*		*10 - 120*	*10/20/15 11:18*	*10/21/15 18:19*	*1*
Phenol-d5	*49*		*10 - 120*	*10/22/15 10:55*	*10/23/15 21:06*	*1*
Terphenyl-d14	*75*		*53 - 125*	*10/20/15 11:18*	*10/21/15 18:19*	*1*
Terphenyl-d14	*57*		*53 - 125*	*10/22/15 10:55*	*10/23/15 21:06*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.029	0.0053	ug/L		10/21/15 08:51	10/23/15 01:46	1
1,2-Dibromoethane	ND		0.019	0.0048	ug/L		10/21/15 08:51	10/23/15 01:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*51 - 149*	*10/21/15 08:51*	*10/23/15 01:46*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112445-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: P56-ROX-101415-EB
Date Collected: 10/14/15 12:15
Date Received: 10/15/15 09:57

Lab Sample ID: 400-112445-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/22/15 14:19	1
Acrolein	ND		20	10	ug/L			10/22/15 14:19	1
Acrylonitrile	ND		10	2.8	ug/L			10/22/15 14:19	1
Benzene	ND		1.0	0.38	ug/L			10/22/15 14:19	1
Bromobenzene	ND		1.0	0.54	ug/L			10/22/15 14:19	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/22/15 14:19	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/22/15 14:19	1
Bromoform	ND		5.0	0.71	ug/L			10/22/15 14:19	1
Bromomethane	ND		1.0	0.98	ug/L			10/22/15 14:19	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/22/15 14:19	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/22/15 14:19	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/22/15 14:19	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/22/15 14:19	1
Chloroethane	ND		1.0	0.76	ug/L			10/22/15 14:19	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/22/15 14:19	1
Chloroform	ND		1.0	0.60	ug/L			10/22/15 14:19	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/22/15 14:19	1
Chloromethane	ND		1.0	0.83	ug/L			10/22/15 14:19	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 14:19	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/15 14:19	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/22/15 14:19	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/22/15 14:19	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/22/15 14:19	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/22/15 14:19	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/22/15 14:19	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/22/15 14:19	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/22/15 14:19	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 14:19	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 14:19	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 14:19	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 14:19	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/22/15 14:19	1
1,4-Dioxane	ND		400	100	ug/L			10/22/15 14:19	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/22/15 14:19	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/22/15 14:19	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/22/15 14:19	1
2-Hexanone	ND		25	3.1	ug/L			10/22/15 14:19	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/22/15 14:19	1
Methylene bromide	ND		5.0	0.59	ug/L			10/22/15 14:19	1
Methylene chloride	ND		5.0	3.0	ug/L			10/22/15 14:19	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/22/15 14:19	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/22/15 14:19	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/22/15 14:19	1
Naphthalene	ND		1.0	1.0	ug/L			10/22/15 14:19	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/22/15 14:19	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/22/15 14:19	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/22/15 14:19	1
o-Xylene	ND		5.0	0.60	ug/L			10/22/15 14:19	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/22/15 14:19	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112445-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: P56-ROX-101415-EB
Date Collected: 10/14/15 12:15
Date Received: 10/15/15 09:57

Lab Sample ID: 400-112445-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/22/15 14:19	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/22/15 14:19	1
Styrene	ND		1.0	1.0	ug/L			10/22/15 14:19	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/22/15 14:19	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/22/15 14:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/22/15 14:19	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/22/15 14:19	1
Toluene	ND		1.0	0.70	ug/L			10/22/15 14:19	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 14:19	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/15 14:19	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/22/15 14:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/22/15 14:19	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/22/15 14:19	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/22/15 14:19	1
Trichloroethene	ND		1.0	0.50	ug/L			10/22/15 14:19	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/22/15 14:19	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/22/15 14:19	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/22/15 14:19	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/22/15 14:19	1
Vinyl acetate	ND		25	2.0	ug/L			10/22/15 14:19	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/22/15 14:19	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/22/15 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*78 - 118*		*10/22/15 14:19*	*1*
Dibromofluoromethane	*101*		*81 - 121*		*10/22/15 14:19*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/22/15 14:19*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 20:38	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 20:38	1
Anthracene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 20:38	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 20:38	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 20:38	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 20:38	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 20:38	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 20:38	1
Chrysene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 20:38	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 20:38	1
Fluoranthene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 20:38	1
Fluorene	ND		0.20	0.021	ug/L		10/20/15 11:18	10/29/15 20:38	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 20:38	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 20:38	1
2-Methylnaphthalene	**0.025**	J	0.20	0.020	ug/L		10/20/15 11:18	10/29/15 20:38	1
Phenanthrene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 20:38	1
Pyrene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*64*		*15 - 122*	*10/20/15 11:18*	*10/29/15 20:38*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112445-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: P56-ROX-101415-EB
Date Collected: 10/14/15 12:15
Date Received: 10/15/15 09:57

Lab Sample ID: 400-112445-2
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	85		19 - 130	10/20/15 11:18	10/29/15 20:38	1
Terphenyl-d14	119		33 - 138	10/20/15 11:18	10/29/15 20:38	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	*	10	3.8	ug/L		10/20/15 11:18	10/21/15 18:57	1
Aniline	ND	H	10	3.8	ug/L		10/22/15 10:55	10/23/15 21:45	1
Benzenethiol	ND		10	1.7	ug/L		10/20/15 11:18	10/21/15 18:57	1
Benzoic acid	ND		30	7.3	ug/L		10/20/15 11:18	10/21/15 18:57	1
Benzyl alcohol	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 18:57	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/20/15 11:18	10/21/15 18:57	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/20/15 11:18	10/21/15 18:57	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/20/15 11:18	10/21/15 18:57	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/20/15 11:18	10/21/15 18:57	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/20/15 11:18	10/21/15 18:57	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/20/15 11:18	10/21/15 18:57	1
4-Chloroaniline	ND	*	10	3.4	ug/L		10/20/15 11:18	10/21/15 18:57	1
4-Chloroaniline	ND	H	10	3.4	ug/L		10/22/15 10:55	10/23/15 21:45	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/20/15 11:18	10/21/15 18:57	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/20/15 11:18	10/21/15 18:57	1
2-Chlorophenol	ND		10	2.2	ug/L		10/20/15 11:18	10/21/15 18:57	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 18:57	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/20/15 11:18	10/21/15 18:57	1
Dibenzofuran	ND		10	0.52	ug/L		10/20/15 11:18	10/21/15 18:57	1
3,3'-Dichlorobenzidine	ND	*	10	2.6	ug/L		10/20/15 11:18	10/21/15 18:57	1
3,3'-Dichlorobenzidine	ND	H	10	2.6	ug/L		10/22/15 10:55	10/23/15 21:45	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/20/15 11:18	10/21/15 18:57	1
Diethyl phthalate	ND		10	0.70	ug/L		10/20/15 11:18	10/21/15 18:57	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 18:57	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/20/15 11:18	10/21/15 18:57	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/20/15 11:18	10/21/15 18:57	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 18:57	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/20/15 11:18	10/21/15 18:57	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/20/15 11:18	10/21/15 18:57	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/20/15 11:18	10/21/15 18:57	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/20/15 11:18	10/21/15 18:57	1
1,4-Dioxane	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 18:57	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 18:57	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/20/15 11:18	10/21/15 18:57	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/20/15 11:18	10/21/15 18:57	1
Hexachloroethane	ND		10	4.2	ug/L		10/20/15 11:18	10/21/15 18:57	1
Indene	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 18:57	1
Isophorone	ND		10	0.57	ug/L		10/20/15 11:18	10/21/15 18:57	1
2-Methylphenol	ND		10	1.8	ug/L		10/20/15 11:18	10/21/15 18:57	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/20/15 11:18	10/21/15 18:57	1
2-Nitroaniline	ND		10	2.2	ug/L		10/20/15 11:18	10/21/15 18:57	1
3-Nitroaniline	ND	*	10	1.8	ug/L		10/20/15 11:18	10/21/15 18:57	1
3-Nitroaniline	ND	H	10	1.8	ug/L		10/22/15 10:55	10/23/15 21:45	1

Client Sample ID: P56-ROX-101415-EB

Date Collected: 10/14/15 12:15
Date Received: 10/15/15 09:57

Lab Sample ID: 400-112445-2

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	ND		10	2.5	ug/L		10/20/15 11:18	10/21/15 18:57	1
Nitrobenzene	ND		10	0.55	ug/L		10/20/15 11:18	10/21/15 18:57	1
2-Nitrophenol	ND		10	0.65	ug/L		10/20/15 11:18	10/21/15 18:57	1
4-Nitrophenol	ND		10	2.1	ug/L		10/20/15 11:18	10/21/15 18:57	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 18:57	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/20/15 11:18	10/21/15 18:57	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/20/15 11:18	10/21/15 18:57	1
Pentachlorophenol	ND		20	1.8	ug/L		10/20/15 11:18	10/21/15 18:57	1
Phenol	ND		10	2.6	ug/L		10/20/15 11:18	10/21/15 18:57	1
Pyridine	ND	*	10	3.2	ug/L		10/20/15 11:18	10/21/15 18:57	1
Pyridine	ND	H	10	3.2	ug/L		10/22/15 10:55	10/23/15 21:45	1
Quinoline	ND		10	6.0	ug/L		10/20/15 11:18	10/21/15 18:57	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/20/15 11:18	10/21/15 18:57	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*70*		*10 - 120*	*10/20/15 11:18*	*10/21/15 18:57*	*1*
2-Fluorophenol	*62*		*10 - 120*	*10/22/15 10:55*	*10/23/15 21:45*	*1*
2-Fluorobiphenyl	*68*		*34 - 120*	*10/20/15 11:18*	*10/21/15 18:57*	*1*
2-Fluorobiphenyl	*81*		*34 - 120*	*10/22/15 10:55*	*10/23/15 21:45*	*1*
2,4,6-Tribromophenol	*100*		*15 - 135*	*10/20/15 11:18*	*10/21/15 18:57*	*1*
2,4,6-Tribromophenol	*83*		*15 - 135*	*10/22/15 10:55*	*10/23/15 21:45*	*1*
Nitrobenzene-d5	*90*		*27 - 120*	*10/20/15 11:18*	*10/21/15 18:57*	*1*
Nitrobenzene-d5	*78*		*27 - 120*	*10/22/15 10:55*	*10/23/15 21:45*	*1*
Phenol-d5	*82*		*10 - 120*	*10/20/15 11:18*	*10/21/15 18:57*	*1*
Phenol-d5	*61*		*10 - 120*	*10/22/15 10:55*	*10/23/15 21:45*	*1*
Terphenyl-d14	*107*		*53 - 125*	*10/20/15 11:18*	*10/21/15 18:57*	*1*
Terphenyl-d14	*102*		*53 - 125*	*10/22/15 10:55*	*10/23/15 21:45*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.028	0.0051	ug/L		10/21/15 08:51	10/23/15 02:16	1
1,2-Dibromoethane	ND		0.018	0.0046	ug/L		10/21/15 08:51	10/23/15 02:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*51 - 149*	*10/21/15 08:51*	*10/23/15 02:16*	*1*

Client Sample ID: P56-ROX-101415

Date Collected: 10/14/15 13:00
Date Received: 10/15/15 09:57

Lab Sample ID: 400-112445-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**150**		25	10	ug/L			10/22/15 14:40	1
Acrolein	ND		20	10	ug/L			10/22/15 14:40	1
Acrylonitrile	ND		10	2.8	ug/L			10/22/15 14:40	1
Benzene	**33**		1.0	0.38	ug/L			10/22/15 14:40	1
Bromobenzene	ND		1.0	0.54	ug/L			10/22/15 14:40	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/22/15 14:40	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/22/15 14:40	1
Bromoform	ND		5.0	0.71	ug/L			10/22/15 14:40	1
Bromomethane	ND		1.0	0.98	ug/L			10/22/15 14:40	1
2-Butanone (MEK)	**34**		25	2.6	ug/L			10/22/15 14:40	1
Carbon disulfide	**1.1**		1.0	0.50	ug/L			10/22/15 14:40	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/22/15 14:40	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/22/15 14:40	1
Chloroethane	ND		1.0	0.76	ug/L			10/22/15 14:40	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/22/15 14:40	1
Chloroform	**2.2**		1.0	0.60	ug/L			10/22/15 14:40	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/22/15 14:40	1
Chloromethane	ND		1.0	0.83	ug/L			10/22/15 14:40	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 14:40	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/15 14:40	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/22/15 14:40	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/22/15 14:40	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/22/15 14:40	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/22/15 14:40	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/22/15 14:40	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/22/15 14:40	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/22/15 14:40	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 14:40	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 14:40	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 14:40	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 14:40	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/22/15 14:40	1
1,4-Dioxane	ND		400	100	ug/L			10/22/15 14:40	1
Ethylbenzene	**67**		1.0	0.50	ug/L			10/22/15 14:40	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/22/15 14:40	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/22/15 14:40	1
2-Hexanone	ND		25	3.1	ug/L			10/22/15 14:40	1
Isopropylbenzene	**27**		1.0	0.53	ug/L			10/22/15 14:40	1
Methylene bromide	ND		5.0	0.59	ug/L			10/22/15 14:40	1
Methylene chloride	ND		5.0	3.0	ug/L			10/22/15 14:40	1
4-Methyl-2-pentanone (MIBK)	**11**	J	25	1.8	ug/L			10/22/15 14:40	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/22/15 14:40	1
m-Xylene & p-Xylene	**100**		5.0	1.6	ug/L			10/22/15 14:40	1
Naphthalene	**16**		1.0	1.0	ug/L			10/22/15 14:40	1
n-Butylbenzene	**1.2**		1.0	0.76	ug/L			10/22/15 14:40	1
N-Propylbenzene	**31**		1.0	0.69	ug/L			10/22/15 14:40	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/22/15 14:40	1
o-Xylene	**3.1**	J	5.0	0.60	ug/L			10/22/15 14:40	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/22/15 14:40	1

Client Sample ID: P56-ROX-101415

Date Collected: 10/14/15 13:00
Date Received: 10/15/15 09:57

Lab Sample ID: 400-112445-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	**1.3**		1.0	0.71	ug/L			10/22/15 14:40	1
sec-Butylbenzene	**1.8**		1.0	0.70	ug/L			10/22/15 14:40	1
Styrene	ND		1.0	1.0	ug/L			10/22/15 14:40	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/22/15 14:40	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/22/15 14:40	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/22/15 14:40	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/22/15 14:40	1
Toluene	**7.7**		1.0	0.70	ug/L			10/22/15 14:40	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 14:40	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/15 14:40	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/22/15 14:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/22/15 14:40	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/22/15 14:40	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/22/15 14:40	1
Trichloroethene	ND		1.0	0.50	ug/L			10/22/15 14:40	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/22/15 14:40	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/22/15 14:40	1
1,2,4-Trimethylbenzene	**29**		1.0	0.82	ug/L			10/22/15 14:40	1
1,3,5-Trimethylbenzene	**7.7**		1.0	0.56	ug/L			10/22/15 14:40	1
Vinyl acetate	ND		25	2.0	ug/L			10/22/15 14:40	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/22/15 14:40	1
Xylenes, Total	**100**		5.0	0.60	ug/L			10/22/15 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*108*		*78 - 118*		*10/22/15 14:40*	*1*
Dibromofluoromethane	*102*		*81 - 121*		*10/22/15 14:40*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/22/15 14:40*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 21:16	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 21:16	1
Anthracene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 21:16	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 21:16	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 21:16	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 21:16	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 21:16	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 21:16	1
Chrysene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 21:16	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 21:16	1
Fluoranthene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 21:16	1
Fluorene	**0.18**	J	0.20	0.021	ug/L		10/20/15 11:18	10/29/15 21:16	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 21:16	1
1-Methylnaphthalene	**13**		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 21:16	1
2-Methylnaphthalene	**11**		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 21:16	1
Phenanthrene	**0.82**		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 21:16	1
Pyrene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 21:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*43*		*15 - 122*	*10/20/15 11:18*	*10/29/15 21:16*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	45		19 - 130	10/20/15 11:18	10/29/15 21:16	1
Terphenyl-d14	(30)	X	33 - 138	10/20/15 11:18	10/29/15 21:16	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	*	10	3.8	ug/L		10/20/15 11:18	10/21/15 19:35	1
Aniline	ND	H	10	3.8	ug/L		(10/22/15) 10:55	10/23/15 22:24	1
Benzenethiol	ND		10	1.7	ug/L		10/20/15 11:18	10/21/15 19:35	1
Benzoic acid	**28**	J	30	7.3	ug/L		10/20/15 11:18	10/21/15 19:35	1
Benzyl alcohol	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 19:35	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/20/15 11:18	10/21/15 19:35	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/20/15 11:18	10/21/15 19:35	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/20/15 11:18	10/21/15 19:35	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/20/15 11:18	10/21/15 19:35	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/20/15 11:18	10/21/15 19:35	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/20/15 11:18	10/21/15 19:35	1
4-Chloroaniline	ND	* UJ	10	3.4	ug/L		10/20/15 11:18	10/21/15 19:35	1
4-Chloroaniline	ND	H	10	3.4	ug/L		(10/22/15) 10:55	10/23/15 22:24	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/20/15 11:18	10/21/15 19:35	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/20/15 11:18	10/21/15 19:35	1
2-Chlorophenol	ND		10	2.2	ug/L		10/20/15 11:18	10/21/15 19:35	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 19:35	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/20/15 11:18	10/21/15 19:35	1
Dibenzofuran	ND		10	0.52	ug/L		10/20/15 11:18	10/21/15 19:35	1
3,3'-Dichlorobenzidine	ND	* UJ	10	2.6	ug/L		10/20/15 11:18	10/21/15 19:35	1
3,3'-Dichlorobenzidine	ND	H	10	2.6	ug/L		(10/22/15) 10:55	10/23/15 22:24	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/20/15 11:18	10/21/15 19:35	1
Diethyl phthalate	ND		10	0.70	ug/L		10/20/15 11:18	10/21/15 19:35	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 19:35	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/20/15 11:18	10/21/15 19:35	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/20/15 11:18	10/21/15 19:35	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 19:35	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/20/15 11:18	10/21/15 19:35	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/20/15 11:18	10/21/15 19:35	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/20/15 11:18	10/21/15 19:35	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/20/15 11:18	10/21/15 19:35	1
1,4-Dioxane	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 19:35	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 19:35	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/20/15 11:18	10/21/15 19:35	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/20/15 11:18	10/21/15 19:35	1
Hexachloroethane	ND		10	4.2	ug/L		10/20/15 11:18	10/21/15 19:35	1
Indene	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 19:35	1
Isophorone	ND		10	0.57	ug/L		10/20/15 11:18	10/21/15 19:35	1
2-Methylphenol	ND		10	1.8	ug/L		10/20/15 11:18	10/21/15 19:35	1
3 & 4 Methylphenol	**290**		100	5.2	ug/L		10/20/15 11:18	10/26/15 17:47	5
2-Nitroaniline	ND		10	2.2	ug/L		10/20/15 11:18	10/21/15 19:35	1
3-Nitroaniline	ND	* UJ	10	1.8	ug/L		10/20/15 11:18	10/21/15 19:35	1
3-Nitroaniline	ND	H	10	1.8	ug/L		(10/22/15) 10:55	10/23/15 22:24	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112445-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: P56-ROX-101415
Date Collected: 10/14/15 13:00
Date Received: 10/15/15 09:57

Lab Sample ID: 400-112445-3
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	ND		10	2.5	ug/L		10/20/15 11:18	10/21/15 19:35	1
Nitrobenzene	ND		10	0.55	ug/L		10/20/15 11:18	10/21/15 19:35	1
2-Nitrophenol	ND		10	0.65	ug/L		10/20/15 11:18	10/21/15 19:35	1
4-Nitrophenol	ND		10	2.1	ug/L		10/20/15 11:18	10/21/15 19:35	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 19:35	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/20/15 11:18	10/21/15 19:35	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/20/15 11:18	10/21/15 19:35	1
Pentachlorophenol	ND		20	1.8	ug/L		10/20/15 11:18	10/21/15 19:35	1
Phenol	ND		10	2.6	ug/L		10/20/15 11:18	10/21/15 19:35	1
Pyridine	ND	* UJ	10	3.2	ug/L		10/20/15 11:18	10/21/15 19:35	1
Pyridine	ND	H	10	3.2	ug/L		10/22/15 10:55	10/23/15 22:24	1
Quinoline	ND		10	6.0	ug/L		10/20/15 11:18	10/21/15 19:35	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/20/15 11:18	10/21/15 19:35	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*55*		*10 - 120*	*10/20/15 11:18*	*10/21/15 19:35*	*1*
2-Fluorophenol	*51*		*10 - 120*	*10/22/15 10:55*	*10/23/15 22:24*	*1*
2-Fluorobiphenyl	*68*		*34 - 120*	*10/20/15 11:18*	*10/21/15 19:35*	*1*
2-Fluorobiphenyl	*70*		*34 - 120*	*10/22/15 10:55*	*10/23/15 22:24*	*1*
2,4,6-Tribromophenol	*90*		*15 - 135*	*10/20/15 11:18*	*10/21/15 19:35*	*1*
2,4,6-Tribromophenol	*68*		*15 - 135*	*10/22/15 10:55*	*10/23/15 22:24*	*1*
Nitrobenzene-d5	*70*		*27 - 120*	*10/20/15 11:18*	*10/21/15 19:35*	*1*
Nitrobenzene-d5	*66*		*27 - 120*	*10/22/15 10:55*	*10/23/15 22:24*	*1*
Phenol-d5	*75*		*10 - 120*	*10/20/15 11:18*	*10/21/15 19:35*	*1*
Phenol-d5	*59*		*10 - 120*	*10/22/15 10:55*	*10/23/15 22:24*	*1*
Terphenyl-d14	*48*	*X*	*53 - 125*	*10/20/15 11:18*	*10/21/15 19:35*	*1*
Terphenyl-d14	*29*	*X*	*53 - 125*	*10/22/15 10:55*	*10/23/15 22:24*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.031	0.0056	ug/L		10/21/15 08:51	10/23/15 02:45	1
1,2-Dibromoethane	ND		0.021	0.0051	ug/L		10/21/15 08:51	10/23/15 02:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*121*		*51 - 149*	*10/21/15 08:51*	*10/23/15 02:45*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112445-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: TB-ROX-101415-SS
Date Collected: 10/14/15 00:00
Date Received: 10/15/15 09:57

Lab Sample ID: 400-112445-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/22/15 15:02	1
Acrolein	ND		20	10	ug/L			10/22/15 15:02	1
Acrylonitrile	ND		10	2.8	ug/L			10/22/15 15:02	1
Benzene	ND		1.0	0.38	ug/L			10/22/15 15:02	1
Bromobenzene	ND		1.0	0.54	ug/L			10/22/15 15:02	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/22/15 15:02	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/22/15 15:02	1
Bromoform	ND		5.0	0.71	ug/L			10/22/15 15:02	1
Bromomethane	ND		1.0	0.98	ug/L			10/22/15 15:02	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/22/15 15:02	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/22/15 15:02	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/22/15 15:02	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/22/15 15:02	1
Chloroethane	ND		1.0	0.76	ug/L			10/22/15 15:02	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/22/15 15:02	1
Chloroform	ND		1.0	0.60	ug/L			10/22/15 15:02	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/22/15 15:02	1
Chloromethane	ND		1.0	0.83	ug/L			10/22/15 15:02	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 15:02	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/15 15:02	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/22/15 15:02	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/22/15 15:02	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/22/15 15:02	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/22/15 15:02	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/22/15 15:02	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/22/15 15:02	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/22/15 15:02	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 15:02	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 15:02	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 15:02	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 15:02	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/22/15 15:02	1
1,4-Dioxane	ND		400	100	ug/L			10/22/15 15:02	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/22/15 15:02	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/22/15 15:02	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/22/15 15:02	1
2-Hexanone	ND		25	3.1	ug/L			10/22/15 15:02	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/22/15 15:02	1
Methylene bromide	ND		5.0	0.59	ug/L			10/22/15 15:02	1
Methylene chloride	ND		5.0	3.0	ug/L			10/22/15 15:02	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/22/15 15:02	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/22/15 15:02	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/22/15 15:02	1
Naphthalene	ND		1.0	1.0	ug/L			10/22/15 15:02	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/22/15 15:02	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/22/15 15:02	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/22/15 15:02	1
o-Xylene	ND		5.0	0.60	ug/L			10/22/15 15:02	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/22/15 15:02	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112445-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: TB-ROX-101415-SS
Date Collected: 10/14/15 00:00
Date Received: 10/15/15 09:57

Lab Sample ID: 400-112445-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/22/15 15:02	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/22/15 15:02	1
Styrene	ND		1.0	1.0	ug/L			10/22/15 15:02	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/22/15 15:02	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/22/15 15:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/22/15 15:02	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/22/15 15:02	1
Toluene	ND		1.0	0.70	ug/L			10/22/15 15:02	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 15:02	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/15 15:02	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/22/15 15:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/22/15 15:02	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/22/15 15:02	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/22/15 15:02	1
Trichloroethene	ND		1.0	0.50	ug/L			10/22/15 15:02	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/22/15 15:02	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/22/15 15:02	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/22/15 15:02	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/22/15 15:02	1
Vinyl acetate	ND		25	2.0	ug/L			10/22/15 15:02	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/22/15 15:02	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/22/15 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*78 - 118*		*10/22/15 15:02*	*1*
Dibromofluoromethane	*101*		*81 - 121*		*10/22/15 15:02*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/22/15 15:02*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.031	0.0057	ug/L		10/21/15 08:51	10/23/15 03:14	1
1,2-Dibromoethane	ND		0.021	0.0052	ug/L		10/21/15 08:51	10/23/15 03:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*51 - 149*	*10/21/15 08:51*	*10/23/15 03:14*	*1*

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Glossary

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

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112445-1
SDG: Proj. 60400249-21563720.03004

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(78-118)	(81-121)	(80-120)
400-112445-1	P93C-ROX-101415	105	103	97
400-112445-2	P56-ROX-101415-EB	102	101	97
400-112445-3	P56-ROX-101415	108	102	99
400-112445-4	TB-ROX-101415-SS	104	101	97
400-112532-A-6 MS	Matrix Spike	100	103	96
400-112532-A-6 MSD	Matrix Spike Duplicate	101	105	96
LCS 400-279952/1002	Lab Control Sample	103	103	97
MB 400-279952/4	Method Blank	103	102	98

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	FBP	TBP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(10-120)	(34-120)	(15-135)	(27-120)	(10-120)	(53-125)
400-112445-1	P93C-ROX-101415	59	82	85	91	64	75
400-112445-1	P93C-ROX-101415	47	75	65	74	49	57
400-112445-2	P56-ROX-101415-EB	70	68	100	90	82	107
400-112445-2	P56-ROX-101415-EB	62	81	83	78	61	102
400-112445-3	P56-ROX-101415	55	68	90	70	75	48 X
400-112445-3	P56-ROX-101415	51	70	68	66	59	29 X
LCS 400-279637/2-A	Lab Control Sample	74	90	102	93	84	95
LCS 400-280032/2-A	Lab Control Sample	70	82	89	79	78	92
LCSD 400-279637/3-A	Lab Control Sample Dup	74	95	103	97	79	101
LCSD 400-280032/3-A	Lab Control Sample Dup	71	81	87	76	76	89
MB 400-279637/1-A	Method Blank	56	83	86	87	77	101
MB 400-280032/1-A	Method Blank	54	82	83	80	73	88

Surrogate Legend

2FP = 2-Fluorophenol
FBP = 2-Fluorobiphenyl
TBP = 2,4,6-Tribromophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = Terphenyl-d14

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPH
Lab Sample ID	Client Sample ID	(15-122)	(19-130)	(33-138)
400-112445-1	P93C-ROX-101415	73	78	71
400-112445-2	P56-ROX-101415-EB	64	85	119
400-112445-3	P56-ROX-101415	43	45	30 X

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPH
Lab Sample ID	Client Sample ID	(15-122)	(19-130)	(33-138)
LCS 400-279637/2-A	Lab Control Sample	85	94	88
LCSD 400-279637/3-A	Lab Control Sample Dup	84	92	87
MB 400-279637/1-A	Method Blank	73	79	95

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5
TPH = Terphenyl-d14

Method: 8011 - EDB and DBCP in Water by Microextraction

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

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(51-149)
400-112234-C-14-A MS	Matrix Spike	117
400-112234-C-14-B MSD	Matrix Spike Duplicate	95
400-112445-1	P93C-ROX-101415	88
400-112445-2	P56-ROX-101415-EB	97
400-112445-3	P56-ROX-101415	121
400-112445-4	TB-ROX-101415-SS	92
LCS 400-279801/2-A	Lab Control Sample	108
MB 400-279801/1-A	Method Blank	117

Surrogate Legend

BFB = 4-Bromofluorobenzene

GC/MS VOA

Analysis Batch: 279952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112445-1	P93C-ROX-101415	Total/NA	Water	8260B	
400-112445-2	P56-ROX-101415-EB	Total/NA	Water	8260B	
400-112445-3	P56-ROX-101415	Total/NA	Water	8260B	
400-112445-4	TB-ROX-101415-SS	Total/NA	Water	8260B	
LCS 400-279952/1002	Lab Control Sample	Total/NA	Water	8260B	
MB 400-279952/4	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 279637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112445-1	P93C-ROX-101415	Total/NA	Water	3520C	
400-112445-2	P56-ROX-101415-EB	Total/NA	Water	3520C	
400-112445-3	P56-ROX-101415	Total/NA	Water	3520C	
LCS 400-279637/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-279637/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 400-279637/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 279755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112445-1	P93C-ROX-101415	Total/NA	Water	8270C	279637
400-112445-2	P56-ROX-101415-EB	Total/NA	Water	8270C	279637
400-112445-3	P56-ROX-101415	Total/NA	Water	8270C	279637
LCS 400-279637/2-A	Lab Control Sample	Total/NA	Water	8270C	279637
LCSD 400-279637/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	279637
MB 400-279637/1-A	Method Blank	Total/NA	Water	8270C	279637

Prep Batch: 280032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112445-1	P93C-ROX-101415	Total/NA	Water	3520C	
400-112445-2	P56-ROX-101415-EB	Total/NA	Water	3520C	
400-112445-3	P56-ROX-101415	Total/NA	Water	3520C	
LCS 400-280032/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-280032/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 400-280032/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 280147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112445-1	P93C-ROX-101415	Total/NA	Water	8270C	280032
400-112445-2	P56-ROX-101415-EB	Total/NA	Water	8270C	280032
400-112445-3	P56-ROX-101415	Total/NA	Water	8270C	280032
LCS 400-280032/2-A	Lab Control Sample	Total/NA	Water	8270C	280032
LCSD 400-280032/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	280032
MB 400-280032/1-A	Method Blank	Total/NA	Water	8270C	280032

Analysis Batch: 280298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112445-3	P56-ROX-101415	Total/NA	Water	8270C	279637

GC/MS Semi VOA (Continued)

Analysis Batch: 281055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112445-1	P93C-ROX-101415	Total/NA	Water	8270C LL	279637
400-112445-2	P56-ROX-101415-EB	Total/NA	Water	8270C LL	279637
400-112445-3	P56-ROX-101415	Total/NA	Water	8270C LL	279637
LCS 400-279637/2-A	Lab Control Sample	Total/NA	Water	8270C LL	279637
LCSD 400-279637/3-A	Lab Control Sample Dup	Total/NA	Water	8270C LL	279637
MB 400-279637/1-A	Method Blank	Total/NA	Water	8270C LL	279637

GC Semi VOA

Prep Batch: 279801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112445-1	P93C-ROX-101415	Total/NA	Water	8011	
400-112445-2	P56-ROX-101415-EB	Total/NA	Water	8011	
400-112445-3	P56-ROX-101415	Total/NA	Water	8011	
400-112445-4	TB-ROX-101415-SS	Total/NA	Water	8011	
LCS 400-279801/2-A	Lab Control Sample	Total/NA	Water	8011	
MB 400-279801/1-A	Method Blank	Total/NA	Water	8011	

Analysis Batch: 279999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112445-1	P93C-ROX-101415	Total/NA	Water	8011	279801
400-112445-2	P56-ROX-101415-EB	Total/NA	Water	8011	279801
400-112445-3	P56-ROX-101415	Total/NA	Water	8011	279801
400-112445-4	TB-ROX-101415-SS	Total/NA	Water	8011	279801
LCS 400-279801/2-A	Lab Control Sample	Total/NA	Water	8011	279801
MB 400-279801/1-A	Method Blank	Total/NA	Water	8011	279801

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

Lab Sample ID: MB 400-279952/4
Matrix: Water
Analysis Batch: 279952

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/22/15 08:52	1
Acrolein	ND		20	10	ug/L			10/22/15 08:52	1
Acrylonitrile	ND		10	2.8	ug/L			10/22/15 08:52	1
Benzene	ND		1.0	0.38	ug/L			10/22/15 08:52	1
Bromobenzene	ND		1.0	0.54	ug/L			10/22/15 08:52	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/22/15 08:52	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/22/15 08:52	1
Bromoform	ND		5.0	0.71	ug/L			10/22/15 08:52	1
Bromomethane	ND		1.0	0.98	ug/L			10/22/15 08:52	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/22/15 08:52	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/22/15 08:52	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/22/15 08:52	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/22/15 08:52	1
Chloroethane	ND		1.0	0.76	ug/L			10/22/15 08:52	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/22/15 08:52	1
Chloroform	ND		1.0	0.60	ug/L			10/22/15 08:52	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/22/15 08:52	1
Chloromethane	ND		1.0	0.83	ug/L			10/22/15 08:52	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 08:52	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/15 08:52	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/22/15 08:52	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/22/15 08:52	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/22/15 08:52	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/22/15 08:52	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/22/15 08:52	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/22/15 08:52	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/22/15 08:52	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 08:52	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 08:52	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 08:52	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 08:52	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/22/15 08:52	1
1,4-Dioxane	ND		400	100	ug/L			10/22/15 08:52	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/22/15 08:52	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/22/15 08:52	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/22/15 08:52	1
2-Hexanone	ND		25	3.1	ug/L			10/22/15 08:52	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/22/15 08:52	1
Methylene bromide	ND		5.0	0.59	ug/L			10/22/15 08:52	1
Methylene chloride	ND		5.0	3.0	ug/L			10/22/15 08:52	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/22/15 08:52	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/22/15 08:52	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/22/15 08:52	1
Naphthalene	ND		1.0	1.0	ug/L			10/22/15 08:52	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/22/15 08:52	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/22/15 08:52	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/22/15 08:52	1
o-Xylene	ND		5.0	0.60	ug/L			10/22/15 08:52	1

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

Lab Sample ID: MB 400-279952/4
Matrix: Water
Analysis Batch: 279952

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/22/15 08:52	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/22/15 08:52	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/22/15 08:52	1
Styrene	ND		1.0	1.0	ug/L			10/22/15 08:52	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/22/15 08:52	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/22/15 08:52	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/22/15 08:52	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/22/15 08:52	1
Toluene	ND		1.0	0.70	ug/L			10/22/15 08:52	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 08:52	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/15 08:52	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/22/15 08:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/22/15 08:52	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/22/15 08:52	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/22/15 08:52	1
Trichloroethene	ND		1.0	0.50	ug/L			10/22/15 08:52	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/22/15 08:52	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/22/15 08:52	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/22/15 08:52	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/22/15 08:52	1
Vinyl acetate	ND		25	2.0	ug/L			10/22/15 08:52	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/22/15 08:52	1
Xylenes, Total	ND		10	1.6	ug/L			10/22/15 08:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*78 - 118*		*10/22/15 08:52*	*1*
Dibromofluoromethane	*102*		*81 - 121*		*10/22/15 08:52*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/22/15 08:52*	*1*

Lab Sample ID: LCS 400-279952/1002
Matrix: Water
Analysis Batch: 279952

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	296		ug/L		148	43 - 160
Acrolein	500	489		ug/L		98	38 - 160
Acrylonitrile	500	559		ug/L		112	64 - 142
Benzene	50.0	56.6		ug/L		113	70 - 130
Bromobenzene	50.0	44.9		ug/L		90	70 - 132
Bromochloromethane	50.0	49.5		ug/L		99	70 - 130
Bromodichloromethane	50.0	56.8		ug/L		114	67 - 133
Bromoform	50.0	38.5		ug/L		77	57 - 140
Bromomethane	50.0	71.6		ug/L		143	10 - 160
2-Butanone (MEK)	200	239		ug/L		120	61 - 145
Carbon disulfide	50.0	53.2		ug/L		106	61 - 137
Carbon tetrachloride	50.0	53.0		ug/L		106	61 - 137
Chlorobenzene	50.0	49.0		ug/L		98	70 - 130
Chloroethane	50.0	50.9		ug/L		102	55 - 141

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

Lab Sample ID: LCS 400-279952/1002
Matrix: Water
Analysis Batch: 279952

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloroethyl vinyl ether	50.0	55.2		ug/L		110	10 - 160
Chloroform	50.0	55.8		ug/L		112	69 - 130
1-Chlorohexane	50.0	56.3		ug/L		113	69 - 130
Chloromethane	50.0	44.2		ug/L		88	58 - 137
cis-1,2-Dichloroethene	50.0	57.7		ug/L		115	68 - 130
cis-1,3-Dichloropropene	50.0	56.0		ug/L		112	69 - 132
Dibromochloromethane	50.0	48.5		ug/L		97	67 - 135
1,2-Dichlorobenzene	50.0	47.1		ug/L		94	67 - 130
1,3-Dichlorobenzene	50.0	46.3		ug/L		93	70 - 130
1,4-Dichlorobenzene	50.0	46.7		ug/L		93	70 - 130
Dichlorodifluoromethane	50.0	35.0		ug/L		70	41 - 146
1,1-Dichloroethane	50.0	58.2		ug/L		116	70 - 130
1,2-Dichloroethane	50.0	59.8		ug/L		120	69 - 130
1,1-Dichloroethene	50.0	53.8		ug/L		108	63 - 134
1,2-Dichloropropane	50.0	58.3		ug/L		117	70 - 130
1,3-Dichloropropane	50.0	51.6		ug/L		103	70 - 130
2,2-Dichloropropane	50.0	54.6		ug/L		109	52 - 135
1,1-Dichloropropene	50.0	56.5		ug/L		113	70 - 130
1,4-Dioxane	1000	1040		ug/L		104	50 - 160
Ethylbenzene	50.0	51.6		ug/L		103	70 - 130
Ethyl methacrylate	50.0	48.5		ug/L		97	68 - 130
Hexachlorobutadiene	50.0	45.5		ug/L		91	53 - 140
2-Hexanone	200	224		ug/L		112	65 - 137
Isopropylbenzene	50.0	50.9		ug/L		102	70 - 130
Methylene bromide	50.0	56.1		ug/L		112	70 - 130
Methylene chloride	50.0	56.7		ug/L		113	66 - 135
4-Methyl-2-pentanone (MIBK)	200	227		ug/L		114	69 - 138
Methyl tert-butyl ether	50.0	57.9		ug/L		116	66 - 130
m-Xylene & p-Xylene	50.0	50.1		ug/L		100	70 - 130
Naphthalene	50.0	43.9		ug/L		88	47 - 149
n-Butylbenzene	50.0	54.4		ug/L		109	67 - 130
N-Propylbenzene	50.0	51.9		ug/L		104	70 - 130
o-Chlorotoluene	50.0	50.6		ug/L		101	70 - 130
o-Xylene	50.0	51.7		ug/L		103	70 - 130
p-Chlorotoluene	50.0	51.5		ug/L		103	70 - 130
p-Isopropyltoluene	50.0	50.0		ug/L		100	65 - 130
sec-Butylbenzene	50.0	51.0		ug/L		102	66 - 130
Styrene	50.0	50.0		ug/L		100	70 - 130
tert-Butylbenzene	50.0	49.1		ug/L		98	64 - 139
1,1,1,2-Tetrachloroethane	50.0	47.6		ug/L		95	67 - 131
1,1,2,2-Tetrachloroethane	50.0	50.1		ug/L		100	70 - 131
Tetrachloroethene	50.0	43.4		ug/L		87	65 - 130
Toluene	50.0	50.3		ug/L		101	70 - 130
trans-1,2-Dichloroethene	50.0	54.0		ug/L		108	70 - 130
trans-1,3-Dichloropropene	50.0	51.3		ug/L		103	63 - 130
1,2,3-Trichlorobenzene	50.0	42.0		ug/L		84	60 - 138
1,2,4-Trichlorobenzene	50.0	44.5		ug/L		89	60 - 140
1,1,1-Trichloroethane	50.0	53.0		ug/L		106	68 - 130

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

Lab Sample ID: LCS 400-279952/1002
Matrix: Water
Analysis Batch: 279952

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	50.0	51.4		ug/L		103	70 - 130
Trichloroethene	50.0	50.7		ug/L		101	70 - 130
Trichlorofluoromethane	50.0	49.4		ug/L		99	65 - 138
1,2,3-Trichloropropane	50.0	46.0		ug/L		92	70 - 130
1,2,4-Trimethylbenzene	50.0	50.1		ug/L		100	70 - 130
1,3,5-Trimethylbenzene	50.0	50.0		ug/L		100	69 - 130
Vinyl acetate	100	94.0		ug/L		94	26 - 160
Vinyl chloride	50.0	46.5		ug/L		93	59 - 136
Xylenes, Total	100	102		ug/L		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*78 - 118*
Dibromofluoromethane	*103*		*81 - 121*
Toluene-d8 (Surr)	*97*		*80 - 120*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-279637/1-A
Matrix: Water
Analysis Batch: 279755

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/20/15 11:18	10/21/15 15:08	1
Benzenethiol	ND		10	1.7	ug/L		10/20/15 11:18	10/21/15 15:08	1
Benzoic acid	ND		30	7.3	ug/L		10/20/15 11:18	10/21/15 15:08	1
Benzyl alcohol	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/20/15 11:18	10/21/15 15:08	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/20/15 11:18	10/21/15 15:08	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/20/15 11:18	10/21/15 15:08	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/20/15 11:18	10/21/15 15:08	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/20/15 11:18	10/21/15 15:08	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/20/15 11:18	10/21/15 15:08	1
4-Chloroaniline	ND		10	3.4	ug/L		10/20/15 11:18	10/21/15 15:08	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/20/15 11:18	10/21/15 15:08	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/20/15 11:18	10/21/15 15:08	1
2-Chlorophenol	ND		10	2.2	ug/L		10/20/15 11:18	10/21/15 15:08	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
Dibenzofuran	ND		10	0.52	ug/L		10/20/15 11:18	10/21/15 15:08	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/20/15 11:18	10/21/15 15:08	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
Diethyl phthalate	ND		10	0.70	ug/L		10/20/15 11:18	10/21/15 15:08	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 15:08	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/20/15 11:18	10/21/15 15:08	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/20/15 11:18	10/21/15 15:08	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/20/15 11:18	10/21/15 15:08	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/20/15 11:18	10/21/15 15:08	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-279637/1-A
Matrix: Water
Analysis Batch: 279755

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/20/15 11:18	10/21/15 15:08	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/20/15 11:18	10/21/15 15:08	1
1,4-Dioxane	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/20/15 11:18	10/21/15 15:08	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/20/15 11:18	10/21/15 15:08	1
Hexachloroethane	ND		10	4.2	ug/L		10/20/15 11:18	10/21/15 15:08	1
Indene	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
Isophorone	ND		10	0.57	ug/L		10/20/15 11:18	10/21/15 15:08	1
2-Methylphenol	ND		10	1.8	ug/L		10/20/15 11:18	10/21/15 15:08	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
2-Nitroaniline	ND		10	2.2	ug/L		10/20/15 11:18	10/21/15 15:08	1
3-Nitroaniline	ND		10	1.8	ug/L		10/20/15 11:18	10/21/15 15:08	1
4-Nitroaniline	ND		10	2.5	ug/L		10/20/15 11:18	10/21/15 15:08	1
Nitrobenzene	ND		10	0.55	ug/L		10/20/15 11:18	10/21/15 15:08	1
2-Nitrophenol	ND		10	0.65	ug/L		10/20/15 11:18	10/21/15 15:08	1
4-Nitrophenol	ND		10	2.1	ug/L		10/20/15 11:18	10/21/15 15:08	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 15:08	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/20/15 11:18	10/21/15 15:08	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/20/15 11:18	10/21/15 15:08	1
Pentachlorophenol	ND		20	1.8	ug/L		10/20/15 11:18	10/21/15 15:08	1
Phenol	ND		10	2.6	ug/L		10/20/15 11:18	10/21/15 15:08	1
Pyridine	ND		10	3.2	ug/L		10/20/15 11:18	10/21/15 15:08	1
Quinoline	ND		10	6.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/20/15 11:18	10/21/15 15:08	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 15:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*56*		*10 - 120*	*10/20/15 11:18*	*10/21/15 15:08*	*1*
2-Fluorobiphenyl	*83*		*34 - 120*	*10/20/15 11:18*	*10/21/15 15:08*	*1*
2,4,6-Tribromophenol	*86*		*15 - 135*	*10/20/15 11:18*	*10/21/15 15:08*	*1*
Nitrobenzene-d5	*87*		*27 - 120*	*10/20/15 11:18*	*10/21/15 15:08*	*1*
Phenol-d5	*77*		*10 - 120*	*10/20/15 11:18*	*10/21/15 15:08*	*1*
Terphenyl-d14	*101*		*53 - 125*	*10/20/15 11:18*	*10/21/15 15:08*	*1*

Lab Sample ID: LCS 400-279637/2-A
Matrix: Water
Analysis Batch: 279755

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	30.0	9.55	J	ug/L		32	10 - 145
Benzoic acid	126	94.5		ug/L		75	10 - 120
Benzyl alcohol	30.0	24.5		ug/L		82	51 - 121
Bis(2-chloroethoxy)methane	30.0	24.7		ug/L		82	54 - 123
Bis(2-chloroethyl)ether	30.0	21.1		ug/L		70	47 - 120
bis (2-chloroisopropyl) ether	30.0	25.7		ug/L		86	20 - 142
Bis(2-ethylhexyl) phthalate	30.0	25.3		ug/L		84	62 - 140

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-279637/2-A
Matrix: Water
Analysis Batch: 279755

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Bromophenyl phenyl ether	30.0	25.5		ug/L		85	62 - 132
Butyl benzyl phthalate	30.0	25.9		ug/L		86	51 - 150
4-Chloroaniline	30.0	4.96	J *	ug/L		17	32 - 128
4-Chloro-3-methylphenol	30.0	28.6		ug/L		95	47 - 135
2-Chloronaphthalene	30.0	25.0		ug/L		83	24 - 150
2-Chlorophenol	30.0	23.8		ug/L		79	45 - 120
4-Chlorophenyl phenyl ether	30.0	26.2		ug/L		87	61 - 133
Dibenzofuran	30.0	25.7		ug/L		86	62 - 124
3,3'-Dichlorobenzidine	30.0	ND	*	ug/L		0	16 - 167
2,4-Dichlorophenol	30.0	26.3		ug/L		88	52 - 125
Diethyl phthalate	30.0	27.3		ug/L		91	55 - 140
2,4-Dimethylphenol	30.0	26.4		ug/L		88	52 - 121
Dimethyl phthalate	30.0	26.1		ug/L		87	50 - 133
Di-n-butyl phthalate	30.0	26.3		ug/L		88	59 - 144
4,6-Dinitro-o-cresol	60.0	53.3		ug/L		89	46 - 136
2,4-Dinitrophenol	86.0	81.1		ug/L		94	22 - 146
2,4-Dinitrotoluene	30.0	28.4		ug/L		95	54 - 141
2,6-Dinitrotoluene	30.0	26.9		ug/L		90	61 - 130
Di-n-octyl phthalate	30.0	26.7		ug/L		89	55 - 140
1,4-Dioxane	30.0	20.6		ug/L		69	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	30.0	24.9		ug/L		83	55 - 139
Hexachlorobenzene	30.0	25.1		ug/L		84	60 - 138
Hexachlorocyclopentadiene	30.0	12.7	J	ug/L		42	1 - 139
Hexachloroethane	30.0	24.2		ug/L		81	46 - 121
Indene	30.0	23.2		ug/L		77	17 - 141
Isophorone	30.0	26.3		ug/L		88	57 - 122
2-Methylphenol	30.0	26.8		ug/L		89	38 - 121
3 & 4 Methylphenol	30.0	25.3		ug/L		84	43 - 126
2-Nitroaniline	30.0	29.1		ug/L		97	52 - 135
3-Nitroaniline	30.0	11.2	*	ug/L		37	51 - 128
4-Nitroaniline	30.0	14.3		ug/L		48	38 - 141
Nitrobenzene	30.0	26.0		ug/L		87	52 - 128
2-Nitrophenol	30.0	25.4		ug/L		85	47 - 129
4-Nitrophenol	60.0	55.0		ug/L		92	34 - 137
N-Nitrosodimethylamine	30.0	24.6		ug/L		82	21 - 134
N-Nitrosodi-n-propylamine	30.0	26.8		ug/L		89	41 - 143
N-Nitrosodiphenylamine	60.0	40.6		ug/L		68	10 - 185
Pentachlorophenol	60.0	52.9		ug/L		88	38 - 138
Phenol	30.0	22.8		ug/L		76	37 - 120
Pyridine	30.0	3.40	J	ug/L		11	10 - 127
2,4,5-Trichlorophenol	30.0	28.5		ug/L		95	53 - 130
2,4,6-Trichlorophenol	30.0	26.9		ug/L		90	52 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol	*74*		*10 - 120*
2-Fluorobiphenyl	*90*		*34 - 120*
2,4,6-Tribromophenol	*102*		*15 - 135*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-279637/2-A
Matrix: Water
Analysis Batch: 279755

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279637

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	93		27 - 120
Phenol-d5	84		10 - 120
Terphenyl-d14	95		53 - 125

Lab Sample ID: LCSD 400-279637/3-A
Matrix: Water
Analysis Batch: 279755

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 279637

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	30.0	4.59	J *	ug/L		15	10 - 145	70	30
Benzoic acid	126	88.3		ug/L		70	10 - 120	7	30
Benzyl alcohol	30.0	24.4		ug/L		81	51 - 121	1	30
Bis(2-chloroethoxy)methane	30.0	25.7		ug/L		86	54 - 123	4	30
Bis(2-chloroethyl)ether	30.0	21.9		ug/L		73	47 - 120	4	30
bis (2-chloroisopropyl) ether	30.0	27.1		ug/L		90	20 - 142	6	30
Bis(2-ethylhexyl) phthalate	30.0	27.2		ug/L		91	62 - 140	7	30
4-Bromophenyl phenyl ether	30.0	27.8		ug/L		93	62 - 132	9	30
Butyl benzyl phthalate	30.0	27.8		ug/L		93	51 - 150	7	30
4-Chloroaniline	30.0	ND	*	ug/L		10	32 - 128	53	30
4-Chloro-3-methylphenol	30.0	29.1		ug/L		97	47 - 135	2	30
2-Chloronaphthalene	30.0	26.6		ug/L		89	24 - 150	6	30
2-Chlorophenol	30.0	24.5		ug/L		82	45 - 120	3	30
4-Chlorophenyl phenyl ether	30.0	27.7		ug/L		92	61 - 133	6	30
Dibenzofuran	30.0	27.4		ug/L		91	62 - 124	6	30
3,3'-Dichlorobenzidine	30.0	ND	*	ug/L		-0.4	16 - 167	200	30
2,4-Dichlorophenol	30.0	26.9		ug/L		90	52 - 125	2	30
Diethyl phthalate	30.0	28.6		ug/L		95	55 - 140	5	30
2,4-Dimethylphenol	30.0	27.3		ug/L		91	52 - 121	3	30
Dimethyl phthalate	30.0	27.2		ug/L		91	50 - 133	4	30
Di-n-butyl phthalate	30.0	28.1		ug/L		94	59 - 144	6	30
4,6-Dinitro-o-cresol	60.0	55.1		ug/L		92	46 - 136	3	30
2,4-Dinitrophenol	86.0	81.2		ug/L		94	22 - 146	0	30
2,4-Dinitrotoluene	30.0	29.9		ug/L		100	54 - 141	5	30
2,6-Dinitrotoluene	30.0	28.7		ug/L		96	61 - 130	6	30
Di-n-octyl phthalate	30.0	28.5		ug/L		95	55 - 140	7	30
1,4-Dioxane	30.0	20.7		ug/L		69	10 - 130	1	30
1,2-Diphenylhydrazine (as Azobenzene)	30.0	26.9		ug/L		90	55 - 139	8	30
Hexachlorobenzene	30.0	27.2		ug/L		91	60 - 138	8	30
Hexachlorocyclopentadiene	30.0	12.6	J	ug/L		42	1 - 139	0	30
Hexachloroethane	30.0	25.6		ug/L		85	46 - 121	5	30
Indene	30.0	24.3		ug/L		81	17 - 141	5	30
Isophorone	30.0	27.9		ug/L		93	57 - 122	6	30
2-Methylphenol	30.0	27.4		ug/L		91	38 - 121	2	30
3 & 4 Methylphenol	30.0	24.8		ug/L		83	43 - 126	2	30
2-Nitroaniline	30.0	30.3		ug/L		101	52 - 135	4	30
3-Nitroaniline	30.0	11.1	*	ug/L		37	51 - 128	0	30
4-Nitroaniline	30.0	14.2		ug/L		47	38 - 141	1	30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-279637/3-A
Matrix: Water
Analysis Batch: 279755

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 279637

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrobenzene	30.0	27.3		ug/L		91	52 - 128	5	30
2-Nitrophenol	30.0	26.2		ug/L		87	47 - 129	3	30
4-Nitrophenol	60.0	48.9		ug/L		82	34 - 137	12	30
N-Nitrosodimethylamine	30.0	23.8		ug/L		79	21 - 134	3	30
N-Nitrosodi-n-propylamine	30.0	28.5		ug/L		95	41 - 143	6	30
N-Nitrosodiphenylamine	60.0	43.8		ug/L		73	10 - 185	8	30
Pentachlorophenol	60.0	55.3		ug/L		92	38 - 138	4	30
Phenol	30.0	22.2		ug/L		74	37 - 120	3	30
Pyridine	30.0	ND	*	ug/L		7	10 - 127	53	30
2,4,5-Trichlorophenol	30.0	29.5		ug/L		98	53 - 130	3	30
2,4,6-Trichlorophenol	30.0	28.0		ug/L		93	52 - 131	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorophenol	*74*		*10 - 120*
2-Fluorobiphenyl	*95*		*34 - 120*
2,4,6-Tribromophenol	*103*		*15 - 135*
Nitrobenzene-d5	*97*		*27 - 120*
Phenol-d5	*79*		*10 - 120*
Terphenyl-d14	*101*		*53 - 125*

Lab Sample ID: MB 400-280032/1-A
Matrix: Water
Analysis Batch: 280147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 280032

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/22/15 10:55	10/23/15 15:54	1
4-Chloroaniline	ND		10	3.4	ug/L		10/22/15 10:55	10/23/15 15:54	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/22/15 10:55	10/23/15 15:54	1
3-Nitroaniline	ND		10	1.8	ug/L		10/22/15 10:55	10/23/15 15:54	1
Pyridine	ND		10	3.2	ug/L		10/22/15 10:55	10/23/15 15:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*54*		*10 - 120*	*10/22/15 10:55*	*10/23/15 15:54*	*1*
2-Fluorobiphenyl	*82*		*34 - 120*	*10/22/15 10:55*	*10/23/15 15:54*	*1*
2,4,6-Tribromophenol	*83*		*15 - 135*	*10/22/15 10:55*	*10/23/15 15:54*	*1*
Nitrobenzene-d5	*80*		*27 - 120*	*10/22/15 10:55*	*10/23/15 15:54*	*1*
Phenol-d5	*73*		*10 - 120*	*10/22/15 10:55*	*10/23/15 15:54*	*1*
Terphenyl-d14	*88*		*53 - 125*	*10/22/15 10:55*	*10/23/15 15:54*	*1*

Lab Sample ID: LCS 400-280032/2-A
Matrix: Water
Analysis Batch: 280147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280032

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	25.0	20.0		ug/L		80	10 - 145
4-Chloroaniline	25.0	19.1		ug/L		77	32 - 128
3,3'-Dichlorobenzidine	25.0	22.1		ug/L		88	16 - 167
3-Nitroaniline	25.0	20.5		ug/L		82	51 - 128

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-280032/2-A
Matrix: Water
Analysis Batch: 280147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280032

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pyridine	25.0	15.6		ug/L		63	10 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol	*70*		*10 - 120*
2-Fluorobiphenyl	*82*		*34 - 120*
2,4,6-Tribromophenol	*89*		*15 - 135*
Nitrobenzene-d5	*79*		*27 - 120*
Phenol-d5	*78*		*10 - 120*
Terphenyl-d14	*92*		*53 - 125*

Lab Sample ID: LCSD 400-280032/3-A
Matrix: Water
Analysis Batch: 280147

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 280032

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	25.0	19.9		ug/L		80	10 - 145	1	30
4-Chloroaniline	25.0	18.7		ug/L		75	32 - 128	2	30
3,3'-Dichlorobenzidine	25.0	22.5		ug/L		90	16 - 167	2	30
3-Nitroaniline	25.0	20.3		ug/L		81	51 - 128	1	30
Pyridine	25.0	15.5		ug/L		62	10 - 127	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorophenol	*71*		*10 - 120*
2-Fluorobiphenyl	*81*		*34 - 120*
2,4,6-Tribromophenol	*87*		*15 - 135*
Nitrobenzene-d5	*76*		*27 - 120*
Phenol-d5	*76*		*10 - 120*
Terphenyl-d14	*89*		*53 - 125*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 400-279637/1-A
Matrix: Water
Analysis Batch: 281055

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 11:52	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 11:52	1
Anthracene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 11:52	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 11:52	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 11:52	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 11:52	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 11:52	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 11:52	1
Chrysene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 11:52	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 11:52	1
Fluoranthene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 11:52	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 400-279637/1-A
Matrix: Water
Analysis Batch: 281055

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	ND		0.20	0.021	ug/L		10/20/15 11:18	10/29/15 11:52	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 11:52	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 11:52	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 11:52	1
Phenanthrene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 11:52	1
Pyrene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 11:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*15 - 122*	*10/20/15 11:18*	*10/29/15 11:52*	*1*
Nitrobenzene-d5	*79*		*19 - 130*	*10/20/15 11:18*	*10/29/15 11:52*	*1*
Terphenyl-d14	*95*		*33 - 138*	*10/20/15 11:18*	*10/29/15 11:52*	*1*

Lab Sample ID: LCS 400-279637/2-A
Matrix: Water
Analysis Batch: 281055

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	30.0	23.4		ug/L		78	41 - 120
Acenaphthylene	30.0	24.1		ug/L		80	44 - 120
Anthracene	30.0	23.3		ug/L		78	49 - 120
Benzo[a]anthracene	30.0	24.1		ug/L		80	61 - 135
Benzo[a]pyrene	30.0	19.4		ug/L		65	52 - 120
Benzo[b]fluoranthene	30.0	18.3		ug/L		61	53 - 134
Benzo[g,h,i]perylene	30.0	19.9		ug/L		66	47 - 133
Benzo[k]fluoranthene	30.0	20.1		ug/L		67	57 - 134
Chrysene	30.0	23.5		ug/L		78	55 - 122
Dibenz(a,h)anthracene	30.0	20.7		ug/L		69	48 - 146
Fluoranthene	30.0	23.7		ug/L		79	54 - 128
Fluorene	30.0	23.9		ug/L		80	45 - 125
Indeno[1,2,3-cd]pyrene	30.0	22.0		ug/L		73	43 - 142
1-Methylnaphthalene	30.0	23.2		ug/L		77	41 - 120
2-Methylnaphthalene	30.0	23.5		ug/L		78	32 - 124
Phenanthrene	30.0	23.4		ug/L		78	48 - 120
Pyrene	30.0	24.3		ug/L		81	48 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*85*		*15 - 122*
Nitrobenzene-d5	*94*		*19 - 130*
Terphenyl-d14	*88*		*33 - 138*

Lab Sample ID: LCSD 400-279637/3-A
Matrix: Water
Analysis Batch: 281055

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 279637

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	30.0	25.4		ug/L		85	41 - 120	8	56
Acenaphthylene	30.0	26.0		ug/L		87	44 - 120	8	56
Anthracene	30.0	25.3		ug/L		84	49 - 120	8	51

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCSD 400-279637/3-A
Matrix: Water
Analysis Batch: 281055

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 279637

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[a]anthracene	30.0	25.8		ug/L		86	61 - 135	7	49
Benzo[a]pyrene	30.0	21.1		ug/L		70	52 - 120	8	50
Benzo[b]fluoranthene	30.0	20.1		ug/L		67	53 - 134	10	54
Benzo[g,h,i]perylene	30.0	21.6		ug/L		72	47 - 133	8	50
Benzo[k]fluoranthene	30.0	22.4		ug/L		75	57 - 134	11	52
Chrysene	30.0	25.4		ug/L		85	55 - 122	8	50
Dibenz(a,h)anthracene	30.0	22.6		ug/L		75	48 - 146	9	50
Fluoranthene	30.0	25.3		ug/L		84	54 - 128	7	52
Fluorene	30.0	25.8		ug/L		86	45 - 125	7	56
Indeno[1,2,3-cd]pyrene	30.0	24.1		ug/L		80	43 - 142	9	51
1-Methylnaphthalene	30.0	25.1		ug/L		84	41 - 120	8	55
2-Methylnaphthalene	30.0	25.5		ug/L		85	32 - 124	8	57
Phenanthrene	30.0	25.4		ug/L		85	48 - 120	8	56
Pyrene	30.0	26.1		ug/L		87	48 - 132	7	52

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*84*		*15 - 122*
Nitrobenzene-d5	*92*		*19 - 130*
Terphenyl-d14	*87*		*33 - 138*

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-279801/1-A
Matrix: Water
Analysis Batch: 279999

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279801

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/21/15 08:51	10/22/15 18:50	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/21/15 08:51	10/22/15 18:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*117*		*51 - 149*	*10/21/15 08:51*	*10/22/15 18:50*	*1*

Lab Sample ID: LCS 400-279801/2-A
Matrix: Water
Analysis Batch: 279999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279801

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.100	0.102		ug/L		102	60 - 140
1,2-Dibromoethane	0.100	0.103		ug/L		103	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*108*		*51 - 149*

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112445-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: P93C-ROX-101415

Date Collected: 10/14/15 11:50
Date Received: 10/15/15 09:57

Lab Sample ID: 400-112445-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279952	10/22/15 13:57	S1S	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	279755	10/21/15 18:19	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280147	10/23/15 21:06	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	281055	10/29/15 20:01	CEP	TAL PEN
Total/NA	Prep	8011			36.2 mL	35 mL	279801	10/21/15 08:51	AM	TAL PEN
Total/NA	Analysis	8011		1	36.2 mL	35 mL	279999	10/23/15 01:46	AM	TAL PEN

Client Sample ID: P56-ROX-101415-EB

Date Collected: 10/14/15 12:15
Date Received: 10/15/15 09:57

Lab Sample ID: 400-112445-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279952	10/22/15 14:19	S1S	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	279755	10/21/15 18:57	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280147	10/23/15 21:45	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	281055	10/29/15 20:38	CEP	TAL PEN
Total/NA	Prep	8011			37.9 mL	35 mL	279801	10/21/15 08:51	AM	TAL PEN
Total/NA	Analysis	8011		1	37.9 mL	35 mL	279999	10/23/15 02:16	AM	TAL PEN

Client Sample ID: P56-ROX-101415

Date Collected: 10/14/15 13:00
Date Received: 10/15/15 09:57

Lab Sample ID: 400-112445-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279952	10/22/15 14:40	S1S	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	279755	10/21/15 19:35	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C		5	1000 mL	1 mL	280298	10/26/15 17:47	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280147	10/23/15 22:24	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	281055	10/29/15 21:16	CEP	TAL PEN
Total/NA	Prep	8011			34.1 mL	35 mL	279801	10/21/15 08:51	AM	TAL PEN
Total/NA	Analysis	8011		1	34.1 mL	35 mL	279999	10/23/15 02:45	AM	TAL PEN

Client Sample ID: TB-ROX-101415-SS

Lab Sample ID: 400-112445-4

Date Collected: 10/14/15 00:00
Matrix: Water
Date Received: 10/15/15 09:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279952	10/22/15 15:02	S1S	TAL PEN
Total/NA	Prep	8011			33.9 mL	35 mL	279801	10/21/15 08:51	AM	TAL PEN
Total/NA	Analysis	8011		1	33.9 mL	35 mL	279999	10/23/15 03:14	AM	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-279637/2-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	279755	10/21/15 15:46	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C LL		5	1000 mL	1 mL	281055	10/29/15 12:30	CEP	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-279801/2-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	279801	10/21/15 08:51	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	279999	10/22/15 19:19	AM	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-279952/1002

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279952	10/22/15 08:08	S1S	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-280032/2-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280147	10/23/15 16:33	AJR	TAL PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-279637/3-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	279755	10/21/15 16:25	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C LL		5	1000 mL	1 mL	281055	10/29/15 13:07	CEP	TAL PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-280032/3-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280147	10/23/15 17:12	AJR	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-279637/1-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	279755	10/21/15 15:08	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	281055	10/29/15 11:52	CEP	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-279801/1-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	279801	10/21/15 08:51	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	279999	10/22/15 18:50	AM	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-279952/4

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	279952	10/22/15 08:52	S1S	TAL PEN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112445-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: Method Blank

Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-280032/1-A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280147	10/23/15 15:54	AJR	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112445-1
SDG: Proj. 60400249-21563720.03004

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL PEN
8011	EDB and DBCP in Water by Microextraction	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112445-1
SDG: Proj. 60400249-21563720.03004

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	08-31-15 *
Arizona	State Program	9	AZ0710	01-11-16
Arkansas DEQ	State Program	6	88-0689	09-01-16
Florida	NELAP	4	E81010	06-30-16
Georgia	State Program	4	N/A	06-30-16
Iowa	State Program	7	367	07-31-16
Kansas	NELAP	7	E-10253	10-31-15
Kentucky (UST)	State Program	4	53	06-30-16
Kentucky (WW)	State Program	4	98030	12-31-15
Louisiana	NELAP	6	30976	06-30-16
Maryland	State Program	3	233	09-30-16
Massachusetts	State Program	1	M-FL094	06-30-16
Michigan	State Program	5	9912	06-30-16
New Jersey	NELAP	2	FL006	10-30-15
North Carolina (WW/SW)	State Program	4	314	12-31-15
Oklahoma	State Program	6	9810	08-31-16
Pennsylvania	NELAP	3	68-00467	01-31-16
Rhode Island	State Program	1	LAO00307	12-30-15
South Carolina	State Program	4	96026	06-30-15 *
Tennessee	State Program	4	TN02907	06-30-16
Texas	NELAP	6	T104704286-15-9	09-30-16
USDA	Federal		P330-13-00193	07-01-16
Virginia	NELAP	3	460166	06-14-16
West Virginia DEP	State Program	3	136	06-30-16

* Certification renewal pending - certification considered valid.

Shell Oil Products Chain Of Custody Record

AECOM

LAB (LOCATION)

☐ XENCO (_____)
☐ CALSCIENCE (_____)
TestAmerica Pensacola; 3355 McLemore Dr.
☑ OTHER (Pensacola, FL 32514 (850-474-1001))
Lab Vendor # (_____)
☐ SPL (_____)

Lab Vendor #

Please Check Appropriate Box:

☑ ENV. SERVICES	☐ MOTIVA RETAIL	☐ SHELL RETAIL
☐ MOTIVA SD&CM	☐ CONSULTANT	☐ LUBES
☐ SHELL PIPELINE	☐ OTHER _____	

Print Bill To Contact Name: Bob Billman

INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 10-14-15

PAGE: 1 of 1

PO. #: 60400249-21563720.03004

SAP #: 3 4 0 0 6 1

SAMPLING COMPANY: AECOM

LOG CODE:

SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA.

State: IL

GLOBAL ID NO.:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110

EDF DELIVERABLE TO (Name, Company, Office Location):

PHONE NO.:

E-MAIL:

CONSULTANT PROJECT NO.: Roxana Quarterly GW / 60400249-21563720.03004

PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow

SAMPLER NAME(S) (Print): Sfisher / DHaxel

LAB USE ONLY

TELEPHONE: 314-429-0100

FAX: 314-429-0462

Bill To Contact E-MAIL: bob.billman@aecom.com; elizabeth.kunkel@aecom.com; lindsay.rathnow@aecom.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:
* Please include "J" values on Reports.
* Please provide sample receipt upon login.

* Split Report

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

400-112445 COC

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260	VOC 8011	SVOC 8270	PAH 8270LL	Comments
	P93C-ROX-101415	10/14/15	1150	water	X			3		7	X	X	X	X	
	P56-ROX-101415-EB	"	1215	"	X			3		7	X	X	X	X	
	P56-ROX-101415	"	1300	"	X			3		7	X	X	X	X	
	TB-ROX-101415-SS	↓	0000	↓	X						X	X			

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Comments

Relinquished by: (Signature)	Received by: (Signature) FED EX # 8092 2040 9645	Date: 10-14-15	Time: 1700
Relinquished by: (Signature)	Received by: (Signature) SCAMES / TA 2.9°C / 1.2°C IR-6	Date: 10-15-15	Time: 0957
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2006 Revision

Page 42 of 43

10/31/2015

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 400-112445-1
SDG Number: Proj. 60400249-21563720.03004

Login Number: 112445
List Number: 1
Creator: Crawford, Lauren E

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.9°C, 1.2°C IR-6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Roxana Groundwater Quarterly – 4th Quarter 2015 Data Review

Laboratory SDG: 400-112522

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 12/7/2015

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2014

Sample Identification	Sample Identification
TB-ROX-101515-8260-SS	TB-ROX-101515-8011-SS
T12-ROX-101515	P59-ROX-101515
P93B-ROX-101515	P93D-ROX-101515
P93A-ROX-101515	P93A-ROX-101515-Dup

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated that SVOC re-analysis of samples P93B-ROX-101515 and T12-ROX-101515 was performed outside of hold time. VOC LCS recoveries, and SVOC LCS/LCSD recoveries and SVOC LCS/LCSD RPDs for several analytes were outside evaluation criteria. Several Method 8270 SVOCs surrogate recoveries were outside criteria in several samples. The Method 8270 PAH internal standard area recovery for acenaphthene-d_{10} was outside evaluation criteria in sample P59-ROX-101515. Method 8260 VOCs in samples were diluted due to high levels of target analytes, and phenol in sample P93B-ROX-101515 required minimal dilution to bring the concentration within instrument calibration range. These issues are addressed further in the appropriate sections below.

Additionally, the initial calibration verification for bromomethane, and the initial and continuing calibration verification for dichlorodifluoromethane exceeded evaluation criteria. Also, the continuing calibration verification for fluoranthene and fluorine exceeded evaluation criteria. Three of 69 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds, results may be biased low due to the presence of HCl in the preservative.

The cooler receipt form indicated that one of three coolers was received by the laboratory at a temperature of 1.9°C, which is outside the 4ºC ± 2ºC criteria. Samples were received in good condition; therefore, no qualification of data was required. The cooler receipt form indicated insufficient sample volume was received for MS/MSD analysis, however MS/MSD analysis was not requested; no qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

No, re-extraction of SVOCs aniline, 4-chloroaniline, 3,3'-dichlorobenzidine, 3-nitroaniline, and pyridine in samples P93B-ROX-101515 and T12-ROX-101515, was performed up to approximately 45 minutes outside of hold time for extraction (7 days) due to quality control spiking problems in the associated extraction batch. Target analytes were non-detect and, therefore, reported using the initial run extracted and analyzed within holding time criteria. SVOCs in the initial run were appropriately qualified due to LCS recovery (see Section 5.0). No qualification of data based on hold time was required.

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS/LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD /RPD Criteria
LCS 400-280082/1002	VOCs	Bromodichloromethane	**138**	NA	67-133
LCS 400-280082/1002	VOCs	Carbon tetrachloride	**143**	NA	61-137
LCS 400-280082/1002	VOCs	1,1,1-Trichloroethane	**136**	NA	68-130
LCS 400-280323/1002	VOCs	Dichlorodifluoromethane	**191**	NA	41-146
LCS/LCSD 400-279637/2-A/3-A	SVOCs	Aniline	32/15	**70**	10-145/30
LCS/LCSD 400-279637/2-A/3-A	SVOCs	4-Chloroaniline	**17/10**	**53**	32-128/30
LCS/LCSD 400-279637/2-A/3-A	SVOCs	3,3'-Dichlorobenzidine	**0/-0.4**	**200**	16-167/30
LCS/LCSD 400-279637/2-A/3-A	SVOCs	3-Nitroaniline	**37/37**	0	51-128/30
LCS/LCSD 400-279637/2-A/3-A	SVOCs	Pyridine	11/**7**	**53**	10-127/30

Analytical data that required qualification based on LCS data are included in the table below. Analytical data reported as non-detect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. Analytical data associated with LCS/LCSD RPDs above evaluation criteria did not require qualification; LCS/LCSD recoveries were within evaluation criteria.

Sample ID	Parameter	Analyte	Qualification
T12-ROX-101515 Run #1	SVOCs	4-Chloroaniline	**UJ**
T12-ROX-101515 Run #1	SVOCs	3,3'-Dichlorobenzidine	**UJ**

Sample ID	Parameter	Analyte	Qualification
T12-ROX-101515 Run #1	SVOCs	3-Nitroaniline	**UJ**
T12-ROX-101515 Run #1	SVOCs	Pyridine	**UJ**
P59-ROX-101515 Run #1	SVOCs	4-Chloroaniline	**UJ**
P59-ROX-101515 Run #1	SVOCs	3,3'-Dichlorobenzidine	**UJ**
P59-ROX-101515 Run #1	SVOCs	3-Nitroaniline	**UJ**
P59-ROX-101515 Run #1	SVOCs	Pyridine	**UJ**
P93B-ROX-101515 Run #1	SVOCs	4-Chloroaniline	**UJ**
P93B-ROX-101515 Run #1	SVOCs	3,3'-Dichlorobenzidine	**UJ**
P93B-ROX-101515 Run #1	SVOCs	3-Nitroaniline	**UJ**
P93B-ROX-101515 Run #1	SVOCs	Pyridine	**UJ**

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Sample ID	Parameter	Surrogate	Recovery (%)	Criteria (%)
T12-ROX-101515 Run #2	SVOCs	Terphenyl-d_{14}	**52**	53-125
P59-ROX-101515 Run #1	SVOCs	2-Fluorophenol	**0**	10-120
P59-ROX-101515 Run #1	SVOCs	Phenol-d_5	**0**	10-120
P59-ROX-101515 Run #2	SVOCs	Terphenyl-d_{14}	**34**	53-125
P93B-ROX-101515 Run #2	SVOCs	Terphenyl-d_{14}	**42**	53-125
P93A-ROX-101515 Run #2	SVOCs	Terphenyl-d_{14}	**46**	53-125

Qualifications due to surrogate recoveries were not required due to only one of six SVOC surrogate recoveries being outside evaluation criteria in the confirmation run of samples T12-ROX-101515 and P59-ROX-101515. The initial run of sample P59-ROX-101515 was not used due to two of six surrogate recoveries outside evaluation criteria. The confirmation run of samples P93B-ROX-101515 and P93A-ROX-101515 was not used due to initial extraction performed within holding time criteria. No qualification of data was required.

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

No

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

No

Sample ID	Parameter	Analyte	IS Area Recovery	IS Criteria
P59-ROX-101515	PAHs	Acenaphthene-d_{10}	**8575273**	416906-1667624

Analytical data reported as non-detect and associated with internal standard recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. No qualification of data was required.

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples analyzed as part of this SDG?

No

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
P93A-ROX-101515	P93A-ROX-101515-Dup

Were field duplicates within evaluation criteria?

Yes

11.0 Sample Dilutions

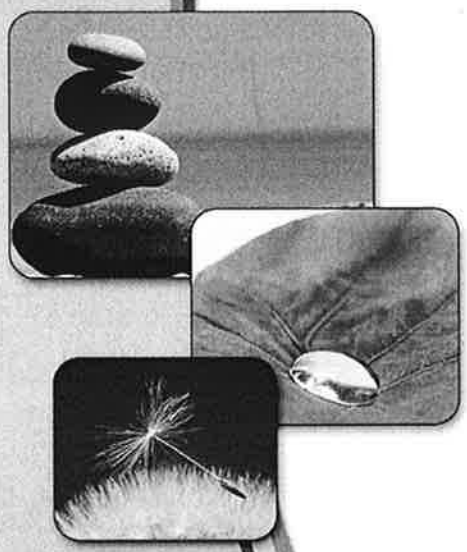
For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples requiring dilution.

12.0 Additional Qualifications

Were additional qualifications applied?

No



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-112522-1
TestAmerica SDG: Proj. 60400249-21563720.03004
Client Project/Site: ROXANA QUARTERLY GW - 4Q15

For:
AECOM Technical Services Inc.
1001 Highlands Plaza Dr. West
St. Louis, Missouri 63110

Attn: Mrs. Elizabeth Kunkel

Carolyn W. Hooper

Authorized for release by:
11/9/2015 7:16:39 PM

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Reviewed 12/7/15 MH

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 400-112522-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-112522-1

Receipt
The samples were received on 10/16/2015 10:09 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.9° C, 2.5° C and 3.6° C.

GC/MS VOA
Method 8260B: The initial calibration verification (ICV) analyzed in batch 400-279112 was outside method criteria for the following analytes: Bromomethane and Dichlorodifluoromethane As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

The laboratory control sample (LCS) for batch 280082 recovered outside control limits for three analytes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 280323 recovered above the upper control limit for Dichlorodifluoromethane. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

The laboratory control sample (LCS) for batch 280323 recovered outside control limits for one analyte. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

The preservative (HDL) used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The requested target analyte list includes 2-chloroethyl vinyl ether, Acrolein and Acrylonitrile, which are acid-labile compounds that degrade in an acidic medium.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-280323 were outside control limits for 2-Chloroethyl vinyl ether due to the acidic nature of the parent sample.

The RPD for the MS/MSD for 2-chloroethylvinyl ether was not calculable for batch 280323 because the recoveries were below the reporting limit due to the acidic nature of the parent sample.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-280323 were outside control limits for Dichlorodifluoromethane due to high bias for this analyte on this day of analysis.

GC/MS Semi VOA
Method 8270C: Surrogate recovery for the following sample was outside control limits: P59-ROX-101515 (400-112522-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Six surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: T12-ROX-101515 (400-112522-3), P59-ROX-101515 (400-112522-4), P93B-ROX-101515 (400-112522-5) and P93A-ROX-101515 (400-112522-7). These results have been reported and qualified.

Physical properties (viscosity, color, odor) of the following sample extract preclude concentrated analysis which would jeopardize instrumentation. Minimal dilution with elevated RLs is reported. T12-ROX-101515 (400-112522-3) and P59-ROX-101515 (400-112522-4)

The following samples were re-prepared outside of preparation holding time due to failing compounds in the LCS/D from the original extraction batch: T12-ROX-101515 (400-112522-3), P59-ROX-101515 (400-112522-4), P93B-ROX-101515 (400-112522-5), P93D-ROX-101515 (400-112522-6), P93A-ROX-101515 (400-112522-7) and P93A-ROX-101515-DUP (400-112522-8). Both sets results have been reported.

Job ID: 400-112522-1 (Continued)

Laboratory: TestAmerica Pensacola (Continued)

Method 8270C LL: The following samples were diluted to bring the concentration of target analytes within the calibration range: P93B-ROX-101515 (400-112522-5), T12-ROX-101515 (400-112522-3) and P59-ROX-101515 (400-112522-4). Elevated reporting limits (RLs) are provided.

The continuing calibration verification (CCV) associated with batch 400-281459 recovered above the upper control limit for Fluoranthene and Fluorene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: P93A-ROX-101515-DUP (400-112522-8).

Organic Prep

Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 8270 / LL.analytical batch 400-279637.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 8270. analytical batch 400-280032.

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

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112522-1
SDG: Proj. 60400249-21563720.03004

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-112522-1	TB-ROX-101515-8260 SS	Water	10/15/15 00:00	10/17/15 10:09
400-112522-2	TB-ROX-101515-8011 SS	Water	10/15/15 00:00	10/17/15 10:09
400-112522-3	T12-ROX-101515	Water	10/15/15 10:10	10/17/15 10:09
400-112522-4	P59-ROX-101515	Water	10/15/15 11:10	10/17/15 10:09
400-112522-5	P93B-ROX-101515	Water	10/15/15 10:45	10/17/15 10:09
400-112522-6	P93D-ROX-101515	Water	10/15/15 14:15	10/17/15 10:09
400-112522-7	P93A-ROX-101515	Water	10/15/15 14:45	10/17/15 10:09
400-112522-8	P93A-ROX-101515-DUP	Water	10/15/15 14:45	10/17/15 10:09

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112522-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: TB-ROX-101515-8260 SS

Lab Sample ID: 400-112522-1

No Detections.

Client Sample ID: TB-ROX-101515-8011 SS

Lab Sample ID: 400-112522-2

No Detections.

Client Sample ID: T12-ROX-101515

Lab Sample ID: 400-112522-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2500		10	3.8	ug/L	10		8260B	Total/NA
Ethylbenzene	200		10	5.0	ug/L	10		8260B	Total/NA
Isopropylbenzene	34		10	5.3	ug/L	10		8260B	Total/NA
m-Xylene & p-Xylene	550		50	16	ug/L	10		8260B	Total/NA
Naphthalene	81		10	10	ug/L	10		8260B	Total/NA
N-Propylbenzene	55		10	6.9	ug/L	10		8260B	Total/NA
o-Xylene	8.0	J	50	6.0	ug/L	10		8260B	Total/NA
Toluene	96		10	7.0	ug/L	10		8260B	Total/NA
1,2,4-Trimethylbenzene	150		10	8.2	ug/L	10		8260B	Total/NA
1,3,5-Trimethylbenzene	16		10	5.6	ug/L	10		8260B	Total/NA
Xylenes, Total	560		50	6.0	ug/L	10		8260B	Total/NA
Acenaphthene	0.22		0.20	0.020	ug/L	1		8270C LL	Total/NA
1-Methylnaphthalene	17		0.20	0.020	ug/L	1		8270C LL	Total/NA
2-Methylnaphthalene	24		0.20	0.020	ug/L	1		8270C LL	Total/NA
Phenanthrene	0.50		0.20	0.020	ug/L	1		8270C LL	Total/NA
Pyrene	0.038	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
2,4-Dimethylphenol	4.0	J	10	3.5	ug/L	1		8270C	Total/NA
Phenol	54		10	2.6	ug/L	1		8270C	Total/NA

Client Sample ID: P59-ROX-101515

Lab Sample ID: 400-112522-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	7200		50	19	ug/L	50		8260B	Total/NA
Ethylbenzene	1100		50	25	ug/L	50		8260B	Total/NA
Isopropylbenzene	30	J	50	27	ug/L	50		8260B	Total/NA
m-Xylene & p-Xylene	2800		250	80	ug/L	50		8260B	Total/NA
Naphthalene	85		50	50	ug/L	50		8260B	Total/NA
N-Propylbenzene	40	J	50	35	ug/L	50		8260B	Total/NA
o-Xylene	270		250	30	ug/L	50		8260B	Total/NA
Toluene	540		50	35	ug/L	50		8260B	Total/NA
1,2,4-Trimethylbenzene	280		50	41	ug/L	50		8260B	Total/NA
1,3,5-Trimethylbenzene	100		50	28	ug/L	50		8260B	Total/NA
Xylenes, Total	3100		250	30	ug/L	50		8260B	Total/NA
1-Methylnaphthalene	14		0.20	0.020	ug/L	1		8270C LL	Total/NA
2-Methylnaphthalene	14		0.20	0.020	ug/L	1		8270C LL	Total/NA
2,4-Dimethylphenol	77		10	3.5	ug/L	1		8270C	Total/NA
Indene	9.1	J	10	1.0	ug/L	1		8270C	Total/NA
2-Methylphenol	93		10	1.8	ug/L	1		8270C	Total/NA
3 & 4 Methylphenol	61		20	1.0	ug/L	1		8270C	Total/NA
Phenol	72		10	2.6	ug/L	1		8270C	Total/NA

Client Sample ID: P93B-ROX-101515

Lab Sample ID: 400-112522-5

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112522-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: P93B-ROX-101515 (Continued)

Lab Sample ID: 400-112522-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene - DL	1200000		5000	1900	ug/L	5000		8260B	Total/NA
Phenol	180		50	13	ug/L	5		8270C	Total/NA

Client Sample ID: P93D-ROX-101515

Lab Sample ID: 400-112522-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	15000		100	38	ug/L	100		8260B	Total/NA
Xylenes, Total	81	J	500	60	ug/L	100		8260B	Total/NA
1-Methylnaphthalene	0.021	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
Phenol	71		10	2.6	ug/L	1		8270C	Total/NA

Client Sample ID: P93A-ROX-101515

Lab Sample ID: 400-112522-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	260000		1000	380	ug/L	1000		8260B	Total/NA
Acenaphthene	0.079	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
Fluorene	0.12	J	0.20	0.021	ug/L	1		8270C LL	Total/NA
1-Methylnaphthalene	4.1		0.20	0.020	ug/L	1		8270C LL	Total/NA
2-Methylnaphthalene	1.6		0.20	0.020	ug/L	1		8270C LL	Total/NA
Phenanthrene	0.086	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
3 & 4 Methylphenol	2.1	J	20	1.0	ug/L	1		8270C	Total/NA
Phenol	78		10	2.6	ug/L	1		8270C	Total/NA

Client Sample ID: P93A-ROX-101515-DUP

Lab Sample ID: 400-112522-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	250000		1000	380	ug/L	1000		8260B	Total/NA
Acenaphthene	0.080	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
Fluorene	0.13	J	0.20	0.021	ug/L	1		8270C LL	Total/NA
1-Methylnaphthalene	4.0		0.20	0.020	ug/L	1		8270C LL	Total/NA
2-Methylnaphthalene	1.6		0.20	0.020	ug/L	1		8270C LL	Total/NA
Phenanthrene	0.092	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
3 & 4 Methylphenol	2.3	J	20	1.0	ug/L	1		8270C	Total/NA
Phenol	82		10	2.6	ug/L	1		8270C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TB-ROX-101515-8260 SS
Date Collected: 10/15/15 00:00
Date Received: 10/17/15 10:09

Lab Sample ID: 400-112522-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/22/15 22:40	1
Acrolein	ND		20	10	ug/L			10/22/15 22:40	1
Acrylonitrile	ND		10	2.8	ug/L			10/22/15 22:40	1
Benzene	ND		1.0	0.38	ug/L			10/22/15 22:40	1
Bromobenzene	ND		1.0	0.54	ug/L			10/22/15 22:40	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/22/15 22:40	1
Bromodichloromethane	ND	*	1.0	0.50	ug/L			10/22/15 22:40	1
Bromoform	ND		5.0	0.71	ug/L			10/22/15 22:40	1
Bromomethane	ND		1.0	0.98	ug/L			10/22/15 22:40	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/22/15 22:40	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/22/15 22:40	1
Carbon tetrachloride	ND	*	1.0	0.50	ug/L			10/22/15 22:40	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/22/15 22:40	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/22/15 22:40	1
Chloroethane	ND		1.0	0.76	ug/L			10/22/15 22:40	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/22/15 22:40	1
Chloroform	ND		1.0	0.60	ug/L			10/22/15 22:40	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/22/15 22:40	1
Chloromethane	ND		1.0	0.83	ug/L			10/22/15 22:40	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 22:40	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/15 22:40	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/22/15 22:40	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/22/15 22:40	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/22/15 22:40	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/22/15 22:40	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/22/15 22:40	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/22/15 22:40	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 22:40	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 22:40	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 22:40	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 22:40	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/22/15 22:40	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/22/15 22:40	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/22/15 22:40	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/22/15 22:40	1
2-Hexanone	ND		25	3.1	ug/L			10/22/15 22:40	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/22/15 22:40	1
Methylene bromide	ND		5.0	0.59	ug/L			10/22/15 22:40	1
Methylene chloride	ND		5.0	3.0	ug/L			10/22/15 22:40	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/22/15 22:40	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/22/15 22:40	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/22/15 22:40	1
Naphthalene	ND		1.0	1.0	ug/L			10/22/15 22:40	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/22/15 22:40	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/22/15 22:40	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/22/15 22:40	1
o-Xylene	ND		5.0	0.60	ug/L			10/22/15 22:40	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/22/15 22:40	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/22/15 22:40	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112522-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: TB-ROX-101515-8260 SS
Date Collected: 10/15/15 00:00
Date Received: 10/17/15 10:09

Lab Sample ID: 400-112522-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/22/15 22:40	1
Styrene	ND		1.0	1.0	ug/L			10/22/15 22:40	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/22/15 22:40	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/22/15 22:40	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/22/15 22:40	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/22/15 22:40	1
Toluene	ND		1.0	0.70	ug/L			10/22/15 22:40	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 22:40	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/15 22:40	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/22/15 22:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/22/15 22:40	1
1,1,1-Trichloroethane	ND	*	1.0	0.50	ug/L			10/22/15 22:40	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/22/15 22:40	1
Trichloroethene	ND		1.0	0.50	ug/L			10/22/15 22:40	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/22/15 22:40	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/22/15 22:40	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/22/15 22:40	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/22/15 22:40	1
Vinyl acetate	ND		25	2.0	ug/L			10/22/15 22:40	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/22/15 22:40	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/22/15 22:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*78 - 118*		*10/22/15 22:40*	*1*
Dibromofluoromethane	*103*		*81 - 121*		*10/22/15 22:40*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*10/22/15 22:40*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112522-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: TB-ROX-101515-8011 SS
Date Collected: 10/15/15 00:00
Date Received: 10/17/15 10:09

Lab Sample ID: 400-112522-2
Matrix: Water

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.031	0.0057	ug/L		10/21/15 08:59	10/22/15 12:23	1
1,2-Dibromoethane	ND		0.021	0.0052	ug/L		10/21/15 08:59	10/22/15 12:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*51 - 149*	*10/21/15 08:59*	*10/22/15 12:23*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112522-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: T12-ROX-101515
Date Collected: 10/15/15 10:10
Date Received: 10/17/15 10:09

Lab Sample ID: 400-112522-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		250	100	ug/L			10/23/15 01:15	10
Acrolein	ND		200	100	ug/L			10/23/15 01:15	10
Acrylonitrile	ND		100	28	ug/L			10/23/15 01:15	10
Benzene	**2500**		10	3.8	ug/L			10/23/15 01:15	10
Bromobenzene	ND		10	5.4	ug/L			10/23/15 01:15	10
Bromochloromethane	ND		10	5.2	ug/L			10/23/15 01:15	10
Bromodichloromethane	ND	*	10	5.0	ug/L			10/23/15 01:15	10
Bromoform	ND		50	7.1	ug/L			10/23/15 01:15	10
Bromomethane	ND		10	9.8	ug/L			10/23/15 01:15	10
2-Butanone (MEK)	ND		250	26	ug/L			10/23/15 01:15	10
Carbon disulfide	ND		10	5.0	ug/L			10/23/15 01:15	10
Carbon tetrachloride	ND	*	10	5.0	ug/L			10/23/15 01:15	10
Chlorobenzene	ND		10	5.0	ug/L			10/23/15 01:15	10
Dibromochloromethane	ND		10	5.0	ug/L			10/23/15 01:15	10
Chloroethane	ND		10	7.6	ug/L			10/23/15 01:15	10
2-Chloroethyl vinyl ether	ND		50	20	ug/L			10/23/15 01:15	10
Chloroform	ND		10	6.0	ug/L			10/23/15 01:15	10
1-Chlorohexane	ND		10	7.0	ug/L			10/23/15 01:15	10
Chloromethane	ND		10	8.3	ug/L			10/23/15 01:15	10
cis-1,2-Dichloroethene	ND		10	5.0	ug/L			10/23/15 01:15	10
cis-1,3-Dichloropropene	ND		50	5.0	ug/L			10/23/15 01:15	10
1,2-Dichlorobenzene	ND		10	5.0	ug/L			10/23/15 01:15	10
1,3-Dichlorobenzene	ND		10	5.4	ug/L			10/23/15 01:15	10
1,4-Dichlorobenzene	ND		10	6.4	ug/L			10/23/15 01:15	10
Dichlorodifluoromethane	ND		10	8.5	ug/L			10/23/15 01:15	10
1,1-Dichloroethane	ND		10	5.0	ug/L			10/23/15 01:15	10
1,2-Dichloroethane	ND		10	5.0	ug/L			10/23/15 01:15	10
1,1-Dichloroethene	ND		10	5.0	ug/L			10/23/15 01:15	10
1,2-Dichloropropane	ND		10	5.0	ug/L			10/23/15 01:15	10
1,3-Dichloropropane	ND		10	5.0	ug/L			10/23/15 01:15	10
2,2-Dichloropropane	ND		10	5.0	ug/L			10/23/15 01:15	10
1,1-Dichloropropene	ND		10	5.0	ug/L			10/23/15 01:15	10
Ethylbenzene	**200**		10	5.0	ug/L			10/23/15 01:15	10
Ethyl methacrylate	ND		10	6.0	ug/L			10/23/15 01:15	10
Hexachlorobutadiene	ND		50	9.0	ug/L			10/23/15 01:15	10
2-Hexanone	ND		250	31	ug/L			10/23/15 01:15	10
Isopropylbenzene	**34**		10	5.3	ug/L			10/23/15 01:15	10
Methylene bromide	ND		50	5.9	ug/L			10/23/15 01:15	10
Methylene chloride	ND		50	30	ug/L			10/23/15 01:15	10
4-Methyl-2-pentanone (MIBK)	ND		250	18	ug/L			10/23/15 01:15	10
Methyl tert-butyl ether	ND		10	7.4	ug/L			10/23/15 01:15	10
m-Xylene & p-Xylene	**550**		50	16	ug/L			10/23/15 01:15	10
Naphthalene	**81**		10	10	ug/L			10/23/15 01:15	10
n-Butylbenzene	ND		10	7.6	ug/L			10/23/15 01:15	10
N-Propylbenzene	**55**		10	6.9	ug/L			10/23/15 01:15	10
o-Chlorotoluene	ND		10	5.7	ug/L			10/23/15 01:15	10
o-Xylene	**8.0**	J	50	6.0	ug/L			10/23/15 01:15	10
p-Chlorotoluene	ND		10	5.6	ug/L			10/23/15 01:15	10
p-Isopropyltoluene	ND		10	7.1	ug/L			10/23/15 01:15	10

Client Sample ID: T12-ROX-101515

Date Collected: 10/15/15 10:10
Date Received: 10/17/15 10:09

Lab Sample ID: 400-112522-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		10	7.0	ug/L			10/23/15 01:15	10
Styrene	ND		10	10	ug/L			10/23/15 01:15	10
tert-Butylbenzene	ND		10	6.3	ug/L			10/23/15 01:15	10
1,1,1,2-Tetrachloroethane	ND		10	5.2	ug/L			10/23/15 01:15	10
1,1,2,2-Tetrachloroethane	ND		10	5.0	ug/L			10/23/15 01:15	10
Tetrachloroethene	ND		10	5.8	ug/L			10/23/15 01:15	10
Toluene	**96**		10	7.0	ug/L			10/23/15 01:15	10
trans-1,2-Dichloroethene	ND		10	5.0	ug/L			10/23/15 01:15	10
trans-1,3-Dichloropropene	ND		50	5.0	ug/L			10/23/15 01:15	10
1,2,3-Trichlorobenzene	ND		10	7.0	ug/L			10/23/15 01:15	10
1,2,4-Trichlorobenzene	ND		10	8.2	ug/L			10/23/15 01:15	10
1,1,1-Trichloroethane	ND	*	10	5.0	ug/L			10/23/15 01:15	10
1,1,2-Trichloroethane	ND		50	5.0	ug/L			10/23/15 01:15	10
Trichloroethene	ND		10	5.0	ug/L			10/23/15 01:15	10
Trichlorofluoromethane	ND		10	5.2	ug/L			10/23/15 01:15	10
1,2,3-Trichloropropane	ND		50	8.4	ug/L			10/23/15 01:15	10
1,2,4-Trimethylbenzene	**150**		10	8.2	ug/L			10/23/15 01:15	10
1,3,5-Trimethylbenzene	**16**		10	5.6	ug/L			10/23/15 01:15	10
Vinyl acetate	ND		250	20	ug/L			10/23/15 01:15	10
Vinyl chloride	ND		10	5.0	ug/L			10/23/15 01:15	10
Xylenes, Total	**560**		50	6.0	ug/L			10/23/15 01:15	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*78 - 118*		*10/23/15 01:15*	*10*
Dibromofluoromethane	*101*		*81 - 121*		*10/23/15 01:15*	*10*
Toluene-d8 (Surr)	*93*		*80 - 120*		*10/23/15 01:15*	*10*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.22**		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 21:53	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 21:53	1
Anthracene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 21:53	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 21:53	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 21:53	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 21:53	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 21:53	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 21:53	1
Chrysene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 21:53	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 21:53	1
Fluoranthene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 21:53	1
Fluorene	ND		0.20	0.021	ug/L		10/20/15 11:18	10/29/15 21:53	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 21:53	1
1-Methylnaphthalene	**17**		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 21:53	1
2-Methylnaphthalene	**24**		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 21:53	1
Phenanthrene	**0.50**		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 21:53	1
Pyrene	**0.038**	J	0.20	0.020	ug/L		10/20/15 11:18	10/29/15 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*62*		*15 - 122*	*10/20/15 11:18*	*10/29/15 21:53*	*1*
Nitrobenzene-d5	*75*		*19 - 130*	*10/20/15 11:18*	*10/29/15 21:53*	*1*

Client Sample ID: T12-ROX-101515

Date Collected: 10/15/15 10:10
Date Received: 10/17/15 10:09

Lab Sample ID: 400-112522-3

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	72		33 - 138	10/20/15 11:18	10/29/15 21:53	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	*	10	3.8	ug/L		10/20/15 11:18	10/21/15 20:13	1
Aniline	ND		50	19	ug/L		10/22/15 10:55	10/23/15 15:57	5
Benzenethiol	ND		10	1.7	ug/L		10/20/15 11:18	10/21/15 20:13	1
Benzoic acid	ND		30	7.3	ug/L		10/20/15 11:18	10/21/15 20:13	1
Benzyl alcohol	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 20:13	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/20/15 11:18	10/21/15 20:13	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/20/15 11:18	10/21/15 20:13	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/20/15 11:18	10/21/15 20:13	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/20/15 11:18	10/21/15 20:13	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/20/15 11:18	10/21/15 20:13	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/20/15 11:18	10/21/15 20:13	1
4-Chloroaniline	ND	* UJ	10	3.4	ug/L		10/20/15 11:18	10/21/15 20:13	1
4-Chloroaniline	ND		50	17	ug/L		10/22/15 10:55	10/23/15 15:57	5
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/20/15 11:18	10/21/15 20:13	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/20/15 11:18	10/21/15 20:13	1
2-Chlorophenol	ND		10	2.2	ug/L		10/20/15 11:18	10/21/15 20:13	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 20:13	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/20/15 11:18	10/21/15 20:13	1
Dibenzofuran	ND		10	0.52	ug/L		10/20/15 11:18	10/21/15 20:13	1
3,3'-Dichlorobenzidine	ND	* UJ	10	2.6	ug/L		10/20/15 11:18	10/21/15 20:13	1
3,3'-Dichlorobenzidine	ND		50	13	ug/L		10/22/15 10:55	10/23/15 15:57	5
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/20/15 11:18	10/21/15 20:13	1
Diethyl phthalate	ND		10	0.70	ug/L		10/20/15 11:18	10/21/15 20:13	1
2,4-Dimethylphenol	**4.0**	**J**	10	3.5	ug/L		10/20/15 11:18	10/21/15 20:13	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/20/15 11:18	10/21/15 20:13	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/20/15 11:18	10/21/15 20:13	1
4,6-Dinitro-2-methylphenol	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 20:13	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/20/15 11:18	10/21/15 20:13	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/20/15 11:18	10/21/15 20:13	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/20/15 11:18	10/21/15 20:13	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/20/15 11:18	10/21/15 20:13	1
1,4-Dioxane	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 20:13	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 20:13	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/20/15 11:18	10/21/15 20:13	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/20/15 11:18	10/21/15 20:13	1
Hexachloroethane	ND		10	4.2	ug/L		10/20/15 11:18	10/21/15 20:13	1
Indene	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 20:13	1
Isophorone	ND		10	0.57	ug/L		10/20/15 11:18	10/21/15 20:13	1
2-Methylphenol	ND		10	1.8	ug/L		10/20/15 11:18	10/21/15 20:13	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/20/15 11:18	10/21/15 20:13	1
2-Nitroaniline	ND		10	2.2	ug/L		10/20/15 11:18	10/21/15 20:13	1
3-Nitroaniline	ND	* UJ	10	1.8	ug/L		10/20/15 11:18	10/21/15 20:13	1
3-Nitroaniline	ND		50	9.0	ug/L		10/22/15 10:55	10/23/15 15:57	5
4-Nitroaniline	ND		10	2.5	ug/L		10/20/15 11:18	10/21/15 20:13	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112522-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: T12-ROX-101515
Date Collected: 10/15/15 10:10
Date Received: 10/17/15 10:09

Lab Sample ID: 400-112522-3
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	ND		10	0.55	ug/L		10/20/15 11:18	10/21/15 20:13	1
2-Nitrophenol	ND		10	0.65	ug/L		10/20/15 11:18	10/21/15 20:13	1
4-Nitrophenol	ND		10	2.1	ug/L		10/20/15 11:18	10/21/15 20:13	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 20:13	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/20/15 11:18	10/21/15 20:13	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/20/15 11:18	10/21/15 20:13	1
Pentachlorophenol	ND		20	1.8	ug/L		10/20/15 11:18	10/21/15 20:13	1
Phenol	**54**		10	2.6	ug/L		10/20/15 11:18	10/21/15 20:13	1
Pyridine	ND	* UJ	10	3.2	ug/L		10/20/15 11:18	10/21/15 20:13	1
Pyridine	ND		50	16	ug/L		10/22/15 10:55	10/23/15 15:57	5
Quinoline	ND		10	6.0	ug/L		10/20/15 11:18	10/21/15 20:13	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/20/15 11:18	10/21/15 20:13	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 20:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*34 - 120*	*10/20/15 11:18*	*10/21/15 20:13*	*1*
2-Fluorobiphenyl	*69*		*34 - 120*	*10/22/15 10:55*	*10/23/15 15:57*	*5*
2-Fluorophenol	*57*		*10 - 120*	*10/20/15 11:18*	*10/21/15 20:13*	*1*
2-Fluorophenol	*43*		*10 - 120*	*10/22/15 10:55*	*10/23/15 15:57*	*5*
Nitrobenzene-d5	*93*		*27 - 120*	*10/20/15 11:18*	*10/21/15 20:13*	*1*
Nitrobenzene-d5	*74*		*27 - 120*	*10/22/15 10:55*	*10/23/15 15:57*	*5*
Phenol-d5	*63*		*10 - 120*	*10/20/15 11:18*	*10/21/15 20:13*	*1*
Phenol-d5	*47*		*10 - 120*	*10/22/15 10:55*	*10/23/15 15:57*	*5*
Terphenyl-d14	*83*		*53 - 125*	*10/20/15 11:18*	*10/21/15 20:13*	*1*
Terphenyl-d14	*52*	X	*53 - 125*	*10/22/15 10:55*	*10/23/15 15:57*	*5*
2,4,6-Tribromophenol	*86*		*15 - 135*	*10/20/15 11:18*	*10/21/15 20:13*	*1*
2,4,6-Tribromophenol	*55*		*15 - 135*	*10/22/15 10:55*	*10/23/15 15:57*	*5*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.029	0.0053	ug/L		10/21/15 08:59	10/22/15 12:53	1
1,2-Dibromoethane	ND		0.019	0.0049	ug/L		10/21/15 08:59	10/22/15 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*111*		*51 - 149*	*10/21/15 08:59*	*10/22/15 12:53*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112522-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: P59-ROX-101515
Date Collected: 10/15/15 11:10
Date Received: 10/17/15 10:09

Lab Sample ID: 400-112522-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		1300	500	ug/L			10/23/15 01:41	50
Acrolein	ND		1000	500	ug/L			10/23/15 01:41	50
Acrylonitrile	ND		500	140	ug/L			10/23/15 01:41	50
Benzene	**7200**		50	19	ug/L			10/23/15 01:41	50
Bromobenzene	ND		50	27	ug/L			10/23/15 01:41	50
Bromochloromethane	ND		50	26	ug/L			10/23/15 01:41	50
Bromodichloromethane	ND	*	50	25	ug/L			10/23/15 01:41	50
Bromoform	ND		250	36	ug/L			10/23/15 01:41	50
Bromomethane	ND		50	49	ug/L			10/23/15 01:41	50
2-Butanone (MEK)	ND		1300	130	ug/L			10/23/15 01:41	50
Carbon disulfide	ND		50	25	ug/L			10/23/15 01:41	50
Carbon tetrachloride	ND	*	50	25	ug/L			10/23/15 01:41	50
Chlorobenzene	ND		50	25	ug/L			10/23/15 01:41	50
Dibromochloromethane	ND		50	25	ug/L			10/23/15 01:41	50
Chloroethane	ND		50	38	ug/L			10/23/15 01:41	50
2-Chloroethyl vinyl ether	ND		250	100	ug/L			10/23/15 01:41	50
Chloroform	ND		50	30	ug/L			10/23/15 01:41	50
1-Chlorohexane	ND		50	35	ug/L			10/23/15 01:41	50
Chloromethane	ND		50	42	ug/L			10/23/15 01:41	50
cis-1,2-Dichloroethene	ND		50	25	ug/L			10/23/15 01:41	50
cis-1,3-Dichloropropene	ND		250	25	ug/L			10/23/15 01:41	50
1,2-Dichlorobenzene	ND		50	25	ug/L			10/23/15 01:41	50
1,3-Dichlorobenzene	ND		50	27	ug/L			10/23/15 01:41	50
1,4-Dichlorobenzene	ND		50	32	ug/L			10/23/15 01:41	50
Dichlorodifluoromethane	ND		50	43	ug/L			10/23/15 01:41	50
1,1-Dichloroethane	ND		50	25	ug/L			10/23/15 01:41	50
1,2-Dichloroethane	ND		50	25	ug/L			10/23/15 01:41	50
1,1-Dichloroethene	ND		50	25	ug/L			10/23/15 01:41	50
1,2-Dichloropropane	ND		50	25	ug/L			10/23/15 01:41	50
1,3-Dichloropropane	ND		50	25	ug/L			10/23/15 01:41	50
2,2-Dichloropropane	ND		50	25	ug/L			10/23/15 01:41	50
1,1-Dichloropropene	ND		50	25	ug/L			10/23/15 01:41	50
Ethylbenzene	**1100**		50	25	ug/L			10/23/15 01:41	50
Ethyl methacrylate	ND		50	30	ug/L			10/23/15 01:41	50
Hexachlorobutadiene	ND		250	45	ug/L			10/23/15 01:41	50
2-Hexanone	ND		1300	160	ug/L			10/23/15 01:41	50
Isopropylbenzene	**30**	J	50	27	ug/L			10/23/15 01:41	50
Methylene bromide	ND		250	30	ug/L			10/23/15 01:41	50
Methylene chloride	ND		250	150	ug/L			10/23/15 01:41	50
4-Methyl-2-pentanone (MIBK)	ND		1300	90	ug/L			10/23/15 01:41	50
Methyl tert-butyl ether	ND		50	37	ug/L			10/23/15 01:41	50
m-Xylene & p-Xylene	**2800**		250	80	ug/L			10/23/15 01:41	50
Naphthalene	**85**		50	50	ug/L			10/23/15 01:41	50
n-Butylbenzene	ND		50	38	ug/L			10/23/15 01:41	50
N-Propylbenzene	**40**	J	50	35	ug/L			10/23/15 01:41	50
o-Chlorotoluene	ND		50	29	ug/L			10/23/15 01:41	50
o-Xylene	**270**		250	30	ug/L			10/23/15 01:41	50
p-Chlorotoluene	ND		50	28	ug/L			10/23/15 01:41	50
p-Isopropyltoluene	ND		50	36	ug/L			10/23/15 01:41	50

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112522-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: P59-ROX-101515
Date Collected: 10/15/15 11:10
Date Received: 10/17/15 10:09

Lab Sample ID: 400-112522-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		50	35	ug/L			10/23/15 01:41	50
Styrene	ND		50	50	ug/L			10/23/15 01:41	50
tert-Butylbenzene	ND		50	32	ug/L			10/23/15 01:41	50
1,1,1,2-Tetrachloroethane	ND		50	26	ug/L			10/23/15 01:41	50
1,1,2,2-Tetrachloroethane	ND		50	25	ug/L			10/23/15 01:41	50
Tetrachloroethene	ND		50	29	ug/L			10/23/15 01:41	50
Toluene	**540**		50	35	ug/L			10/23/15 01:41	50
trans-1,2-Dichloroethene	ND		50	25	ug/L			10/23/15 01:41	50
trans-1,3-Dichloropropene	ND		250	25	ug/L			10/23/15 01:41	50
1,2,3-Trichlorobenzene	ND		50	35	ug/L			10/23/15 01:41	50
1,2,4-Trichlorobenzene	ND		50	41	ug/L			10/23/15 01:41	50
1,1,1-Trichloroethane	ND	*	50	25	ug/L			10/23/15 01:41	50
1,1,2-Trichloroethane	ND		250	25	ug/L			10/23/15 01:41	50
Trichloroethene	ND		50	25	ug/L			10/23/15 01:41	50
Trichlorofluoromethane	ND		50	26	ug/L			10/23/15 01:41	50
1,2,3-Trichloropropane	ND		250	42	ug/L			10/23/15 01:41	50
1,2,4-Trimethylbenzene	**280**		50	41	ug/L			10/23/15 01:41	50
1,3,5-Trimethylbenzene	**100**		50	28	ug/L			10/23/15 01:41	50
Vinyl acetate	ND		1300	100	ug/L			10/23/15 01:41	50
Vinyl chloride	ND		50	25	ug/L			10/23/15 01:41	50
Xylenes, Total	**3100**		250	30	ug/L			10/23/15 01:41	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*78 - 118*		*10/23/15 01:41*	*50*
Dibromofluoromethane	*101*		*81 - 121*		*10/23/15 01:41*	*50*
Toluene-d8 (Surr)	*92*		*80 - 120*		*10/23/15 01:41*	*50*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		2.0	0.20	ug/L		10/20/15 11:18	10/30/15 14:10	10
Acenaphthylene	ND		2.0	0.20	ug/L		10/20/15 11:18	10/30/15 14:10	10
Anthracene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 22:30	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 22:30	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 22:30	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 22:30	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 22:30	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 22:30	1
Chrysene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 22:30	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 22:30	1
Fluoranthene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 22:30	1
Fluorene	ND		2.0	0.21	ug/L		10/20/15 11:18	10/30/15 14:10	10
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 22:30	1
1-Methylnaphthalene	**14**		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 22:30	1
2-Methylnaphthalene	**14**		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 22:30	1
Phenanthrene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 22:30	1
Pyrene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 22:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*54*		*15 - 122*	*10/20/15 11:18*	*10/30/15 14:10*	*10*
Nitrobenzene-d5	*117*		*19 - 130*	*10/20/15 11:18*	*10/29/15 22:30*	*1*

Client Sample ID: P59-ROX-101515

Date Collected: 10/15/15 11:10
Date Received: 10/17/15 10:09

Lab Sample ID: 400-112522-4

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	78		33 - 138	10/20/15 11:18	10/29/15 22:30	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	*	10	3.8	ug/L		10/20/15 11:18	10/21/15 20:50	1
Aniline	ND		50	19	ug/L		10/22/15 10:55	10/23/15 16:35	5
Benzenethiol	ND		10	1.7	ug/L		10/20/15 11:18	10/21/15 20:50	1
Benzoic acid	ND		30	7.3	ug/L		10/20/15 11:18	10/21/15 20:50	1
Benzyl alcohol	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 20:50	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/20/15 11:18	10/21/15 20:50	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/20/15 11:18	10/21/15 20:50	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/20/15 11:18	10/21/15 20:50	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/20/15 11:18	10/21/15 20:50	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/20/15 11:18	10/21/15 20:50	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/20/15 11:18	10/21/15 20:50	1
4-Chloroaniline	ND	* UJ	10	3.4	ug/L		10/20/15 11:18	10/21/15 20:50	1
4-Chloroaniline	ND		50	17	ug/L		10/22/15 10:55	10/23/15 16:35	5
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/20/15 11:18	10/21/15 20:50	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/20/15 11:18	10/21/15 20:50	1
2-Chlorophenol	ND		10	2.2	ug/L		10/20/15 11:18	10/21/15 20:50	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 20:50	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/20/15 11:18	10/21/15 20:50	1
Dibenzofuran	ND		10	0.52	ug/L		10/20/15 11:18	10/21/15 20:50	1
3,3'-Dichlorobenzidine	ND	* UJ	10	2.6	ug/L		10/20/15 11:18	10/21/15 20:50	1
3,3'-Dichlorobenzidine	ND		50	13	ug/L		10/22/15 10:55	10/23/15 16:35	5
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/20/15 11:18	10/21/15 20:50	1
Diethyl phthalate	ND		10	0.70	ug/L		10/20/15 11:18	10/21/15 20:50	1
2,4-Dimethylphenol	**77**		10	3.5	ug/L		10/20/15 11:18	10/21/15 20:50	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/20/15 11:18	10/21/15 20:50	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/20/15 11:18	10/21/15 20:50	1
4,6-Dinitro-2-methylphenol	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 20:50	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/20/15 11:18	10/21/15 20:50	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/20/15 11:18	10/21/15 20:50	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/20/15 11:18	10/21/15 20:50	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/20/15 11:18	10/21/15 20:50	1
1,4-Dioxane	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 20:50	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 20:50	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/20/15 11:18	10/21/15 20:50	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/20/15 11:18	10/21/15 20:50	1
Hexachloroethane	ND		10	4.2	ug/L		10/20/15 11:18	10/21/15 20:50	1
Indene	**9.1**	**J**	10	1.0	ug/L		10/20/15 11:18	10/21/15 20:50	1
Isophorone	ND		10	0.57	ug/L		10/20/15 11:18	10/21/15 20:50	1
2-Methylphenol	**93**		10	1.8	ug/L		10/20/15 11:18	10/21/15 20:50	1
3 & 4 Methylphenol	**61**		20	1.0	ug/L		10/20/15 11:18	10/21/15 20:50	1
2-Nitroaniline	ND		10	2.2	ug/L		10/20/15 11:18	10/21/15 20:50	1
3-Nitroaniline	ND	* UJ	10	1.8	ug/L		10/20/15 11:18	10/21/15 20:50	1
3-Nitroaniline	ND		50	9.0	ug/L		10/22/15 10:55	10/23/15 16:35	5
4-Nitroaniline	ND		10	2.5	ug/L		10/20/15 11:18	10/21/15 20:50	1

Client Sample ID: P59-ROX-101515

Date Collected: 10/15/15 11:10
Date Received: 10/17/15 10:09

Lab Sample ID: 400-112522-4

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	ND		10	0.55	ug/L		10/20/15 11:18	10/21/15 20:50	1
2-Nitrophenol	ND		10	0.65	ug/L		10/20/15 11:18	10/21/15 20:50	1
4-Nitrophenol	ND		10	2.1	ug/L		10/20/15 11:18	10/21/15 20:50	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 20:50	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/20/15 11:18	10/21/15 20:50	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/20/15 11:18	10/21/15 20:50	1
Pentachlorophenol	ND		20	1.8	ug/L		10/20/15 11:18	10/21/15 20:50	1
Phenol	**72**		10	2.6	ug/L		10/20/15 11:18	10/21/15 20:50	1
Pyridine	ND * UJ		10	3.2	ug/L		10/20/15 11:18	10/21/15 20:50	1
Pyridine	ND		50	16	ug/L		10/22/15 10:55	10/23/15 16:35	5
Quinoline	ND		10	6.0	ug/L		10/20/15 11:18	10/21/15 20:50	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/20/15 11:18	10/21/15 20:50	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 20:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*44*		*34 - 120*	*10/20/15 11:18*	*10/21/15 20:50*	*1*
2-Fluorobiphenyl	*66*		*34 - 120*	*10/22/15 10:55*	*10/23/15 16:35*	*5*
2-Fluorophenol	*0*	X	*10 - 120*	*10/20/15 11:18*	*10/21/15 20:50*	*1*
2-Fluorophenol	*46*		*10 - 120*	*10/22/15 10:55*	*10/23/15 16:35*	*5*
Nitrobenzene-d5	*116*		*27 - 120*	*10/20/15 11:18*	*10/21/15 20:50*	*1*
Nitrobenzene-d5	*77*		*27 - 120*	*10/22/15 10:55*	*10/23/15 16:35*	*5*
Phenol-d5	*0*	X	*10 - 120*	*10/20/15 11:18*	*10/21/15 20:50*	*1*
Phenol-d5	*59*		*10 - 120*	*10/22/15 10:55*	*10/23/15 16:35*	*5*
Terphenyl-d14	*97*		*53 - 125*	*10/20/15 11:18*	*10/21/15 20:50*	*1*
Terphenyl-d14	*34*	X	*53 - 125*	*10/22/15 10:55*	*10/23/15 16:35*	*5*
2,4,6-Tribromophenol	*92*		*15 - 135*	*10/20/15 11:18*	*10/21/15 20:50*	*1*
2,4,6-Tribromophenol	*66*		*15 - 135*	*10/22/15 10:55*	*10/23/15 16:35*	*5*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.029	0.0053	ug/L		10/21/15 08:59	10/22/15 13:22	1
1,2-Dibromoethane	ND		0.019	0.0048	ug/L		10/21/15 08:59	10/22/15 13:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*51 - 149*	*10/21/15 08:59*	*10/22/15 13:22*	*1*

Client Sample ID: P93B-ROX-101515

Date Collected: 10/15/15 10:45
Date Received: 10/17/15 10:09

Lab Sample ID: 400-112522-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		63000	25000	ug/L			10/24/15 11:27	2500
Acrolein	ND		50000	25000	ug/L			10/24/15 11:27	2500
Acrylonitrile	ND		25000	7000	ug/L			10/24/15 11:27	2500
Bromobenzene	ND		2500	1400	ug/L			10/24/15 11:27	2500
Bromochloromethane	ND		2500	1300	ug/L			10/24/15 11:27	2500
Bromodichloromethane	ND		2500	1300	ug/L			10/24/15 11:27	2500
Bromoform	ND		13000	1800	ug/L			10/24/15 11:27	2500
Bromomethane	ND		2500	2500	ug/L			10/24/15 11:27	2500
2-Butanone (MEK)	ND		63000	6500	ug/L			10/24/15 11:27	2500
Carbon disulfide	ND		2500	1300	ug/L			10/24/15 11:27	2500
Carbon tetrachloride	ND		2500	1300	ug/L			10/24/15 11:27	2500
Chlorobenzene	ND		2500	1300	ug/L			10/24/15 11:27	2500
Dibromochloromethane	ND		2500	1300	ug/L			10/24/15 11:27	2500
Chloroethane	ND		2500	1900	ug/L			10/24/15 11:27	2500
2-Chloroethyl vinyl ether	ND		13000	5000	ug/L			10/24/15 11:27	2500
Chloroform	ND		2500	1500	ug/L			10/24/15 11:27	2500
1-Chlorohexane	ND		2500	1800	ug/L			10/24/15 11:27	2500
Chloromethane	ND		2500	2100	ug/L			10/24/15 11:27	2500
cis-1,2-Dichloroethene	ND		2500	1300	ug/L			10/24/15 11:27	2500
cis-1,3-Dichloropropene	ND		13000	1300	ug/L			10/24/15 11:27	2500
1,2-Dichlorobenzene	ND		2500	1300	ug/L			10/24/15 11:27	2500
1,3-Dichlorobenzene	ND		2500	1400	ug/L			10/24/15 11:27	2500
1,4-Dichlorobenzene	ND		2500	1600	ug/L			10/24/15 11:27	2500
Dichlorodifluoromethane	ND	*	2500	2100	ug/L			10/24/15 11:27	2500
1,1-Dichloroethane	ND		2500	1300	ug/L			10/24/15 11:27	2500
1,2-Dichloroethane	ND		2500	1300	ug/L			10/24/15 11:27	2500
1,1-Dichloroethene	ND		2500	1300	ug/L			10/24/15 11:27	2500
1,2-Dichloropropane	ND		2500	1300	ug/L			10/24/15 11:27	2500
1,3-Dichloropropane	ND		2500	1300	ug/L			10/24/15 11:27	2500
2,2-Dichloropropane	ND		2500	1300	ug/L			10/24/15 11:27	2500
1,1-Dichloropropene	ND		2500	1300	ug/L			10/24/15 11:27	2500
Ethylbenzene	ND		2500	1300	ug/L			10/24/15 11:27	2500
Ethyl methacrylate	ND		2500	1500	ug/L			10/24/15 11:27	2500
Hexachlorobutadiene	ND		13000	2300	ug/L			10/24/15 11:27	2500
2-Hexanone	ND		63000	7800	ug/L			10/24/15 11:27	2500
Isopropylbenzene	ND		2500	1300	ug/L			10/24/15 11:27	2500
Methylene bromide	ND		13000	1500	ug/L			10/24/15 11:27	2500
Methylene chloride	ND		13000	7500	ug/L			10/24/15 11:27	2500
4-Methyl-2-pentanone (MIBK)	ND		63000	4500	ug/L			10/24/15 11:27	2500
Methyl tert-butyl ether	ND		2500	1900	ug/L			10/24/15 11:27	2500
m-Xylene & p-Xylene	ND		13000	4000	ug/L			10/24/15 11:27	2500
Naphthalene	ND		2500	2500	ug/L			10/24/15 11:27	2500
n-Butylbenzene	ND		2500	1900	ug/L			10/24/15 11:27	2500
N-Propylbenzene	ND		2500	1700	ug/L			10/24/15 11:27	2500
o-Chlorotoluene	ND		2500	1400	ug/L			10/24/15 11:27	2500
o-Xylene	ND		13000	1500	ug/L			10/24/15 11:27	2500
p-Chlorotoluene	ND		2500	1400	ug/L			10/24/15 11:27	2500
p-Isopropyltoluene	ND		2500	1800	ug/L			10/24/15 11:27	2500
sec-Butylbenzene	ND		2500	1800	ug/L			10/24/15 11:27	2500

Client Sample ID: P93B-ROX-101515
Date Collected: 10/15/15 10:45
Date Received: 10/17/15 10:09

Lab Sample ID: 400-112522-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		2500	2500	ug/L			10/24/15 11:27	2500
tert-Butylbenzene	ND		2500	1600	ug/L			10/24/15 11:27	2500
1,1,1,2-Tetrachloroethane	ND		2500	1300	ug/L			10/24/15 11:27	2500
1,1,2,2-Tetrachloroethane	ND		2500	1300	ug/L			10/24/15 11:27	2500
Tetrachloroethene	ND		2500	1500	ug/L			10/24/15 11:27	2500
Toluene	ND		2500	1800	ug/L			10/24/15 11:27	2500
trans-1,2-Dichloroethene	ND		2500	1300	ug/L			10/24/15 11:27	2500
trans-1,3-Dichloropropene	ND		13000	1300	ug/L			10/24/15 11:27	2500
1,2,3-Trichlorobenzene	ND		2500	1800	ug/L			10/24/15 11:27	2500
1,2,4-Trichlorobenzene	ND		2500	2100	ug/L			10/24/15 11:27	2500
1,1,1-Trichloroethane	ND		2500	1300	ug/L			10/24/15 11:27	2500
1,1,2-Trichloroethane	ND		13000	1300	ug/L			10/24/15 11:27	2500
Trichloroethene	ND		2500	1300	ug/L			10/24/15 11:27	2500
Trichlorofluoromethane	ND		2500	1300	ug/L			10/24/15 11:27	2500
1,2,3-Trichloropropane	ND		13000	2100	ug/L			10/24/15 11:27	2500
1,2,4-Trimethylbenzene	ND		2500	2100	ug/L			10/24/15 11:27	2500
1,3,5-Trimethylbenzene	ND		2500	1400	ug/L			10/24/15 11:27	2500
Vinyl acetate	ND		63000	5000	ug/L			10/24/15 11:27	2500
Vinyl chloride	ND		2500	1300	ug/L			10/24/15 11:27	2500
Xylenes, Total	ND		13000	1500	ug/L			10/24/15 11:27	2500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*78 - 118*		*10/24/15 11:27*	*2500*
Dibromofluoromethane	*97*		*81 - 121*		*10/24/15 11:27*	*2500*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/24/15 11:27*	*2500*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1200000		5000	1900	ug/L			10/24/15 19:55	5000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*78 - 118*		*10/24/15 19:55*	*5000*
Dibromofluoromethane	*96*		*81 - 121*		*10/24/15 19:55*	*5000*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/24/15 19:55*	*5000*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 18:27	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 18:27	1
Anthracene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 18:27	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 18:27	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 18:27	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 18:27	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 18:27	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 18:27	1
Chrysene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 18:27	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 18:27	1
Fluoranthene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 18:27	1
Fluorene	ND		0.20	0.021	ug/L		10/20/15 11:18	10/29/15 18:27	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 18:27	1

Client Sample ID: P93B-ROX-101515

Date Collected: 10/15/15 10:45
Date Received: 10/17/15 10:09

Lab Sample ID: 400-112522-5

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 18:27	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 18:27	1
Phenanthrene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 18:27	1
Pyrene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*62*		*15 - 122*	*10/20/15 11:18*	*10/29/15 18:27*	*1*
Nitrobenzene-d5	*71*		*19 - 130*	*10/20/15 11:18*	*10/29/15 18:27*	*1*
Terphenyl-d14	*86*		*33 - 138*	*10/20/15 11:18*	*10/29/15 18:27*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	*	10	3.8	ug/L		10/20/15 11:18	10/21/15 21:28	1
Aniline	ND		10	3.8	ug/L		10/22/15 10:55	10/23/15 17:13	1
Benzenethiol	ND		10	1.7	ug/L		10/20/15 11:18	10/21/15 21:28	1
Benzoic acid	ND		30	7.3	ug/L		10/20/15 11:18	10/21/15 21:28	1
Benzyl alcohol	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 21:28	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/20/15 11:18	10/21/15 21:28	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/20/15 11:18	10/21/15 21:28	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/20/15 11:18	10/21/15 21:28	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/20/15 11:18	10/21/15 21:28	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/20/15 11:18	10/21/15 21:28	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/20/15 11:18	10/21/15 21:28	1
4-Chloroaniline	ND	* UJ	10	3.4	ug/L		10/20/15 11:18	10/21/15 21:28	1
4-Chloroaniline	ND		10	3.4	ug/L		10/22/15 10:55	10/23/15 17:13	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/20/15 11:18	10/21/15 21:28	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/20/15 11:18	10/21/15 21:28	1
2-Chlorophenol	ND		10	2.2	ug/L		10/20/15 11:18	10/21/15 21:28	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 21:28	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/20/15 11:18	10/21/15 21:28	1
Dibenzofuran	ND		10	0.52	ug/L		10/20/15 11:18	10/21/15 21:28	1
3,3'-Dichlorobenzidine	ND	* UJ	10	2.6	ug/L		10/20/15 11:18	10/21/15 21:28	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/22/15 10:55	10/23/15 17:13	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/20/15 11:18	10/21/15 21:28	1
Diethyl phthalate	ND		10	0.70	ug/L		10/20/15 11:18	10/21/15 21:28	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 21:28	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/20/15 11:18	10/21/15 21:28	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/20/15 11:18	10/21/15 21:28	1
4,6-Dinitro-2-methylphenol	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 21:28	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/20/15 11:18	10/21/15 21:28	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/20/15 11:18	10/21/15 21:28	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/20/15 11:18	10/21/15 21:28	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/20/15 11:18	10/21/15 21:28	1
1,4-Dioxane	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 21:28	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 21:28	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/20/15 11:18	10/21/15 21:28	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/20/15 11:18	10/21/15 21:28	1
Hexachloroethane	ND		10	4.2	ug/L		10/20/15 11:18	10/21/15 21:28	1
Indene	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 21:28	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112522-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: P93B-ROX-101515
Date Collected: 10/15/15 10:45
Date Received: 10/17/15 10:09

Lab Sample ID: 400-112522-5
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	ND		10	0.57	ug/L		10/20/15 11:18	10/21/15 21:28	1
2-Methylphenol	ND		10	1.8	ug/L		10/20/15 11:18	10/21/15 21:28	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/20/15 11:18	10/21/15 21:28	1
2-Nitroaniline	ND		10	2.2	ug/L		10/20/15 11:18	10/21/15 21:28	1
3-Nitroaniline	ND	* UJ	10	1.8	ug/L		10/20/15 11:18	10/21/15 21:28	1
3-Nitroaniline	ND		10	1.8	ug/L		10/22/15 10:55	10/23/15 17:13	1
4-Nitroaniline	ND		10	2.5	ug/L		10/20/15 11:18	10/21/15 21:28	1
Nitrobenzene	ND		10	0.55	ug/L		10/20/15 11:18	10/21/15 21:28	1
2-Nitrophenol	ND		10	0.65	ug/L		10/20/15 11:18	10/21/15 21:28	1
4-Nitrophenol	ND		10	2.1	ug/L		10/20/15 11:18	10/21/15 21:28	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 21:28	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/20/15 11:18	10/21/15 21:28	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/20/15 11:18	10/21/15 21:28	1
Pentachlorophenol	ND		20	1.8	ug/L		10/20/15 11:18	10/21/15 21:28	1
Phenol	**180**		50	13	ug/L		10/20/15 11:18	10/26/15 18:25	5
Pyridine	ND	* UJ	10	3.2	ug/L		10/20/15 11:18	10/21/15 21:28	1
Pyridine	ND		10	3.2	ug/L		10/22/15 10:55	10/23/15 17:13	1
Quinoline	ND		10	6.0	ug/L		10/20/15 11:18	10/21/15 21:28	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/20/15 11:18	10/21/15 21:28	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 21:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*34 - 120*	*10/20/15 11:18*	*10/21/15 21:28*	*1*
2-Fluorobiphenyl	*62*		*34 - 120*	*10/22/15 10:55*	*10/23/15 17:13*	*1*
2-Fluorophenol	*59*		*10 - 120*	*10/20/15 11:18*	*10/21/15 21:28*	*1*
2-Fluorophenol	*53*		*10 - 120*	*10/22/15 10:55*	*10/23/15 17:13*	*1*
Nitrobenzene-d5	*84*		*27 - 120*	*10/20/15 11:18*	*10/21/15 21:28*	*1*
Nitrobenzene-d5	*64*		*27 - 120*	*10/22/15 10:55*	*10/23/15 17:13*	*1*
Phenol-d5	*71*		*10 - 120*	*10/20/15 11:18*	*10/21/15 21:28*	*1*
Phenol-d5	*57*		*10 - 120*	*10/22/15 10:55*	*10/23/15 17:13*	*1*
Terphenyl-d14	*98*		*53 - 125*	*10/20/15 11:18*	*10/21/15 21:28*	*1*
Terphenyl-d14	*42*	*X*	*53 - 125*	*10/22/15 10:55*	*10/23/15 17:13*	*1*
2,4,6-Tribromophenol	*105*		*15 - 135*	*10/20/15 11:18*	*10/21/15 21:28*	*1*
2,4,6-Tribromophenol	*73*		*15 - 135*	*10/22/15 10:55*	*10/23/15 17:13*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.032	0.0058	ug/L		10/21/15 08:59	10/22/15 13:52	1
1,2-Dibromoethane	ND		0.021	0.0053	ug/L		10/21/15 08:59	10/22/15 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*87*		*51 - 149*	*10/21/15 08:59*	*10/22/15 13:52*	*1*

Client Sample ID: P93D-ROX-101515

Date Collected: 10/15/15 14:15
Date Received: 10/17/15 10:09

Lab Sample ID: 400-112522-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2500	1000	ug/L			10/23/15 02:07	100
Acrolein	ND		2000	1000	ug/L			10/23/15 02:07	100
Acrylonitrile	ND		1000	280	ug/L			10/23/15 02:07	100
Benzene	**15000**		100	38	ug/L			10/23/15 02:07	100
Bromobenzene	ND		100	54	ug/L			10/23/15 02:07	100
Bromochloromethane	ND		100	52	ug/L			10/23/15 02:07	100
Bromodichloromethane	ND	*	100	50	ug/L			10/23/15 02:07	100
Bromoform	ND		500	71	ug/L			10/23/15 02:07	100
Bromomethane	ND		100	98	ug/L			10/23/15 02:07	100
2-Butanone (MEK)	ND		2500	260	ug/L			10/23/15 02:07	100
Carbon disulfide	ND		100	50	ug/L			10/23/15 02:07	100
Carbon tetrachloride	ND	*	100	50	ug/L			10/23/15 02:07	100
Chlorobenzene	ND		100	50	ug/L			10/23/15 02:07	100
Dibromochloromethane	ND		100	50	ug/L			10/23/15 02:07	100
Chloroethane	ND		100	76	ug/L			10/23/15 02:07	100
2-Chloroethyl vinyl ether	ND		500	200	ug/L			10/23/15 02:07	100
Chloroform	ND		100	60	ug/L			10/23/15 02:07	100
1-Chlorohexane	ND		100	70	ug/L			10/23/15 02:07	100
Chloromethane	ND		100	83	ug/L			10/23/15 02:07	100
cis-1,2-Dichloroethene	ND		100	50	ug/L			10/23/15 02:07	100
cis-1,3-Dichloropropene	ND		500	50	ug/L			10/23/15 02:07	100
1,2-Dichlorobenzene	ND		100	50	ug/L			10/23/15 02:07	100
1,3-Dichlorobenzene	ND		100	54	ug/L			10/23/15 02:07	100
1,4-Dichlorobenzene	ND		100	64	ug/L			10/23/15 02:07	100
Dichlorodifluoromethane	ND		100	85	ug/L			10/23/15 02:07	100
1,1-Dichloroethane	ND		100	50	ug/L			10/23/15 02:07	100
1,2-Dichloroethane	ND		100	50	ug/L			10/23/15 02:07	100
1,1-Dichloroethene	ND		100	50	ug/L			10/23/15 02:07	100
1,2-Dichloropropane	ND		100	50	ug/L			10/23/15 02:07	100
1,3-Dichloropropane	ND		100	50	ug/L			10/23/15 02:07	100
2,2-Dichloropropane	ND		100	50	ug/L			10/23/15 02:07	100
1,1-Dichloropropene	ND		100	50	ug/L			10/23/15 02:07	100
Ethylbenzene	ND		100	50	ug/L			10/23/15 02:07	100
Ethyl methacrylate	ND		100	60	ug/L			10/23/15 02:07	100
Hexachlorobutadiene	ND		500	90	ug/L			10/23/15 02:07	100
2-Hexanone	ND		2500	310	ug/L			10/23/15 02:07	100
Isopropylbenzene	ND		100	53	ug/L			10/23/15 02:07	100
Methylene bromide	ND		500	59	ug/L			10/23/15 02:07	100
Methylene chloride	ND		500	300	ug/L			10/23/15 02:07	100
4-Methyl-2-pentanone (MIBK)	ND		2500	180	ug/L			10/23/15 02:07	100
Methyl tert-butyl ether	ND		100	74	ug/L			10/23/15 02:07	100
m-Xylene & p-Xylene	ND		500	160	ug/L			10/23/15 02:07	100
Naphthalene	ND		100	100	ug/L			10/23/15 02:07	100
n-Butylbenzene	ND		100	76	ug/L			10/23/15 02:07	100
N-Propylbenzene	ND		100	69	ug/L			10/23/15 02:07	100
o-Chlorotoluene	ND		100	57	ug/L			10/23/15 02:07	100
o-Xylene	ND		500	60	ug/L			10/23/15 02:07	100
p-Chlorotoluene	ND		100	56	ug/L			10/23/15 02:07	100
p-Isopropyltoluene	ND		100	71	ug/L			10/23/15 02:07	100

Client Sample ID: P93D-ROX-101515

Date Collected: 10/15/15 14:15
Date Received: 10/17/15 10:09

Lab Sample ID: 400-112522-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		100	70	ug/L			10/23/15 02:07	100
Styrene	ND		100	100	ug/L			10/23/15 02:07	100
tert-Butylbenzene	ND		100	63	ug/L			10/23/15 02:07	100
1,1,1,2-Tetrachloroethane	ND		100	52	ug/L			10/23/15 02:07	100
1,1,2,2-Tetrachloroethane	ND		100	50	ug/L			10/23/15 02:07	100
Tetrachloroethene	ND		100	58	ug/L			10/23/15 02:07	100
Toluene	ND		100	70	ug/L			10/23/15 02:07	100
trans-1,2-Dichloroethene	ND		100	50	ug/L			10/23/15 02:07	100
trans-1,3-Dichloropropene	ND		500	50	ug/L			10/23/15 02:07	100
1,2,3-Trichlorobenzene	ND		100	70	ug/L			10/23/15 02:07	100
1,2,4-Trichlorobenzene	ND		100	82	ug/L			10/23/15 02:07	100
1,1,1-Trichloroethane	ND	*	100	50	ug/L			10/23/15 02:07	100
1,1,2-Trichloroethane	ND		500	50	ug/L			10/23/15 02:07	100
Trichloroethene	ND		100	50	ug/L			10/23/15 02:07	100
Trichlorofluoromethane	ND		100	52	ug/L			10/23/15 02:07	100
1,2,3-Trichloropropane	ND		500	84	ug/L			10/23/15 02:07	100
1,2,4-Trimethylbenzene	ND		100	82	ug/L			10/23/15 02:07	100
1,3,5-Trimethylbenzene	ND		100	56	ug/L			10/23/15 02:07	100
Vinyl acetate	ND		2500	200	ug/L			10/23/15 02:07	100
Vinyl chloride	ND		100	50	ug/L			10/23/15 02:07	100
Xylenes, Total	**81**	**J**	500	60	ug/L			10/23/15 02:07	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*78 - 118*		*10/23/15 02:07*	*100*
Dibromofluoromethane	*103*		*81 - 121*		*10/23/15 02:07*	*100*
Toluene-d8 (Surr)	*93*		*80 - 120*		*10/23/15 02:07*	*100*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 19:02	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 19:02	1
Anthracene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 19:02	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 19:02	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 19:02	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 19:02	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 19:02	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 19:02	1
Chrysene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 19:02	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 19:02	1
Fluoranthene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 19:02	1
Fluorene	ND		0.20	0.021	ug/L		10/20/15 11:18	10/29/15 19:02	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 19:02	1
1-Methylnaphthalene	**0.021**	**J**	0.20	0.020	ug/L		10/20/15 11:18	10/29/15 19:02	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 19:02	1
Phenanthrene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 19:02	1
Pyrene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*87*		*15 - 122*	*10/20/15 11:18*	*10/29/15 19:02*	*1*
Nitrobenzene-d5	*78*		*19 - 130*	*10/20/15 11:18*	*10/29/15 19:02*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112522-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: P93D-ROX-101515
Date Collected: 10/15/15 14:15
Date Received: 10/17/15 10:09

Lab Sample ID: 400-112522-6
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	107		33 - 138	10/20/15 11:18	10/29/15 19:02	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	*	10	3.8	ug/L		10/20/15 11:18	10/21/15 22:06	1
Aniline	ND		10	3.8	ug/L		10/22/15 10:55	10/23/15 17:51	1
Benzenethiol	ND		10	1.7	ug/L		10/20/15 11:18	10/21/15 22:06	1
Benzoic acid	ND		30	7.3	ug/L		10/20/15 11:18	10/21/15 22:06	1
Benzyl alcohol	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 22:06	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/20/15 11:18	10/21/15 22:06	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/20/15 11:18	10/21/15 22:06	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/20/15 11:18	10/21/15 22:06	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/20/15 11:18	10/21/15 22:06	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/20/15 11:18	10/21/15 22:06	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/20/15 11:18	10/21/15 22:06	1
4-Chloroaniline	ND	*	10	3.4	ug/L		10/20/15 11:18	10/21/15 22:06	1
4-Chloroaniline	ND		10	3.4	ug/L		10/22/15 10:55	10/23/15 17:51	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/20/15 11:18	10/21/15 22:06	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/20/15 11:18	10/21/15 22:06	1
2-Chlorophenol	ND		10	2.2	ug/L		10/20/15 11:18	10/21/15 22:06	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 22:06	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/20/15 11:18	10/21/15 22:06	1
Dibenzofuran	ND		10	0.52	ug/L		10/20/15 11:18	10/21/15 22:06	1
3,3'-Dichlorobenzidine	ND	*	10	2.6	ug/L		10/20/15 11:18	10/21/15 22:06	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/22/15 10:55	10/23/15 17:51	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/20/15 11:18	10/21/15 22:06	1
Diethyl phthalate	ND		10	0.70	ug/L		10/20/15 11:18	10/21/15 22:06	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 22:06	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/20/15 11:18	10/21/15 22:06	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/20/15 11:18	10/21/15 22:06	1
4,6-Dinitro-2-methylphenol	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 22:06	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/20/15 11:18	10/21/15 22:06	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/20/15 11:18	10/21/15 22:06	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/20/15 11:18	10/21/15 22:06	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/20/15 11:18	10/21/15 22:06	1
1,4-Dioxane	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 22:06	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 22:06	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/20/15 11:18	10/21/15 22:06	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/20/15 11:18	10/21/15 22:06	1
Hexachloroethane	ND		10	4.2	ug/L		10/20/15 11:18	10/21/15 22:06	1
Indene	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 22:06	1
Isophorone	ND		10	0.57	ug/L		10/20/15 11:18	10/21/15 22:06	1
2-Methylphenol	ND		10	1.8	ug/L		10/20/15 11:18	10/21/15 22:06	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/20/15 11:18	10/21/15 22:06	1
2-Nitroaniline	ND		10	2.2	ug/L		10/20/15 11:18	10/21/15 22:06	1
3-Nitroaniline	ND	*	10	1.8	ug/L		10/20/15 11:18	10/21/15 22:06	1
3-Nitroaniline	ND		10	1.8	ug/L		10/22/15 10:55	10/23/15 17:51	1
4-Nitroaniline	ND		10	2.5	ug/L		10/20/15 11:18	10/21/15 22:06	1

Client Sample ID: P93D-ROX-101515

Date Collected: 10/15/15 14:15
Date Received: 10/17/15 10:09

Lab Sample ID: 400-112522-6

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	ND		10	0.55	ug/L		10/20/15 11:18	10/21/15 22:06	1
2-Nitrophenol	ND		10	0.65	ug/L		10/20/15 11:18	10/21/15 22:06	1
4-Nitrophenol	ND		10	2.1	ug/L		10/20/15 11:18	10/21/15 22:06	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 22:06	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/20/15 11:18	10/21/15 22:06	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/20/15 11:18	10/21/15 22:06	1
Pentachlorophenol	ND		20	1.8	ug/L		10/20/15 11:18	10/21/15 22:06	1
Phenol	**71**		10	2.6	ug/L		10/20/15 11:18	10/21/15 22:06	1
Pyridine	ND		10	3.2	ug/L		10/20/15 11:18	10/21/15 22:06	1
Pyridine	ND		10	3.2	ug/L		10/22/15 10:55	10/23/15 17:51	1
Quinoline	ND		10	6.0	ug/L		10/20/15 11:18	10/21/15 22:06	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/20/15 11:18	10/21/15 22:06	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 22:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*93*		*34 - 120*	*10/20/15 11:18*	*10/21/15 22:06*	*1*
2-Fluorobiphenyl	*72*		*34 - 120*	*10/22/15 10:55*	*10/23/15 17:51*	*1*
2-Fluorophenol	*68*		*10 - 120*	*10/20/15 11:18*	*10/21/15 22:06*	*1*
2-Fluorophenol	*54*		*10 - 120*	*10/22/15 10:55*	*10/23/15 17:51*	*1*
Nitrobenzene-d5	*98*		*27 - 120*	*10/20/15 11:18*	*10/21/15 22:06*	*1*
Nitrobenzene-d5	*76*		*27 - 120*	*10/22/15 10:55*	*10/23/15 17:51*	*1*
Phenol-d5	*81*		*10 - 120*	*10/20/15 11:18*	*10/21/15 22:06*	*1*
Phenol-d5	*60*		*10 - 120*	*10/22/15 10:55*	*10/23/15 17:51*	*1*
Terphenyl-d14	*103*		*53 - 125*	*10/20/15 11:18*	*10/21/15 22:06*	*1*
Terphenyl-d14	*63*		*53 - 125*	*10/22/15 10:55*	*10/23/15 17:51*	*1*
2,4,6-Tribromophenol	*107*		*15 - 135*	*10/20/15 11:18*	*10/21/15 22:06*	*1*
2,4,6-Tribromophenol	*73*		*15 - 135*	*10/22/15 10:55*	*10/23/15 17:51*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/21/15 08:59	10/22/15 14:22	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/21/15 08:59	10/22/15 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*51 - 149*	*10/21/15 08:59*	*10/22/15 14:22*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112522-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: P93A-ROX-101515
Date Collected: 10/15/15 14:45
Date Received: 10/17/15 10:09

Lab Sample ID: 400-112522-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25000	10000	ug/L			10/23/15 02:32	1000
Acrolein	ND		20000	10000	ug/L			10/23/15 02:32	1000
Acrylonitrile	ND		10000	2800	ug/L			10/23/15 02:32	1000
Benzene	**260000**		1000	380	ug/L			10/23/15 02:32	1000
Bromobenzene	ND		1000	540	ug/L			10/23/15 02:32	1000
Bromochloromethane	ND		1000	520	ug/L			10/23/15 02:32	1000
Bromodichloromethane	ND	*	1000	500	ug/L			10/23/15 02:32	1000
Bromoform	ND		5000	710	ug/L			10/23/15 02:32	1000
Bromomethane	ND		1000	980	ug/L			10/23/15 02:32	1000
2-Butanone (MEK)	ND		25000	2600	ug/L			10/23/15 02:32	1000
Carbon disulfide	ND		1000	500	ug/L			10/23/15 02:32	1000
Carbon tetrachloride	ND	*	1000	500	ug/L			10/23/15 02:32	1000
Chlorobenzene	ND		1000	500	ug/L			10/23/15 02:32	1000
Dibromochloromethane	ND		1000	500	ug/L			10/23/15 02:32	1000
Chloroethane	ND		1000	760	ug/L			10/23/15 02:32	1000
2-Chloroethyl vinyl ether	ND		5000	2000	ug/L			10/23/15 02:32	1000
Chloroform	ND		1000	600	ug/L			10/23/15 02:32	1000
1-Chlorohexane	ND		1000	700	ug/L			10/23/15 02:32	1000
Chloromethane	ND		1000	830	ug/L			10/23/15 02:32	1000
cis-1,2-Dichloroethene	ND		1000	500	ug/L			10/23/15 02:32	1000
cis-1,3-Dichloropropene	ND		5000	500	ug/L			10/23/15 02:32	1000
1,2-Dichlorobenzene	ND		1000	500	ug/L			10/23/15 02:32	1000
1,3-Dichlorobenzene	ND		1000	540	ug/L			10/23/15 02:32	1000
1,4-Dichlorobenzene	ND		1000	640	ug/L			10/23/15 02:32	1000
Dichlorodifluoromethane	ND		1000	850	ug/L			10/23/15 02:32	1000
1,1-Dichloroethane	ND		1000	500	ug/L			10/23/15 02:32	1000
1,2-Dichloroethane	ND		1000	500	ug/L			10/23/15 02:32	1000
1,1-Dichloroethene	ND		1000	500	ug/L			10/23/15 02:32	1000
1,2-Dichloropropane	ND		1000	500	ug/L			10/23/15 02:32	1000
1,3-Dichloropropane	ND		1000	500	ug/L			10/23/15 02:32	1000
2,2-Dichloropropane	ND		1000	500	ug/L			10/23/15 02:32	1000
1,1-Dichloropropene	ND		1000	500	ug/L			10/23/15 02:32	1000
Ethylbenzene	ND		1000	500	ug/L			10/23/15 02:32	1000
Ethyl methacrylate	ND		1000	600	ug/L			10/23/15 02:32	1000
Hexachlorobutadiene	ND		5000	900	ug/L			10/23/15 02:32	1000
2-Hexanone	ND		25000	3100	ug/L			10/23/15 02:32	1000
Isopropylbenzene	ND		1000	530	ug/L			10/23/15 02:32	1000
Methylene bromide	ND		5000	590	ug/L			10/23/15 02:32	1000
Methylene chloride	ND		5000	3000	ug/L			10/23/15 02:32	1000
4-Methyl-2-pentanone (MIBK)	ND		25000	1800	ug/L			10/23/15 02:32	1000
Methyl tert-butyl ether	ND		1000	740	ug/L			10/23/15 02:32	1000
m-Xylene & p-Xylene	ND		5000	1600	ug/L			10/23/15 02:32	1000
Naphthalene	ND		1000	1000	ug/L			10/23/15 02:32	1000
n-Butylbenzene	ND		1000	760	ug/L			10/23/15 02:32	1000
N-Propylbenzene	ND		1000	690	ug/L			10/23/15 02:32	1000
o-Chlorotoluene	ND		1000	570	ug/L			10/23/15 02:32	1000
o-Xylene	ND		5000	600	ug/L			10/23/15 02:32	1000
p-Chlorotoluene	ND		1000	560	ug/L			10/23/15 02:32	1000
p-Isopropyltoluene	ND		1000	710	ug/L			10/23/15 02:32	1000

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112522-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: P93A-ROX-101515
Date Collected: 10/15/15 14:45
Date Received: 10/17/15 10:09

Lab Sample ID: 400-112522-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1000	700	ug/L			10/23/15 02:32	1000
Styrene	ND		1000	1000	ug/L			10/23/15 02:32	1000
tert-Butylbenzene	ND		1000	630	ug/L			10/23/15 02:32	1000
1,1,1,2-Tetrachloroethane	ND		1000	520	ug/L			10/23/15 02:32	1000
1,1,2,2-Tetrachloroethane	ND		1000	500	ug/L			10/23/15 02:32	1000
Tetrachloroethene	ND		1000	580	ug/L			10/23/15 02:32	1000
Toluene	ND		1000	700	ug/L			10/23/15 02:32	1000
trans-1,2-Dichloroethene	ND		1000	500	ug/L			10/23/15 02:32	1000
trans-1,3-Dichloropropene	ND		5000	500	ug/L			10/23/15 02:32	1000
1,2,3-Trichlorobenzene	ND		1000	700	ug/L			10/23/15 02:32	1000
1,2,4-Trichlorobenzene	ND		1000	820	ug/L			10/23/15 02:32	1000
1,1,1-Trichloroethane	ND	*	1000	500	ug/L			10/23/15 02:32	1000
1,1,2-Trichloroethane	ND		5000	500	ug/L			10/23/15 02:32	1000
Trichloroethene	ND		1000	500	ug/L			10/23/15 02:32	1000
Trichlorofluoromethane	ND		1000	520	ug/L			10/23/15 02:32	1000
1,2,3-Trichloropropane	ND		5000	840	ug/L			10/23/15 02:32	1000
1,2,4-Trimethylbenzene	ND		1000	820	ug/L			10/23/15 02:32	1000
1,3,5-Trimethylbenzene	ND		1000	560	ug/L			10/23/15 02:32	1000
Vinyl acetate	ND		25000	2000	ug/L			10/23/15 02:32	1000
Vinyl chloride	ND		1000	500	ug/L			10/23/15 02:32	1000
Xylenes, Total	ND		5000	600	ug/L			10/23/15 02:32	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*78 - 118*		*10/23/15 02:32*	*1000*
Dibromofluoromethane	*103*		*81 - 121*		*10/23/15 02:32*	*1000*
Toluene-d8 (Surr)	*91*		*80 - 120*		*10/23/15 02:32*	*1000*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.079**	J	0.20	0.020	ug/L		10/20/15 11:18	10/29/15 19:37	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 19:37	1
Anthracene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 19:37	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 19:37	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 19:37	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 19:37	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 19:37	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 19:37	1
Chrysene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 19:37	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 19:37	1
Fluoranthene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 19:37	1
Fluorene	**0.12**	J	0.20	0.021	ug/L		10/20/15 11:18	10/29/15 19:37	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 19:37	1
1-Methylnaphthalene	**4.1**		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 19:37	1
2-Methylnaphthalene	**1.6**		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 19:37	1
Phenanthrene	**0.086**	J	0.20	0.020	ug/L		10/20/15 11:18	10/29/15 19:37	1
Pyrene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*90*		*15 - 122*	*10/20/15 11:18*	*10/29/15 19:37*	*1*
Nitrobenzene-d5	*77*		*19 - 130*	*10/20/15 11:18*	*10/29/15 19:37*	*1*

Client Sample ID: P93A-ROX-101515

Date Collected: 10/15/15 14:45
Date Received: 10/17/15 10:09

Lab Sample ID: 400-112522-7

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	92		33 - 138	10/20/15 11:18	10/29/15 19:37	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	*	10	3.8	ug/L		10/20/15 11:18	10/21/15 22:44	1
Aniline	ND		10	3.8	ug/L		10/22/15 10:55	10/23/15 18:29	1
Benzenethiol	ND		10	1.7	ug/L		10/20/15 11:18	10/21/15 22:44	1
Benzoic acid	ND		30	7.3	ug/L		10/20/15 11:18	10/21/15 22:44	1
Benzyl alcohol	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 22:44	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/20/15 11:18	10/21/15 22:44	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/20/15 11:18	10/21/15 22:44	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/20/15 11:18	10/21/15 22:44	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/20/15 11:18	10/21/15 22:44	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/20/15 11:18	10/21/15 22:44	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/20/15 11:18	10/21/15 22:44	1
4-Chloroaniline	ND	*	10	3.4	ug/L		10/20/15 11:18	10/21/15 22:44	1
4-Chloroaniline	ND		10	3.4	ug/L		10/22/15 10:55	10/23/15 18:29	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/20/15 11:18	10/21/15 22:44	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/20/15 11:18	10/21/15 22:44	1
2-Chlorophenol	ND		10	2.2	ug/L		10/20/15 11:18	10/21/15 22:44	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 22:44	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/20/15 11:18	10/21/15 22:44	1
Dibenzofuran	ND		10	0.52	ug/L		10/20/15 11:18	10/21/15 22:44	1
3,3'-Dichlorobenzidine	ND	*	10	2.6	ug/L		10/20/15 11:18	10/21/15 22:44	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/22/15 10:55	10/23/15 18:29	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/20/15 11:18	10/21/15 22:44	1
Diethyl phthalate	ND		10	0.70	ug/L		10/20/15 11:18	10/21/15 22:44	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 22:44	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/20/15 11:18	10/21/15 22:44	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/20/15 11:18	10/21/15 22:44	1
4,6-Dinitro-2-methylphenol	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 22:44	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/20/15 11:18	10/21/15 22:44	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/20/15 11:18	10/21/15 22:44	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/20/15 11:18	10/21/15 22:44	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/20/15 11:18	10/21/15 22:44	1
1,4-Dioxane	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 22:44	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 22:44	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/20/15 11:18	10/21/15 22:44	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/20/15 11:18	10/21/15 22:44	1
Hexachloroethane	ND		10	4.2	ug/L		10/20/15 11:18	10/21/15 22:44	1
Indene	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 22:44	1
Isophorone	ND		10	0.57	ug/L		10/20/15 11:18	10/21/15 22:44	1
2-Methylphenol	ND		10	1.8	ug/L		10/20/15 11:18	10/21/15 22:44	1
3 & 4 Methylphenol	**2.1**	J	20	1.0	ug/L		10/20/15 11:18	10/21/15 22:44	1
2-Nitroaniline	ND		10	2.2	ug/L		10/20/15 11:18	10/21/15 22:44	1
3-Nitroaniline	ND	*	10	1.8	ug/L		10/20/15 11:18	10/21/15 22:44	1
3-Nitroaniline	ND		10	1.8	ug/L		10/22/15 10:55	10/23/15 18:29	1
4-Nitroaniline	ND		10	2.5	ug/L		10/20/15 11:18	10/21/15 22:44	1

Client Sample ID: P93A-ROX-101515

Date Collected: 10/15/15 14:45
Date Received: 10/17/15 10:09

Lab Sample ID: 400-112522-7

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	ND		10	0.55	ug/L		10/20/15 11:18	10/21/15 22:44	1
2-Nitrophenol	ND		10	0.65	ug/L		10/20/15 11:18	10/21/15 22:44	1
4-Nitrophenol	ND		10	2.1	ug/L		10/20/15 11:18	10/21/15 22:44	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 22:44	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/20/15 11:18	10/21/15 22:44	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/20/15 11:18	10/21/15 22:44	1
Pentachlorophenol	ND		20	1.8	ug/L		10/20/15 11:18	10/21/15 22:44	1
Phenol	**78**		10	2.6	ug/L		10/20/15 11:18	10/21/15 22:44	1
Pyridine	ND	*	10	3.2	ug/L		10/20/15 11:18	10/21/15 22:44	1
Pyridine	ND		10	3.2	ug/L		10/22/15 10:55	10/23/15 18:29	1
Quinoline	ND		10	6.0	ug/L		10/20/15 11:18	10/21/15 22:44	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/20/15 11:18	10/21/15 22:44	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 22:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*92*		*34 - 120*	*10/20/15 11:18*	*10/21/15 22:44*	*1*
2-Fluorobiphenyl	*70*		*34 - 120*	*10/22/15 10:55*	*10/23/15 18:29*	*1*
2-Fluorophenol	*67*		*10 - 120*	*10/20/15 11:18*	*10/21/15 22:44*	*1*
2-Fluorophenol	*50*		*10 - 120*	*10/22/15 10:55*	*10/23/15 18:29*	*1*
Nitrobenzene-d5	*95*		*27 - 120*	*10/20/15 11:18*	*10/21/15 22:44*	*1*
Nitrobenzene-d5	*75*		*27 - 120*	*10/22/15 10:55*	*10/23/15 18:29*	*1*
Phenol-d5	*75*		*10 - 120*	*10/20/15 11:18*	*10/21/15 22:44*	*1*
Phenol-d5	*55*		*10 - 120*	*10/22/15 10:55*	*10/23/15 18:29*	*1*
Terphenyl-d14	*87*		*53 - 125*	*10/20/15 11:18*	*10/21/15 22:44*	*1*
Terphenyl-d14	*46*	*X*	*53 - 125*	*10/22/15 10:55*	*10/23/15 18:29*	*1*
2,4,6-Tribromophenol	*107*		*15 - 135*	*10/20/15 11:18*	*10/21/15 22:44*	*1*
2,4,6-Tribromophenol	*69*		*15 - 135*	*10/22/15 10:55*	*10/23/15 18:29*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0054	ug/L		10/21/15 08:59	10/22/15 15:22	1
1,2-Dibromoethane	ND		0.020	0.0049	ug/L		10/21/15 08:59	10/22/15 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*87*		*51 - 149*	*10/21/15 08:59*	*10/22/15 15:22*	*1*

Client Sample ID: P93A-ROX-101515-DUP

Date Collected: 10/15/15 14:45
Date Received: 10/17/15 10:09

Lab Sample ID: 400-112522-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25000	10000	ug/L			10/23/15 02:58	1000
Acrolein	ND		20000	10000	ug/L			10/23/15 02:58	1000
Acrylonitrile	ND		10000	2800	ug/L			10/23/15 02:58	1000
Benzene	**250000**		1000	380	ug/L			10/23/15 02:58	1000
Bromobenzene	ND		1000	540	ug/L			10/23/15 02:58	1000
Bromochloromethane	ND		1000	520	ug/L			10/23/15 02:58	1000
Bromodichloromethane	ND	*	1000	500	ug/L			10/23/15 02:58	1000
Bromoform	ND		5000	710	ug/L			10/23/15 02:58	1000
Bromomethane	ND		1000	980	ug/L			10/23/15 02:58	1000
2-Butanone (MEK)	ND		25000	2600	ug/L			10/23/15 02:58	1000
Carbon disulfide	ND		1000	500	ug/L			10/23/15 02:58	1000
Carbon tetrachloride	ND	*	1000	500	ug/L			10/23/15 02:58	1000
Chlorobenzene	ND		1000	500	ug/L			10/23/15 02:58	1000
Dibromochloromethane	ND		1000	500	ug/L			10/23/15 02:58	1000
Chloroethane	ND		1000	760	ug/L			10/23/15 02:58	1000
2-Chloroethyl vinyl ether	ND		5000	2000	ug/L			10/23/15 02:58	1000
Chloroform	ND		1000	600	ug/L			10/23/15 02:58	1000
1-Chlorohexane	ND		1000	700	ug/L			10/23/15 02:58	1000
Chloromethane	ND		1000	830	ug/L			10/23/15 02:58	1000
cis-1,2-Dichloroethene	ND		1000	500	ug/L			10/23/15 02:58	1000
cis-1,3-Dichloropropene	ND		5000	500	ug/L			10/23/15 02:58	1000
1,2-Dichlorobenzene	ND		1000	500	ug/L			10/23/15 02:58	1000
1,3-Dichlorobenzene	ND		1000	540	ug/L			10/23/15 02:58	1000
1,4-Dichlorobenzene	ND		1000	640	ug/L			10/23/15 02:58	1000
Dichlorodifluoromethane	ND		1000	850	ug/L			10/23/15 02:58	1000
1,1-Dichloroethane	ND		1000	500	ug/L			10/23/15 02:58	1000
1,2-Dichloroethane	ND		1000	500	ug/L			10/23/15 02:58	1000
1,1-Dichloroethene	ND		1000	500	ug/L			10/23/15 02:58	1000
1,2-Dichloropropane	ND		1000	500	ug/L			10/23/15 02:58	1000
1,3-Dichloropropane	ND		1000	500	ug/L			10/23/15 02:58	1000
2,2-Dichloropropane	ND		1000	500	ug/L			10/23/15 02:58	1000
1,1-Dichloropropene	ND		1000	500	ug/L			10/23/15 02:58	1000
Ethylbenzene	ND		1000	500	ug/L			10/23/15 02:58	1000
Ethyl methacrylate	ND		1000	600	ug/L			10/23/15 02:58	1000
Hexachlorobutadiene	ND		5000	900	ug/L			10/23/15 02:58	1000
2-Hexanone	ND		25000	3100	ug/L			10/23/15 02:58	1000
Isopropylbenzene	ND		1000	530	ug/L			10/23/15 02:58	1000
Methylene bromide	ND		5000	590	ug/L			10/23/15 02:58	1000
Methylene chloride	ND		5000	3000	ug/L			10/23/15 02:58	1000
4-Methyl-2-pentanone (MIBK)	ND		25000	1800	ug/L			10/23/15 02:58	1000
Methyl tert-butyl ether	ND		1000	740	ug/L			10/23/15 02:58	1000
m-Xylene & p-Xylene	ND		5000	1600	ug/L			10/23/15 02:58	1000
Naphthalene	ND		1000	1000	ug/L			10/23/15 02:58	1000
n-Butylbenzene	ND		1000	760	ug/L			10/23/15 02:58	1000
N-Propylbenzene	ND		1000	690	ug/L			10/23/15 02:58	1000
o-Chlorotoluene	ND		1000	570	ug/L			10/23/15 02:58	1000
o-Xylene	ND		5000	600	ug/L			10/23/15 02:58	1000
p-Chlorotoluene	ND		1000	560	ug/L			10/23/15 02:58	1000
p-Isopropyltoluene	ND		1000	710	ug/L			10/23/15 02:58	1000

Client Sample ID: P93A-ROX-101515-DUP

Date Collected: 10/15/15 14:45
Date Received: 10/17/15 10:09

Lab Sample ID: 400-112522-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1000	700	ug/L			10/23/15 02:58	1000
Styrene	ND		1000	1000	ug/L			10/23/15 02:58	1000
tert-Butylbenzene	ND		1000	630	ug/L			10/23/15 02:58	1000
1,1,1,2-Tetrachloroethane	ND		1000	520	ug/L			10/23/15 02:58	1000
1,1,2,2-Tetrachloroethane	ND		1000	500	ug/L			10/23/15 02:58	1000
Tetrachloroethene	ND		1000	580	ug/L			10/23/15 02:58	1000
Toluene	ND		1000	700	ug/L			10/23/15 02:58	1000
trans-1,2-Dichloroethene	ND		1000	500	ug/L			10/23/15 02:58	1000
trans-1,3-Dichloropropene	ND		5000	500	ug/L			10/23/15 02:58	1000
1,2,3-Trichlorobenzene	ND		1000	700	ug/L			10/23/15 02:58	1000
1,2,4-Trichlorobenzene	ND		1000	820	ug/L			10/23/15 02:58	1000
1,1,1-Trichloroethane	ND	*	1000	500	ug/L			10/23/15 02:58	1000
1,1,2-Trichloroethane	ND		5000	500	ug/L			10/23/15 02:58	1000
Trichloroethene	ND		1000	500	ug/L			10/23/15 02:58	1000
Trichlorofluoromethane	ND		1000	520	ug/L			10/23/15 02:58	1000
1,2,3-Trichloropropane	ND		5000	840	ug/L			10/23/15 02:58	1000
1,2,4-Trimethylbenzene	ND		1000	820	ug/L			10/23/15 02:58	1000
1,3,5-Trimethylbenzene	ND		1000	560	ug/L			10/23/15 02:58	1000
Vinyl acetate	ND		25000	2000	ug/L			10/23/15 02:58	1000
Vinyl chloride	ND		1000	500	ug/L			10/23/15 02:58	1000
Xylenes, Total	ND		5000	600	ug/L			10/23/15 02:58	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*78 - 118*		*10/23/15 02:58*	*1000*
Dibromofluoromethane	*102*		*81 - 121*		*10/23/15 02:58*	*1000*
Toluene-d8 (Surr)	*93*		*80 - 120*		*10/23/15 02:58*	*1000*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.080**	**J**	0.20	0.020	ug/L		10/20/15 11:18	11/02/15 10:29	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/20/15 11:18	11/02/15 10:29	1
Anthracene	ND		0.20	0.020	ug/L		10/20/15 11:18	11/02/15 10:29	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/20/15 11:18	11/02/15 10:29	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/20/15 11:18	11/02/15 10:29	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/20/15 11:18	11/02/15 10:29	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/20/15 11:18	11/02/15 10:29	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/20/15 11:18	11/02/15 10:29	1
Chrysene	ND		0.20	0.040	ug/L		10/20/15 11:18	11/02/15 10:29	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/20/15 11:18	11/02/15 10:29	1
Fluoranthene	ND		0.20	0.020	ug/L		10/20/15 11:18	11/02/15 10:29	1
Fluorene	**0.13**	**J**	0.20	0.021	ug/L		10/20/15 11:18	11/02/15 10:29	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/20/15 11:18	11/02/15 10:29	1
1-Methylnaphthalene	**4.0**		0.20	0.020	ug/L		10/20/15 11:18	11/02/15 10:29	1
2-Methylnaphthalene	**1.6**		0.20	0.020	ug/L		10/20/15 11:18	11/02/15 10:29	1
Phenanthrene	**0.092**	**J**	0.20	0.020	ug/L		10/20/15 11:18	11/02/15 10:29	1
Pyrene	ND		0.20	0.020	ug/L		10/20/15 11:18	11/02/15 10:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*100*		*15 - 122*	*10/20/15 11:18*	*11/02/15 10:29*	*1*
Nitrobenzene-d5	*96*		*19 - 130*	*10/20/15 11:18*	*11/02/15 10:29*	*1*

Client Sample ID: P93A-ROX-101515-DUP

Date Collected: 10/15/15 14:45
Date Received: 10/17/15 10:09

Lab Sample ID: 400-112522-8

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*102*		*33 - 138*	*10/20/15 11:18*	*11/02/15 10:29*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	*	10	3.8	ug/L		10/20/15 11:18	10/21/15 23:22	1
Aniline	ND		10	3.8	ug/L		10/22/15 10:55	10/23/15 19:07	1
Benzenethiol	ND		10	1.7	ug/L		10/20/15 11:18	10/21/15 23:22	1
Benzoic acid	ND		30	7.3	ug/L		10/20/15 11:18	10/21/15 23:22	1
Benzyl alcohol	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 23:22	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/20/15 11:18	10/21/15 23:22	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/20/15 11:18	10/21/15 23:22	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/20/15 11:18	10/21/15 23:22	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/20/15 11:18	10/21/15 23:22	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/20/15 11:18	10/21/15 23:22	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/20/15 11:18	10/21/15 23:22	1
4-Chloroaniline	ND	*	10	3.4	ug/L		10/20/15 11:18	10/21/15 23:22	1
4-Chloroaniline	ND		10	3.4	ug/L		10/22/15 10:55	10/23/15 19:07	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/20/15 11:18	10/21/15 23:22	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/20/15 11:18	10/21/15 23:22	1
2-Chlorophenol	ND		10	2.2	ug/L		10/20/15 11:18	10/21/15 23:22	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 23:22	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/20/15 11:18	10/21/15 23:22	1
Dibenzofuran	ND		10	0.52	ug/L		10/20/15 11:18	10/21/15 23:22	1
3,3'-Dichlorobenzidine	ND	*	10	2.6	ug/L		10/20/15 11:18	10/21/15 23:22	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/22/15 10:55	10/23/15 19:07	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/20/15 11:18	10/21/15 23:22	1
Diethyl phthalate	ND		10	0.70	ug/L		10/20/15 11:18	10/21/15 23:22	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 23:22	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/20/15 11:18	10/21/15 23:22	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/20/15 11:18	10/21/15 23:22	1
4,6-Dinitro-2-methylphenol	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 23:22	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/20/15 11:18	10/21/15 23:22	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/20/15 11:18	10/21/15 23:22	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/20/15 11:18	10/21/15 23:22	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/20/15 11:18	10/21/15 23:22	1
1,4-Dioxane	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 23:22	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 23:22	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/20/15 11:18	10/21/15 23:22	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/20/15 11:18	10/21/15 23:22	1
Hexachloroethane	ND		10	4.2	ug/L		10/20/15 11:18	10/21/15 23:22	1
Indene	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 23:22	1
Isophorone	ND		10	0.57	ug/L		10/20/15 11:18	10/21/15 23:22	1
2-Methylphenol	ND		10	1.8	ug/L		10/20/15 11:18	10/21/15 23:22	1
3 & 4 Methylphenol	**2.3**	**J**	20	1.0	ug/L		10/20/15 11:18	10/21/15 23:22	1
2-Nitroaniline	ND		10	2.2	ug/L		10/20/15 11:18	10/21/15 23:22	1
3-Nitroaniline	ND	*	10	1.8	ug/L		10/20/15 11:18	10/21/15 23:22	1
3-Nitroaniline	ND		10	1.8	ug/L		10/22/15 10:55	10/23/15 19:07	1
4-Nitroaniline	ND		10	2.5	ug/L		10/20/15 11:18	10/21/15 23:22	1

Client Sample ID: P93A-ROX-101515-DUP

Date Collected: 10/15/15 14:45
Date Received: 10/17/15 10:09

Lab Sample ID: 400-112522-8

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	ND		10	0.55	ug/L		10/20/15 11:18	10/21/15 23:22	1
2-Nitrophenol	ND		10	0.65	ug/L		10/20/15 11:18	10/21/15 23:22	1
4-Nitrophenol	ND		10	2.1	ug/L		10/20/15 11:18	10/21/15 23:22	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 23:22	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/20/15 11:18	10/21/15 23:22	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/20/15 11:18	10/21/15 23:22	1
Pentachlorophenol	ND		20	1.8	ug/L		10/20/15 11:18	10/21/15 23:22	1
Phenol	**82**		10	2.6	ug/L		10/20/15 11:18	10/21/15 23:22	1
Pyridine	ND	*	10	3.2	ug/L		10/20/15 11:18	10/21/15 23:22	1
Pyridine	ND		10	3.2	ug/L		10/22/15 10:55	10/23/15 19:07	1
Quinoline	ND		10	6.0	ug/L		10/20/15 11:18	10/21/15 23:22	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/20/15 11:18	10/21/15 23:22	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 23:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*94*		*34 - 120*	*10/20/15 11:18*	*10/21/15 23:22*	*1*
2-Fluorobiphenyl	*70*		*34 - 120*	*10/22/15 10:55*	*10/23/15 19:07*	*1*
2-Fluorophenol	*73*		*10 - 120*	*10/20/15 11:18*	*10/21/15 23:22*	*1*
2-Fluorophenol	*61*		*10 - 120*	*10/22/15 10:55*	*10/23/15 19:07*	*1*
Nitrobenzene-d5	*101*		*27 - 120*	*10/20/15 11:18*	*10/21/15 23:22*	*1*
Nitrobenzene-d5	*78*		*27 - 120*	*10/22/15 10:55*	*10/23/15 19:07*	*1*
Phenol-d5	*88*		*10 - 120*	*10/20/15 11:18*	*10/21/15 23:22*	*1*
Phenol-d5	*68*		*10 - 120*	*10/22/15 10:55*	*10/23/15 19:07*	*1*
Terphenyl-d14	*100*		*53 - 125*	*10/20/15 11:18*	*10/21/15 23:22*	*1*
Terphenyl-d14	*56*		*53 - 125*	*10/22/15 10:55*	*10/23/15 19:07*	*1*
2,4,6-Tribromophenol	*124*		*15 - 135*	*10/20/15 11:18*	*10/21/15 23:22*	*1*
2,4,6-Tribromophenol	*86*		*15 - 135*	*10/22/15 10:55*	*10/23/15 19:07*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.029	0.0054	ug/L		10/21/15 08:59	10/22/15 15:51	1
1,2-Dibromoethane	ND		0.019	0.0049	ug/L		10/21/15 08:59	10/22/15 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*84*		*51 - 149*	*10/21/15 08:59*	*10/22/15 15:51*	*1*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

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

Glossary

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

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112522-1
SDG: Proj. 60400249-21563720.03004

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(78-118)	(81-121)	(80-120)
400-112438-A-2 MS	Matrix Spike	97	101	97
400-112438-A-2 MSD	Matrix Spike Duplicate	96	102	97
400-112522-1	TB-ROX-101515-8260 SS	95	103	93
400-112522-3	T12-ROX-101515	97	101	93
400-112522-4	P59-ROX-101515	95	101	92
400-112522-5	P93B-ROX-101515	94	97	96
400-112522-5 - DL	P93B-ROX-101515	92	96	96
400-112522-6	P93D-ROX-101515	96	103	93
400-112522-7	P93A-ROX-101515	93	103	91
400-112522-8	P93A-ROX-101515-DUP	93	102	93
490-89389-F-9 MS	Matrix Spike	96	105	93
490-89389-F-9 MSD	Matrix Spike Duplicate	95	104	94
LCS 400-280082/1002	Lab Control Sample	96	105	93
LCS 400-280323/1002	Lab Control Sample	96	101	97
MB 400-280082/4	Method Blank	94	104	93
MB 400-280323/4	Method Blank	95	98	98

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	Client Sample ID	(34-120)	(10-120)	(27-120)	(10-120)	(53-125)	(15-135)
400-112522-3	T12-ROX-101515	72	57	93	63	83	86
400-112522-3	T12-ROX-101515	69	43	74	47	52 X	55
400-112522-4	P59-ROX-101515	44	0 X	116	0 X	97	92
400-112522-4	P59-ROX-101515	66	46	77	59	34 X	66
400-112522-5	P93B-ROX-101515	69	59	84	71	98	105
400-112522-5	P93B-ROX-101515	62	53	64	57	42 X	73
400-112522-6	P93D-ROX-101515	93	68	98	81	103	107
400-112522-6	P93D-ROX-101515	72	54	76	60	63	73
400-112522-7	P93A-ROX-101515	92	67	95	75	87	107
400-112522-7	P93A-ROX-101515	70	50	75	55	46 X	69
400-112522-8	P93A-ROX-101515-DUP	94	73	101	88	100	124
400-112522-8	P93A-ROX-101515-DUP	70	61	78	68	56	86
LCS 400-279637/2-A	Lab Control Sample	90	74	93	84	95	102
LCS 400-280032/2-A	Lab Control Sample	82	70	79	78	92	89
LCSD 400-279637/3-A	Lab Control Sample Dup	95	74	97	79	101	103
LCSD 400-280032/3-A	Lab Control Sample Dup	81	71	76	76	89	87
MB 400-279637/1-A	Method Blank	83	56	87	77	101	86
MB 400-280032/1-A	Method Blank	82	54	80	73	88	83

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol

NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

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

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPH
Lab Sample ID	Client Sample ID	(15-122)	(19-130)	(33-138)
400-112522-3	T12-ROX-101515	62	75	72
400-112522-4	P59-ROX-101515		117	78
400-112522-4	P59-ROX-101515	54		
400-112522-5	P93B-ROX-101515	62	71	86
400-112522-6	P93D-ROX-101515	87	78	107
400-112522-7	P93A-ROX-101515	90	77	92
400-112522-8	P93A-ROX-101515-DUP	100	96	102
LCS 400-279637/2-A	Lab Control Sample	85	94	88
LCSD 400-279637/3-A	Lab Control Sample Dup	84	92	87
MB 400-279637/1-A	Method Blank	73	79	95

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5
TPH = Terphenyl-d14

Method: 8011 - EDB and DBCP in Water by Microextraction

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

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(51-149)
400-112522-2	TB-ROX-101515-8011 SS	106
400-112522-3	T12-ROX-101515	111
400-112522-4	P59-ROX-101515	101
400-112522-5	P93B-ROX-101515	87
400-112522-6	P93D-ROX-101515	91
400-112522-7	P93A-ROX-101515	87
400-112522-8	P93A-ROX-101515-DUP	84
LCS 400-279804/2-A	Lab Control Sample	103
LCSD 400-279804/3-A	Lab Control Sample Dup	109
MB 400-279804/1-A	Method Blank	103

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112522-1
SDG: Proj. 60400249-21563720.03004

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270C	SemIvolatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL PEN
8011	EDB and DBCP in Water by Microextraction	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Client Sample ID: TB-ROX-101515-8260 SS

Lab Sample ID: 400-112522-1
Matrix: Water

Date Collected: 10/15/15 00:00
Date Received: 10/17/15 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	280082	10/22/15 22:40	CLN	TAL PEN

Client Sample ID: TB-ROX-101515-8011 SS

Lab Sample ID: 400-112522-2
Matrix: Water

Date Collected: 10/15/15 00:00
Date Received: 10/17/15 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			33.8 mL	35 mL	279804	10/21/15 08:59	AM	TAL PEN
Total/NA	Analysis	8011		1	33.8 mL	35 mL	279996	10/22/15 12:23	AM	TAL PEN

Client Sample ID: T12-ROX-101515

Lab Sample ID: 400-112522-3
Matrix: Water

Date Collected: 10/15/15 10:10
Date Received: 10/17/15 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	5 mL	5 mL	280082	10/23/15 01:15	CLN	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	279755	10/21/15 20:13	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C		5	1000 mL	1 mL	280154	10/23/15 15:57	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	281055	10/29/15 21:53	CEP	TAL PEN
Total/NA	Prep	8011			36 mL	35 mL	279804	10/21/15 08:59	AM	TAL PEN
Total/NA	Analysis	8011		1	36 mL	35 mL	279996	10/22/15 12:53	AM	TAL PEN

Client Sample ID: P59-ROX-101515

Lab Sample ID: 400-112522-4
Matrix: Water

Date Collected: 10/15/15 11:10
Date Received: 10/17/15 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	5 mL	5 mL	280082	10/23/15 01:41	CLN	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	279755	10/21/15 20:50	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C		5	1000 mL	1 mL	280154	10/23/15 16:35	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	281055	10/29/15 22:30	CEP	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C LL		10	1000 mL	1 mL	281228	10/30/15 14:10	CEP	TAL PEN
Total/NA	Prep	8011			36.1 mL	35 mL	279804	10/21/15 08:59	AM	TAL PEN
Total/NA	Analysis	8011		1	36.1 mL	35 mL	279996	10/22/15 13:22	AM	TAL PEN

Client Sample ID: P93B-ROX-101515

Date Collected: 10/15/15 10:45
Date Received: 10/17/15 10:09

Lab Sample ID: 400-112522-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2500	5 mL	5 mL	280323	10/24/15 11:27	CLN	TAL PEN
Total/NA	Analysis	8260B	DL	5000	5 mL	5 mL	280323	10/24/15 19:55	CLN	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	279755	10/21/15 21:28	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280154	10/23/15 17:13	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C		5	1000 mL	1 mL	280298	10/26/15 18:25	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	281060	10/29/15 18:27	CEP	TAL PEN
Total/NA	Prep	8011			33.1 mL	35 mL	279804	10/21/15 08:59	AM	TAL PEN
Total/NA	Analysis	8011		1	33.1 mL	35 mL	279996	10/22/15 13:52	AM	TAL PEN

Client Sample ID: P93D-ROX-101515

Date Collected: 10/15/15 14:15
Date Received: 10/17/15 10:09

Lab Sample ID: 400-112522-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		100	5 mL	5 mL	280082	10/23/15 02:07	CLN	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	279755	10/21/15 22:06	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280154	10/23/15 17:51	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	281060	10/29/15 19:02	CEP	TAL PEN
Total/NA	Prep	8011			35.3 mL	35 mL	279804	10/21/15 08:59	AM	TAL PEN
Total/NA	Analysis	8011		1	35.3 mL	35 mL	279996	10/22/15 14:22	AM	TAL PEN

Client Sample ID: P93A-ROX-101515

Date Collected: 10/15/15 14:45
Date Received: 10/17/15 10:09

Lab Sample ID: 400-112522-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1000	5 mL	5 mL	280082	10/23/15 02:32	CLN	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	279755	10/21/15 22:44	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280154	10/23/15 18:29	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	281060	10/29/15 19:37	CEP	TAL PEN
Total/NA	Prep	8011			35.4 mL	35 mL	279804	10/21/15 08:59	AM	TAL PEN
Total/NA	Analysis	8011		1	35.4 mL	35 mL	279996	10/22/15 15:22	AM	TAL PEN

Client Sample ID: P93A-ROX-101515-DUP

Lab Sample ID: 400-112522-8

Date Collected: 10/15/15 14:45
Matrix: Water
Date Received: 10/17/15 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1000	5 mL	5 mL	280082	10/23/15 02:58	CLN	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	279755	10/21/15 23:22	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280154	10/23/15 19:07	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	281459	11/02/15 10:29	CEP	TAL PEN
Total/NA	Prep	8011			35.9 mL	35 mL	279804	10/21/15 08:59	AM	TAL PEN
Total/NA	Analysis	8011		1	35.9 mL	35 mL	279996	10/22/15 15:51	AM	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-279637/2-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	279755	10/21/15 15:46	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C LL		5	1000 mL	1 mL	281055	10/29/15 12:30	CEP	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-279804/2-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	279804	10/21/15 08:59	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	279996	10/22/15 10:24	AM	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-280032/2-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280147	10/23/15 16:33	AJR	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-280082/1002

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	280082	10/22/15 16:15	CLN	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-280323/1002

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	280323	10/24/15 09:21	CLN	TAL PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-279637/3-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	279755	10/21/15 16:25	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C LL		5	1000 mL	1 mL	281055	10/29/15 13:07	CEP	TAL PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-279804/3-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	279804	10/21/15 08:59	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	279996	10/22/15 10:54	AM	TAL PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-280032/3-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280147	10/23/15 17:12	AJR	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-279637/1-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	279755	10/21/15 15:08	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	279637	10/20/15 11:18	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	281055	10/29/15 11:52	CEP	TAL PEN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112522-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: Method Blank

Lab Sample ID: MB 400-279804/1-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	279804	10/21/15 08:59	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	279996	10/22/15 09:54	AM	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-280032/1-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280147	10/23/15 15:54	AJR	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-280082/4

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	280082	10/22/15 17:17	CLN	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-280323/4

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	280323	10/24/15 10:11	CLN	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

GC/MS VOA

Analysis Batch: 280082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112522-1	TB-ROX-101515-8260 SS	Total/NA	Water	8260B	
400-112522-3	T12-ROX-101515	Total/NA	Water	8260B	
400-112522-4	P59-ROX-101515	Total/NA	Water	8260B	
400-112522-6	P93D-ROX-101515	Total/NA	Water	8260B	
400-112522-7	P93A-ROX-101515	Total/NA	Water	8260B	
400-112522-8	P93A-ROX-101515-DUP	Total/NA	Water	8260B	
LCS 400-280082/1002	Lab Control Sample	Total/NA	Water	8260B	
MB 400-280082/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 280323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112522-5	P93B-ROX-101515	Total/NA	Water	8260B	
400-112522-5 - DL	P93B-ROX-101515	Total/NA	Water	8260B	
LCS 400-280323/1002	Lab Control Sample	Total/NA	Water	8260B	
MB 400-280323/4	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 279637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112522-3	T12-ROX-101515	Total/NA	Water	3520C	
400-112522-4	P59-ROX-101515	Total/NA	Water	3520C	
400-112522-5	P93B-ROX-101515	Total/NA	Water	3520C	
400-112522-6	P93D-ROX-101515	Total/NA	Water	3520C	
400-112522-7	P93A-ROX-101515	Total/NA	Water	3520C	
400-112522-8	P93A-ROX-101515-DUP	Total/NA	Water	3520C	
LCS 400-279637/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-279637/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 400-279637/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 279755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112522-3	T12-ROX-101515	Total/NA	Water	8270C	279637
400-112522-4	P59-ROX-101515	Total/NA	Water	8270C	279637
400-112522-5	P93B-ROX-101515	Total/NA	Water	8270C	279637
400-112522-6	P93D-ROX-101515	Total/NA	Water	8270C	279637
400-112522-7	P93A-ROX-101515	Total/NA	Water	8270C	279637
400-112522-8	P93A-ROX-101515-DUP	Total/NA	Water	8270C	279637
LCS 400-279637/2-A	Lab Control Sample	Total/NA	Water	8270C	279637
LCSD 400-279637/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	279637
MB 400-279637/1-A	Method Blank	Total/NA	Water	8270C	279637

Prep Batch: 280032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112522-3	T12-ROX-101515	Total/NA	Water	3520C	
400-112522-4	P59-ROX-101515	Total/NA	Water	3520C	
400-112522-5	P93B-ROX-101515	Total/NA	Water	3520C	
400-112522-6	P93D-ROX-101515	Total/NA	Water	3520C	
400-112522-7	P93A-ROX-101515	Total/NA	Water	3520C	
400-112522-8	P93A-ROX-101515-DUP	Total/NA	Water	3520C	

GC/MS Semi VOA (Continued)

Prep Batch: 280032 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-280032/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-280032/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 400-280032/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 280147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-280032/2-A	Lab Control Sample	Total/NA	Water	8270C	280032
LCSD 400-280032/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	280032
MB 400-280032/1-A	Method Blank	Total/NA	Water	8270C	280032

Analysis Batch: 280154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112522-3	T12-ROX-101515	Total/NA	Water	8270C	280032
400-112522-4	P59-ROX-101515	Total/NA	Water	8270C	280032
400-112522-5	P93B-ROX-101515	Total/NA	Water	8270C	280032
400-112522-6	P93D-ROX-101515	Total/NA	Water	8270C	280032
400-112522-7	P93A-ROX-101515	Total/NA	Water	8270C	280032
400-112522-8	P93A-ROX-101515-DUP	Total/NA	Water	8270C	280032

Analysis Batch: 280298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112522-5	P93B-ROX-101515	Total/NA	Water	8270C	279637

Analysis Batch: 281055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112522-3	T12-ROX-101515	Total/NA	Water	8270C LL	279637
400-112522-4	P59-ROX-101515	Total/NA	Water	8270C LL	279637
LCS 400-279637/2-A	Lab Control Sample	Total/NA	Water	8270C LL	279637
LCSD 400-279637/3-A	Lab Control Sample Dup	Total/NA	Water	8270C LL	279637
MB 400-279637/1-A	Method Blank	Total/NA	Water	8270C LL	279637

Analysis Batch: 281060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112522-5	P93B-ROX-101515	Total/NA	Water	8270C LL	279637
400-112522-6	P93D-ROX-101515	Total/NA	Water	8270C LL	279637
400-112522-7	P93A-ROX-101515	Total/NA	Water	8270C LL	279637

Analysis Batch: 281228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112522-4	P59-ROX-101515	Total/NA	Water	8270C LL	279637

Analysis Batch: 281459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112522-8	P93A-ROX-101515-DUP	Total/NA	Water	8270C LL	279637

GC Semi VOA

Prep Batch: 279804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112522-2	TB-ROX-101515-8011 SS	Total/NA	Water	8011	

GC Semi VOA (Continued)

Prep Batch: 279804 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112522-3	T12-ROX-101515	Total/NA	Water	8011	
400-112522-4	P59-ROX-101515	Total/NA	Water	8011	
400-112522-5	P93B-ROX-101515	Total/NA	Water	8011	
400-112522-6	P93D-ROX-101515	Total/NA	Water	8011	
400-112522-7	P93A-ROX-101515	Total/NA	Water	8011	
400-112522-8	P93A-ROX-101515-DUP	Total/NA	Water	8011	
LCS 400-279804/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 400-279804/3-A	Lab Control Sample Dup	Total/NA	Water	8011	
MB 400-279804/1-A	Method Blank	Total/NA	Water	8011	

Analysis Batch: 279996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112522-2	TB-ROX-101515-8011 SS	Total/NA	Water	8011	279804
400-112522-3	T12-ROX-101515	Total/NA	Water	8011	279804
400-112522-4	P59-ROX-101515	Total/NA	Water	8011	279804
400-112522-5	P93B-ROX-101515	Total/NA	Water	8011	279804
400-112522-6	P93D-ROX-101515	Total/NA	Water	8011	279804
400-112522-7	P93A-ROX-101515	Total/NA	Water	8011	279804
400-112522-8	P93A-ROX-101515-DUP	Total/NA	Water	8011	279804
LCS 400-279804/2-A	Lab Control Sample	Total/NA	Water	8011	279804
LCSD 400-279804/3-A	Lab Control Sample Dup	Total/NA	Water	8011	279804
MB 400-279804/1-A	Method Blank	Total/NA	Water	8011	279804

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

Lab Sample ID: MB 400-280082/4
Matrix: Water
Analysis Batch: 280082

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/22/15 17:17	1
Acrolein	ND		20	10	ug/L			10/22/15 17:17	1
Acrylonitrile	ND		10	2.8	ug/L			10/22/15 17:17	1
Benzene	ND		1.0	0.38	ug/L			10/22/15 17:17	1
Bromobenzene	ND		1.0	0.54	ug/L			10/22/15 17:17	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/22/15 17:17	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/22/15 17:17	1
Bromoform	ND		5.0	0.71	ug/L			10/22/15 17:17	1
Bromomethane	ND		1.0	0.98	ug/L			10/22/15 17:17	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/22/15 17:17	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/22/15 17:17	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/22/15 17:17	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/22/15 17:17	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/22/15 17:17	1
Chloroethane	ND		1.0	0.76	ug/L			10/22/15 17:17	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/22/15 17:17	1
Chloroform	ND		1.0	0.60	ug/L			10/22/15 17:17	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/22/15 17:17	1
Chloromethane	ND		1.0	0.83	ug/L			10/22/15 17:17	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 17:17	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/15 17:17	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/22/15 17:17	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/22/15 17:17	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/22/15 17:17	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/22/15 17:17	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/22/15 17:17	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/22/15 17:17	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 17:17	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 17:17	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 17:17	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 17:17	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/22/15 17:17	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/22/15 17:17	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/22/15 17:17	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/22/15 17:17	1
2-Hexanone	ND		25	3.1	ug/L			10/22/15 17:17	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/22/15 17:17	1
Methylene bromide	ND		5.0	0.59	ug/L			10/22/15 17:17	1
Methylene chloride	ND		5.0	3.0	ug/L			10/22/15 17:17	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/22/15 17:17	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/22/15 17:17	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/22/15 17:17	1
Naphthalene	ND		1.0	1.0	ug/L			10/22/15 17:17	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/22/15 17:17	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/22/15 17:17	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/22/15 17:17	1
o-Xylene	ND		5.0	0.60	ug/L			10/22/15 17:17	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/22/15 17:17	1

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

Lab Sample ID: MB 400-280082/4
Matrix: Water
Analysis Batch: 280082

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/22/15 17:17	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/22/15 17:17	1
Styrene	ND		1.0	1.0	ug/L			10/22/15 17:17	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/22/15 17:17	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/22/15 17:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/22/15 17:17	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/22/15 17:17	1
Toluene	ND		1.0	0.70	ug/L			10/22/15 17:17	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 17:17	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/15 17:17	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/22/15 17:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/22/15 17:17	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/22/15 17:17	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/22/15 17:17	1
Trichloroethene	ND		1.0	0.50	ug/L			10/22/15 17:17	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/22/15 17:17	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/22/15 17:17	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/22/15 17:17	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/22/15 17:17	1
Vinyl acetate	ND		25	2.0	ug/L			10/22/15 17:17	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/22/15 17:17	1
Xylenes, Total	ND		10	1.6	ug/L			10/22/15 17:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*78 - 118*		*10/22/15 17:17*	*1*
Dibromofluoromethane	*104*		*81 - 121*		*10/22/15 17:17*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*10/22/15 17:17*	*1*

Lab Sample ID: LCS 400-280082/1002
Matrix: Water
Analysis Batch: 280082

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	219		ug/L		110	43 - 160
Acrolein	500	470		ug/L		94	38 - 160
Acrylonitrile	500	472		ug/L		94	64 - 142
Benzene	50.0	57.7		ug/L		115	70 - 130
Bromobenzene	50.0	41.4		ug/L		83	70 - 132
Bromochloromethane	50.0	58.5		ug/L		117	70 - 130
Bromodichloromethane	50.0	68.9	*	ug/L		138	67 - 133
Bromoform	50.0	49.4		ug/L		99	57 - 140
Bromomethane	50.0	65.8		ug/L		132	10 - 160
2-Butanone (MEK)	200	236		ug/L		118	61 - 145
Carbon disulfide	50.0	62.4		ug/L		125	61 - 137
Carbon tetrachloride	50.0	71.6	*	ug/L		143	61 - 137
Chlorobenzene	50.0	54.1		ug/L		108	70 - 130
Dibromochloromethane	50.0	60.1		ug/L		120	67 - 135
Chloroethane	50.0	48.7		ug/L		97	55 - 141

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

Lab Sample ID: LCS 400-280082/1002
Matrix: Water
Analysis Batch: 280082

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloroethyl vinyl ether	50.0	56.7		ug/L		113	10 - 160
Chloroform	50.0	59.9		ug/L		120	69 - 130
1-Chlorohexane	50.0	53.7		ug/L		107	69 - 130
Chloromethane	50.0	46.2		ug/L		92	58 - 137
cis-1,2-Dichloroethene	50.0	58.3		ug/L		117	68 - 130
cis-1,3-Dichloropropene	50.0	63.9		ug/L		128	69 - 132
1,2-Dichlorobenzene	50.0	43.1		ug/L		86	67 - 130
1,3-Dichlorobenzene	50.0	44.2		ug/L		88	70 - 130
1,4-Dichlorobenzene	50.0	50.1		ug/L		100	70 - 130
Dichlorodifluoromethane	50.0	58.1		ug/L		116	41 - 146
1,1-Dichloroethane	50.0	57.3		ug/L		115	70 - 130
1,2-Dichloroethane	50.0	60.4		ug/L		121	69 - 130
1,1-Dichloroethene	50.0	58.1		ug/L		116	63 - 134
1,2-Dichloropropane	50.0	54.9		ug/L		110	70 - 130
1,3-Dichloropropane	50.0	53.3		ug/L		107	70 - 130
2,2-Dichloropropane	50.0	65.6		ug/L		131	52 - 135
1,1-Dichloropropene	50.0	62.6		ug/L		125	70 - 130
Ethylbenzene	50.0	57.7		ug/L		115	70 - 130
Ethyl methacrylate	50.0	56.5		ug/L		113	68 - 130
Hexachlorobutadiene	50.0	42.3		ug/L		85	53 - 140
2-Hexanone	200	191		ug/L		95	65 - 137
Isopropylbenzene	50.0	57.9		ug/L		116	70 - 130
Methylene bromide	50.0	59.4		ug/L		119	70 - 130
Methylene chloride	50.0	56.1		ug/L		112	66 - 135
4-Methyl-2-pentanone (MIBK)	200	213		ug/L		107	69 - 138
Methyl tert-butyl ether	50.0	61.0		ug/L		122	66 - 130
m-Xylene & p-Xylene	50.0	58.9		ug/L		118	70 - 130
Naphthalene	50.0	42.4		ug/L		85	47 - 149
n-Butylbenzene	50.0	46.6		ug/L		93	67 - 130
N-Propylbenzene	50.0	49.8		ug/L		100	70 - 130
o-Chlorotoluene	50.0	48.3		ug/L		97	70 - 130
o-Xylene	50.0	59.3		ug/L		119	70 - 130
p-Chlorotoluene	50.0	49.6		ug/L		99	70 - 130
p-Isopropyltoluene	50.0	50.6		ug/L		101	65 - 130
sec-Butylbenzene	50.0	48.0		ug/L		96	66 - 130
Styrene	50.0	56.1		ug/L		112	70 - 130
tert-Butylbenzene	50.0	49.5		ug/L		99	64 - 139
1,1,1,2-Tetrachloroethane	50.0	60.4		ug/L		121	67 - 131
1,1,2,2-Tetrachloroethane	50.0	43.6		ug/L		87	70 - 131
Tetrachloroethene	50.0	48.3		ug/L		97	65 - 130
Toluene	50.0	54.9		ug/L		110	70 - 130
trans-1,2-Dichloroethene	50.0	58.2		ug/L		116	70 - 130
trans-1,3-Dichloropropene	50.0	54.4		ug/L		109	63 - 130
1,2,3-Trichlorobenzene	50.0	42.5		ug/L		85	60 - 138
1,2,4-Trichlorobenzene	50.0	41.7		ug/L		83	60 - 140
1,1,1-Trichloroethane	50.0	67.9	*	ug/L		136	68 - 130
1,1,2-Trichloroethane	50.0	52.9		ug/L		106	70 - 130
Trichloroethene	50.0	59.4		ug/L		119	70 - 130

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

Lab Sample ID: LCS 400-280082/1002
Matrix: Water
Analysis Batch: 280082

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	56.6		ug/L		113	65 - 138
1,2,3-Trichloropropane	50.0	46.1		ug/L		92	70 - 130
1,2,4-Trimethylbenzene	50.0	48.8		ug/L		98	70 - 130
1,3,5-Trimethylbenzene	50.0	47.9		ug/L		96	69 - 130
Vinyl acetate	100	109		ug/L		109	26 - 160
Vinyl chloride	50.0	52.1		ug/L		104	59 - 136
Xylenes, Total	100	118		ug/L		118	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*78 - 118*
Dibromofluoromethane	*105*		*81 - 121*
Toluene-d8 (Surr)	*93*		*80 - 120*

Lab Sample ID: MB 400-280323/4
Matrix: Water
Analysis Batch: 280323

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/24/15 10:11	1
Acrolein	ND		20	10	ug/L			10/24/15 10:11	1
Acrylonitrile	ND		10	2.8	ug/L			10/24/15 10:11	1
Benzene	ND		1.0	0.38	ug/L			10/24/15 10:11	1
Bromobenzene	ND		1.0	0.54	ug/L			10/24/15 10:11	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/24/15 10:11	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/24/15 10:11	1
Bromoform	ND		5.0	0.71	ug/L			10/24/15 10:11	1
Bromomethane	ND		1.0	0.98	ug/L			10/24/15 10:11	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/24/15 10:11	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/24/15 10:11	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/24/15 10:11	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/24/15 10:11	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/24/15 10:11	1
Chloroethane	ND		1.0	0.76	ug/L			10/24/15 10:11	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/24/15 10:11	1
Chloroform	ND		1.0	0.60	ug/L			10/24/15 10:11	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/24/15 10:11	1
Chloromethane	ND		1.0	0.83	ug/L			10/24/15 10:11	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/24/15 10:11	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/24/15 10:11	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/24/15 10:11	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/24/15 10:11	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/24/15 10:11	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/24/15 10:11	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/24/15 10:11	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/24/15 10:11	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/24/15 10:11	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/24/15 10:11	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/24/15 10:11	1

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

Lab Sample ID: MB 400-280323/4
Matrix: Water
Analysis Batch: 280323

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/24/15 10:11	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/24/15 10:11	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/24/15 10:11	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/24/15 10:11	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/24/15 10:11	1
2-Hexanone	ND		25	3.1	ug/L			10/24/15 10:11	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/24/15 10:11	1
Methylene bromide	ND		5.0	0.59	ug/L			10/24/15 10:11	1
Methylene chloride	ND		5.0	3.0	ug/L			10/24/15 10:11	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/24/15 10:11	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/24/15 10:11	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/24/15 10:11	1
Naphthalene	ND		1.0	1.0	ug/L			10/24/15 10:11	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/24/15 10:11	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/24/15 10:11	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/24/15 10:11	1
o-Xylene	ND		5.0	0.60	ug/L			10/24/15 10:11	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/24/15 10:11	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/24/15 10:11	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/24/15 10:11	1
Styrene	ND		1.0	1.0	ug/L			10/24/15 10:11	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/24/15 10:11	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/24/15 10:11	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/24/15 10:11	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/24/15 10:11	1
Toluene	ND		1.0	0.70	ug/L			10/24/15 10:11	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/24/15 10:11	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/24/15 10:11	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/24/15 10:11	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/24/15 10:11	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/24/15 10:11	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/24/15 10:11	1
Trichloroethene	ND		1.0	0.50	ug/L			10/24/15 10:11	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/24/15 10:11	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/24/15 10:11	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/24/15 10:11	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/24/15 10:11	1
Vinyl acetate	ND		25	2.0	ug/L			10/24/15 10:11	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/24/15 10:11	1
Xylenes, Total	ND		10	1.6	ug/L			10/24/15 10:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*78 - 118*		*10/24/15 10:11*	*1*
Dibromofluoromethane	*98*		*81 - 121*		*10/24/15 10:11*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/24/15 10:11*	*1*

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

Lab Sample ID: LCS 400-280323/1002
Matrix: Water
Analysis Batch: 280323

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	218		ug/L		109	43 - 160
Acrolein	500	492		ug/L		98	38 - 160
Acrylonitrile	500	481		ug/L		96	64 - 142
Benzene	50.0	52.1		ug/L		104	70 - 130
Bromobenzene	50.0	42.0		ug/L		84	70 - 132
Bromochloromethane	50.0	51.6		ug/L		103	70 - 130
Bromodichloromethane	50.0	59.9		ug/L		120	67 - 133
Bromoform	50.0	48.6		ug/L		97	57 - 140
Bromomethane	50.0	63.3		ug/L		127	10 - 160
2-Butanone (MEK)	200	235		ug/L		118	61 - 145
Carbon disulfide	50.0	54.5		ug/L		109	61 - 137
Carbon tetrachloride	50.0	61.0		ug/L		122	61 - 137
Chlorobenzene	50.0	53.2		ug/L		106	70 - 130
Dibromochloromethane	50.0	58.1		ug/L		116	67 - 135
Chloroethane	50.0	46.9		ug/L		94	55 - 141
2-Chloroethyl vinyl ether	50.0	55.5		ug/L		111	10 - 160
Chloroform	50.0	52.7		ug/L		105	69 - 130
1-Chlorohexane	50.0	52.5		ug/L		105	69 - 130
Chloromethane	50.0	57.6		ug/L		115	58 - 137
cis-1,2-Dichloroethene	50.0	53.3		ug/L		107	68 - 130
cis-1,3-Dichloropropene	50.0	57.4		ug/L		115	69 - 132
1,2-Dichlorobenzene	50.0	43.1		ug/L		86	67 - 130
1,3-Dichlorobenzene	50.0	43.6		ug/L		87	70 - 130
1,4-Dichlorobenzene	50.0	47.7		ug/L		95	70 - 130
Dichlorodifluoromethane	50.0	95.7	*	ug/L		191	41 - 146
1,1-Dichloroethane	50.0	52.3		ug/L		105	70 - 130
1,2-Dichloroethane	50.0	54.4		ug/L		109	69 - 130
1,1-Dichloroethene	50.0	53.0		ug/L		106	63 - 134
1,2-Dichloropropane	50.0	49.5		ug/L		99	70 - 130
1,3-Dichloropropane	50.0	54.8		ug/L		110	70 - 130
2,2-Dichloropropane	50.0	58.5		ug/L		117	52 - 135
1,1-Dichloropropene	50.0	55.3		ug/L		111	70 - 130
Ethylbenzene	50.0	55.4		ug/L		111	70 - 130
Ethyl methacrylate	50.0	57.9		ug/L		116	68 - 130
Hexachlorobutadiene	50.0	39.1		ug/L		78	53 - 140
2-Hexanone	200	207		ug/L		103	65 - 137
Isopropylbenzene	50.0	54.6		ug/L		109	70 - 130
Methylene bromide	50.0	54.6		ug/L		109	70 - 130
Methylene chloride	50.0	51.8		ug/L		104	66 - 135
4-Methyl-2-pentanone (MIBK)	200	210		ug/L		105	69 - 138
Methyl tert-butyl ether	50.0	56.4		ug/L		113	66 - 130
m-Xylene & p-Xylene	50.0	56.3		ug/L		113	70 - 130
Naphthalene	50.0	43.7		ug/L		87	47 - 149
n-Butylbenzene	50.0	43.5		ug/L		87	67 - 130
N-Propylbenzene	50.0	48.6		ug/L		97	70 - 130
o-Chlorotoluene	50.0	47.3		ug/L		95	70 - 130
o-Xylene	50.0	56.3		ug/L		113	70 - 130
p-Chlorotoluene	50.0	49.0		ug/L		98	70 - 130

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

Lab Sample ID: LCS 400-280323/1002
Matrix: Water
Analysis Batch: 280323

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
p-Isopropyltoluene	50.0	48.5		ug/L		97	65 - 130
sec-Butylbenzene	50.0	46.7		ug/L		93	66 - 130
Styrene	50.0	53.8		ug/L		108	70 - 130
tert-Butylbenzene	50.0	48.1		ug/L		96	64 - 139
1,1,1,2-Tetrachloroethane	50.0	57.6		ug/L		115	67 - 131
1,1,2,2-Tetrachloroethane	50.0	48.4		ug/L		97	70 - 131
Tetrachloroethene	50.0	46.9		ug/L		94	65 - 130
Toluene	50.0	53.2		ug/L		106	70 - 130
trans-1,2-Dichloroethene	50.0	53.2		ug/L		106	70 - 130
trans-1,3-Dichloropropene	50.0	52.5		ug/L		105	63 - 130
1,2,3-Trichlorobenzene	50.0	41.2		ug/L		82	60 - 138
1,2,4-Trichlorobenzene	50.0	40.0		ug/L		80	60 - 140
1,1,1-Trichloroethane	50.0	58.5		ug/L		117	68 - 130
1,1,2-Trichloroethane	50.0	54.6		ug/L		109	70 - 130
Trichloroethene	50.0	53.1		ug/L		106	70 - 130
Trichlorofluoromethane	50.0	54.1		ug/L		108	65 - 138
1,2,3-Trichloropropane	50.0	50.3		ug/L		101	70 - 130
1,2,4-Trimethylbenzene	50.0	47.4		ug/L		95	70 - 130
1,3,5-Trimethylbenzene	50.0	46.9		ug/L		94	69 - 130
Vinyl acetate	100	109		ug/L		109	26 - 160
Vinyl chloride	50.0	57.6		ug/L		115	59 - 136
Xylenes, Total	100	113		ug/L		113	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*78 - 118*
Dibromofluoromethane	*101*		*81 - 121*
Toluene-d8 (Surr)	*97*		*80 - 120*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-279637/1-A
Matrix: Water
Analysis Batch: 279755

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/20/15 11:18	10/21/15 15:08	1
Benzenethiol	ND		10	1.7	ug/L		10/20/15 11:18	10/21/15 15:08	1
Benzoic acid	ND		30	7.3	ug/L		10/20/15 11:18	10/21/15 15:08	1
Benzyl alcohol	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/20/15 11:18	10/21/15 15:08	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/20/15 11:18	10/21/15 15:08	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/20/15 11:18	10/21/15 15:08	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/20/15 11:18	10/21/15 15:08	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/20/15 11:18	10/21/15 15:08	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/20/15 11:18	10/21/15 15:08	1
4-Chloroaniline	ND		10	3.4	ug/L		10/20/15 11:18	10/21/15 15:08	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/20/15 11:18	10/21/15 15:08	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/20/15 11:18	10/21/15 15:08	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-279637/1-A
Matrix: Water
Analysis Batch: 279755

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		10	2.2	ug/L		10/20/15 11:18	10/21/15 15:08	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
Dibenzofuran	ND		10	0.52	ug/L		10/20/15 11:18	10/21/15 15:08	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/20/15 11:18	10/21/15 15:08	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
Diethyl phthalate	ND		10	0.70	ug/L		10/20/15 11:18	10/21/15 15:08	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 15:08	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/20/15 11:18	10/21/15 15:08	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/20/15 11:18	10/21/15 15:08	1
4,6-Dinitro-2-methylphenol	ND		10	2.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/20/15 11:18	10/21/15 15:08	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/20/15 11:18	10/21/15 15:08	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/20/15 11:18	10/21/15 15:08	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/20/15 11:18	10/21/15 15:08	1
1,4-Dioxane	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/20/15 11:18	10/21/15 15:08	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/20/15 11:18	10/21/15 15:08	1
Hexachloroethane	ND		10	4.2	ug/L		10/20/15 11:18	10/21/15 15:08	1
Indene	ND		10	1.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
Isophorone	ND		10	0.57	ug/L		10/20/15 11:18	10/21/15 15:08	1
2-Methylphenol	ND		10	1.8	ug/L		10/20/15 11:18	10/21/15 15:08	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
2-Nitroaniline	ND		10	2.2	ug/L		10/20/15 11:18	10/21/15 15:08	1
3-Nitroaniline	ND		10	1.8	ug/L		10/20/15 11:18	10/21/15 15:08	1
4-Nitroaniline	ND		10	2.5	ug/L		10/20/15 11:18	10/21/15 15:08	1
Nitrobenzene	ND		10	0.55	ug/L		10/20/15 11:18	10/21/15 15:08	1
2-Nitrophenol	ND		10	0.65	ug/L		10/20/15 11:18	10/21/15 15:08	1
4-Nitrophenol	ND		10	2.1	ug/L		10/20/15 11:18	10/21/15 15:08	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 15:08	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/20/15 11:18	10/21/15 15:08	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/20/15 11:18	10/21/15 15:08	1
Pentachlorophenol	ND		20	1.8	ug/L		10/20/15 11:18	10/21/15 15:08	1
Phenol	ND		10	2.6	ug/L		10/20/15 11:18	10/21/15 15:08	1
Pyridine	ND		10	3.2	ug/L		10/20/15 11:18	10/21/15 15:08	1
Quinoline	ND		10	6.0	ug/L		10/20/15 11:18	10/21/15 15:08	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/20/15 11:18	10/21/15 15:08	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/20/15 11:18	10/21/15 15:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*83*		*34 - 120*	*10/20/15 11:18*	*10/21/15 15:08*	*1*
2-Fluorophenol	*56*		*10 - 120*	*10/20/15 11:18*	*10/21/15 15:08*	*1*
Nitrobenzene-d5	*87*		*27 - 120*	*10/20/15 11:18*	*10/21/15 15:08*	*1*
Phenol-d5	*77*		*10 - 120*	*10/20/15 11:18*	*10/21/15 15:08*	*1*
Terphenyl-d14	*101*		*53 - 125*	*10/20/15 11:18*	*10/21/15 15:08*	*1*
2,4,6-Tribromophenol	*86*		*15 - 135*	*10/20/15 11:18*	*10/21/15 15:08*	*1*

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112522-1
SDG: Proj. 60400249-21563720.03004

Lab Sample ID: LCS 400-279637/2-A
Matrix: Water
Analysis Batch: 279755

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	30.0	9.55	J	ug/L		32	10 - 145
Benzoic acid	126	94.5		ug/L		75	10 - 120
Benzyl alcohol	30.0	24.5		ug/L		82	51 - 121
Bis(2-chloroethoxy)methane	30.0	24.7		ug/L		82	54 - 123
Bis(2-chloroethyl)ether	30.0	21.1		ug/L		70	47 - 120
bis (2-chloroisopropyl) ether	30.0	25.7		ug/L		86	20 - 142
Bis(2-ethylhexyl) phthalate	30.0	25.3		ug/L		84	62 - 140
4-Bromophenyl phenyl ether	30.0	25.5		ug/L		85	62 - 132
Butyl benzyl phthalate	30.0	25.9		ug/L		86	51 - 150
4-Chloroaniline	30.0	4.96	J *	ug/L		17	32 - 128
4-Chloro-3-methylphenol	30.0	28.6		ug/L		95	47 - 135
2-Chloronaphthalene	30.0	25.0		ug/L		83	24 - 150
2-Chlorophenol	30.0	23.8		ug/L		79	45 - 120
4-Chlorophenyl phenyl ether	30.0	26.2		ug/L		87	61 - 133
Dibenzofuran	30.0	25.7		ug/L		86	62 - 124
3,3'-Dichlorobenzidine	30.0	ND	*	ug/L		0	16 - 167
2,4-Dichlorophenol	30.0	26.3		ug/L		88	52 - 125
Diethyl phthalate	30.0	27.3		ug/L		91	55 - 140
2,4-Dimethylphenol	30.0	26.4		ug/L		88	52 - 121
Dimethyl phthalate	30.0	26.1		ug/L		87	50 - 133
Di-n-butyl phthalate	30.0	26.3		ug/L		88	59 - 144
4,6-Dinitro-2-methylphenol	60.0	53.3		ug/L		89	46 - 136
2,4-Dinitrophenol	86.0	81.1		ug/L		94	22 - 146
2,4-Dinitrotoluene	30.0	28.4		ug/L		95	54 - 141
2,6-Dinitrotoluene	30.0	26.9		ug/L		90	61 - 130
Di-n-octyl phthalate	30.0	26.7		ug/L		89	55 - 140
1,4-Dioxane	30.0	20.6		ug/L		69	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	30.0	24.9		ug/L		83	55 - 139
Hexachlorobenzene	30.0	25.1		ug/L		84	60 - 138
Hexachlorocyclopentadiene	30.0	12.7	J	ug/L		42	1 - 139
Hexachloroethane	30.0	24.2		ug/L		81	46 - 121
Indene	30.0	23.2		ug/L		77	17 - 141
Isophorone	30.0	26.3		ug/L		88	57 - 122
2-Methylphenol	30.0	26.8		ug/L		89	38 - 121
3 & 4 Methylphenol	30.0	25.3		ug/L		84	43 - 126
2-Nitroaniline	30.0	29.1		ug/L		97	52 - 135
3-Nitroaniline	30.0	11.2	*	ug/L		37	51 - 128
4-Nitroaniline	30.0	14.3		ug/L		48	38 - 141
Nitrobenzene	30.0	26.0		ug/L		87	52 - 128
2-Nitrophenol	30.0	25.4		ug/L		85	47 - 129
4-Nitrophenol	60.0	55.0		ug/L		92	34 - 137
N-Nitrosodimethylamine	30.0	24.6		ug/L		82	21 - 134
N-Nitrosodi-n-propylamine	30.0	26.8		ug/L		89	41 - 143
N-Nitrosodiphenylamine	60.0	40.6		ug/L		68	10 - 185
Pentachlorophenol	60.0	52.9		ug/L		88	38 - 138
Phenol	30.0	22.8		ug/L		76	37 - 120
Pyridine	30.0	3.40	J	ug/L		11	10 - 127
2,4,5-Trichlorophenol	30.0	28.5		ug/L		95	53 - 130
2,4,6-Trichlorophenol	30.0	26.9		ug/L		90	52 - 131

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-279637/2-A
Matrix: Water
Analysis Batch: 279755

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279637

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	90		34 - 120
2-Fluorophenol	74		10 - 120
Nitrobenzene-d5	93		27 - 120
Phenol-d5	84		10 - 120
Terphenyl-d14	95		53 - 125
2,4,6-Tribromophenol	102		15 - 135

Lab Sample ID: LCSD 400-279637/3-A
Matrix: Water
Analysis Batch: 279755

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 279637

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	30.0	4.59	J *	ug/L		15	10 - 145	70	30
Benzoic acid	126	88.3		ug/L		70	10 - 120	7	30
Benzyl alcohol	30.0	24.4		ug/L		81	51 - 121	1	30
Bis(2-chloroethoxy)methane	30.0	25.7		ug/L		86	54 - 123	4	30
Bis(2-chloroethyl)ether	30.0	21.9		ug/L		73	47 - 120	4	30
bis (2-chloroisopropyl) ether	30.0	27.1		ug/L		90	20 - 142	6	30
Bis(2-ethylhexyl) phthalate	30.0	27.2		ug/L		91	62 - 140	7	30
4-Bromophenyl phenyl ether	30.0	27.8		ug/L		93	62 - 132	9	30
Butyl benzyl phthalate	30.0	27.8		ug/L		93	51 - 150	7	30
4-Chloroaniline	30.0	ND	*	ug/L		10	32 - 128	53	30
4-Chloro-3-methylphenol	30.0	29.1		ug/L		97	47 - 135	2	30
2-Chloronaphthalene	30.0	26.6		ug/L		89	24 - 150	6	30
2-Chlorophenol	30.0	24.5		ug/L		82	45 - 120	3	30
4-Chlorophenyl phenyl ether	30.0	27.7		ug/L		92	61 - 133	6	30
Dibenzofuran	30.0	27.4		ug/L		91	62 - 124	6	30
3,3'-Dichlorobenzidine	30.0	ND	*	ug/L		-0.4	16 - 167	200	30
2,4-Dichlorophenol	30.0	26.9		ug/L		90	52 - 125	2	30
Diethyl phthalate	30.0	28.6		ug/L		95	55 - 140	5	30
2,4-Dimethylphenol	30.0	27.3		ug/L		91	52 - 121	3	30
Dimethyl phthalate	30.0	27.2		ug/L		91	50 - 133	4	30
Di-n-butyl phthalate	30.0	28.1		ug/L		94	59 - 144	6	30
4,6-Dinitro-2-methylphenol	60.0	55.1		ug/L		92	46 - 136	3	30
2,4-Dinitrophenol	86.0	81.2		ug/L		94	22 - 146	0	30
2,4-Dinitrotoluene	30.0	29.9		ug/L		100	54 - 141	5	30
2,6-Dinitrotoluene	30.0	28.7		ug/L		96	61 - 130	6	30
Di-n-octyl phthalate	30.0	28.5		ug/L		95	55 - 140	7	30
1,4-Dioxane	30.0	20.7		ug/L		69	10 - 130	1	30
1,2-Diphenylhydrazine (as Azobenzene)	30.0	26.9		ug/L		90	55 - 139	8	30
Hexachlorobenzene	30.0	27.2		ug/L		91	60 - 138	8	30
Hexachlorocyclopentadiene	30.0	12.6	J	ug/L		42	1 - 139	0	30
Hexachloroethane	30.0	25.6		ug/L		85	46 - 121	5	30
Indene	30.0	24.3		ug/L		81	17 - 141	5	30
Isophorone	30.0	27.9		ug/L		93	57 - 122	6	30
2-Methylphenol	30.0	27.4		ug/L		91	38 - 121	2	30
3 & 4 Methylphenol	30.0	24.8		ug/L		83	43 - 126	2	30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-279637/3-A
Matrix: Water
Analysis Batch: 279755

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 279637

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Nitroaniline	30.0	30.3		ug/L		101	52 - 135	4	30
3-Nitroaniline	30.0	11.1	*	ug/L		37	51 - 128	0	30
4-Nitroaniline	30.0	14.2		ug/L		47	38 - 141	1	30
Nitrobenzene	30.0	27.3		ug/L		91	52 - 128	5	30
2-Nitrophenol	30.0	26.2		ug/L		87	47 - 129	3	30
4-Nitrophenol	60.0	48.9		ug/L		82	34 - 137	12	30
N-Nitrosodimethylamine	30.0	23.8		ug/L		79	21 - 134	3	30
N-Nitrosodi-n-propylamine	30.0	28.5		ug/L		95	41 - 143	6	30
N-Nitrosodiphenylamine	60.0	43.8		ug/L		73	10 - 185	8	30
Pentachlorophenol	60.0	55.3		ug/L		92	38 - 138	4	30
Phenol	30.0	22.2		ug/L		74	37 - 120	3	30
Pyridine	30.0	ND	*	ug/L		7	10 - 127	53	30
2,4,5-Trichlorophenol	30.0	29.5		ug/L		98	53 - 130	3	30
2,4,6-Trichlorophenol	30.0	28.0		ug/L		93	52 - 131	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*95*		*34 - 120*
2-Fluorophenol	*74*		*10 - 120*
Nitrobenzene-d5	*97*		*27 - 120*
Phenol-d5	*79*		*10 - 120*
Terphenyl-d14	*101*		*53 - 125*
2,4,6-Tribromophenol	*103*		*15 - 135*

Lab Sample ID: MB 400-280032/1-A
Matrix: Water
Analysis Batch: 280147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 280032

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/22/15 10:55	10/23/15 15:54	1
4-Chloroaniline	ND		10	3.4	ug/L		10/22/15 10:55	10/23/15 15:54	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/22/15 10:55	10/23/15 15:54	1
3-Nitroaniline	ND		10	1.8	ug/L		10/22/15 10:55	10/23/15 15:54	1
Pyridine	ND		10	3.2	ug/L		10/22/15 10:55	10/23/15 15:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*34 - 120*	*10/22/15 10:55*	*10/23/15 15:54*	*1*
2-Fluorophenol	*54*		*10 - 120*	*10/22/15 10:55*	*10/23/15 15:54*	*1*
Nitrobenzene-d5	*80*		*27 - 120*	*10/22/15 10:55*	*10/23/15 15:54*	*1*
Phenol-d5	*73*		*10 - 120*	*10/22/15 10:55*	*10/23/15 15:54*	*1*
Terphenyl-d14	*88*		*53 - 125*	*10/22/15 10:55*	*10/23/15 15:54*	*1*
2,4,6-Tribromophenol	*83*		*15 - 135*	*10/22/15 10:55*	*10/23/15 15:54*	*1*

Lab Sample ID: LCS 400-280032/2-A
Matrix: Water
Analysis Batch: 280147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280032

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	25.0	20.0		ug/L		80	10 - 145

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-280032/2-A
Matrix: Water
Analysis Batch: 280147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280032

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	25.0	19.1		ug/L		77	32 - 128
3,3'-Dichlorobenzidine	25.0	22.1		ug/L		88	16 - 167
3-Nitroaniline	25.0	20.5		ug/L		82	51 - 128
Pyridine	25.0	15.6		ug/L		63	10 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*82*		*34 - 120*
2-Fluorophenol	*70*		*10 - 120*
Nitrobenzene-d5	*79*		*27 - 120*
Phenol-d5	*78*		*10 - 120*
Terphenyl-d14	*92*		*53 - 125*
2,4,6-Tribromophenol	*89*		*15 - 135*

Lab Sample ID: LCSD 400-280032/3-A
Matrix: Water
Analysis Batch: 280147

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 280032

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	25.0	19.9		ug/L		80	10 - 145	1	30
4-Chloroaniline	25.0	18.7		ug/L		75	32 - 128	2	30
3,3'-Dichlorobenzidine	25.0	22.5		ug/L		90	16 - 167	2	30
3-Nitroaniline	25.0	20.3		ug/L		81	51 - 128	1	30
Pyridine	25.0	15.5		ug/L		62	10 - 127	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*81*		*34 - 120*
2-Fluorophenol	*71*		*10 - 120*
Nitrobenzene-d5	*76*		*27 - 120*
Phenol-d5	*76*		*10 - 120*
Terphenyl-d14	*89*		*53 - 125*
2,4,6-Tribromophenol	*87*		*15 - 135*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 400-279637/1-A
Matrix: Water
Analysis Batch: 281055

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 11:52	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 11:52	1
Anthracene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 11:52	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 11:52	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 11:52	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 11:52	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 11:52	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 11:52	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 400-279637/1-A
Matrix: Water
Analysis Batch: 281055

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 11:52	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 11:52	1
Fluoranthene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 11:52	1
Fluorene	ND		0.20	0.021	ug/L		10/20/15 11:18	10/29/15 11:52	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/20/15 11:18	10/29/15 11:52	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 11:52	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 11:52	1
Phenanthrene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 11:52	1
Pyrene	ND		0.20	0.020	ug/L		10/20/15 11:18	10/29/15 11:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*15 - 122*	*10/20/15 11:18*	*10/29/15 11:52*	*1*
Nitrobenzene-d5	*79*		*19 - 130*	*10/20/15 11:18*	*10/29/15 11:52*	*1*
Terphenyl-d14	*95*		*33 - 138*	*10/20/15 11:18*	*10/29/15 11:52*	*1*

Lab Sample ID: LCS 400-279637/2-A
Matrix: Water
Analysis Batch: 281055

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	30.0	23.4		ug/L		78	41 - 120
Acenaphthylene	30.0	24.1		ug/L		80	44 - 120
Anthracene	30.0	23.3		ug/L		78	49 - 120
Benzo[a]anthracene	30.0	24.1		ug/L		80	61 - 135
Benzo[a]pyrene	30.0	19.4		ug/L		65	52 - 120
Benzo[b]fluoranthene	30.0	18.3		ug/L		61	53 - 134
Benzo[g,h,i]perylene	30.0	19.9		ug/L		66	47 - 133
Benzo[k]fluoranthene	30.0	20.1		ug/L		67	57 - 134
Chrysene	30.0	23.5		ug/L		78	55 - 122
Dibenz(a,h)anthracene	30.0	20.7		ug/L		69	48 - 146
Fluoranthene	30.0	23.7		ug/L		79	54 - 128
Fluorene	30.0	23.9		ug/L		80	45 - 125
Indeno[1,2,3-cd]pyrene	30.0	22.0		ug/L		73	43 - 142
1-Methylnaphthalene	30.0	23.2		ug/L		77	41 - 120
2-Methylnaphthalene	30.0	23.5		ug/L		78	32 - 124
Phenanthrene	30.0	23.4		ug/L		78	48 - 120
Pyrene	30.0	24.3		ug/L		81	48 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*85*		*15 - 122*
Nitrobenzene-d5	*94*		*19 - 130*
Terphenyl-d14	*88*		*33 - 138*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCSD 400-279637/3-A
Matrix: Water
Analysis Batch: 281055

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 279637

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	30.0	25.4		ug/L		85	41 - 120	8	56
Acenaphthylene	30.0	26.0		ug/L		87	44 - 120	8	56
Anthracene	30.0	25.3		ug/L		84	49 - 120	8	51
Benzo[a]anthracene	30.0	25.8		ug/L		86	61 - 135	7	49
Benzo[a]pyrene	30.0	21.1		ug/L		70	52 - 120	8	50
Benzo[b]fluoranthene	30.0	20.1		ug/L		67	53 - 134	10	54
Benzo[g,h,i]perylene	30.0	21.6		ug/L		72	47 - 133	8	50
Benzo[k]fluoranthene	30.0	22.4		ug/L		75	57 - 134	11	52
Chrysene	30.0	25.4		ug/L		85	55 - 122	8	50
Dibenz(a,h)anthracene	30.0	22.6		ug/L		75	48 - 146	9	50
Fluoranthene	30.0	25.3		ug/L		84	54 - 128	7	52
Fluorene	30.0	25.8		ug/L		86	45 - 125	7	56
Indeno[1,2,3-cd]pyrene	30.0	24.1		ug/L		80	43 - 142	9	51
1-Methylnaphthalene	30.0	25.1		ug/L		84	41 - 120	8	55
2-Methylnaphthalene	30.0	25.5		ug/L		85	32 - 124	8	57
Phenanthrene	30.0	25.4		ug/L		85	48 - 120	8	56
Pyrene	30.0	26.1		ug/L		87	48 - 132	7	52

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*84*		*15 - 122*
Nitrobenzene-d5	*92*		*19 - 130*
Terphenyl-d14	*87*		*33 - 138*

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-279804/1-A
Matrix: Water
Analysis Batch: 279996

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279804

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/21/15 08:59	10/22/15 09:54	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/21/15 08:59	10/22/15 09:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*51 - 149*	*10/21/15 08:59*	*10/22/15 09:54*	*1*

Lab Sample ID: LCS 400-279804/2-A
Matrix: Water
Analysis Batch: 279996

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279804

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.100	0.116		ug/L		116	60 - 140
1,2-Dibromoethane	0.100	0.0880		ug/L		88	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*51 - 149*

Method: 8011 - EDB and DBCP in Water by Microextraction (Continued)

Lab Sample ID: LCSD 400-279804/3-A
Matrix: Water
Analysis Batch: 279996

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 279804

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane			0.100	0.118		ug/L		118	60 - 140	14	30
1,2-Dibromoethane			0.100	0.0959		ug/L		96	60 - 140	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*109*		*51 - 149*

Shell Oil Products Chain Of Custody Record

AECOM

LAB (LOCATION)
☐ XENCO ( )
☐ CALSCIENCE (TestAmerica Pensacola; 3355 McLemore Dr.)
☑ OTHER (Pensacola, FL 32514 (850-474-1001) ☐ Lab Vendor # ( )
☐ SPL ( )
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES | ☐ MOTIVA RETAIL | ☐ SHELL RETAIL
☐ MOTIVA SD&OM | ☐ CONSULTANT | ☐ LUBES
☐ SHELL PIPELINE | ☐ OTHER

Print Bill To Contact Name: Bob Billman
INCIDENT # (ENV. SERVICES): 9 7 2 1 6 6 4 0
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 10-15-15
PAGE: 1 of 1
PO #: 60400249-21563720.03004
SAP #: 3 4 0 0 6 1

SAMPLING COMPANY: AECOM
LOG CODE:
SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location):
PHONE NO.:
E-MAIL:
CONSULTANT PROJECT NO.: Roxana Quarterly GW / 60400249-21563720.03004
PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow
SAMPLER NAME(S) (Print): S. Fisher; D. Haxel, D. Chase, C. Williams
LAB USE ONLY
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: bob.billman@aecom.com; elizabeth.kunkel@aecom.com; lindsay.rathnow@aecom.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND
☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD
TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:
* Please include "J" values on Reports.
* Please provide sample receipt upon login.
Split report
☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

400-112522 COC

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260	VOC 8011	SVOC 8270	PAH 8270LL	Comments
	TB-ROX-101515-8260-SS	10/15	0000	water	2					2	X				
	TB-ROX-101515-8011-SS		0000		2					2		X			
	T12-ROX-101515		1010		4			3		7	X	X	X	X	
	P89-ROX-101515		1110		4			3		7	X	X	X	X	SF
	~~P87-ROX-101515~~		~~1145~~		4			3		7	X	X	X	X	SF
	P93B-ROX-101515		1015		4			3		7	X	X	X	X	Disregard P87 sample
	P93D-ROX-101515		1415		4			3		7	X	X	X	X	
	P93A-ROX-101515		1445		4			3		7	X	X	X	X	
	P93A-ROX-101515-DUP	✓	1445	✓	4			3		7	X	X	X	X	

Samuel Fisher

Relinquished by: (Signature) Samuel Fisher	Received by: (Signature) FED EX # 8092 2040 9510	Date: 10-15-15	Time: 1700
Relinquished by: (Signature)	Received by: (Signature) DCAhrs 1 TA IR-5 2.5°C, 1.9°C, 3.6°C	Date: 10-16-15	Time: 1009
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2/06 Revision

Custody seals: Test America 525977 525976

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11/9/2015

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 400-112522-1
SDG Number: Proj. 60400249-21563720.03004

Login Number: 112522
List Number: 1
Creator: Benforado, Jessica L

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.5°C, 1.9°C, 3.6°C IR-5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112522-1
SDG: Proj. 60400249-21563720.03004

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	11-30-15 *
Arizona	State Program	9	AZ0710	01-11-16
Arkansas DEQ	State Program	6	88-0689	09-01-16
Florida	NELAP	4	E81010	06-30-16
Georgia	State Program	4	N/A	06-30-16
Illinois	NELAP	5	200041	10-09-15 *
Iowa	State Program	7	367	07-31-16
Kansas	NELAP	7	E-10253	10-31-15 *
Kentucky (UST)	State Program	4	53	06-30-16
Kentucky (WW)	State Program	4	98030	12-31-15
Louisiana	NELAP	6	30976	06-30-16
Maryland	State Program	3	233	09-30-16
Massachusetts	State Program	1	M-FL094	06-30-16
Michigan	State Program	5	9912	06-30-16
New Jersey	NELAP	2	FL006	10-30-15 *
North Carolina (WW/SW)	State Program	4	314	12-31-15
Oklahoma	State Program	6	9810	08-31-16
Pennsylvania	NELAP	3	68-00467	01-31-16
Rhode Island	State Program	1	LAO00307	12-30-15
South Carolina	State Program	4	96026	06-30-15 *
Tennessee	State Program	4	TN02907	06-30-16
Texas	NELAP	6	T104704286-15-9	09-30-16
USDA	Federal		P330-13-00193	07-01-16
Virginia	NELAP	3	460166	06-14-16
West Virginia DEP	State Program	3	136	06-30-16

* Certification renewal pending - certification considered valid.

Roxana Groundwater Quarterly – 4th Quarter 2015 Data Review

Laboratory SDG: 400-112536-Rev.1

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 12/7/2015

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2014

Sample Identification	Sample Identification
TB-ROX-101615-8011	TB-ROX-101615-8260
P58-ROX-101615	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated that VOC LCS recoveries, and SVOC LCS/LCSD RPDs for several analytes were outside evaluation criteria. The Method 8270 SVOC surrogate recovery for terphenyl-d_{14} was outside criteria in sample P58-ROX-101615. Method 8260 VOCs in sample P58-ROX-101615 were diluted due to high levels of target analytes, and phenol required minimal dilution to bring the concentration within instrument calibration range. These issues are addressed further in the appropriate sections below.

Additionally, the initial calibration verification for bromomethane, and the initial and continuing calibration verification for dichlorodifluoromethane exceeded evaluation criteria. Also, the laboratory report was revised to correctly report 1,2-dichloroethane as non-detect in sample P58-ROX-101615, which had been previously incorrectly reported by the laboratory. Three of 69 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds, results may be biased low due to the presence of HCl in the preservative.

The cooler receipt form indicated insufficient sample volume was received for MS/MSD analysis, however MS/MSD analysis was not requested; no qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS/LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD /RPD Criteria
LCS 400-280082/1002	VOCs	Bromodichloromethane	**138**	NA	67-133
LCS 400-280082/1002	VOCs	Carbon tetrachloride	**143**	NA	61-137
LCS 400-280082/1002	VOCs	1,1,1-Trichloroethane	**136**	NA	68-130
LCS 400-280768/1005	VOCs	Dichlorodifluoromethane	**174**	NA	41-146
LCS/LCSD 400-280032/2-A/3-A	SVOCs	Benzoic acid	38/26	**35**	10-120/30

Analytical data reported as non-detect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. Analytical data associated with LCS/LCSD RPDs above evaluation criteria did not require qualification; LCS/LCSD recoveries were within evaluation criteria. No qualification of data was required.

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Sample ID	Parameter	Surrogate	Recovery (%)	Criteria (%)
P58-ROX-101615	SVOCs	Terphenyl-d_{14}	**33**	53-125

Qualifications due to surrogate recoveries were not required due to only one of six SVOC surrogate recoveries being outside evaluation criteria in sample P58-ROX-101615. No qualification of data was required.

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

No

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

Yes

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples analyzed as part of this SDG?

No

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

11.0 Sample Dilutions

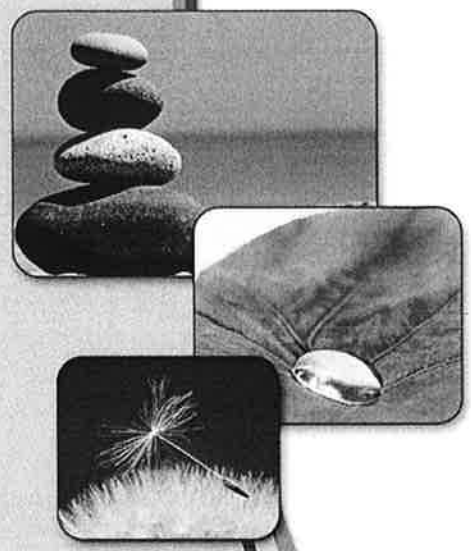
For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples requiring dilution.

12.0 Additional Qualifications

Were additional qualifications applied?

No



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-112536-1
TestAmerica SDG: Proj. 60400249-21563720.03004
Client Project/Site: ROXANA QUARTERLY GW - 4Q15
Revision: 1

For:
AECOM Technical Services Inc.
1001 Highlands Plaza Dr. West
St. Louis, Missouri 63110

Attn: Mrs. Elizabeth Kunkel

Carolyn B. Hooper

Authorized for release by:
11/13/2015 3:11:52 PM

Carolyn Hooper, Project Manager I
(850)474-1001
carolyn.hooper@testamericainc.com

Reviewed 12/7/15 kk

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 400-112536-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-112536-1

Receipt
The samples were received on 10/17/2015 9:28 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9°C.

GC/MS VOA
Method 8260B: The initial calibration verification (ICV) analyzed in batch 400-279112 was outside method criteria for the following analytes: Bromomethane and Dichlorodifluoromethane As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

The laboratory control sample (LCS) for batch 280083 recovered outside control limits for three analytes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample (LCS) for batch 280768 recovered outside control limits for one analyte. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 280768 recovered above the upper control limit for Dichlorodifluoromethane. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

The preservative (HCL) used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The requested target analyte list includes 2-chloroethyl vinyl ether, Acrolein and Acrylonitrile, which are acid-labile compounds that degrade in an acidic medium.

GC/MS Semi VOA
Method 8270C: Six surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: P58-ROX-101615 (400-112536-3). These results have been reported and qualified.

The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch (LCSD 400-280032/3-A) recovered outside control limits for the following analytes: Benzoic acid.

The following sample was diluted to bring the concentration of target analytes within the calibration range: P58-ROX-101615 (400-112536-3). Elevated reporting limits (RLs) are provided.

Method 8270C LL: The following sample was diluted to bring the concentration of target analytes within the calibration range: P58-ROX-101615 (400-112536-3). Elevated reporting limits (RLs) are provided.

Organic Prep
Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 8270 analytical batch 400-280032.

Revision 1
Data has been revised due to misidentification of 1,2-dichloroethane (DCA) caused by spectral interferences resulting from high concentrations of other target analytes present in sample P58-ROX-101615 (400-112536-3).

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

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112536-1
SDG: Proj. 60400249-21563720.03004

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-112536-1	TB-ROX-101615-8011	Water	10/16/15 00:00	10/17/15 09:28
400-112536-2	TB-ROX-101615-8260	Water	10/16/15 00:00	10/17/15 09:28
400-112536-3	P58-ROX-101615	Water	10/16/15 09:40	10/17/15 09:28

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112536-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: TB-ROX-101615-8011 — Lab Sample ID: 400-112536-1

No Detections.

Client Sample ID: TB-ROX-101615-8260 — Lab Sample ID: 400-112536-2

No Detections.

Client Sample ID: P58-ROX-101615 — Lab Sample ID: 400-112536-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	430000		2000	760	ug/L	2000		8260B	Total/NA
Acenaphthene	0.21		0.20	0.020	ug/L	1		8270C LL	Total/NA
Fluorene	0.38		0.20	0.021	ug/L	1		8270C LL	Total/NA
1-Methylnaphthalene	16		0.20	0.020	ug/L	1		8270C LL	Total/NA
2-Methylnaphthalene	21		0.20	0.020	ug/L	1		8270C LL	Total/NA
Phenanthrene	0.21		0.20	0.020	ug/L	1		8270C LL	Total/NA
Pyrene	0.062	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
Dibenzofuran	0.59	J	10	0.52	ug/L	1		8270C	Total/NA
3 & 4 Methylphenol	13	J	20	1.0	ug/L	1		8270C	Total/NA
Phenol	230		50	13	ug/L	5		8270C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TB-ROX-101615-8011

Date Collected: 10/16/15 00:00
Date Received: 10/17/15 09:28

Lab Sample ID: 400-112536-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/27/15 19:00	1
Acrolein	ND		20	10	ug/L			10/27/15 19:00	1
Acrylonitrile	ND		10	2.8	ug/L			10/27/15 19:00	1
Benzene	ND		1.0	0.38	ug/L			10/27/15 19:00	1
Bromobenzene	ND		1.0	0.54	ug/L			10/27/15 19:00	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/27/15 19:00	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/27/15 19:00	1
Bromoform	ND		5.0	0.71	ug/L			10/27/15 19:00	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/27/15 19:00	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/27/15 19:00	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/27/15 19:00	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/27/15 19:00	1
Chloroethane	ND		1.0	0.76	ug/L			10/27/15 19:00	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/27/15 19:00	1
Chloroform	ND		1.0	0.60	ug/L			10/27/15 19:00	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/27/15 19:00	1
Chloromethane	ND		1.0	0.83	ug/L			10/27/15 19:00	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/27/15 19:00	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/27/15 19:00	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/27/15 19:00	1
Dibromomethane	ND		5.0	0.59	ug/L			10/27/15 19:00	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/27/15 19:00	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/27/15 19:00	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/27/15 19:00	1
Dichlorodifluoromethane	ND	*	1.0	0.85	ug/L			10/27/15 19:00	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/27/15 19:00	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/27/15 19:00	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/27/15 19:00	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/27/15 19:00	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/27/15 19:00	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/27/15 19:00	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/27/15 19:00	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/27/15 19:00	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/27/15 19:00	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/27/15 19:00	1
2-Hexanone	ND		25	3.1	ug/L			10/27/15 19:00	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/27/15 19:00	1
Methyl bromide	ND		1.0	0.98	ug/L			10/27/15 19:00	1
Methylene chloride	ND		5.0	3.0	ug/L			10/27/15 19:00	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/27/15 19:00	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/27/15 19:00	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/27/15 19:00	1
Naphthalene	ND		1.0	1.0	ug/L			10/27/15 19:00	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/27/15 19:00	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/27/15 19:00	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/27/15 19:00	1
o-Xylene	ND		5.0	0.60	ug/L			10/27/15 19:00	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/27/15 19:00	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/27/15 19:00	1

Client Sample ID: TB-ROX-101615-8011
Date Collected: 10/16/15 00:00
Date Received: 10/17/15 09:28

Lab Sample ID: 400-112536-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/27/15 19:00	1
Styrene	ND		1.0	1.0	ug/L			10/27/15 19:00	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/27/15 19:00	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/27/15 19:00	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/27/15 19:00	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/27/15 19:00	1
Toluene	ND		1.0	0.70	ug/L			10/27/15 19:00	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/27/15 19:00	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/27/15 19:00	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/27/15 19:00	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/27/15 19:00	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/27/15 19:00	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/27/15 19:00	1
Trichloroethene	ND		1.0	0.50	ug/L			10/27/15 19:00	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/27/15 19:00	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/27/15 19:00	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/27/15 19:00	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/27/15 19:00	1
Vinyl acetate	ND		25	2.0	ug/L			10/27/15 19:00	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/27/15 19:00	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/27/15 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*78 - 118*		*10/27/15 19:00*	*1*
Dibromofluoromethane	*97*		*81 - 121*		*10/27/15 19:00*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/27/15 19:00*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112536-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: TB-ROX-101615-8260
Date Collected: 10/16/15 00:00
Date Received: 10/17/15 09:28

Lab Sample ID: 400-112536-2
Matrix: Water

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/21/15 08:59	10/22/15 11:24	1
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/21/15 08:59	10/22/15 12:23	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/21/15 08:59	10/22/15 11:24	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/21/15 08:59	10/22/15 12:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*51 - 149*	*10/21/15 08:59*	*10/22/15 11:24*	*1*
4-Bromofluorobenzene	*106*		*51 - 149*	*10/21/15 08:59*	*10/22/15 12:23*	*1*

Client Sample ID: P58-ROX-101615

Date Collected: 10/16/15 09:40
Date Received: 10/17/15 09:28

Lab Sample ID: 400-112536-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50000	20000	ug/L			10/22/15 19:39	2000
Acrolein	ND		40000	20000	ug/L			10/22/15 19:39	2000
Acrylonitrile	ND		20000	5600	ug/L			10/22/15 19:39	2000
Benzene	**430000**		2000	760	ug/L			10/22/15 19:39	2000
Bromobenzene	ND		2000	1100	ug/L			10/22/15 19:39	2000
Bromochloromethane	ND		2000	1000	ug/L			10/22/15 19:39	2000
Bromodichloromethane	ND	*	2000	1000	ug/L			10/22/15 19:39	2000
Bromoform	ND		10000	1400	ug/L			10/22/15 19:39	2000
2-Butanone (MEK)	ND		50000	5200	ug/L			10/22/15 19:39	2000
Carbon disulfide	ND		2000	1000	ug/L			10/22/15 19:39	2000
Carbon tetrachloride	ND	*	2000	1000	ug/L			10/22/15 19:39	2000
Chlorobenzene	ND		2000	1000	ug/L			10/22/15 19:39	2000
Chloroethane	ND		2000	1500	ug/L			10/22/15 19:39	2000
2-Chloroethyl vinyl ether	ND		10000	4000	ug/L			10/22/15 19:39	2000
Chloroform	ND		2000	1200	ug/L			10/22/15 19:39	2000
1-Chlorohexane	ND		2000	1400	ug/L			10/22/15 19:39	2000
Chloromethane	ND		2000	1700	ug/L			10/22/15 19:39	2000
cis-1,2-Dichloroethene	ND		2000	1000	ug/L			10/22/15 19:39	2000
cis-1,3-Dichloropropene	ND		10000	1000	ug/L			10/22/15 19:39	2000
Dibromochloromethane	ND		2000	1000	ug/L			10/22/15 19:39	2000
Dibromomethane	ND		10000	1200	ug/L			10/22/15 19:39	2000
1,2-Dichlorobenzene	ND		2000	1000	ug/L			10/22/15 19:39	2000
1,3-Dichlorobenzene	ND		2000	1100	ug/L			10/22/15 19:39	2000
1,4-Dichlorobenzene	ND		2000	1300	ug/L			10/22/15 19:39	2000
Dichlorodifluoromethane	ND		2000	1700	ug/L			10/22/15 19:39	2000
1,1-Dichloroethane	ND		2000	1000	ug/L			10/22/15 19:39	2000
1,2-Dichloroethane	ND		2000	1000	ug/L			10/22/15 19:39	2000
1,1-Dichloroethene	ND		2000	1000	ug/L			10/22/15 19:39	2000
1,2-Dichloropropane	ND		2000	1000	ug/L			10/22/15 19:39	2000
1,3-Dichloropropane	ND		2000	1000	ug/L			10/22/15 19:39	2000
2,2-Dichloropropane	ND		2000	1000	ug/L			10/22/15 19:39	2000
1,1-Dichloropropene	ND		2000	1000	ug/L			10/22/15 19:39	2000
Ethylbenzene	ND		2000	1000	ug/L			10/22/15 19:39	2000
Ethyl methacrylate	ND		2000	1200	ug/L			10/22/15 19:39	2000
Hexachlorobutadiene	ND		10000	1800	ug/L			10/22/15 19:39	2000
2-Hexanone	ND		50000	6200	ug/L			10/22/15 19:39	2000
Isopropylbenzene	ND		2000	1100	ug/L			10/22/15 19:39	2000
Methyl bromide	ND		2000	2000	ug/L			10/22/15 19:39	2000
Methylene chloride	ND		10000	6000	ug/L			10/22/15 19:39	2000
4-Methyl-2-pentanone (MIBK)	ND		50000	3600	ug/L			10/22/15 19:39	2000
Methyl tert-butyl ether	ND		2000	1500	ug/L			10/22/15 19:39	2000
m-Xylene & p-Xylene	ND		10000	3200	ug/L			10/22/15 19:39	2000
Naphthalene	ND		2000	2000	ug/L			10/22/15 19:39	2000
n-Butylbenzene	ND		2000	1500	ug/L			10/22/15 19:39	2000
N-Propylbenzene	ND		2000	1400	ug/L			10/22/15 19:39	2000
o-Chlorotoluene	ND		2000	1100	ug/L			10/22/15 19:39	2000
o-Xylene	ND		10000	1200	ug/L			10/22/15 19:39	2000
p-Chlorotoluene	ND		2000	1100	ug/L			10/22/15 19:39	2000
p-Isopropyltoluene	ND		2000	1400	ug/L			10/22/15 19:39	2000

Client Sample ID: P58-ROX-101615

Date Collected: 10/16/15 09:40
Date Received: 10/17/15 09:28

Lab Sample ID: 400-112536-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		2000	1400	ug/L			10/22/15 19:39	2000
Styrene	ND		2000	2000	ug/L			10/22/15 19:39	2000
tert-Butylbenzene	ND		2000	1300	ug/L			10/22/15 19:39	2000
1,1,1,2-Tetrachloroethane	ND		2000	1000	ug/L			10/22/15 19:39	2000
1,1,2,2-Tetrachloroethane	ND		2000	1000	ug/L			10/22/15 19:39	2000
Tetrachloroethene	ND		2000	1200	ug/L			10/22/15 19:39	2000
Toluene	ND		2000	1400	ug/L			10/22/15 19:39	2000
trans-1,2-Dichloroethene	ND		2000	1000	ug/L			10/22/15 19:39	2000
trans-1,3-Dichloropropene	ND		10000	1000	ug/L			10/22/15 19:39	2000
1,2,3-Trichlorobenzene	ND		2000	1400	ug/L			10/22/15 19:39	2000
1,2,4-Trichlorobenzene	ND		2000	1600	ug/L			10/22/15 19:39	2000
1,1,1-Trichloroethane	ND	*	2000	1000	ug/L			10/22/15 19:39	2000
1,1,2-Trichloroethane	ND		10000	1000	ug/L			10/22/15 19:39	2000
Trichloroethene	ND		2000	1000	ug/L			10/22/15 19:39	2000
Trichlorofluoromethane	ND		2000	1000	ug/L			10/22/15 19:39	2000
1,2,3-Trichloropropane	ND		10000	1700	ug/L			10/22/15 19:39	2000
1,2,4-Trimethylbenzene	ND		2000	1600	ug/L			10/22/15 19:39	2000
1,3,5-Trimethylbenzene	ND		2000	1100	ug/L			10/22/15 19:39	2000
Vinyl acetate	ND		50000	4000	ug/L			10/22/15 19:39	2000
Vinyl chloride	ND		2000	1000	ug/L			10/22/15 19:39	2000
Xylenes, Total	ND		10000	1200	ug/L			10/22/15 19:39	2000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*78 - 118*		*10/22/15 19:39*	*2000*
Dibromofluoromethane	*102*		*81 - 121*		*10/22/15 19:39*	*2000*
Toluene-d8 (Surr)	*94*		*80 - 120*		*10/22/15 19:39*	*2000*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.21**		0.20	0.020	ug/L		10/22/15 10:55	10/27/15 02:23	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/22/15 10:55	10/27/15 02:23	1
Anthracene	ND		0.20	0.020	ug/L		10/22/15 10:55	10/27/15 02:23	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/22/15 10:55	10/27/15 02:23	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/22/15 10:55	10/27/15 02:23	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/22/15 10:55	10/27/15 02:23	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/22/15 10:55	10/27/15 02:23	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/22/15 10:55	10/27/15 02:23	1
Chrysene	ND		0.20	0.040	ug/L		10/22/15 10:55	10/27/15 02:23	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/22/15 10:55	10/27/15 02:23	1
Fluoranthene	ND		0.20	0.020	ug/L		10/22/15 10:55	10/27/15 02:23	1
Fluorene	**0.38**		0.20	0.021	ug/L		10/22/15 10:55	10/27/15 02:23	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/22/15 10:55	10/27/15 02:23	1
1-Methylnaphthalene	**16**		0.20	0.020	ug/L		10/22/15 10:55	10/27/15 02:23	1
2-Methylnaphthalene	**21**		0.20	0.020	ug/L		10/22/15 10:55	10/27/15 02:23	1
Phenanthrene	**0.21**		0.20	0.020	ug/L		10/22/15 10:55	10/27/15 02:23	1
Pyrene	**0.062**	J	0.20	0.020	ug/L		10/22/15 10:55	10/27/15 02:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*85*		*15 - 122*	*10/22/15 10:55*	*10/27/15 02:23*	*1*
Nitrobenzene-d5	*90*		*19 - 130*	*10/22/15 10:55*	*10/27/15 02:23*	*1*

Client Sample ID: P58-ROX-101615

Date Collected: 10/16/15 09:40
Date Received: 10/17/15 09:28

Lab Sample ID: 400-112536-3

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	35		33 - 138	10/22/15 10:55	10/27/15 02:23	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/22/15 10:55	10/23/15 19:45	1
Benzenethiol	ND		10	1.7	ug/L		10/22/15 10:55	10/23/15 19:45	1
Benzoic acid	ND	*	30	7.3	ug/L		10/22/15 10:55	10/23/15 19:45	1
Benzyl alcohol	ND		10	2.0	ug/L		10/22/15 10:55	10/23/15 19:45	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/22/15 10:55	10/23/15 19:45	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/22/15 10:55	10/23/15 19:45	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/22/15 10:55	10/23/15 19:45	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/22/15 10:55	10/23/15 19:45	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/22/15 10:55	10/23/15 19:45	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/22/15 10:55	10/23/15 19:45	1
4-Chloroaniline	ND		10	3.4	ug/L		10/22/15 10:55	10/23/15 19:45	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/22/15 10:55	10/23/15 19:45	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/22/15 10:55	10/23/15 19:45	1
2-Chlorophenol	ND		10	2.2	ug/L		10/22/15 10:55	10/23/15 19:45	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/22/15 10:55	10/23/15 19:45	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/22/15 10:55	10/23/15 19:45	1
Dibenzofuran	**0.59**	**J**	10	0.52	ug/L		10/22/15 10:55	10/23/15 19:45	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/22/15 10:55	10/23/15 19:45	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/22/15 10:55	10/23/15 19:45	1
Diethyl phthalate	ND		10	0.70	ug/L		10/22/15 10:55	10/23/15 19:45	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/22/15 10:55	10/23/15 19:45	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/22/15 10:55	10/23/15 19:45	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/22/15 10:55	10/23/15 19:45	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/22/15 10:55	10/23/15 19:45	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/22/15 10:55	10/23/15 19:45	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/22/15 10:55	10/23/15 19:45	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/22/15 10:55	10/23/15 19:45	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/22/15 10:55	10/23/15 19:45	1
1,4-Dioxane	ND		10	1.0	ug/L		10/22/15 10:55	10/23/15 19:45	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/22/15 10:55	10/23/15 19:45	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/22/15 10:55	10/23/15 19:45	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/22/15 10:55	10/23/15 19:45	1
Hexachloroethane	ND		10	4.2	ug/L		10/22/15 10:55	10/23/15 19:45	1
Indene	ND		10	1.0	ug/L		10/22/15 10:55	10/23/15 19:45	1
Isophorone	ND		10	0.57	ug/L		10/22/15 10:55	10/23/15 19:45	1
2-Methylphenol	ND		10	1.8	ug/L		10/22/15 10:55	10/23/15 19:45	1
3 & 4 Methylphenol	**13**	**J**	20	1.0	ug/L		10/22/15 10:55	10/23/15 19:45	1
2-Nitroaniline	ND		10	2.2	ug/L		10/22/15 10:55	10/23/15 19:45	1
3-Nitroaniline	ND		10	1.8	ug/L		10/22/15 10:55	10/23/15 19:45	1
4-Nitroaniline	ND		10	2.5	ug/L		10/22/15 10:55	10/23/15 19:45	1
Nitrobenzene	ND		10	0.55	ug/L		10/22/15 10:55	10/23/15 19:45	1
2-Nitrophenol	ND		10	0.65	ug/L		10/22/15 10:55	10/23/15 19:45	1
4-Nitrophenol	ND		10	2.1	ug/L		10/22/15 10:55	10/23/15 19:45	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/22/15 10:55	10/23/15 19:45	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112536-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: P58-ROX-101615
Date Collected: 10/16/15 09:40
Date Received: 10/17/15 09:28

Lab Sample ID: 400-112536-3
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/22/15 10:55	10/23/15 19:45	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/22/15 10:55	10/23/15 19:45	1
Pentachlorophenol	ND		20	1.8	ug/L		10/22/15 10:55	10/23/15 19:45	1
Phenol	**230**		50	13	ug/L		10/22/15 10:55	10/26/15 19:41	5
Pyridine	ND		10	3.2	ug/L		10/22/15 10:55	10/23/15 19:45	1
Quinoline	ND		10	6.0	ug/L		10/22/15 10:55	10/23/15 19:45	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/22/15 10:55	10/23/15 19:45	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/22/15 10:55	10/23/15 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*34 - 120*	*10/22/15 10:55*	*10/23/15 19:45*	*1*
2-Fluorophenol	*71*		*10 - 120*	*10/22/15 10:55*	*10/23/15 19:45*	*1*
Nitrobenzene-d5	*81*		*27 - 120*	*10/22/15 10:55*	*10/23/15 19:45*	*1*
Phenol-d5	*72*		*10 - 120*	*10/22/15 10:55*	*10/23/15 19:45*	*1*
Terphenyl-d14	*33*	*X*	*53 - 125*	*10/22/15 10:55*	*10/23/15 19:45*	*1*
2,4,6-Tribromophenol	*88*		*15 - 135*	*10/22/15 10:55*	*10/23/15 19:45*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.029	0.0053	ug/L		10/21/15 08:59	10/22/15 17:20	1
1,2-Dibromoethane	ND		0.019	0.0048	ug/L		10/21/15 08:59	10/22/15 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*73*		*51 - 149*	*10/21/15 08:59*	*10/22/15 17:20*	*1*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

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

Glossary

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

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112536-1
SDG: Proj. 60400249-21563720.03004

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(78-118)	(81-121)	(80-120)
400-112536-1	TB-ROX-101615-8011	96	97	96
400-112536-3	P58-ROX-101615	94	102	94
400-112614-H-4-C MS	Matrix Spike	98	94	95
400-112614-H-4-C MSD	Matrix Spike Duplicate	96	96	96
490-89389-F-9 MS	Matrix Spike	96	105	93
490-89389-F-9 MSD	Matrix Spike Duplicate	95	104	94
LCS 400-280082/1002	Lab Control Sample	96	105	93
LCS 400-280768/1005	Lab Control Sample	95	98	95
MB 400-280082/4	Method Blank	94	104	93
MB 400-280768/4	Method Blank	96	98	95

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	Client Sample ID	(34-120)	(10-120)	(27-120)	(10-120)	(53-125)	(15-135)
400-112536-3	P58-ROX-101615	70	71	81	72	33 X	88
LCS 400-280032/2-A	Lab Control Sample	82	70	79	78	92	89
LCSD 400-280032/3-A	Lab Control Sample Dup	81	71	76	76	89	87
MB 400-280032/1-A	Method Blank	82	54	80	73	88	83

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

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

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPH
Lab Sample ID	Client Sample ID	(15-122)	(19-130)	(33-138)
400-112536-3	P58-ROX-101615	85	90	35
LCS 400-280032/2-A	Lab Control Sample	68	67	67
LCSD 400-280032/3-A	Lab Control Sample Dup	73	72	72
MB 400-280032/1-A	Method Blank	47	49	50

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5
TPH = Terphenyl-d14

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112536-1
SDG: Proj. 60400249-21563720.03004

Method: 8011 - EDB and DBCP in Water by Microextraction

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	**Client Sample ID**	**(51-149)**
400-112536-2	TB-ROX-101615-8260	95
400-112536-2	TB-ROX-101615-8260	106
400-112536-3	P58-ROX-101615	73
LCS 400-279804/2-A	Lab Control Sample	103
LCSD 400-279804/3-A	Lab Control Sample Dup	109
MB 400-279804/1-A	Method Blank	103

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112536-1
SDG: Proj. 60400249-21563720.03004

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL PEN
8011	EDB and DBCP in Water by Microextraction	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112536-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: TB-ROX-101615-8011

Date Collected: 10/16/15 00:00
Date Received: 10/17/15 09:28

Lab Sample ID: 400-112536-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	280768	10/27/15 19:00	CLN	TAL PEN

Client Sample ID: TB-ROX-101615-8260

Date Collected: 10/16/15 00:00
Date Received: 10/17/15 09:28

Lab Sample ID: 400-112536-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			34.7 mL	35 mL	279804	10/21/15 08:59	AM	TAL PEN
Total/NA	Analysis	8011		1	34.7 mL	35 mL	279996	10/22/15 11:24	AM	TAL PEN
Total/NA	Prep	8011			34.7 mL	35 mL	279804	10/21/15 08:59	AM	TAL PEN
Total/NA	Analysis	8011		1	34.7 mL	35 mL	279996	10/22/15 12:23	AM	TAL PEN

Client Sample ID: P58-ROX-101615

Date Collected: 10/16/15 09:40
Date Received: 10/17/15 09:28

Lab Sample ID: 400-112536-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2000	5 mL	5 mL	280082	10/22/15 19:39	CLN	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280154	10/23/15 19:45	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C		5	1000 mL	1 mL	280298	10/26/15 19:41	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	280565	10/27/15 02:23	CEP	TAL PEN
Total/NA	Prep	8011			36.6 mL	35 mL	279804	10/21/15 08:59	AM	TAL PEN
Total/NA	Analysis	8011		1	36.6 mL	35 mL	279996	10/22/15 17:20	AM	TAL PEN

Client Sample ID: Lab Control Sample

Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-279804/2-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	279804	10/21/15 08:59	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	279996	10/22/15 10:24	AM	TAL PEN

Client Sample ID: Lab Control Sample

Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-280032/2-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280147	10/23/15 16:33	AJR	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-280032/2-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C LL		5	1000 mL	1 mL	280568	10/26/15 17:45	CEP	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-280082/1002

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	280082	10/22/15 16:15	CLN	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-280768/1005

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	280768	10/27/15 17:32	CLN	TAL PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-279804/3-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	279804	10/21/15 08:59	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	279996	10/22/15 10:54	AM	TAL PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-280032/3-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280147	10/23/15 17:12	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C LL		5	1000 mL	1 mL	280568	10/26/15 18:20	CEP	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-279804/1-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	279804	10/21/15 08:59	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	279996	10/22/15 09:54	AM	TAL PEN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112536-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: Method Blank

Lab Sample ID: MB 400-280032/1-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280147	10/23/15 15:54	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	280568	10/26/15 17:10	CEP	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-280082/4

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	280082	10/22/15 17:17	CLN	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-280768/4

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	280768	10/27/15 18:35	CLN	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

GC/MS VOA

Analysis Batch: 280082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112536-3	P58-ROX-101615	Total/NA	Water	8260B	
LCS 400-280082/1002	Lab Control Sample	Total/NA	Water	8260B	
MB 400-280082/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 280768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112536-1	TB-ROX-101615-8011	Total/NA	Water	8260B	
LCS 400-280768/1005	Lab Control Sample	Total/NA	Water	8260B	
MB 400-280768/4	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 280032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112536-3	P58-ROX-101615	Total/NA	Water	3520C	
LCS 400-280032/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-280032/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 400-280032/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 280147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-280032/2-A	Lab Control Sample	Total/NA	Water	8270C	280032
LCSD 400-280032/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	280032
MB 400-280032/1-A	Method Blank	Total/NA	Water	8270C	280032

Analysis Batch: 280154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112536-3	P58-ROX-101615	Total/NA	Water	8270C	280032

Analysis Batch: 280298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112536-3	P58-ROX-101615	Total/NA	Water	8270C	280032

Analysis Batch: 280565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112536-3	P58-ROX-101615	Total/NA	Water	8270C LL	280032

Analysis Batch: 280568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-280032/2-A	Lab Control Sample	Total/NA	Water	8270C LL	280032
LCSD 400-280032/3-A	Lab Control Sample Dup	Total/NA	Water	8270C LL	280032
MB 400-280032/1-A	Method Blank	Total/NA	Water	8270C LL	280032

GC Semi VOA

Prep Batch: 279804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112536-2	TB-ROX-101615-8260	Total/NA	Water	8011	
400-112536-3	P58-ROX-101615	Total/NA	Water	8011	
LCS 400-279804/2-A	Lab Control Sample	Total/NA	Water	8011	

GC Semi VOA (Continued)

Prep Batch: 279804 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 400-279804/3-A	Lab Control Sample Dup	Total/NA	Water	8011	
MB 400-279804/1-A	Method Blank	Total/NA	Water	8011	

Analysis Batch: 279996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112536-2	TB-ROX-101615-8260	Total/NA	Water	8011	279804
400-112536-2	TB-ROX-101615-8260	Total/NA	Water	8011	279804
400-112536-3	P58-ROX-101615	Total/NA	Water	8011	279804
LCS 400-279804/2-A	Lab Control Sample	Total/NA	Water	8011	279804
LCSD 400-279804/3-A	Lab Control Sample Dup	Total/NA	Water	8011	279804
MB 400-279804/1-A	Method Blank	Total/NA	Water	8011	279804

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

Lab Sample ID: MB 400-280082/4
Matrix: Water
Analysis Batch: 280082

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/22/15 17:17	1
Acrolein	ND		20	10	ug/L			10/22/15 17:17	1
Acrylonitrile	ND		10	2.8	ug/L			10/22/15 17:17	1
Benzene	ND		1.0	0.38	ug/L			10/22/15 17:17	1
Bromobenzene	ND		1.0	0.54	ug/L			10/22/15 17:17	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/22/15 17:17	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/22/15 17:17	1
Bromoform	ND		5.0	0.71	ug/L			10/22/15 17:17	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/22/15 17:17	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/22/15 17:17	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/22/15 17:17	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/22/15 17:17	1
Chloroethane	ND		1.0	0.76	ug/L			10/22/15 17:17	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/22/15 17:17	1
Chloroform	ND		1.0	0.60	ug/L			10/22/15 17:17	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/22/15 17:17	1
Chloromethane	ND		1.0	0.83	ug/L			10/22/15 17:17	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 17:17	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/15 17:17	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/22/15 17:17	1
Dibromomethane	ND		5.0	0.59	ug/L			10/22/15 17:17	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/22/15 17:17	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/22/15 17:17	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/22/15 17:17	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/22/15 17:17	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/22/15 17:17	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/22/15 17:17	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 17:17	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 17:17	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 17:17	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 17:17	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/22/15 17:17	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/22/15 17:17	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/22/15 17:17	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/22/15 17:17	1
2-Hexanone	ND		25	3.1	ug/L			10/22/15 17:17	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/22/15 17:17	1
Methyl bromide	ND		1.0	0.98	ug/L			10/22/15 17:17	1
Methylene chloride	ND		5.0	3.0	ug/L			10/22/15 17:17	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/22/15 17:17	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/22/15 17:17	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/22/15 17:17	1
Naphthalene	ND		1.0	1.0	ug/L			10/22/15 17:17	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/22/15 17:17	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/22/15 17:17	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/22/15 17:17	1
o-Xylene	ND		5.0	0.60	ug/L			10/22/15 17:17	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/22/15 17:17	1

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

Lab Sample ID: MB 400-280082/4
Matrix: Water
Analysis Batch: 280082

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/22/15 17:17	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/22/15 17:17	1
Styrene	ND		1.0	1.0	ug/L			10/22/15 17:17	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/22/15 17:17	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/22/15 17:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/22/15 17:17	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/22/15 17:17	1
Toluene	ND		1.0	0.70	ug/L			10/22/15 17:17	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 17:17	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/15 17:17	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/22/15 17:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/22/15 17:17	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/22/15 17:17	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/22/15 17:17	1
Trichloroethene	ND		1.0	0.50	ug/L			10/22/15 17:17	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/22/15 17:17	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/22/15 17:17	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/22/15 17:17	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/22/15 17:17	1
Vinyl acetate	ND		25	2.0	ug/L			10/22/15 17:17	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/22/15 17:17	1
Xylenes, Total	ND		10	1.6	ug/L			10/22/15 17:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*78 - 118*		*10/22/15 17:17*	*1*
Dibromofluoromethane	*104*		*81 - 121*		*10/22/15 17:17*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*10/22/15 17:17*	*1*

Lab Sample ID: LCS 400-280082/1002
Matrix: Water
Analysis Batch: 280082

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	219		ug/L		110	43 - 160
Acrolein	500	470		ug/L		94	38 - 160
Acrylonitrile	500	472		ug/L		94	64 - 142
Benzene	50.0	57.7		ug/L		115	70 - 130
Bromobenzene	50.0	41.4		ug/L		83	70 - 132
Bromochloromethane	50.0	58.5		ug/L		117	70 - 130
Bromodichloromethane	50.0	68.9	*	ug/L		138	67 - 133
Bromoform	50.0	49.4		ug/L		99	57 - 140
2-Butanone (MEK)	200	236		ug/L		118	61 - 145
Carbon disulfide	50.0	62.4		ug/L		125	61 - 137
Carbon tetrachloride	50.0	71.6	*	ug/L		143	61 - 137
Chlorobenzene	50.0	54.1		ug/L		108	70 - 130
Chloroethane	50.0	48.7		ug/L		97	55 - 141
2-Chloroethyl vinyl ether	50.0	56.7		ug/L		113	10 - 160
Chloroform	50.0	59.9		ug/L		120	69 - 130

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

Lab Sample ID: LCS 400-280082/1002
Matrix: Water
Analysis Batch: 280082

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Chlorohexane	50.0	53.7		ug/L		107	69 - 130
Chloromethane	50.0	46.2		ug/L		92	58 - 137
cis-1,2-Dichloroethene	50.0	58.3		ug/L		117	68 - 130
cis-1,3-Dichloropropene	50.0	63.9		ug/L		128	69 - 132
Dibromochloromethane	50.0	60.1		ug/L		120	67 - 135
Dibromomethane	50.0	59.4		ug/L		119	70 - 130
1,2-Dichlorobenzene	50.0	43.1		ug/L		86	67 - 130
1,3-Dichlorobenzene	50.0	44.2		ug/L		88	70 - 130
1,4-Dichlorobenzene	50.0	50.1		ug/L		100	70 - 130
Dichlorodifluoromethane	50.0	58.1		ug/L		116	41 - 146
1,1-Dichloroethane	50.0	57.3		ug/L		115	70 - 130
1,2-Dichloroethane	50.0	60.4		ug/L		121	69 - 130
1,1-Dichloroethene	50.0	58.1		ug/L		116	63 - 134
1,2-Dichloropropane	50.0	54.9		ug/L		110	70 - 130
1,3-Dichloropropane	50.0	53.3		ug/L		107	70 - 130
2,2-Dichloropropane	50.0	65.6		ug/L		131	52 - 135
1,1-Dichloropropene	50.0	62.6		ug/L		125	70 - 130
Ethylbenzene	50.0	57.7		ug/L		115	70 - 130
Ethyl methacrylate	50.0	56.5		ug/L		113	68 - 130
Hexachlorobutadiene	50.0	42.3		ug/L		85	53 - 140
2-Hexanone	200	191		ug/L		95	65 - 137
Isopropylbenzene	50.0	57.9		ug/L		116	70 - 130
Methyl bromide	50.0	65.8		ug/L		132	10 - 160
Methylene chloride	50.0	56.1		ug/L		112	66 - 135
4-Methyl-2-pentanone (MIBK)	200	213		ug/L		107	69 - 138
Methyl tert-butyl ether	50.0	61.0		ug/L		122	66 - 130
m-Xylene & p-Xylene	50.0	58.9		ug/L		118	70 - 130
Naphthalene	50.0	42.4		ug/L		85	47 - 149
n-Butylbenzene	50.0	46.6		ug/L		93	67 - 130
N-Propylbenzene	50.0	49.8		ug/L		100	70 - 130
o-Chlorotoluene	50.0	48.3		ug/L		97	70 - 130
o-Xylene	50.0	59.3		ug/L		119	70 - 130
p-Chlorotoluene	50.0	49.6		ug/L		99	70 - 130
p-Isopropyltoluene	50.0	50.6		ug/L		101	65 - 130
sec-Butylbenzene	50.0	48.0		ug/L		96	66 - 130
Styrene	50.0	56.1		ug/L		112	70 - 130
tert-Butylbenzene	50.0	49.5		ug/L		99	64 - 139
1,1,1,2-Tetrachloroethane	50.0	60.4		ug/L		121	67 - 131
1,1,2,2-Tetrachloroethane	50.0	43.6		ug/L		87	70 - 131
Tetrachloroethene	50.0	48.3		ug/L		97	65 - 130
Toluene	50.0	54.9		ug/L		110	70 - 130
trans-1,2-Dichloroethene	50.0	58.2		ug/L		116	70 - 130
trans-1,3-Dichloropropene	50.0	54.4		ug/L		109	63 - 130
1,2,3-Trichlorobenzene	50.0	42.5		ug/L		85	60 - 138
1,2,4-Trichlorobenzene	50.0	41.7		ug/L		83	60 - 140
1,1,1-Trichloroethane	50.0	67.9	*	ug/L		136	68 - 130
1,1,2-Trichloroethane	50.0	52.9		ug/L		106	70 - 130
Trichloroethene	50.0	59.4		ug/L		119	70 - 130

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

Lab Sample ID: LCS 400-280082/1002
Matrix: Water
Analysis Batch: 280082

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	56.6		ug/L		113	65 - 138
1,2,3-Trichloropropane	50.0	46.1		ug/L		92	70 - 130
1,2,4-Trimethylbenzene	50.0	48.8		ug/L		98	70 - 130
1,3,5-Trimethylbenzene	50.0	47.9		ug/L		96	69 - 130
Vinyl acetate	100	109		ug/L		109	26 - 160
Vinyl chloride	50.0	52.1		ug/L		104	59 - 136
Xylenes, Total	100	118		ug/L		118	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*78 - 118*
Dibromofluoromethane	*105*		*81 - 121*
Toluene-d8 (Surr)	*93*		*80 - 120*

Lab Sample ID: MB 400-280768/4
Matrix: Water
Analysis Batch: 280768

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/27/15 18:35	1
Acrolein	ND		20	10	ug/L			10/27/15 18:35	1
Acrylonitrile	ND		10	2.8	ug/L			10/27/15 18:35	1
Benzene	ND		1.0	0.38	ug/L			10/27/15 18:35	1
Bromobenzene	ND		1.0	0.54	ug/L			10/27/15 18:35	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/27/15 18:35	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/27/15 18:35	1
Bromoform	ND		5.0	0.71	ug/L			10/27/15 18:35	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/27/15 18:35	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/27/15 18:35	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/27/15 18:35	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/27/15 18:35	1
Chloroethane	ND		1.0	0.76	ug/L			10/27/15 18:35	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/27/15 18:35	1
Chloroform	ND		1.0	0.60	ug/L			10/27/15 18:35	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/27/15 18:35	1
Chloromethane	ND		1.0	0.83	ug/L			10/27/15 18:35	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/27/15 18:35	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/27/15 18:35	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/27/15 18:35	1
Dibromomethane	ND		5.0	0.59	ug/L			10/27/15 18:35	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/27/15 18:35	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/27/15 18:35	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/27/15 18:35	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/27/15 18:35	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/27/15 18:35	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/27/15 18:35	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/27/15 18:35	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/27/15 18:35	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/27/15 18:35	1

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

Lab Sample ID: MB 400-280768/4
Matrix: Water
Analysis Batch: 280768

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/27/15 18:35	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/27/15 18:35	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/27/15 18:35	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/27/15 18:35	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/27/15 18:35	1
2-Hexanone	ND		25	3.1	ug/L			10/27/15 18:35	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/27/15 18:35	1
Methyl bromide	ND		1.0	0.98	ug/L			10/27/15 18:35	1
Methylene chloride	ND		5.0	3.0	ug/L			10/27/15 18:35	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/27/15 18:35	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/27/15 18:35	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/27/15 18:35	1
Naphthalene	ND		1.0	1.0	ug/L			10/27/15 18:35	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/27/15 18:35	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/27/15 18:35	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/27/15 18:35	1
o-Xylene	ND		5.0	0.60	ug/L			10/27/15 18:35	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/27/15 18:35	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/27/15 18:35	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/27/15 18:35	1
Styrene	ND		1.0	1.0	ug/L			10/27/15 18:35	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/27/15 18:35	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/27/15 18:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/27/15 18:35	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/27/15 18:35	1
Toluene	ND		1.0	0.70	ug/L			10/27/15 18:35	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/27/15 18:35	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/27/15 18:35	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/27/15 18:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/27/15 18:35	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/27/15 18:35	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/27/15 18:35	1
Trichloroethene	ND		1.0	0.50	ug/L			10/27/15 18:35	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/27/15 18:35	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/27/15 18:35	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/27/15 18:35	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/27/15 18:35	1
Vinyl acetate	ND		25	2.0	ug/L			10/27/15 18:35	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/27/15 18:35	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/27/15 18:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*78 - 118*		*10/27/15 18:35*	*1*
Dibromofluoromethane	*98*		*81 - 121*		*10/27/15 18:35*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/27/15 18:35*	*1*

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

Lab Sample ID: LCS 400-280768/1005
Matrix: Water
Analysis Batch: 280768

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	206		ug/L		103	43 - 160
Acrolein	500	464		ug/L		93	38 - 160
Acrylonitrile	500	465		ug/L		93	64 - 142
Benzene	50.0	53.5		ug/L		107	70 - 130
Bromobenzene	50.0	41.9		ug/L		84	70 - 132
Bromochloromethane	50.0	52.9		ug/L		106	70 - 130
Bromodichloromethane	50.0	61.4		ug/L		123	67 - 133
Bromoform	50.0	47.4		ug/L		95	57 - 140
2-Butanone (MEK)	200	227		ug/L		113	61 - 145
Carbon disulfide	50.0	54.7		ug/L		109	61 - 137
Carbon tetrachloride	50.0	63.5		ug/L		127	61 - 137
Chlorobenzene	50.0	54.3		ug/L		109	70 - 130
Chloroethane	50.0	49.7		ug/L		99	55 - 141
2-Chloroethyl vinyl ether	50.0	54.6		ug/L		109	10 - 160
Chloroform	50.0	53.7		ug/L		107	69 - 130
1-Chlorohexane	50.0	54.5		ug/L		109	69 - 130
Chloromethane	50.0	59.4		ug/L		119	58 - 137
cis-1,2-Dichloroethene	50.0	54.3		ug/L		109	68 - 130
cis-1,3-Dichloropropene	50.0	59.6		ug/L		119	69 - 132
Dibromochloromethane	50.0	57.3		ug/L		115	67 - 135
Dibromomethane	50.0	53.5		ug/L		107	70 - 130
1,2-Dichlorobenzene	50.0	43.8		ug/L		88	67 - 130
1,3-Dichlorobenzene	50.0	44.3		ug/L		89	70 - 130
1,4-Dichlorobenzene	50.0	50.7		ug/L		101	70 - 130
Dichlorodifluoromethane	50.0	86.8	*	ug/L		174	41 - 146
1,1-Dichloroethane	50.0	52.6		ug/L		105	70 - 130
1,2-Dichloroethane	50.0	54.1		ug/L		108	69 - 130
1,1-Dichloroethene	50.0	54.0		ug/L		108	63 - 134
1,2-Dichloropropane	50.0	51.3		ug/L		103	70 - 130
1,3-Dichloropropane	50.0	53.8		ug/L		108	70 - 130
2,2-Dichloropropane	50.0	61.4		ug/L		123	52 - 135
1,1-Dichloropropene	50.0	57.8		ug/L		116	70 - 130
Ethylbenzene	50.0	57.4		ug/L		115	70 - 130
Ethyl methacrylate	50.0	56.6		ug/L		113	68 - 130
Hexachlorobutadiene	50.0	54.1		ug/L		108	53 - 140
2-Hexanone	200	196		ug/L		98	65 - 137
Isopropylbenzene	50.0	57.5		ug/L		115	70 - 130
Methyl bromide	50.0	70.5		ug/L		141	10 - 160
Methylene chloride	50.0	53.0		ug/L		106	66 - 135
4-Methyl-2-pentanone (MIBK)	200	204		ug/L		102	69 - 138
Methyl tert-butyl ether	50.0	56.9		ug/L		114	66 - 130
m-Xylene & p-Xylene	50.0	58.5		ug/L		117	70 - 130
Naphthalene	50.0	46.4		ug/L		93	47 - 149
n-Butylbenzene	50.0	48.5		ug/L		97	67 - 130
N-Propylbenzene	50.0	49.9		ug/L		100	70 - 130
o-Chlorotoluene	50.0	47.9		ug/L		96	70 - 130
o-Xylene	50.0	58.8		ug/L		118	70 - 130
p-Chlorotoluene	50.0	49.7		ug/L		99	70 - 130

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

Lab Sample ID: LCS 400-280768/1005
Matrix: Water
Analysis Batch: 280768

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
p-Isopropyltoluene	50.0	52.5		ug/L		105	65 - 130
sec-Butylbenzene	50.0	49.9		ug/L		100	66 - 130
Styrene	50.0	56.0		ug/L		112	70 - 130
tert-Butylbenzene	50.0	50.7		ug/L		101	64 - 139
1,1,1,2-Tetrachloroethane	50.0	59.6		ug/L		119	67 - 131
1,1,2,2-Tetrachloroethane	50.0	44.6		ug/L		89	70 - 131
Tetrachloroethene	50.0	49.2		ug/L		98	65 - 130
Toluene	50.0	54.8		ug/L		110	70 - 130
trans-1,2-Dichloroethene	50.0	54.4		ug/L		109	70 - 130
trans-1,3-Dichloropropene	50.0	53.1		ug/L		106	63 - 130
1,2,3-Trichlorobenzene	50.0	50.0		ug/L		100	60 - 138
1,2,4-Trichlorobenzene	50.0	48.0		ug/L		96	60 - 140
1,1,1-Trichloroethane	50.0	60.0		ug/L		120	68 - 130
1,1,2-Trichloroethane	50.0	52.5		ug/L		105	70 - 130
Trichloroethene	50.0	54.5		ug/L		109	70 - 130
Trichlorofluoromethane	50.0	54.5		ug/L		109	65 - 138
1,2,3-Trichloropropane	50.0	46.0		ug/L		92	70 - 130
1,2,4-Trimethylbenzene	50.0	49.2		ug/L		98	70 - 130
1,3,5-Trimethylbenzene	50.0	49.6		ug/L		99	69 - 130
Vinyl acetate	100	125		ug/L		125	26 - 160
Vinyl chloride	50.0	59.4		ug/L		119	59 - 136
Xylenes, Total	100	117		ug/L		117	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*78 - 118*
Dibromofluoromethane	*98*		*81 - 121*
Toluene-d8 (Surr)	*95*		*80 - 120*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-280032/1-A
Matrix: Water
Analysis Batch: 280147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 280032

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/22/15 10:55	10/23/15 15:54	1
Benzenethiol	ND		10	1.7	ug/L		10/22/15 10:55	10/23/15 15:54	1
Benzoic acid	ND		30	7.3	ug/L		10/22/15 10:55	10/23/15 15:54	1
Benzyl alcohol	ND		10	2.0	ug/L		10/22/15 10:55	10/23/15 15:54	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/22/15 10:55	10/23/15 15:54	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/22/15 10:55	10/23/15 15:54	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/22/15 10:55	10/23/15 15:54	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/22/15 10:55	10/23/15 15:54	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/22/15 10:55	10/23/15 15:54	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/22/15 10:55	10/23/15 15:54	1
4-Chloroaniline	ND		10	3.4	ug/L		10/22/15 10:55	10/23/15 15:54	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/22/15 10:55	10/23/15 15:54	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/22/15 10:55	10/23/15 15:54	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-280032/1-A
Matrix: Water
Analysis Batch: 280147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 280032

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		10	2.2	ug/L		10/22/15 10:55	10/23/15 15:54	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/22/15 10:55	10/23/15 15:54	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/22/15 10:55	10/23/15 15:54	1
Dibenzofuran	ND		10	0.52	ug/L		10/22/15 10:55	10/23/15 15:54	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/22/15 10:55	10/23/15 15:54	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/22/15 10:55	10/23/15 15:54	1
Diethyl phthalate	ND		10	0.70	ug/L		10/22/15 10:55	10/23/15 15:54	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/22/15 10:55	10/23/15 15:54	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/22/15 10:55	10/23/15 15:54	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/22/15 10:55	10/23/15 15:54	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/22/15 10:55	10/23/15 15:54	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/22/15 10:55	10/23/15 15:54	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/22/15 10:55	10/23/15 15:54	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/22/15 10:55	10/23/15 15:54	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/22/15 10:55	10/23/15 15:54	1
1,4-Dioxane	ND		10	1.0	ug/L		10/22/15 10:55	10/23/15 15:54	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/22/15 10:55	10/23/15 15:54	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/22/15 10:55	10/23/15 15:54	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/22/15 10:55	10/23/15 15:54	1
Hexachloroethane	ND		10	4.2	ug/L		10/22/15 10:55	10/23/15 15:54	1
Indene	ND		10	1.0	ug/L		10/22/15 10:55	10/23/15 15:54	1
Isophorone	ND		10	0.57	ug/L		10/22/15 10:55	10/23/15 15:54	1
2-Methylphenol	ND		10	1.8	ug/L		10/22/15 10:55	10/23/15 15:54	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/22/15 10:55	10/23/15 15:54	1
2-Nitroaniline	ND		10	2.2	ug/L		10/22/15 10:55	10/23/15 15:54	1
3-Nitroaniline	ND		10	1.8	ug/L		10/22/15 10:55	10/23/15 15:54	1
4-Nitroaniline	ND		10	2.5	ug/L		10/22/15 10:55	10/23/15 15:54	1
Nitrobenzene	ND		10	0.55	ug/L		10/22/15 10:55	10/23/15 15:54	1
2-Nitrophenol	ND		10	0.65	ug/L		10/22/15 10:55	10/23/15 15:54	1
4-Nitrophenol	ND		10	2.1	ug/L		10/22/15 10:55	10/23/15 15:54	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/22/15 10:55	10/23/15 15:54	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/22/15 10:55	10/23/15 15:54	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/22/15 10:55	10/23/15 15:54	1
Pentachlorophenol	ND		20	1.8	ug/L		10/22/15 10:55	10/23/15 15:54	1
Phenol	ND		10	2.6	ug/L		10/22/15 10:55	10/23/15 15:54	1
Pyridine	ND		10	3.2	ug/L		10/22/15 10:55	10/23/15 15:54	1
Quinoline	ND		10	6.0	ug/L		10/22/15 10:55	10/23/15 15:54	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/22/15 10:55	10/23/15 15:54	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/22/15 10:55	10/23/15 15:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*34 - 120*	*10/22/15 10:55*	*10/23/15 15:54*	*1*
2-Fluorophenol	*54*		*10 - 120*	*10/22/15 10:55*	*10/23/15 15:54*	*1*
Nitrobenzene-d5	*80*		*27 - 120*	*10/22/15 10:55*	*10/23/15 15:54*	*1*
Phenol-d5	*73*		*10 - 120*	*10/22/15 10:55*	*10/23/15 15:54*	*1*
Terphenyl-d14	*88*		*53 - 125*	*10/22/15 10:55*	*10/23/15 15:54*	*1*
2,4,6-Tribromophenol	*83*		*15 - 135*	*10/22/15 10:55*	*10/23/15 15:54*	*1*

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112536-1
SDG: Proj. 60400249-21563720.03004

Lab Sample ID: LCS 400-280032/2-A
Matrix: Water
Analysis Batch: 280147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280032

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	25.0	20.0		ug/L		80	10 - 145
Benzoic acid	126	47.4		ug/L		38	10 - 120
Benzyl alcohol	25.0	18.5		ug/L		74	51 - 121
Bis(2-chloroethoxy)methane	25.0	19.8		ug/L		79	54 - 123
Bis(2-chloroethyl)ether	25.0	19.4		ug/L		77	47 - 120
bis (2-chloroisopropyl) ether	25.0	18.0		ug/L		72	20 - 142
Bis(2-ethylhexyl) phthalate	25.0	23.1		ug/L		92	62 - 140
4-Bromophenyl phenyl ether	25.0	20.9		ug/L		83	62 - 132
Butyl benzyl phthalate	25.0	24.0		ug/L		96	51 - 150
4-Chloroaniline	25.0	19.1		ug/L		77	32 - 128
4-Chloro-3-methylphenol	25.0	22.2		ug/L		89	47 - 135
2-Chloronaphthalene	25.0	21.2		ug/L		85	24 - 150
2-Chlorophenol	25.0	20.0		ug/L		80	45 - 120
4-Chlorophenyl phenyl ether	25.0	22.1		ug/L		88	61 - 133
Dibenz[a,h]acridine	30.0	28.2		ug/L		94	60 - 131
Dibenzofuran	25.0	21.9		ug/L		87	62 - 124
3,3'-Dichlorobenzidine	25.0	22.1		ug/L		88	16 - 167
2,4-Dichlorophenol	25.0	22.4		ug/L		90	52 - 125
Diethyl phthalate	25.0	22.9		ug/L		91	55 - 140
2,4-Dimethylphenol	25.0	20.9		ug/L		83	52 - 121
Dimethyl phthalate	25.0	21.9		ug/L		88	50 - 133
Di-n-butyl phthalate	25.0	23.4		ug/L		93	59 - 144
4,6-Dinitro-o-cresol	50.0	41.1		ug/L		82	46 - 136
2,4-Dinitrophenol	76.6	62.7		ug/L		82	22 - 146
2,4-Dinitrotoluene	25.0	22.8		ug/L		91	54 - 141
2,6-Dinitrotoluene	25.0	21.9		ug/L		88	61 - 130
Di-n-octyl phthalate	25.0	23.1		ug/L		92	55 - 140
1,4-Dioxane	25.0	15.2		ug/L		61	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	25.0	20.0		ug/L		80	55 - 139
Hexachlorobenzene	25.0	21.7		ug/L		87	60 - 138
Hexachlorocyclopentadiene	25.0	14.9	J	ug/L		60	1 - 139
Hexachloroethane	25.0	18.9		ug/L		75	46 - 121
Indene	30.0	24.7		ug/L		82	17 - 141
Isophorone	25.0	20.3		ug/L		81	57 - 122
2-Methylphenol	25.0	22.5		ug/L		90	38 - 121
3 & 4 Methylphenol	25.0	20.5		ug/L		82	43 - 126
2-Nitroaniline	25.0	21.1		ug/L		84	52 - 135
3-Nitroaniline	25.0	20.5		ug/L		82	51 - 128
4-Nitroaniline	25.0	22.7		ug/L		91	38 - 141
Nitrobenzene	25.0	19.9		ug/L		80	52 - 128
2-Nitrophenol	25.0	21.5		ug/L		86	47 - 129
4-Nitrophenol	50.0	53.0		ug/L		106	34 - 137
N-Nitrosodimethylamine	25.0	20.4		ug/L		82	21 - 134
N-Nitrosodi-n-propylamine	25.0	20.8		ug/L		83	41 - 143
N-Nitrosodiphenylamine	85.2	71.3		ug/L		84	10 - 185
Pentachlorophenol	50.0	41.1		ug/L		82	38 - 138
Phenol	25.0	19.5		ug/L		78	37 - 120
Pyridine	25.0	15.6		ug/L		63	10 - 127
2,4,5-Trichlorophenol	25.0	22.4		ug/L		90	53 - 130

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-280032/2-A
Matrix: Water
Analysis Batch: 280147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280032

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,6-Trichlorophenol	25.0	21.5		ug/L		86	52 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*82*		*34 - 120*
2-Fluorophenol	*70*		*10 - 120*
Nitrobenzene-d5	*79*		*27 - 120*
Phenol-d5	*78*		*10 - 120*
Terphenyl-d14	*92*		*53 - 125*
2,4,6-Tribromophenol	*89*		*15 - 135*

Lab Sample ID: LCSD 400-280032/3-A
Matrix: Water
Analysis Batch: 280147

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 280032

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	25.0	19.9		ug/L		80	10 - 145	1	30
Benzoic acid	126	33.3	*	ug/L		26	10 - 120	35	30
Benzyl alcohol	25.0	18.8		ug/L		75	51 - 121	1	30
Bis(2-chloroethoxy)methane	25.0	19.7		ug/L		79	54 - 123	1	30
Bis(2-chloroethyl)ether	25.0	19.3		ug/L		77	47 - 120	0	30
bis (2-chloroisopropyl) ether	25.0	17.8		ug/L		71	20 - 142	1	30
Bis(2-ethylhexyl) phthalate	25.0	22.9		ug/L		92	62 - 140	1	30
4-Bromophenyl phenyl ether	25.0	21.1		ug/L		84	62 - 132	1	30
Butyl benzyl phthalate	25.0	24.1		ug/L		96	51 - 150	0	30
4-Chloroaniline	25.0	18.7		ug/L		75	32 - 128	2	30
4-Chloro-3-methylphenol	25.0	22.1		ug/L		88	47 - 135	1	30
2-Chloronaphthalene	25.0	21.4		ug/L		86	24 - 150	1	30
2-Chlorophenol	25.0	20.2		ug/L		81	45 - 120	1	30
4-Chlorophenyl phenyl ether	25.0	22.0		ug/L		88	61 - 133	0	30
Dibenz[a,h]acridine	30.0	28.2		ug/L		94	60 - 131	0	30
Dibenzofuran	25.0	22.1		ug/L		88	62 - 124	1	30
3,3'-Dichlorobenzidine	25.0	22.5		ug/L		90	16 - 167	2	30
2,4-Dichlorophenol	25.0	22.4		ug/L		89	52 - 125	0	30
Diethyl phthalate	25.0	23.2		ug/L		93	55 - 140	1	30
2,4-Dimethylphenol	25.0	21.1		ug/L		84	52 - 121	1	30
Dimethyl phthalate	25.0	22.0		ug/L		88	50 - 133	0	30
Di-n-butyl phthalate	25.0	23.4		ug/L		94	59 - 144	0	30
4,6-Dinitro-o-cresol	50.0	42.6		ug/L		85	46 - 136	4	30
2,4-Dinitrophenol	76.6	64.3		ug/L		84	22 - 146	3	30
2,4-Dinitrotoluene	25.0	22.9		ug/L		92	54 - 141	1	30
2,6-Dinitrotoluene	25.0	22.2		ug/L		89	61 - 130	1	30
Di-n-octyl phthalate	25.0	23.2		ug/L		93	55 - 140	0	30
1,4-Dioxane	25.0	15.2		ug/L		61	10 - 130	0	30
1,2-Diphenylhydrazine (as Azobenzene)	25.0	20.3		ug/L		81	55 - 139	1	30
Hexachlorobenzene	25.0	21.7		ug/L		87	60 - 138	0	30
Hexachlorocyclopentadiene	25.0	15.2	J	ug/L		61	1 - 139	2	30
Hexachloroethane	25.0	19.1		ug/L		76	46 - 121	1	30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-280032/3-A
Matrix: Water
Analysis Batch: 280147

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 280032

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Indene	30.0	24.3		ug/L		81	17 - 141	2	30
Isophorone	25.0	20.2		ug/L		81	57 - 122	0	30
2-Methylphenol	25.0	22.6		ug/L		91	38 - 121	0	30
3 & 4 Methylphenol	25.0	20.8		ug/L		83	43 - 126	2	30
2-Nitroaniline	25.0	21.1		ug/L		85	52 - 135	0	30
3-Nitroaniline	25.0	20.3		ug/L		81	51 - 128	1	30
4-Nitroaniline	25.0	21.2		ug/L		85	38 - 141	7	30
Nitrobenzene	25.0	19.7		ug/L		79	52 - 128	1	30
2-Nitrophenol	25.0	21.4		ug/L		86	47 - 129	0	30
4-Nitrophenol	50.0	51.5		ug/L		103	34 - 137	3	30
N-Nitrosodimethylamine	25.0	20.0		ug/L		80	21 - 134	2	30
N-Nitrosodi-n-propylamine	25.0	20.9		ug/L		84	41 - 143	1	30
N-Nitrosodiphenylamine	85.2	72.0		ug/L		85	10 - 185	1	30
Pentachlorophenol	50.0	40.9		ug/L		82	38 - 138	0	30
Phenol	25.0	19.7		ug/L		79	37 - 120	1	30
Pyridine	25.0	15.5		ug/L		62	10 - 127	1	30
2,4,5-Trichlorophenol	25.0	22.6		ug/L		90	53 - 130	1	30
2,4,6-Trichlorophenol	25.0	21.8		ug/L		87	52 - 131	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*81*		*34 - 120*
2-Fluorophenol	*71*		*10 - 120*
Nitrobenzene-d5	*76*		*27 - 120*
Phenol-d5	*76*		*10 - 120*
Terphenyl-d14	*89*		*53 - 125*
2,4,6-Tribromophenol	*87*		*15 - 135*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 400-280032/1-A
Matrix: Water
Analysis Batch: 280568

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 280032

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/22/15 10:55	10/26/15 17:10	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/22/15 10:55	10/26/15 17:10	1
Anthracene	ND		0.20	0.020	ug/L		10/22/15 10:55	10/26/15 17:10	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/22/15 10:55	10/26/15 17:10	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/22/15 10:55	10/26/15 17:10	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/22/15 10:55	10/26/15 17:10	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/22/15 10:55	10/26/15 17:10	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/22/15 10:55	10/26/15 17:10	1
Chrysene	ND		0.20	0.040	ug/L		10/22/15 10:55	10/26/15 17:10	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/22/15 10:55	10/26/15 17:10	1
Fluoranthene	ND		0.20	0.020	ug/L		10/22/15 10:55	10/26/15 17:10	1
Fluorene	ND		0.20	0.021	ug/L		10/22/15 10:55	10/26/15 17:10	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/22/15 10:55	10/26/15 17:10	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/22/15 10:55	10/26/15 17:10	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 400-280032/1-A
Matrix: Water
Analysis Batch: 280568

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 280032

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/22/15 10:55	10/26/15 17:10	1
Phenanthrene	ND		0.20	0.020	ug/L		10/22/15 10:55	10/26/15 17:10	1
Pyrene	ND		0.20	0.020	ug/L		10/22/15 10:55	10/26/15 17:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*47*		*15 - 122*	*10/22/15 10:55*	*10/26/15 17:10*	*1*
Nitrobenzene-d5	*49*		*19 - 130*	*10/22/15 10:55*	*10/26/15 17:10*	*1*
Terphenyl-d14	*50*		*33 - 138*	*10/22/15 10:55*	*10/26/15 17:10*	*1*

Lab Sample ID: LCS 400-280032/2-A
Matrix: Water
Analysis Batch: 280568

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280032

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	25.0	17.7		ug/L		71	41 - 120
Acenaphthylene	25.0	17.7		ug/L		71	44 - 120
Anthracene	25.0	17.7		ug/L		71	49 - 120
Benzo[a]anthracene	25.0	18.5		ug/L		74	61 - 135
Benzo[a]pyrene	25.0	16.7		ug/L		67	52 - 120
Benzo[b]fluoranthene	25.0	17.9		ug/L		72	53 - 134
Benzo[g,h,i]perylene	25.0	17.3		ug/L		69	47 - 133
Benzo[k]fluoranthene	25.0	16.9		ug/L		68	57 - 134
Chrysene	25.0	18.0		ug/L		72	55 - 122
Dibenz(a,h)anthracene	25.0	17.1		ug/L		68	48 - 146
Fluoranthene	25.0	18.8		ug/L		75	54 - 128
Fluorene	25.0	19.1		ug/L		77	45 - 125
Indeno[1,2,3-cd]pyrene	25.0	16.8		ug/L		67	43 - 142
1-Methylnaphthalene	25.0	18.3		ug/L		73	41 - 120
2-Methylnaphthalene	25.0	18.1		ug/L		72	32 - 124
Phenanthrene	25.0	17.7		ug/L		71	48 - 120
Pyrene	25.0	17.5		ug/L		70	48 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*68*		*15 - 122*
Nitrobenzene-d5	*67*		*19 - 130*
Terphenyl-d14	*67*		*33 - 138*

Lab Sample ID: LCSD 400-280032/3-A
Matrix: Water
Analysis Batch: 280568

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 280032

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	25.0	19.6		ug/L		78	41 - 120	10	56
Acenaphthylene	25.0	19.5		ug/L		78	44 - 120	9	56
Anthracene	25.0	19.5		ug/L		78	49 - 120	9	51
Benzo[a]anthracene	25.0	20.5		ug/L		82	61 - 135	10	49
Benzo[a]pyrene	25.0	18.5		ug/L		74	52 - 120	10	50
Benzo[b]fluoranthene	25.0	19.9		ug/L		80	53 - 134	10	54

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCSD 400-280032/3-A
Matrix: Water
Analysis Batch: 280568

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 280032

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[g,h,i]perylene	25.0	19.1		ug/L		76	47 - 133	10	50
Benzo[k]fluoranthene	25.0	18.2		ug/L		73	57 - 134	7	52
Chrysene	25.0	19.9		ug/L		80	55 - 122	10	50
Dibenz(a,h)anthracene	25.0	19.2		ug/L		77	48 - 146	12	50
Fluoranthene	25.0	20.8		ug/L		83	54 - 128	10	52
Fluorene	25.0	21.0		ug/L		84	45 - 125	9	56
Indeno[1,2,3-cd]pyrene	25.0	18.8		ug/L		75	43 - 142	11	51
1-Methylnaphthalene	25.0	20.3		ug/L		81	41 - 120	10	55
2-Methylnaphthalene	25.0	20.0		ug/L		80	32 - 124	10	57
Phenanthrene	25.0	19.4		ug/L		78	48 - 120	9	56
Pyrene	25.0	19.3		ug/L		77	48 - 132	10	52

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*73*		*15 - 122*
Nitrobenzene-d5	*72*		*19 - 130*
Terphenyl-d14	*72*		*33 - 138*

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-279804/1-A
Matrix: Water
Analysis Batch: 279996

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279804

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/21/15 08:59	10/22/15 09:54	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/21/15 08:59	10/22/15 09:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*51 - 149*	*10/21/15 08:59*	*10/22/15 09:54*	*1*

Lab Sample ID: LCS 400-279804/2-A
Matrix: Water
Analysis Batch: 279996

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279804

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.100	0.116		ug/L		116	60 - 140
1,2-Dibromoethane	0.100	0.0880		ug/L		88	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*51 - 149*

Lab Sample ID: LCSD 400-279804/3-A
Matrix: Water
Analysis Batch: 279996

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 279804

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	0.100	0.118		ug/L		118	60 - 140	14	30

Method: 8011 - EDB and DBCP in Water by Microextraction (Continued)

Lab Sample ID: LCSD 400-279804/3-A
Matrix: Water
Analysis Batch: 279996

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 279804

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane			0.100	0.0959		ug/L		96	60 - 140	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*109*		*51 - 149*

Shell Oil Products Chain Of Custody Record

AECOM

LAB (LOCATION)

☐ XENCO (_____)
☐ CALSCIENCE (_____)
☑ OTHER (TestAmerica Pensacola 3355 McLemore Dr. Pensacola, FL 32514 (850-474-1001))
☐ SPL (Lab Vendor # _____)

Lab Vendor #

Please Check Appropriate Box:

☑ ENV. SERVICES	☐ MOTIVA RETAIL	☐ SHELL RETAIL
☐ MOTIVA SD&OM	☐ CONSULTANT	☐ LUBES
☐ SHELL PIPELINE	☐ OTHER _____	

Print Bill To Contact Name: Bob Billman

INCIDENT # (ENV SERVICES): 9 7 2 1 5 6 4 0 ☐ CHECK IF NO INCIDENT # APPLIES

DATE: 16 Oct. 2015

PAGE: 1 of 1

PO #: 60400249-21563720.03004

SAP #: 3 4 0 0 6 1

SAMPLING COMPANY: AECOM

LOG CODE:

SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA

State: IL

GLOBAL ID NO.:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110

EDF DELIVERABLE TO (Name, Company, Office Location):

PHONE NO.:

E-MAIL:

CONSULTANT PROJECT NO.: Roxana Quarterly GW / 60400249-21563720.03004

PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow

SAMPLER NAME(S) (Print): S. Fisher / D. Haxel

LAB USE ONLY

TELEPHONE: 314-429-0100

FAX: 314-429-0462

Bill To Contact E-MAIL: bob.billman@aecom.com; elizabeth.kunkel@aecom.com; lindsay.rathnow@aecom.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
* Please include "J" values on Reports.
* Please provide sample receipt upon login.

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

400-112536 COC

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260	VOC 8011	SVOC 8270	PAH 8270LL
	TB-ROX-101615-8011	10/16/15	0000	Water	2					2		X		
	TB-ROX-101615-8260	↓	0000	↓	2					2	X			
	P58-ROX-101615	↓	0940	↓	4			3		7	X	X	X	X

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Comments

S. Fisher
16 Oct. 2015

Relinquished by: (Signature) S. Fisher	Received by: (Signature) FED EX # 8092 2040 9623	Date: 16 Oct. 2015	Time: 1700
Relinquished by: (Signature)	Received by: (Signature)	Date: 10/17/15	Time: 0928
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2008 Revision

Custody seal: Test America 525971

Page 36 of 39

11/13/2015

Shell Oil Products Chain Of Custody Record

AECOM

LAB (LOCATION)

☐ XENCO (_____)
☐ CALSCIENCE (_____)
☑ OTHER (TestAmerica Pensacola; 3355 McLemore Dr. Pensacola, FL 32514 (850-474-1001))
☐ Lab Vendor # (_____)
☐ SPL (_____)

Lab Vendor #

Please Check Appropriate Box:

☑ ENV. SERVICES	☐ MOTIVA RETAIL	☐ SHELL RETAIL
☐ MOTIVA SD&CM	☐ CONSULTANT	☐ LUBES
☐ SHELL PIPELINE	☐ OTHER _____	

Print Bill To Contact Name: Bob Billman,

INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 16 Oct. 2015

PAGE: 1 of 1

PO #: 60400249-21563720.03004

SAP #: 3 4 0 0 6 1

SAMPLING COMPANY: AECOM

LOG CODE:

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SAMPLER NAME(S) Print: S. Fisher / D. Haxel

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
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☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

400-112536 COC

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Comments

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260	VOC 8011	SVOC 8270	PAH 8270LL
	TB-ROX-101615-8011	10/16/15	0000	Water	2					2		X		
	TB-ROX-101615-8260	"	0000	"	2					2	X			
	P58-ROX-101615	"	0940	"	4			3		7	X	X	X	X

16 Oct. 2015

Relinquished by: (Signature)	Received by: (Signature) FED EX # 8092 2040 9623	Date: 16 Oct. 2015	Time: 1700
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2006 Revision

custody seal: Test America 525971

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 400-112536-1
SDG Number: Proj. 60400249-21563720.03004

Login Number: 112536
List Number: 1
Creator: Benforado, Jessica L

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.9°C IR-5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112536-1
SDG: Proj. 60400249-21563720.03004

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	11-30-15 *
Arizona	State Program	9	AZ0710	01-11-16
Arkansas DEQ	State Program	6	88-0689	09-01-16
Florida	NELAP	4	E81010	06-30-16
Georgia	State Program	4	N/A	06-30-16
Illinois	NELAP	5	200041	10-09-15 *
Iowa	State Program	7	367	07-31-16
Kansas	NELAP	7	E-10253	01-31-16 *
Kentucky (UST)	State Program	4	53	06-30-16
Kentucky (WW)	State Program	4	98030	12-31-15
Louisiana	NELAP	6	30976	06-30-16
Maryland	State Program	3	233	09-30-16
Massachusetts	State Program	1	M-FL094	06-30-16
Michigan	State Program	5	9912	06-30-16
New Jersey	NELAP	2	FL006	11-30-15 *
North Carolina (WW/SW)	State Program	4	314	12-31-15
Oklahoma	State Program	6	9810	08-31-16
Pennsylvania	NELAP	3	68-00467	01-31-16
Rhode Island	State Program	1	LAO00307	12-30-15
South Carolina	State Program	4	96026	06-30-16
Tennessee	State Program	4	TN02907	06-30-16
Texas	NELAP	6	T104704286-15-9	09-30-16
USDA	Federal		P330-13-00193	07-01-16
Virginia	NELAP	3	460166	06-14-16
West Virginia DEP	State Program	3	136	06-30-16

* Certification renewal pending - certification considered valid.

Roxana Groundwater Quarterly – 4th Quarter 2015 Data Review

Laboratory SDG: 400-112545-Rev.1

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 12/7/2015

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2014

Sample Identification	Sample Identification
TB-ROX-101515-8260	TB-ROX-101515-8011
P57-ROX-101515	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated that VOC LCS recoveries, and SVOC LCS/LCSD RPDs for several analytes were outside evaluation criteria. Method 8260 VOCs in sample P57-ROX-101515 were diluted due to high levels of target analytes, and phenol required minimal dilution to bring the concentration within instrument calibration range. These issues are addressed further in the appropriate sections below.

Additionally, the initial calibration verification for bromomethane and dichlorodifluoromethane exceeded evaluation criteria. Also, the laboratory report was revised to correctly report 1,2-dichloroethane as non-detect in sample P57-ROX-101515, which had been previously incorrectly reported by the laboratory. Three of 69 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds, results may be biased low due to the presence of HCl in the preservative.

The cooler receipt form indicated that one of one cooler was received by the laboratory at a temperature of 0.5°C, which is outside the 4ºC ± 2ºC criteria. Samples were received in good condition; therefore, no qualification of data was required. The cooler receipt form indicated insufficient sample volume was received for MS/MSD analysis, however MS/MSD analysis was not requested; no qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS/LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD /RPD Criteria
LCS 400-280082/1002	VOCs	Bromodichloromethane	**138**	NA	67-133
LCS 400-280082/1002	VOCs	Carbon tetrachloride	**143**	NA	61-137
LCS 400-280082/1002	VOCs	1,1,1-Trichloroethane	**136**	NA	68-130
LCS 400-280323/1002	VOCs	Dichlorodifluoromethane	**191**	NA	41-146
LCS/LCSD 400-280032/2-A/3-A	SVOCs	Benzoic acid	38/26	**35**	10-120/30

Analytical data reported as non-detect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. Analytical data associated with LCS/LCSD RPDs above evaluation criteria did not require qualification; LCS/LCSD recoveries were within evaluation criteria. No qualification of data was required.

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

No

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

Yes

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples analyzed as part of this SDG?

No

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

11.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples requiring dilution.

12.0 Additional Qualifications

Were additional qualifications applied?

No

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-112545-1
TestAmerica SDG: Proj. 60400249-21563720.03004
Client Project/Site: ROXANA QUARTERLY GW - 4Q15
Revision: 1

For:
AECOM Technical Services Inc.
1001 Highlands Plaza Dr. West
St. Louis, Missouri 63110

Attn: Mrs. Elizabeth Kunkel

Carolyn S. Hooper

Authorized for release by:
12/8/2015 6:22:05 PM

Carolyn Hooper, Project Manager I
(850)474-1001
carolyn.hooper@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

Reviewed 12/8/15 KK

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 400-112545-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-112545-1

Receipt
The samples were received on 10/17/2015 9:28 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.5°C.

GC/MS VOA
Method 8260B: The initial calibration verification (ICV) analyzed in batch 400-279112 was outside method criteria for the following analytes: Bromomethane and Dichlorodifluoromethane As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

The laboratory control sample (LCS) for batch 280083 recovered outside control limits for three analytes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The preservative (HCL) used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The requested target analyte list includes 2-chloroethyl vinyl ether, Acrolein and Acrylonitrile, which are acid-labile compounds that degrade in an acidic medium.

GC/MS Semi VOA
Method 8270C: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch (LCSD 400-280032/3-A) recovered outside control limits for the following analytes: Benzoic acid.

The following sample was diluted to bring the concentration of target analytes within the calibration range: P57-ROX-101515 (400-112545-3). Elevated reporting limits (RLs) are provided.

Method 8270C LL: The following sample was diluted to bring the concentration of target analytes within the calibration range: P57-ROX-101515 (400-112545-3). Elevated reporting limits (RLs) are provided.

Organic Prep
Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 8270 analytical batch 400-280032.

Revision 1
Due to the abundance of benzene creating spectral interference the system mis-identified 1,2-Dichloroethane (DCA) for sample: P57-ROX-101515 (400-112545-3)

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

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112545-1
SDG: Proj. 60400249-21563720.03004

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-112545-1	TB-ROX-101515-8260	Water	10/15/15 00:00	10/17/15 09:28
400-112545-2	TB-ROX-101515-8011	Water	10/15/15 00:00	10/17/15 09:28
400-112545-3	P57-ROX-101515	Water	10/15/15 14:05	10/17/15 09:28

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112545-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: TB-ROX-101515-8260

Lab Sample ID: 400-112545-1

No Detections.

Client Sample ID: TB-ROX-101515-8011

Lab Sample ID: 400-112545-2

No Detections.

Client Sample ID: P57-ROX-101515

Lab Sample ID: 400-112545-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	140000		1000	380	ug/L	1000		8260B	Total/NA
Toluene	1800		1000	700	ug/L	1000		8260B	Total/NA
Xylenes, Total	630	J	5000	600	ug/L	1000		8260B	Total/NA
Acenaphthene	0.29		0.20	0.020	ug/L	1		8270C LL	Total/NA
Fluorene	0.45		0.20	0.021	ug/L	1		8270C LL	Total/NA
1-Methylnaphthalene	18		0.20	0.020	ug/L	1		8270C LL	Total/NA
2-Methylnaphthalene	26		0.20	0.020	ug/L	1		8270C LL	Total/NA
Benzoic acid	7.6	J *	30	7.3	ug/L	1		8270C	Total/NA
Dibenzofuran	0.67	J	10	0.52	ug/L	1		8270C	Total/NA
3 & 4 Methylphenol	38		20	1.0	ug/L	1		8270C	Total/NA
Phenol	870		200	52	ug/L	20		8270C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TB-ROX-101515-8260

Date Collected: 10/15/15 00:00
Date Received: 10/17/15 09:28

Lab Sample ID: 400-112545-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/22/15 22:40	1
Acrolein	ND		20	10	ug/L			10/22/15 22:40	1
Acrylonitrile	ND		10	2.8	ug/L			10/22/15 22:40	1
Benzene	ND		1.0	0.38	ug/L			10/22/15 22:40	1
Bromobenzene	ND		1.0	0.54	ug/L			10/22/15 22:40	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/22/15 22:40	1
Bromodichloromethane	ND	*	1.0	0.50	ug/L			10/22/15 22:40	1
Bromoform	ND		5.0	0.71	ug/L			10/22/15 22:40	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/22/15 22:40	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/22/15 22:40	1
Carbon tetrachloride	ND	*	1.0	0.50	ug/L			10/22/15 22:40	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/22/15 22:40	1
Chloroethane	ND		1.0	0.76	ug/L			10/22/15 22:40	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/22/15 22:40	1
Chloroform	ND		1.0	0.60	ug/L			10/22/15 22:40	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/22/15 22:40	1
Chloromethane	ND		1.0	0.83	ug/L			10/22/15 22:40	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 22:40	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/15 22:40	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/22/15 22:40	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/22/15 22:40	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/22/15 22:40	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/22/15 22:40	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/22/15 22:40	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/22/15 22:40	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/22/15 22:40	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 22:40	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 22:40	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 22:40	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 22:40	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/22/15 22:40	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/22/15 22:40	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/22/15 22:40	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/22/15 22:40	1
2-Hexanone	ND		25	3.1	ug/L			10/22/15 22:40	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/22/15 22:40	1
Methyl bromide	ND		1.0	0.98	ug/L			10/22/15 22:40	1
Methylene bromide	ND		5.0	0.59	ug/L			10/22/15 22:40	1
Methylene chloride	ND		5.0	3.0	ug/L			10/22/15 22:40	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/22/15 22:40	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/22/15 22:40	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/22/15 22:40	1
Naphthalene	ND		1.0	1.0	ug/L			10/22/15 22:40	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/22/15 22:40	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/22/15 22:40	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/22/15 22:40	1
o-Xylene	ND		5.0	0.60	ug/L			10/22/15 22:40	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/22/15 22:40	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/22/15 22:40	1

Client Sample ID: TB-ROX-101515-8260

Date Collected: 10/15/15 00:00
Date Received: 10/17/15 09:28

Lab Sample ID: 400-112545-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/22/15 22:40	1
Styrene	ND		1.0	1.0	ug/L			10/22/15 22:40	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/22/15 22:40	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/22/15 22:40	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/22/15 22:40	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/22/15 22:40	1
Toluene	ND		1.0	0.70	ug/L			10/22/15 22:40	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 22:40	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/15 22:40	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/22/15 22:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/22/15 22:40	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/22/15 22:40	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/22/15 22:40	1
Trichloroethene	ND		1.0	0.50	ug/L			10/22/15 22:40	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/22/15 22:40	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/22/15 22:40	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/22/15 22:40	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/22/15 22:40	1
Vinyl acetate	ND		25	2.0	ug/L			10/22/15 22:40	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/22/15 22:40	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/22/15 22:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*78 - 118*		*10/22/15 22:40*	*1*
Dibromofluoromethane	*103*		*81 - 121*		*10/22/15 22:40*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*10/22/15 22:40*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112545-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: TB-ROX-101515-8011
Date Collected: 10/15/15 00:00
Date Received: 10/17/15 09:28

Lab Sample ID: 400-112545-2
Matrix: Water

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/21/15 10:32	10/22/15 11:24	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/21/15 10:32	10/22/15 11:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*51 - 149*	*10/21/15 10:32*	*10/22/15 11:24*	*1*

Client Sample ID: P57-ROX-101515

Date Collected: 10/15/15 14:05
Date Received: 10/17/15 09:28

Lab Sample ID: 400-112545-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25000	10000	ug/L			10/22/15 19:01	1000
Acrolein	ND		20000	10000	ug/L			10/22/15 19:01	1000
Acrylonitrile	ND		10000	2800	ug/L			10/22/15 19:01	1000
Benzene	**140000**		1000	380	ug/L			10/22/15 19:01	1000
Bromobenzene	ND		1000	540	ug/L			10/22/15 19:01	1000
Bromochloromethane	ND		1000	520	ug/L			10/22/15 19:01	1000
Bromodichloromethane	ND	*	1000	500	ug/L			10/22/15 19:01	1000
Bromoform	ND		5000	710	ug/L			10/22/15 19:01	1000
2-Butanone (MEK)	ND		25000	2600	ug/L			10/22/15 19:01	1000
Carbon disulfide	ND		1000	500	ug/L			10/22/15 19:01	1000
Carbon tetrachloride	ND	*	1000	500	ug/L			10/22/15 19:01	1000
Chlorobenzene	ND		1000	500	ug/L			10/22/15 19:01	1000
Chloroethane	ND		1000	760	ug/L			10/22/15 19:01	1000
2-Chloroethyl vinyl ether	ND		5000	2000	ug/L			10/22/15 19:01	1000
Chloroform	ND		1000	600	ug/L			10/22/15 19:01	1000
1-Chlorohexane	ND		1000	700	ug/L			10/22/15 19:01	1000
Chloromethane	ND		1000	830	ug/L			10/22/15 19:01	1000
cis-1,2-Dichloroethene	ND		1000	500	ug/L			10/22/15 19:01	1000
cis-1,3-Dichloropropene	ND		5000	500	ug/L			10/22/15 19:01	1000
Dibromochloromethane	ND		1000	500	ug/L			10/22/15 19:01	1000
1,2-Dichlorobenzene	ND		1000	500	ug/L			10/22/15 19:01	1000
1,3-Dichlorobenzene	ND		1000	540	ug/L			10/22/15 19:01	1000
1,4-Dichlorobenzene	ND		1000	640	ug/L			10/22/15 19:01	1000
Dichlorodifluoromethane	ND		1000	850	ug/L			10/22/15 19:01	1000
1,1-Dichloroethane	ND		1000	500	ug/L			10/22/15 19:01	1000
1,2-Dichloroethane	ND		1000	500	ug/L			10/22/15 19:01	1000
1,1-Dichloroethene	ND		1000	500	ug/L			10/22/15 19:01	1000
1,2-Dichloropropane	ND		1000	500	ug/L			10/22/15 19:01	1000
1,3-Dichloropropane	ND		1000	500	ug/L			10/22/15 19:01	1000
2,2-Dichloropropane	ND		1000	500	ug/L			10/22/15 19:01	1000
1,1-Dichloropropene	ND		1000	500	ug/L			10/22/15 19:01	1000
Ethylbenzene	ND		1000	500	ug/L			10/22/15 19:01	1000
Ethyl methacrylate	ND		1000	600	ug/L			10/22/15 19:01	1000
Hexachlorobutadiene	ND		5000	900	ug/L			10/22/15 19:01	1000
2-Hexanone	ND		25000	3100	ug/L			10/22/15 19:01	1000
Isopropylbenzene	ND		1000	530	ug/L			10/22/15 19:01	1000
Methyl bromide	ND		1000	980	ug/L			10/22/15 19:01	1000
Methylene bromide	ND		5000	590	ug/L			10/22/15 19:01	1000
Methylene chloride	ND		5000	3000	ug/L			10/22/15 19:01	1000
4-Methyl-2-pentanone (MIBK)	ND		25000	1800	ug/L			10/22/15 19:01	1000
Methyl tert-butyl ether	ND		1000	740	ug/L			10/22/15 19:01	1000
m-Xylene & p-Xylene	ND		5000	1600	ug/L			10/22/15 19:01	1000
Naphthalene	ND		1000	1000	ug/L			10/22/15 19:01	1000
n-Butylbenzene	ND		1000	760	ug/L			10/22/15 19:01	1000
N-Propylbenzene	ND		1000	690	ug/L			10/22/15 19:01	1000
o-Chlorotoluene	ND		1000	570	ug/L			10/22/15 19:01	1000
o-Xylene	ND		5000	600	ug/L			10/22/15 19:01	1000
p-Chlorotoluene	ND		1000	560	ug/L			10/22/15 19:01	1000
p-Isopropyltoluene	ND		1000	710	ug/L			10/22/15 19:01	1000

Client Sample ID: P57-ROX-101515
Date Collected: 10/15/15 14:05
Date Received: 10/17/15 09:28

Lab Sample ID: 400-112545-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1000	700	ug/L			10/22/15 19:01	1000
Styrene	ND		1000	1000	ug/L			10/22/15 19:01	1000
tert-Butylbenzene	ND		1000	630	ug/L			10/22/15 19:01	1000
1,1,1,2-Tetrachloroethane	ND		1000	520	ug/L			10/22/15 19:01	1000
1,1,2,2-Tetrachloroethane	ND		1000	500	ug/L			10/22/15 19:01	1000
Tetrachloroethene	ND		1000	580	ug/L			10/22/15 19:01	1000
Toluene	**1800**		1000	700	ug/L			10/22/15 19:01	1000
trans-1,2-Dichloroethene	ND		1000	500	ug/L			10/22/15 19:01	1000
trans-1,3-Dichloropropene	ND		5000	500	ug/L			10/22/15 19:01	1000
1,2,3-Trichlorobenzene	ND		1000	700	ug/L			10/22/15 19:01	1000
1,2,4-Trichlorobenzene	ND		1000	820	ug/L			10/22/15 19:01	1000
1,1,1-Trichloroethane	ND		1000	500	ug/L			10/22/15 19:01	1000
1,1,2-Trichloroethane	ND		5000	500	ug/L			10/22/15 19:01	1000
Trichloroethene	ND		1000	500	ug/L			10/22/15 19:01	1000
Trichlorofluoromethane	ND		1000	520	ug/L			10/22/15 19:01	1000
1,2,3-Trichloropropane	ND		5000	840	ug/L			10/22/15 19:01	1000
1,2,4-Trimethylbenzene	ND		1000	820	ug/L			10/22/15 19:01	1000
1,3,5-Trimethylbenzene	ND		1000	560	ug/L			10/22/15 19:01	1000
Vinyl acetate	ND		25000	2000	ug/L			10/22/15 19:01	1000
Vinyl chloride	ND		1000	500	ug/L			10/22/15 19:01	1000
Xylenes, Total	**630**	J	5000	600	ug/L			10/22/15 19:01	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*78 - 118*		*10/22/15 19:01*	*1000*
Dibromofluoromethane	*101*		*81 - 121*		*10/22/15 19:01*	*1000*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/22/15 19:01*	*1000*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.29**		0.20	0.020	ug/L		10/22/15 10:55	10/27/15 01:46	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/22/15 10:55	10/27/15 01:46	1
Anthracene	ND		0.20	0.020	ug/L		10/22/15 10:55	10/27/15 01:46	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/22/15 10:55	10/27/15 01:46	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/22/15 10:55	10/27/15 01:46	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/22/15 10:55	10/27/15 01:46	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/22/15 10:55	10/27/15 01:46	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/22/15 10:55	10/27/15 01:46	1
Chrysene	ND		0.20	0.040	ug/L		10/22/15 10:55	10/27/15 01:46	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/22/15 10:55	10/27/15 01:46	1
Fluoranthene	ND		0.20	0.020	ug/L		10/22/15 10:55	10/27/15 01:46	1
Fluorene	**0.45**		0.20	0.021	ug/L		10/22/15 10:55	10/27/15 01:46	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/22/15 10:55	10/27/15 01:46	1
1-Methylnaphthalene	**18**		0.20	0.020	ug/L		10/22/15 10:55	10/27/15 01:46	1
2-Methylnaphthalene	**26**		0.20	0.020	ug/L		10/22/15 10:55	10/27/15 01:46	1
Phenanthrene	ND		0.20	0.020	ug/L		10/22/15 10:55	10/27/15 01:46	1
Pyrene	ND		0.20	0.020	ug/L		10/22/15 10:55	10/27/15 01:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*15 - 122*	*10/22/15 10:55*	*10/27/15 01:46*	*1*
Nitrobenzene-d5	*77*		*19 - 130*	*10/22/15 10:55*	*10/27/15 01:46*	*1*

Client Sample ID: P57-ROX-101515

Date Collected: 10/15/15 14:05
Date Received: 10/17/15 09:28

Lab Sample ID: 400-112545-3

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	*65*		*33 - 138*	*10/22/15 10:55*	*10/27/15 01:46*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/22/15 10:55	10/23/15 23:42	1
Benzenethiol	ND		10	1.7	ug/L		10/22/15 10:55	10/23/15 23:42	1
Benzoic acid	**7.6**	**J ***	30	7.3	ug/L		10/22/15 10:55	10/23/15 23:42	1
Benzyl alcohol	ND		10	2.0	ug/L		10/22/15 10:55	10/23/15 23:42	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/22/15 10:55	10/23/15 23:42	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/22/15 10:55	10/23/15 23:42	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/22/15 10:55	10/23/15 23:42	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/22/15 10:55	10/23/15 23:42	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/22/15 10:55	10/23/15 23:42	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/22/15 10:55	10/23/15 23:42	1
4-Chloroaniline	ND		10	3.4	ug/L		10/22/15 10:55	10/23/15 23:42	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/22/15 10:55	10/23/15 23:42	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/22/15 10:55	10/23/15 23:42	1
2-Chlorophenol	ND		10	2.2	ug/L		10/22/15 10:55	10/23/15 23:42	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/22/15 10:55	10/23/15 23:42	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/22/15 10:55	10/23/15 23:42	1
Dibenzofuran	**0.67**	**J**	10	0.52	ug/L		10/22/15 10:55	10/23/15 23:42	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/22/15 10:55	10/23/15 23:42	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/22/15 10:55	10/23/15 23:42	1
Diethyl phthalate	ND		10	0.70	ug/L		10/22/15 10:55	10/23/15 23:42	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/22/15 10:55	10/23/15 23:42	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/22/15 10:55	10/23/15 23:42	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/22/15 10:55	10/23/15 23:42	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/22/15 10:55	10/23/15 23:42	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/22/15 10:55	10/23/15 23:42	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/22/15 10:55	10/23/15 23:42	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/22/15 10:55	10/23/15 23:42	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/22/15 10:55	10/23/15 23:42	1
1,4-Dioxane	ND		10	1.0	ug/L		10/22/15 10:55	10/23/15 23:42	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/22/15 10:55	10/23/15 23:42	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/22/15 10:55	10/23/15 23:42	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/22/15 10:55	10/23/15 23:42	1
Hexachloroethane	ND		10	4.2	ug/L		10/22/15 10:55	10/23/15 23:42	1
Indene	ND		10	1.0	ug/L		10/22/15 10:55	10/23/15 23:42	1
Isophorone	ND		10	0.57	ug/L		10/22/15 10:55	10/23/15 23:42	1
2-Methylphenol	ND		10	1.8	ug/L		10/22/15 10:55	10/23/15 23:42	1
3 & 4 Methylphenol	**38**		20	1.0	ug/L		10/22/15 10:55	10/23/15 23:42	1
2-Nitroaniline	ND		10	2.2	ug/L		10/22/15 10:55	10/23/15 23:42	1
3-Nitroaniline	ND		10	1.8	ug/L		10/22/15 10:55	10/23/15 23:42	1
4-Nitroaniline	ND		10	2.5	ug/L		10/22/15 10:55	10/23/15 23:42	1
Nitrobenzene	ND		10	0.55	ug/L		10/22/15 10:55	10/23/15 23:42	1
2-Nitrophenol	ND		10	0.65	ug/L		10/22/15 10:55	10/23/15 23:42	1
4-Nitrophenol	ND		10	2.1	ug/L		10/22/15 10:55	10/23/15 23:42	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/22/15 10:55	10/23/15 23:42	1

Client Sample ID: P57-ROX-101515

Date Collected: 10/15/15 14:05
Date Received: 10/17/15 09:28

Lab Sample ID: 400-112545-3

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/22/15 10:55	10/23/15 23:42	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/22/15 10:55	10/23/15 23:42	1
Pentachlorophenol	ND		20	1.8	ug/L		10/22/15 10:55	10/23/15 23:42	1
Phenol	**870**		200	52	ug/L		10/22/15 10:55	10/26/15 19:03	20
Pyridine	ND		10	3.2	ug/L		10/22/15 10:55	10/23/15 23:42	1
Quinoline	ND		10	6.0	ug/L		10/22/15 10:55	10/23/15 23:42	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/22/15 10:55	10/23/15 23:42	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/22/15 10:55	10/23/15 23:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*34 - 120*	*10/22/15 10:55*	*10/23/15 23:42*	*1*
2-Fluorophenol	*49*		*10 - 120*	*10/22/15 10:55*	*10/23/15 23:42*	*1*
Nitrobenzene-d5	*75*		*27 - 120*	*10/22/15 10:55*	*10/23/15 23:42*	*1*
Phenol-d5	*54*		*10 - 120*	*10/22/15 10:55*	*10/23/15 23:42*	*1*
Terphenyl-d14	*56*		*53 - 125*	*10/22/15 10:55*	*10/23/15 23:42*	*1*
2,4,6-Tribromophenol	*66*		*15 - 135*	*10/22/15 10:55*	*10/23/15 23:42*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.029	0.0053	ug/L		10/21/15 08:59	10/22/15 11:54	1
1,2-Dibromoethane	ND		0.019	0.0048	ug/L		10/21/15 08:59	10/22/15 11:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*141*		*51 - 149*	*10/21/15 08:59*	*10/22/15 11:54*	*1*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

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

Glossary

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

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112545-1
SDG: Proj. 60400249-21563720.03004

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(78-118)	(81-121)	(80-120)
400-112545-1	TB-ROX-101515-8260	95	103	93
400-112545-3	P57-ROX-101515	97	101	95
490-89389-F-9 MS	Matrix Spike	96	105	93
490-89389-F-9 MSD	Matrix Spike Duplicate	95	104	94
LCS 400-280082/1002	Lab Control Sample	96	105	93
MB 400-280082/4	Method Blank	94	104	93

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	Client Sample ID	(34-120)	(10-120)	(27-120)	(10-120)	(53-125)	(15-135)
400-112545-3	P57-ROX-101515	69	49	75	54	56	66
LCS 400-280032/2-A	Lab Control Sample	82	70	79	78	92	89
LCSD 400-280032/3-A	Lab Control Sample Dup	81	71	76	76	89	87
MB 400-280032/1-A	Method Blank	82	54	80	73	88	83

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPH
Lab Sample ID	Client Sample ID	(15-122)	(19-130)	(33-138)
400-112545-3	P57-ROX-101515	69	77	65
LCS 400-280032/2-A	Lab Control Sample	68	67	67
LCSD 400-280032/3-A	Lab Control Sample Dup	73	72	72
MB 400-280032/1-A	Method Blank	47	49	50

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5
TPH = Terphenyl-d14

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112545-1
SDG: Proj. 60400249-21563720.03004

Method: 8011 - EDB and DBCP in Water by Microextraction

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	**Client Sample ID**	**BFB2 (51-149)**
400-112545-2	TB-ROX-101515-8011	99

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method: 8011 - EDB and DBCP in Water by Microextraction

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	**Client Sample ID**	**BFB1 (51-149)**
400-112545-3	P57-ROX-101515	141
LCS 400-279804/2-A	Lab Control Sample	103
LCSD 400-279804/3-A	Lab Control Sample Dup	109
MB 400-279804/1-A	Method Blank	103

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112545-1
SDG: Proj. 60400249-21563720.03004

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL PEN
8011	EDB and DBCP in Water by Microextraction	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112545-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: TB-ROX-101515-8260

Lab Sample ID: 400-112545-1
Matrix: Water

Date Collected: 10/15/15 00:00
Date Received: 10/17/15 09:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	280082	10/22/15 22:40	CLN	TAL PEN

Client Sample ID: TB-ROX-101515-8011

Lab Sample ID: 400-112545-2
Matrix: Water

Date Collected: 10/15/15 00:00
Date Received: 10/17/15 09:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			34.7 mL	35 mL	279804	10/21/15 10:32	AM	TAL PEN
Total/NA	Analysis	8011		1	34.7 mL	35 mL	279996	10/22/15 11:24	AM	TAL PEN

Client Sample ID: P57-ROX-101515

Lab Sample ID: 400-112545-3
Matrix: Water

Date Collected: 10/15/15 14:05
Date Received: 10/17/15 09:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1000	5 mL	5 mL	280082	10/22/15 19:01	CLN	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C		20	1000 mL	1 mL	280298	10/26/15 19:03	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280147	10/23/15 23:42	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	280565	10/27/15 01:46	CEP	TAL PEN
Total/NA	Prep	8011			36.2 mL	35 mL	279804	10/21/15 08:59	AM	TAL PEN
Total/NA	Analysis	8011		1	36.2 mL	35 mL	279996	10/22/15 11:54	AM	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-279804/2-A
Matrix: Water

Date Collected: N/A
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	279804	10/21/15 08:59	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	279996	10/22/15 10:24	AM	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-280032/2-A
Matrix: Water

Date Collected: N/A
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280147	10/23/15 16:33	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C LL		5	1000 mL	1 mL	280568	10/26/15 17:45	CEP	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-280082/1002

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	280082	10/22/15 16:15	CLN	TAL PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-279804/3-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	279804	10/21/15 08:59	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	279996	10/22/15 10:54	AM	TAL PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-280032/3-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280147	10/23/15 17:12	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C LL		5	1000 mL	1 mL	280568	10/26/15 18:20	CEP	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-279804/1-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	279804	10/21/15 08:59	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	279996	10/22/15 09:54	AM	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-280032/1-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280147	10/23/15 15:54	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280032	10/22/15 10:55	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	280568	10/26/15 17:10	CEP	TAL PEN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112545-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: Method Blank

Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-280082/4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	280082	10/22/15 17:17	CLN	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

GC/MS VOA

Analysis Batch: 280082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112545-1	TB-ROX-101515-8260	Total/NA	Water	8260B	
400-112545-3	P57-ROX-101515	Total/NA	Water	8260B	
LCS 400-280082/1002	Lab Control Sample	Total/NA	Water	8260B	
MB 400-280082/4	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 280032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112545-3	P57-ROX-101515	Total/NA	Water	3520C	
LCS 400-280032/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-280032/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 400-280032/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 280147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112545-3	P57-ROX-101515	Total/NA	Water	8270C	280032
LCS 400-280032/2-A	Lab Control Sample	Total/NA	Water	8270C	280032
LCSD 400-280032/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	280032
MB 400-280032/1-A	Method Blank	Total/NA	Water	8270C	280032

Analysis Batch: 280298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112545-3	P57-ROX-101515	Total/NA	Water	8270C	280032

Analysis Batch: 280565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112545-3	P57-ROX-101515	Total/NA	Water	8270C LL	280032

Analysis Batch: 280568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-280032/2-A	Lab Control Sample	Total/NA	Water	8270C LL	280032
LCSD 400-280032/3-A	Lab Control Sample Dup	Total/NA	Water	8270C LL	280032
MB 400-280032/1-A	Method Blank	Total/NA	Water	8270C LL	280032

GC Semi VOA

Prep Batch: 279804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112545-2	TB-ROX-101515-8011	Total/NA	Water	8011	
400-112545-3	P57-ROX-101515	Total/NA	Water	8011	
LCS 400-279804/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 400-279804/3-A	Lab Control Sample Dup	Total/NA	Water	8011	
MB 400-279804/1-A	Method Blank	Total/NA	Water	8011	

Analysis Batch: 279996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112545-2	TB-ROX-101515-8011	Total/NA	Water	8011	279804
400-112545-3	P57-ROX-101515	Total/NA	Water	8011	279804
LCS 400-279804/2-A	Lab Control Sample	Total/NA	Water	8011	279804

GC Semi VOA (Continued)

Analysis Batch: 279996 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 400-279804/3-A	Lab Control Sample Dup	Total/NA	Water	8011	279804
MB 400-279804/1-A	Method Blank	Total/NA	Water	8011	279804

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

Lab Sample ID: MB 400-280082/4
Matrix: Water
Analysis Batch: 280082

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/22/15 17:17	1
Acrolein	ND		20	10	ug/L			10/22/15 17:17	1
Acrylonitrile	ND		10	2.8	ug/L			10/22/15 17:17	1
Benzene	ND		1.0	0.38	ug/L			10/22/15 17:17	1
Bromobenzene	ND		1.0	0.54	ug/L			10/22/15 17:17	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/22/15 17:17	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/22/15 17:17	1
Bromoform	ND		5.0	0.71	ug/L			10/22/15 17:17	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/22/15 17:17	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/22/15 17:17	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/22/15 17:17	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/22/15 17:17	1
Chloroethane	ND		1.0	0.76	ug/L			10/22/15 17:17	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/22/15 17:17	1
Chloroform	ND		1.0	0.60	ug/L			10/22/15 17:17	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/22/15 17:17	1
Chloromethane	ND		1.0	0.83	ug/L			10/22/15 17:17	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 17:17	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/15 17:17	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/22/15 17:17	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/22/15 17:17	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/22/15 17:17	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/22/15 17:17	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/22/15 17:17	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/22/15 17:17	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/22/15 17:17	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 17:17	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 17:17	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 17:17	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/22/15 17:17	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/22/15 17:17	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/22/15 17:17	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/22/15 17:17	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/22/15 17:17	1
2-Hexanone	ND		25	3.1	ug/L			10/22/15 17:17	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/22/15 17:17	1
Methyl bromide	ND		1.0	0.98	ug/L			10/22/15 17:17	1
Methylene bromide	ND		5.0	0.59	ug/L			10/22/15 17:17	1
Methylene chloride	ND		5.0	3.0	ug/L			10/22/15 17:17	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/22/15 17:17	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/22/15 17:17	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/22/15 17:17	1
Naphthalene	ND		1.0	1.0	ug/L			10/22/15 17:17	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/22/15 17:17	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/22/15 17:17	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/22/15 17:17	1
o-Xylene	ND		5.0	0.60	ug/L			10/22/15 17:17	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/22/15 17:17	1

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

Lab Sample ID: MB 400-280082/4
Matrix: Water
Analysis Batch: 280082

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/22/15 17:17	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/22/15 17:17	1
Styrene	ND		1.0	1.0	ug/L			10/22/15 17:17	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/22/15 17:17	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/22/15 17:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/22/15 17:17	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/22/15 17:17	1
Toluene	ND		1.0	0.70	ug/L			10/22/15 17:17	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/22/15 17:17	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/22/15 17:17	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/22/15 17:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/22/15 17:17	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/22/15 17:17	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/22/15 17:17	1
Trichloroethene	ND		1.0	0.50	ug/L			10/22/15 17:17	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/22/15 17:17	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/22/15 17:17	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/22/15 17:17	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/22/15 17:17	1
Vinyl acetate	ND		25	2.0	ug/L			10/22/15 17:17	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/22/15 17:17	1
Xylenes, Total	ND		10	1.6	ug/L			10/22/15 17:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*78 - 118*		*10/22/15 17:17*	*1*
Dibromofluoromethane	*104*		*81 - 121*		*10/22/15 17:17*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*10/22/15 17:17*	*1*

Lab Sample ID: LCS 400-280082/1002
Matrix: Water
Analysis Batch: 280082

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	219		ug/L		110	43 - 160
Acrolein	500	470		ug/L		94	38 - 160
Acrylonitrile	500	472		ug/L		94	64 - 142
Benzene	50.0	57.7		ug/L		115	70 - 130
Bromobenzene	50.0	41.4		ug/L		83	70 - 132
Bromochloromethane	50.0	58.5		ug/L		117	70 - 130
Bromodichloromethane	50.0	68.9	*	ug/L		138	67 - 133
Bromoform	50.0	49.4		ug/L		99	57 - 140
2-Butanone (MEK)	200	236		ug/L		118	61 - 145
Carbon disulfide	50.0	62.4		ug/L		125	61 - 137
Carbon tetrachloride	50.0	71.6	*	ug/L		143	61 - 137
Chlorobenzene	50.0	54.1		ug/L		108	70 - 130
Chloroethane	50.0	48.7		ug/L		97	55 - 141
2-Chloroethyl vinyl ether	50.0	56.7		ug/L		113	10 - 160
Chloroform	50.0	59.9		ug/L		120	69 - 130

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

Lab Sample ID: LCS 400-280082/1002
Matrix: Water
Analysis Batch: 280082

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	50.0	46.2		ug/L		92	58 - 137
cis-1,2-Dichloroethene	50.0	58.3		ug/L		117	68 - 130
cis-1,3-Dichloropropene	50.0	63.9		ug/L		128	69 - 132
Dibromochloromethane	50.0	60.1		ug/L		120	67 - 135
1,2-Dichlorobenzene	50.0	43.1		ug/L		86	67 - 130
1,3-Dichlorobenzene	50.0	44.2		ug/L		88	70 - 130
1,4-Dichlorobenzene	50.0	50.1		ug/L		100	70 - 130
Dichlorodifluoromethane	50.0	58.1		ug/L		116	41 - 146
1,1-Dichloroethane	50.0	57.3		ug/L		115	70 - 130
1,2-Dichloroethane	50.0	60.4		ug/L		121	69 - 130
1,1-Dichloroethene	50.0	58.1		ug/L		116	63 - 134
1,2-Dichloropropane	50.0	54.9		ug/L		110	70 - 130
1,3-Dichloropropane	50.0	53.3		ug/L		107	70 - 130
2,2-Dichloropropane	50.0	65.6		ug/L		131	52 - 135
1,1-Dichloropropene	50.0	62.6		ug/L		125	70 - 130
Ethylbenzene	50.0	57.7		ug/L		115	70 - 130
Ethyl methacrylate	50.0	56.5		ug/L		113	68 - 130
Hexachlorobutadiene	50.0	42.3		ug/L		85	53 - 140
2-Hexanone	200	191		ug/L		95	65 - 137
Isopropylbenzene	50.0	57.9		ug/L		116	70 - 130
Methyl bromide	50.0	65.8		ug/L		132	10 - 160
Methylene bromide	50.0	59.4		ug/L		119	70 - 130
Methylene chloride	50.0	56.1		ug/L		112	66 - 135
4-Methyl-2-pentanone (MIBK)	200	213		ug/L		107	69 - 138
Methyl tert-butyl ether	50.0	61.0		ug/L		122	66 - 130
m-Xylene & p-Xylene	50.0	58.9		ug/L		118	70 - 130
Naphthalene	50.0	42.4		ug/L		85	47 - 149
n-Butylbenzene	50.0	46.6		ug/L		93	67 - 130
N-Propylbenzene	50.0	49.8		ug/L		100	70 - 130
o-Chlorotoluene	50.0	48.3		ug/L		97	70 - 130
o-Xylene	50.0	59.3		ug/L		119	70 - 130
p-Chlorotoluene	50.0	49.6		ug/L		99	70 - 130
p-Isopropyltoluene	50.0	50.6		ug/L		101	65 - 130
sec-Butylbenzene	50.0	48.0		ug/L		96	66 - 130
Styrene	50.0	56.1		ug/L		112	70 - 130
tert-Butylbenzene	50.0	49.5		ug/L		99	64 - 139
1,1,1,2-Tetrachloroethane	50.0	60.4		ug/L		121	67 - 131
1,1,2,2-Tetrachloroethane	50.0	43.6		ug/L		87	70 - 131
Tetrachloroethene	50.0	48.3		ug/L		97	65 - 130
Toluene	50.0	54.9		ug/L		110	70 - 130
trans-1,2-Dichloroethene	50.0	58.2		ug/L		116	70 - 130
trans-1,3-Dichloropropene	50.0	54.4		ug/L		109	63 - 130
1,2,3-Trichlorobenzene	50.0	42.5		ug/L		85	60 - 138
1,2,4-Trichlorobenzene	50.0	41.7		ug/L		83	60 - 140
1,1,1-Trichloroethane	50.0	67.9	*	ug/L		136	68 - 130
1,1,2-Trichloroethane	50.0	52.9		ug/L		106	70 - 130
Trichloroethene	50.0	59.4		ug/L		119	70 - 130
Trichlorofluoromethane	50.0	56.6		ug/L		113	65 - 138

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

Lab Sample ID: LCS 400-280082/1002
Matrix: Water
Analysis Batch: 280082

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	50.0	46.1		ug/L		92	70 - 130
1,2,4-Trimethylbenzene	50.0	48.8		ug/L		98	70 - 130
1,3,5-Trimethylbenzene	50.0	47.9		ug/L		96	69 - 130
Vinyl acetate	100	109		ug/L		109	26 - 160
Vinyl chloride	50.0	52.1		ug/L		104	59 - 136
Xylenes, Total	100	118		ug/L		118	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*78 - 118*
Dibromofluoromethane	*105*		*81 - 121*
Toluene-d8 (Surr)	*93*		*80 - 120*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-280032/1-A
Matrix: Water
Analysis Batch: 280147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 280032

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/22/15 10:55	10/23/15 15:54	1
Benzenethiol	ND		10	1.7	ug/L		10/22/15 10:55	10/23/15 15:54	1
Benzoic acid	ND		30	7.3	ug/L		10/22/15 10:55	10/23/15 15:54	1
Benzyl alcohol	ND		10	2.0	ug/L		10/22/15 10:55	10/23/15 15:54	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/22/15 10:55	10/23/15 15:54	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/22/15 10:55	10/23/15 15:54	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/22/15 10:55	10/23/15 15:54	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/22/15 10:55	10/23/15 15:54	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/22/15 10:55	10/23/15 15:54	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/22/15 10:55	10/23/15 15:54	1
4-Chloroaniline	ND		10	3.4	ug/L		10/22/15 10:55	10/23/15 15:54	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/22/15 10:55	10/23/15 15:54	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/22/15 10:55	10/23/15 15:54	1
2-Chlorophenol	ND		10	2.2	ug/L		10/22/15 10:55	10/23/15 15:54	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/22/15 10:55	10/23/15 15:54	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/22/15 10:55	10/23/15 15:54	1
Dibenzofuran	ND		10	0.52	ug/L		10/22/15 10:55	10/23/15 15:54	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/22/15 10:55	10/23/15 15:54	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/22/15 10:55	10/23/15 15:54	1
Diethyl phthalate	ND		10	0.70	ug/L		10/22/15 10:55	10/23/15 15:54	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/22/15 10:55	10/23/15 15:54	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/22/15 10:55	10/23/15 15:54	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/22/15 10:55	10/23/15 15:54	1
4,6-Dinitro-o-cresol	ND		10	2.0	ug/L		10/22/15 10:55	10/23/15 15:54	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/22/15 10:55	10/23/15 15:54	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/22/15 10:55	10/23/15 15:54	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/22/15 10:55	10/23/15 15:54	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/22/15 10:55	10/23/15 15:54	1
1,4-Dioxane	ND		10	1.0	ug/L		10/22/15 10:55	10/23/15 15:54	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-280032/1-A
Matrix: Water
Analysis Batch: 280147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 280032

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/22/15 10:55	10/23/15 15:54	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/22/15 10:55	10/23/15 15:54	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/22/15 10:55	10/23/15 15:54	1
Hexachloroethane	ND		10	4.2	ug/L		10/22/15 10:55	10/23/15 15:54	1
Indene	ND		10	1.0	ug/L		10/22/15 10:55	10/23/15 15:54	1
Isophorone	ND		10	0.57	ug/L		10/22/15 10:55	10/23/15 15:54	1
2-Methylphenol	ND		10	1.8	ug/L		10/22/15 10:55	10/23/15 15:54	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/22/15 10:55	10/23/15 15:54	1
2-Nitroaniline	ND		10	2.2	ug/L		10/22/15 10:55	10/23/15 15:54	1
3-Nitroaniline	ND		10	1.8	ug/L		10/22/15 10:55	10/23/15 15:54	1
4-Nitroaniline	ND		10	2.5	ug/L		10/22/15 10:55	10/23/15 15:54	1
Nitrobenzene	ND		10	0.55	ug/L		10/22/15 10:55	10/23/15 15:54	1
2-Nitrophenol	ND		10	0.65	ug/L		10/22/15 10:55	10/23/15 15:54	1
4-Nitrophenol	ND		10	2.1	ug/L		10/22/15 10:55	10/23/15 15:54	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/22/15 10:55	10/23/15 15:54	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/22/15 10:55	10/23/15 15:54	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/22/15 10:55	10/23/15 15:54	1
Pentachlorophenol	ND		20	1.8	ug/L		10/22/15 10:55	10/23/15 15:54	1
Phenol	ND		10	2.6	ug/L		10/22/15 10:55	10/23/15 15:54	1
Pyridine	ND		10	3.2	ug/L		10/22/15 10:55	10/23/15 15:54	1
Quinoline	ND		10	6.0	ug/L		10/22/15 10:55	10/23/15 15:54	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/22/15 10:55	10/23/15 15:54	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/22/15 10:55	10/23/15 15:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*34 - 120*	*10/22/15 10:55*	*10/23/15 15:54*	*1*
2-Fluorophenol	*54*		*10 - 120*	*10/22/15 10:55*	*10/23/15 15:54*	*1*
Nitrobenzene-d5	*80*		*27 - 120*	*10/22/15 10:55*	*10/23/15 15:54*	*1*
Phenol-d5	*73*		*10 - 120*	*10/22/15 10:55*	*10/23/15 15:54*	*1*
Terphenyl-d14	*88*		*53 - 125*	*10/22/15 10:55*	*10/23/15 15:54*	*1*
2,4,6-Tribromophenol	*83*		*15 - 135*	*10/22/15 10:55*	*10/23/15 15:54*	*1*

Lab Sample ID: LCS 400-280032/2-A
Matrix: Water
Analysis Batch: 280147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280032

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	25.0	20.0		ug/L		80	10 - 145
Benzoic acid	126	47.4		ug/L		38	10 - 120
Benzyl alcohol	25.0	18.5		ug/L		74	51 - 121
Bis(2-chloroethoxy)methane	25.0	19.8		ug/L		79	54 - 123
Bis(2-chloroethyl)ether	25.0	19.4		ug/L		77	47 - 120
bis (2-chloroisopropyl) ether	25.0	18.0		ug/L		72	20 - 142
Bis(2-ethylhexyl) phthalate	25.0	23.1		ug/L		92	62 - 140
4-Bromophenyl phenyl ether	25.0	20.9		ug/L		83	62 - 132
Butyl benzyl phthalate	25.0	24.0		ug/L		96	51 - 150
4-Chloroaniline	25.0	19.1		ug/L		77	32 - 128

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-280032/2-A
Matrix: Water
Analysis Batch: 280147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280032

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloro-3-methylphenol	25.0	22.2		ug/L		89	47 - 135
2-Chloronaphthalene	25.0	21.2		ug/L		85	24 - 150
2-Chlorophenol	25.0	20.0		ug/L		80	45 - 120
4-Chlorophenyl phenyl ether	25.0	22.1		ug/L		88	61 - 133
Dibenz[a,h]acridine	30.0	28.2		ug/L		94	60 - 131
Dibenzofuran	25.0	21.9		ug/L		87	62 - 124
3,3'-Dichlorobenzidine	25.0	22.1		ug/L		88	16 - 167
2,4-Dichlorophenol	25.0	22.4		ug/L		90	52 - 125
Diethyl phthalate	25.0	22.9		ug/L		91	55 - 140
2,4-Dimethylphenol	25.0	20.9		ug/L		83	52 - 121
Dimethyl phthalate	25.0	21.9		ug/L		88	50 - 133
Di-n-butyl phthalate	25.0	23.4		ug/L		93	59 - 144
4,6-Dinitro-o-cresol	50.0	41.1		ug/L		82	46 - 136
2,4-Dinitrophenol	76.6	62.7		ug/L		82	22 - 146
2,4-Dinitrotoluene	25.0	22.8		ug/L		91	54 - 141
2,6-Dinitrotoluene	25.0	21.9		ug/L		88	61 - 130
Di-n-octyl phthalate	25.0	23.1		ug/L		92	55 - 140
1,4-Dioxane	25.0	15.2		ug/L		61	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	25.0	20.0		ug/L		80	55 - 139
Hexachlorobenzene	25.0	21.7		ug/L		87	60 - 138
Hexachlorocyclopentadiene	25.0	14.9	J	ug/L		60	1 - 139
Hexachloroethane	25.0	18.9		ug/L		75	46 - 121
Indene	30.0	24.7		ug/L		82	17 - 141
Isophorone	25.0	20.3		ug/L		81	57 - 122
2-Methylphenol	25.0	22.5		ug/L		90	38 - 121
3 & 4 Methylphenol	25.0	20.5		ug/L		82	43 - 126
2-Nitroaniline	25.0	21.1		ug/L		84	52 - 135
3-Nitroaniline	25.0	20.5		ug/L		82	51 - 128
4-Nitroaniline	25.0	22.7		ug/L		91	38 - 141
Nitrobenzene	25.0	19.9		ug/L		80	52 - 128
2-Nitrophenol	25.0	21.5		ug/L		86	47 - 129
4-Nitrophenol	50.0	53.0		ug/L		106	34 - 137
N-Nitrosodimethylamine	25.0	20.4		ug/L		82	21 - 134
N-Nitrosodi-n-propylamine	25.0	20.8		ug/L		83	41 - 143
N-Nitrosodiphenylamine	85.2	71.3		ug/L		84	10 - 185
Pentachlorophenol	50.0	41.1		ug/L		82	38 - 138
Phenol	25.0	19.5		ug/L		78	37 - 120
Pyridine	25.0	15.6		ug/L		63	10 - 127
2,4,5-Trichlorophenol	25.0	22.4		ug/L		90	53 - 130
2,4,6-Trichlorophenol	25.0	21.5		ug/L		86	52 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*82*		*34 - 120*
2-Fluorophenol	*70*		*10 - 120*
Nitrobenzene-d5	*79*		*27 - 120*
Phenol-d5	*78*		*10 - 120*
Terphenyl-d14	*92*		*53 - 125*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-280032/2-A
Matrix: Water
Analysis Batch: 280147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280032

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	89		15 - 135

Lab Sample ID: LCSD 400-280032/3-A
Matrix: Water
Analysis Batch: 280147

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 280032

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	25.0	19.9		ug/L		80	10 - 145	1	30
Benzoic acid	126	33.3	*	ug/L		26	10 - 120	35	30
Benzyl alcohol	25.0	18.8		ug/L		75	51 - 121	1	30
Bis(2-chloroethoxy)methane	25.0	19.7		ug/L		79	54 - 123	1	30
Bis(2-chloroethyl)ether	25.0	19.3		ug/L		77	47 - 120	0	30
bis (2-chloroisopropyl) ether	25.0	17.8		ug/L		71	20 - 142	1	30
Bis(2-ethylhexyl) phthalate	25.0	22.9		ug/L		92	62 - 140	1	30
4-Bromophenyl phenyl ether	25.0	21.1		ug/L		84	62 - 132	1	30
Butyl benzyl phthalate	25.0	24.1		ug/L		96	51 - 150	0	30
4-Chloroaniline	25.0	18.7		ug/L		75	32 - 128	2	30
4-Chloro-3-methylphenol	25.0	22.1		ug/L		88	47 - 135	1	30
2-Chloronaphthalene	25.0	21.4		ug/L		86	24 - 150	1	30
2-Chlorophenol	25.0	20.2		ug/L		81	45 - 120	1	30
4-Chlorophenyl phenyl ether	25.0	22.0		ug/L		88	61 - 133	0	30
Dibenz[a,h]acridine	30.0	28.2		ug/L		94	60 - 131	0	30
Dibenzofuran	25.0	22.1		ug/L		88	62 - 124	1	30
3,3'-Dichlorobenzidine	25.0	22.5		ug/L		90	16 - 167	2	30
2,4-Dichlorophenol	25.0	22.4		ug/L		89	52 - 125	0	30
Diethyl phthalate	25.0	23.2		ug/L		93	55 - 140	1	30
2,4-Dimethylphenol	25.0	21.1		ug/L		84	52 - 121	1	30
Dimethyl phthalate	25.0	22.0		ug/L		88	50 - 133	0	30
Di-n-butyl phthalate	25.0	23.4		ug/L		94	59 - 144	0	30
4,6-Dinitro-o-cresol	50.0	42.6		ug/L		85	46 - 136	4	30
2,4-Dinitrophenol	76.6	64.3		ug/L		84	22 - 146	3	30
2,4-Dinitrotoluene	25.0	22.9		ug/L		92	54 - 141	1	30
2,6-Dinitrotoluene	25.0	22.2		ug/L		89	61 - 130	1	30
Di-n-octyl phthalate	25.0	23.2		ug/L		93	55 - 140	0	30
1,4-Dioxane	25.0	15.2		ug/L		61	10 - 130	0	30
1,2-Diphenylhydrazine (as Azobenzene)	25.0	20.3		ug/L		81	55 - 139	1	30
Hexachlorobenzene	25.0	21.7		ug/L		87	60 - 138	0	30
Hexachlorocyclopentadiene	25.0	15.2	J	ug/L		61	1 - 139	2	30
Hexachloroethane	25.0	19.1		ug/L		76	46 - 121	1	30
Indene	30.0	24.3		ug/L		81	17 - 141	2	30
Isophorone	25.0	20.2		ug/L		81	57 - 122	0	30
2-Methylphenol	25.0	22.6		ug/L		91	38 - 121	0	30
3 & 4 Methylphenol	25.0	20.8		ug/L		83	43 - 126	2	30
2-Nitroaniline	25.0	21.1		ug/L		85	52 - 135	0	30
3-Nitroaniline	25.0	20.3		ug/L		81	51 - 128	1	30
4-Nitroaniline	25.0	21.2		ug/L		85	38 - 141	7	30
Nitrobenzene	25.0	19.7		ug/L		79	52 - 128	1	30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-280032/3-A
Matrix: Water
Analysis Batch: 280147

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 280032

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Nitrophenol	25.0	21.4		ug/L		86	47 - 129	0	30
4-Nitrophenol	50.0	51.5		ug/L		103	34 - 137	3	30
N-Nitrosodimethylamine	25.0	20.0		ug/L		80	21 - 134	2	30
N-Nitrosodi-n-propylamine	25.0	20.9		ug/L		84	41 - 143	1	30
N-Nitrosodiphenylamine	85.2	72.0		ug/L		85	10 - 185	1	30
Pentachlorophenol	50.0	40.9		ug/L		82	38 - 138	0	30
Phenol	25.0	19.7		ug/L		79	37 - 120	1	30
Pyridine	25.0	15.5		ug/L		62	10 - 127	1	30
2,4,5-Trichlorophenol	25.0	22.6		ug/L		90	53 - 130	1	30
2,4,6-Trichlorophenol	25.0	21.8		ug/L		87	52 - 131	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*81*		*34 - 120*
2-Fluorophenol	*71*		*10 - 120*
Nitrobenzene-d5	*76*		*27 - 120*
Phenol-d5	*76*		*10 - 120*
Terphenyl-d14	*89*		*53 - 125*
2,4,6-Tribromophenol	*87*		*15 - 135*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 400-280032/1-A
Matrix: Water
Analysis Batch: 280568

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 280032

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/22/15 10:55	10/26/15 17:10	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/22/15 10:55	10/26/15 17:10	1
Anthracene	ND		0.20	0.020	ug/L		10/22/15 10:55	10/26/15 17:10	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/22/15 10:55	10/26/15 17:10	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/22/15 10:55	10/26/15 17:10	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/22/15 10:55	10/26/15 17:10	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/22/15 10:55	10/26/15 17:10	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/22/15 10:55	10/26/15 17:10	1
Chrysene	ND		0.20	0.040	ug/L		10/22/15 10:55	10/26/15 17:10	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/22/15 10:55	10/26/15 17:10	1
Fluoranthene	ND		0.20	0.020	ug/L		10/22/15 10:55	10/26/15 17:10	1
Fluorene	ND		0.20	0.021	ug/L		10/22/15 10:55	10/26/15 17:10	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/22/15 10:55	10/26/15 17:10	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/22/15 10:55	10/26/15 17:10	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/22/15 10:55	10/26/15 17:10	1
Phenanthrene	ND		0.20	0.020	ug/L		10/22/15 10:55	10/26/15 17:10	1
Pyrene	ND		0.20	0.020	ug/L		10/22/15 10:55	10/26/15 17:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*47*		*15 - 122*	*10/22/15 10:55*	*10/26/15 17:10*	*1*
Nitrobenzene-d5	*49*		*19 - 130*	*10/22/15 10:55*	*10/26/15 17:10*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 400-280032/1-A
Matrix: Water
Analysis Batch: 280568

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 280032

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	50		33 - 138	10/22/15 10:55	10/26/15 17:10	1

Lab Sample ID: LCS 400-280032/2-A
Matrix: Water
Analysis Batch: 280568

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280032

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	25.0	17.7		ug/L		71	41 - 120
Acenaphthylene	25.0	17.7		ug/L		71	44 - 120
Anthracene	25.0	17.7		ug/L		71	49 - 120
Benzo[a]anthracene	25.0	18.5		ug/L		74	61 - 135
Benzo[a]pyrene	25.0	16.7		ug/L		67	52 - 120
Benzo[b]fluoranthene	25.0	17.9		ug/L		72	53 - 134
Benzo[g,h,i]perylene	25.0	17.3		ug/L		69	47 - 133
Benzo[k]fluoranthene	25.0	16.9		ug/L		68	57 - 134
Chrysene	25.0	18.0		ug/L		72	55 - 122
Dibenz(a,h)anthracene	25.0	17.1		ug/L		68	48 - 146
Fluoranthene	25.0	18.8		ug/L		75	54 - 128
Fluorene	25.0	19.1		ug/L		77	45 - 125
Indeno[1,2,3-cd]pyrene	25.0	16.8		ug/L		67	43 - 142
1-Methylnaphthalene	25.0	18.3		ug/L		73	41 - 120
2-Methylnaphthalene	25.0	18.1		ug/L		72	32 - 124
Phenanthrene	25.0	17.7		ug/L		71	48 - 120
Pyrene	25.0	17.5		ug/L		70	48 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	68		15 - 122
Nitrobenzene-d5	67		19 - 130
Terphenyl-d14	67		33 - 138

Lab Sample ID: LCSD 400-280032/3-A
Matrix: Water
Analysis Batch: 280568

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 280032

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	25.0	19.6		ug/L		78	41 - 120	10	56
Acenaphthylene	25.0	19.5		ug/L		78	44 - 120	9	56
Anthracene	25.0	19.5		ug/L		78	49 - 120	9	51
Benzo[a]anthracene	25.0	20.5		ug/L		82	61 - 135	10	49
Benzo[a]pyrene	25.0	18.5		ug/L		74	52 - 120	10	50
Benzo[b]fluoranthene	25.0	19.9		ug/L		80	53 - 134	10	54
Benzo[g,h,i]perylene	25.0	19.1		ug/L		76	47 - 133	10	50
Benzo[k]fluoranthene	25.0	18.2		ug/L		73	57 - 134	7	52
Chrysene	25.0	19.9		ug/L		80	55 - 122	10	50
Dibenz(a,h)anthracene	25.0	19.2		ug/L		77	48 - 146	12	50
Fluoranthene	25.0	20.8		ug/L		83	54 - 128	10	52
Fluorene	25.0	21.0		ug/L		84	45 - 125	9	56
Indeno[1,2,3-cd]pyrene	25.0	18.8		ug/L		75	43 - 142	11	51

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCSD 400-280032/3-A
Matrix: Water
Analysis Batch: 280568

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 280032

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1-Methylnaphthalene	25.0	20.3		ug/L		81	41 - 120	10	55
2-Methylnaphthalene	25.0	20.0		ug/L		80	32 - 124	10	57
Phenanthrene	25.0	19.4		ug/L		78	48 - 120	9	56
Pyrene	25.0	19.3		ug/L		77	48 - 132	10	52

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*73*		*15 - 122*
Nitrobenzene-d5	*72*		*19 - 130*
Terphenyl-d14	*72*		*33 - 138*

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-279804/1-A
Matrix: Water
Analysis Batch: 279996

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279804

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/21/15 08:59	10/22/15 09:54	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/21/15 08:59	10/22/15 09:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*51 - 149*	*10/21/15 08:59*	*10/22/15 09:54*	*1*

Lab Sample ID: LCS 400-279804/2-A
Matrix: Water
Analysis Batch: 279996

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279804

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.100	0.116		ug/L		116	60 - 140
1,2-Dibromoethane	0.100	0.0880		ug/L		88	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*51 - 149*

Lab Sample ID: LCSD 400-279804/3-A
Matrix: Water
Analysis Batch: 279996

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 279804

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	0.100	0.118		ug/L		118	60 - 140	14	30
1,2-Dibromoethane	0.100	0.0959		ug/L		96	60 - 140	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*109*		*51 - 149*

Shell Oil Products Chain Of Custody Record

AECOM

LAB (LOCATION)

☐ XENCO (_____)
☐ CALSCIENCE (_____) TestAmerica Pensacola; 3355 McLemore Dr. Pensacola, FL 32514 (850-474-1001)
☑ OTHER (Pensacola, FL 32514 (850-474-1001)) Lab Vendor # (_____)
☐ SPL (_____)

Lab Vendor #

Please Check Appropriate Box:

☑ ENV. SERVICES	☐ MOTIVA RETAIL	☐ SHELL RETAIL
☐ MOTIVA SD&CM	☐ CONSULTANT	☐ LUBES
☐ SHELL PIPELINE	☐ OTHER _____	

Print Bill To Contact Name: Bob Billman

PO #: 60400249-21563720.03004

INCIDENT # (ENV SERVICES): 9 7 2 1 8 8 4 0

SAP #: 3 4 0 0 6 1

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 10-15-15

PAGE: 1 of 1

SAMPLING COMPANY: AECOM

LOG CODE:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110

SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA

State: IL

GLOBAL ID NO:

EDF DELIVERABLE TO (Name, Company, Office Location):

PHONE NO.:

E-MAIL:

CONSULTANT PROJECT NO.: Roxana Quarterly GW / 60400249-21563720.03004

PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow

TELEPHONE: 314-429-0100

FAX: 314-429-0462

Bill To Contact E-MAIL: bob.billman@aecom.com; elizabeth.kunkel@aecom.com; lindsay.rathnow@aecom.com

SAMPLER NAME(S) (Print): S. Fisher / D. Haxel

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
* Please include "J" values on Reports.
* Please provide sample receipt upon login.

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

400-112545 COC

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260	VOC 8011	SVOC 8270	PAH 8270LL	Comments
	TB-ROX-101515-8260	10-15	0000	Water	2					2	X				
	TB-ROX-101515-8011	"	0000	"	2					2		X			
	PS7-ROX-101515	↓	1405	↓	4			3		7	X	X	X	X	

Samuel Fisher

Relinquished by: (Signature) Samuel Fisher — Received by: (Signature) FED EX # 8092 2040 9510 — Date: 10-15-15 — Time:

Relinquished by: (Signature) — Received by: (Signature) OCAhus / TA 0.5°C IR-5 — Date: 10/16/15 — Time: 1009

Relinquished by: (Signature) — Received by: (Signature) — Date: — Time:

05/2/08 Revision

Custody Seal – 524371

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12/8/2015

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 400-112545-1
SDG Number: Proj. 60400249-21563720.03004

Login Number: 112545
List Number: 1
Creator: Benforado, Jessica L

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.5°C IR5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112545-1
SDG: Proj. 60400249-21563720.03004

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	12-31-15 *
Arizona	State Program	9	AZ0710	01-11-16
Arkansas DEQ	State Program	6	88-0689	09-01-16
Florida	NELAP	4	E81010	06-30-16
Georgia	State Program	4	N/A	06-30-16
Illinois	NELAP	5	200041	10-09-16
Iowa	State Program	7	367	07-31-16
Kansas	NELAP	7	E-10253	01-31-16 *
Kentucky (UST)	State Program	4	53	06-30-16
Kentucky (WW)	State Program	4	98030	12-31-15
Louisiana	NELAP	6	30976	06-30-16
Maryland	State Program	3	233	09-30-16
Massachusetts	State Program	1	M-FL094	06-30-16
Michigan	State Program	5	9912	06-30-16
New Jersey	NELAP	2	FL006	06-30-16
North Carolina (WW/SW)	State Program	4	314	12-31-15
Oklahoma	State Program	6	9810	08-31-16
Pennsylvania	NELAP	3	68-00467	01-31-16
Rhode Island	State Program	1	LAO00307	12-30-15
South Carolina	State Program	4	96026	06-30-16
Tennessee	State Program	4	TN02907	06-30-16
Texas	NELAP	6	T104704286-15-9	09-30-16
USDA	Federal		P330-13-00193	07-01-16
Virginia	NELAP	3	460166	06-14-16
West Virginia DEP	State Program	3	136	06-30-16

* Certification renewal pending - certification considered valid.

Roxana Groundwater Quarterly – 4th Quarter 2015 Data Review

Laboratory SDG: 400-112635

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 12/7/2015

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2014

Sample Identification	Sample Identification
TB-ROX-101915-8260	TB-ROX-101915-8011
MW4-ROX-101915	MW25-ROX-101915
MW8-ROX-101915	MW7-ROX-100915
MW7-ROX-101915-Dup	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated di-n-octyl phthalate was detected in the method blank. The VOC LCS recovery for dichlorodifluoromethane and the SVOC LCS/LCSD RPD for benzoic acid were outside evaluation criteria. The Method 8270 SVOC surrogate recovery for terphenyl-d_{14} was outside criteria in several samples. VOC MS/MSD recoveries and RPDs were outside evaluation criteria in sample MW4-ROX-101915. Method 8260 VOCs in several samples were diluted due to high levels of target analytes, and phenol also required minimal dilution to bring the concentration within instrument calibration range in several samples. These issues are addressed further in the appropriate sections below.

Additionally, the initial calibration verification for bromomethane, and the initial and continuing calibration verification for dichlorodifluoromethane exceeded evaluation criteria. Three of 69 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds, results may be biased low due to the presence of HCl in the preservative.

The cooler receipt form indicated that two of two coolers were received by the laboratory at temperatures of 0.0°C and 1.5°C, which are outside the 4ºC ± 2ºC criteria. Samples were received in good condition; therefore, no qualification of data was required. The cooler receipt form indicated insufficient sample volume was received for MS/MSD analysis, however MS/MSD analysis was not requested; no qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/ Amount
MB 400-280199/1-A	SVOCs	Di-n-octyl phthalate	1.03 µg/L

Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification. No qualification of data was required.

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS/LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD /RPD Criteria
LCS 400-280961/1002	VOCs	Dichlorodifluoromethane	**171**	NA	41-146
LCS/LCSD 400-280199/2-A/3-A	SVOCs	Benzoic acid	31/21	**37**	10-120/30

Analytical data reported as non-detect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. Analytical data associated with LCS/LCSD RPDs above evaluation criteria did not require qualification; LCS/LCSD recoveries were within evaluation criteria. No qualification of data was required.

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Sample ID	Parameter	Surrogate	Recovery (%)	Criteria (%)
MW25-ROX-101915	SVOCs	Terphenyl-d_{14}	**40**	53-125
MW8-ROX-101915	SVOCs	Terphenyl-d_{14}	**44**	53-125
MW7-ROX-100915	SVOCs	Terphenyl-d_{14}	**41**	53-125
MW7-ROX-101915-Dup	SVOCs	Terphenyl-d_{14}	**40**	53-125

Qualifications due to surrogate recoveries were not required due to only one of six SVOC surrogate recoveries being outside evaluation criteria in each sample. No qualification of data was required.

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

Yes, although not requested, sample MW4-ROX-101915 was spiked and analyzed for Method 8260 VOCs.

Were MS/MSD recoveries within evaluation criteria?

No

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery (%)	RPD	MS/MSD/ RPD Criteria
MW4-ROX-101915	VOCs	2-Chloroethyl vinyl ether	**0/0**	**NC**	10-160/50
MW4-ROX-101915	VOCs	Dichlorodifluoromethane	**181/181**	0	16-160/31

LCS/LCSD recoveries were within evaluation criteria; no further qualification of data was required.

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

Yes

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples analyzed as part of this SDG?

No

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
MW7-ROX-100915	MW7-ROX-100915-Dup

Were field duplicates within evaluation criteria?

Yes

11.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples requiring dilution.

12.0 Additional Qualifications

Were additional qualifications applied?

No

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-112635-1
TestAmerica SDG: Proj. 60400249-21563720.03004
Client Project/Site: ROXANA QUARTERLY GW - 4Q15

For:
AECOM Technical Services Inc.
1001 Highlands Plaza Dr. West
St. Louis, Missouri 63110

Attn: Mrs. Elizabeth Kunkel

Carolyn N. Hooper

Authorized for release by:
11/11/2015 2:57:01 PM

Carolyn Hooper, Project Manager I
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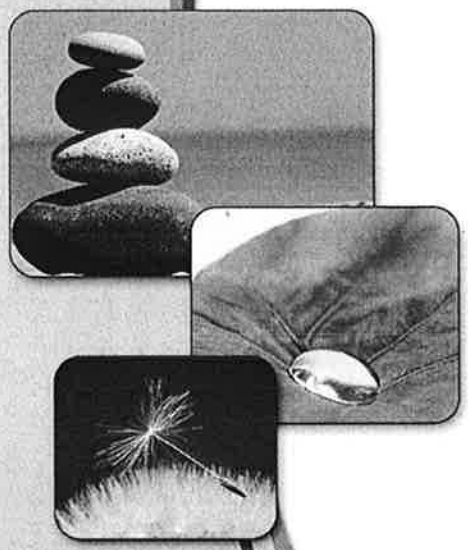

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

Reviewed 12/7/15 LH

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 400-112635-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-112635-1

Receipt
The samples were received on 10/20/2015 10:21 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.0°C and 1.5°C.

GC/MS VOA
Method 8260B: The initial calibration verification (ICV) analyzed in batch 400-279112 was outside method criteria for the following analytes: Bromomethane and Dichlorodifluoromethane As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

The laboratory control sample (LCS) for batch analytical batch 400-280961 recovered outside control limits for one analyte.This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 400-280961 recovered above the upper control limit for Dichlorodifluoromethane. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

The preservative (HCL) used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The requested target analyte list includes 2-chloroethyl vinyl ether, Acrolein and Acrylonitrile, which are acid-labile compounds that degrade in an acidic medium.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-280961 were outside control limits for 2-Chloroethyl vinyl ether due to acidic nature of the parent sample.

The RPD for the MS/MSD for 2-chloroethylvinyl ether was not calculable for batch 280961 because the recoveries were below the reporting limit due to the acidic nature of the parent sample.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-280961 were outside control limits for Dichlorodifluoromethane due to high bias for this analyte on this day of analysis.

GC/MS Semi VOA
Method 8270C: Six surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: MW25-ROX-101915 (400-112635-4), MW8-ROX-101915 (400-112635-5), MW7-ROX-101915 (400-112635-6) and MW7-ROX-101915-DUP (400-112635-7). These results have been reported and qualified.

The method blank for preparation batch 400-280199 and analytical batch 400-280298 contained Di-n-octyl phthalate above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch (LCSD 400-280199/3-A) recovered outside control limits for the following analytes: Benzoic acid.

The following samples was diluted to bring the concentration of target analytes within the calibration range: MW8-ROX-101915 (400-112635-5), MW7-ROX-101915 (400-112635-6) and MW7-ROX-101915-DUP (400-112635-7). Elevated reporting limits (RLs) are provided.

Organic Prep

Job ID: 400-112635-1 (Continued)

Laboratory: TestAmerica Pensacola (Continued)

Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 8270/LL.analytical batch 400-280199.

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

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112635-1
SDG: Proj. 60400249-21563720.03004

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-112635-1	TB-ROX-101915-8260	Water	10/19/15 00:00	10/20/15 10:21
400-112635-2	TB-ROX-101915-8011	Water	10/19/15 00:00	10/20/15 10:21
400-112635-3	MW4-ROX-101915	Water	10/19/15 09:35	10/20/15 10:21
400-112635-4	MW25-ROX-101915	Water	10/19/15 10:40	10/20/15 10:21
400-112635-5	MW8-ROX-101915	Water	10/19/15 11:35	10/20/15 10:21
400-112635-6	MW7-ROX-101915	Water	10/19/15 14:35	10/20/15 10:21
400-112635-7	MW7-ROX-101915-DUP	Water	10/19/15 14:35	10/20/15 10:21

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112635-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: TB-ROX-101915-8260 — Lab Sample ID: 400-112635-1

No Detections.

Client Sample ID: TB-ROX-101915-8011 — Lab Sample ID: 400-112635-2

No Detections.

Client Sample ID: MW4-ROX-101915 — Lab Sample ID: 400-112635-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.6		1.0	0.38	ug/L	1		8260B	Total/NA
Isopropylbenzene	1.6		1.0	0.53	ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	11		1.0	0.74	ug/L	1		8260B	Total/NA
m-Xylene & p-Xylene	4.1	J	5.0	1.6	ug/L	1		8260B	Total/NA
N-Propylbenzene	1.5		1.0	0.69	ug/L	1		8260B	Total/NA
o-Xylene	1.0	J	5.0	0.60	ug/L	1		8260B	Total/NA
Toluene	1.4		1.0	0.70	ug/L	1		8260B	Total/NA
Xylenes, Total	5.1		5.0	0.60	ug/L	1		8260B	Total/NA
1-Methylnaphthalene	0.17	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
2-Methylnaphthalene	0.13	J	0.20	0.020	ug/L	1		8270C LL	Total/NA

Client Sample ID: MW25-ROX-101915 — Lab Sample ID: 400-112635-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	11000		100	38	ug/L	100		8260B	Total/NA
1-Methylnaphthalene	0.26		0.20	0.020	ug/L	1		8270C LL	Total/NA
2-Methylnaphthalene	0.14	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
Phenol	71		10	2.6	ug/L	1		8270C	Total/NA

Client Sample ID: MW8-ROX-101915 — Lab Sample ID: 400-112635-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	580000		5000	1900	ug/L	5000		8260B	Total/NA
Fluorene	0.18	J	0.20	0.021	ug/L	1		8270C LL	Total/NA
1-Methylnaphthalene	8.7		0.20	0.020	ug/L	1		8270C LL	Total/NA
2-Methylnaphthalene	5.2		0.20	0.020	ug/L	1		8270C LL	Total/NA
2,4-Dimethylphenol	6.5	J	10	3.5	ug/L	1		8270C	Total/NA
Indene	1.5	J	10	1.0	ug/L	1		8270C	Total/NA
2-Methylphenol	2.4	J	10	1.8	ug/L	1		8270C	Total/NA
3 & 4 Methylphenol	5.4	J	20	1.0	ug/L	1		8270C	Total/NA
Phenol	210		50	13	ug/L	5		8270C	Total/NA

Client Sample ID: MW7-ROX-101915 — Lab Sample ID: 400-112635-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1000000		10000	3800	ug/L	10000		8260B	Total/NA
Acenaphthene	0.12	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
1-Methylnaphthalene	2.9		0.20	0.020	ug/L	1		8270C LL	Total/NA
2-Methylnaphthalene	4.1		0.20	0.020	ug/L	1		8270C LL	Total/NA
Phenanthrene	0.14	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
2,4-Dimethylphenol	4.3	J	10	3.5	ug/L	1		8270C	Total/NA
Indene	1.8	J	10	1.0	ug/L	1		8270C	Total/NA
3 & 4 Methylphenol	1.8	J	20	1.0	ug/L	1		8270C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW7-ROX-101915 (Continued)

Lab Sample ID: 400-112635-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenol	130		50	13	ug/L	5		8270C	Total/NA

Client Sample ID: MW7-ROX-101915-DUP

Lab Sample ID: 400-112635-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	990000		10000	3800	ug/L	10000		8260B	Total/NA
Fluorene	0.11	J	0.20	0.021	ug/L	1		8270C LL	Total/NA
1-Methylnaphthalene	2.6		0.20	0.020	ug/L	1		8270C LL	Total/NA
2-Methylnaphthalene	3.7		0.20	0.020	ug/L	1		8270C LL	Total/NA
Phenanthrene	0.19	J	0.20	0.020	ug/L	1		8270C LL	Total/NA
Benzoic acid	11	J *	30	7.3	ug/L	1		8270C	Total/NA
Bis(2-ethylhexyl) phthalate	2.4	J	10	2.3	ug/L	1		8270C	Total/NA
2,4-Dimethylphenol	4.4	J	10	3.5	ug/L	1		8270C	Total/NA
Indene	1.8	J	10	1.0	ug/L	1		8270C	Total/NA
3 & 4 Methylphenol	1.8	J	20	1.0	ug/L	1		8270C	Total/NA
Phenol	120		50	13	ug/L	5		8270C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TB-ROX-101915-8260

Date Collected: 10/19/15 00:00
Date Received: 10/20/15 10:21

Lab Sample ID: 400-112635-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/28/15 18:37	1
Acrolein	ND		20	10	ug/L			10/28/15 18:37	1
Acrylonitrile	ND		10	2.8	ug/L			10/28/15 18:37	1
Benzene	ND		1.0	0.38	ug/L			10/28/15 18:37	1
Bromobenzene	ND		1.0	0.54	ug/L			10/28/15 18:37	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/28/15 18:37	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/28/15 18:37	1
Bromoform	ND		5.0	0.71	ug/L			10/28/15 18:37	1
Bromomethane	ND		1.0	0.98	ug/L			10/28/15 18:37	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/28/15 18:37	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/28/15 18:37	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/28/15 18:37	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/28/15 18:37	1
Chloroethane	ND		1.0	0.76	ug/L			10/28/15 18:37	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/28/15 18:37	1
Chloroform	ND		1.0	0.60	ug/L			10/28/15 18:37	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/28/15 18:37	1
Chloromethane	ND		1.0	0.83	ug/L			10/28/15 18:37	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/28/15 18:37	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/28/15 18:37	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/28/15 18:37	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/28/15 18:37	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/28/15 18:37	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/28/15 18:37	1
Dichlorodifluoromethane	ND	*	1.0	0.85	ug/L			10/28/15 18:37	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/28/15 18:37	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/28/15 18:37	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/28/15 18:37	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/28/15 18:37	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/28/15 18:37	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/28/15 18:37	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/28/15 18:37	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/28/15 18:37	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/28/15 18:37	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/28/15 18:37	1
2-Hexanone	ND		25	3.1	ug/L			10/28/15 18:37	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/28/15 18:37	1
Methylene bromide	ND		5.0	0.59	ug/L			10/28/15 18:37	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/28/15 18:37	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/28/15 18:37	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/28/15 18:37	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/28/15 18:37	1
Naphthalene	ND		1.0	1.0	ug/L			10/28/15 18:37	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/28/15 18:37	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/28/15 18:37	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/28/15 18:37	1
o-Xylene	ND		5.0	0.60	ug/L			10/28/15 18:37	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/28/15 18:37	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/28/15 18:37	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112635-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: TB-ROX-101915-8260
Date Collected: 10/19/15 00:00
Date Received: 10/20/15 10:21

Lab Sample ID: 400-112635-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/28/15 18:37	1
Styrene	ND		1.0	1.0	ug/L			10/28/15 18:37	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/28/15 18:37	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/28/15 18:37	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/28/15 18:37	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/28/15 18:37	1
Toluene	ND		1.0	0.70	ug/L			10/28/15 18:37	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/28/15 18:37	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/28/15 18:37	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/28/15 18:37	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/28/15 18:37	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/28/15 18:37	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/28/15 18:37	1
Trichloroethene	ND		1.0	0.50	ug/L			10/28/15 18:37	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/28/15 18:37	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/28/15 18:37	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/28/15 18:37	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/28/15 18:37	1
Vinyl acetate	ND		25	2.0	ug/L			10/28/15 18:37	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/28/15 18:37	1
Xylenes, Total	ND		5.0	0.60	ug/L			10/28/15 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*78 - 118*		*10/28/15 18:37*	*1*
Dibromofluoromethane	*100*		*81 - 121*		*10/28/15 18:37*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/28/15 18:37*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112635-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: TB-ROX-101915-8011
Date Collected: 10/19/15 00:00
Date Received: 10/20/15 10:21

Lab Sample ID: 400-112635-2
Matrix: Water

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.031	0.0056	ug/L		10/23/15 11:58	10/26/15 22:36	1
1,2-Dibromoethane	ND		0.020	0.0051	ug/L		10/23/15 11:58	10/26/15 22:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*51 - 149*	*10/23/15 11:58*	*10/26/15 22:36*	*1*

Client Sample ID: MW4-ROX-101915

Date Collected: 10/19/15 09:35
Date Received: 10/20/15 10:21

Lab Sample ID: 400-112635-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/28/15 22:57	1
Acrolein	ND		20	10	ug/L			10/28/15 22:57	1
Acrylonitrile	ND		10	2.8	ug/L			10/28/15 22:57	1
Benzene	**3.6**		1.0	0.38	ug/L			10/28/15 22:57	1
Bromobenzene	ND		1.0	0.54	ug/L			10/28/15 22:57	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/28/15 22:57	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/28/15 22:57	1
Bromoform	ND		5.0	0.71	ug/L			10/28/15 22:57	1
Bromomethane	ND		1.0	0.98	ug/L			10/28/15 22:57	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/28/15 22:57	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/28/15 22:57	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/28/15 22:57	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/28/15 22:57	1
Chloroethane	ND		1.0	0.76	ug/L			10/28/15 22:57	1
2-Chloroethyl vinyl ether	ND	F1	5.0	2.0	ug/L			10/28/15 22:57	1
Chloroform	ND		1.0	0.60	ug/L			10/28/15 22:57	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/28/15 22:57	1
Chloromethane	ND		1.0	0.83	ug/L			10/28/15 22:57	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/28/15 22:57	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/28/15 22:57	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/28/15 22:57	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/28/15 22:57	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/28/15 22:57	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/28/15 22:57	1
Dichlorodifluoromethane	ND	F1 *	1.0	0.85	ug/L			10/28/15 22:57	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/28/15 22:57	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/28/15 22:57	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/28/15 22:57	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/28/15 22:57	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/28/15 22:57	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/28/15 22:57	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/28/15 22:57	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/28/15 22:57	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/28/15 22:57	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/28/15 22:57	1
2-Hexanone	ND		25	3.1	ug/L			10/28/15 22:57	1
Isopropylbenzene	**1.6**		1.0	0.53	ug/L			10/28/15 22:57	1
Methylene bromide	ND		5.0	0.59	ug/L			10/28/15 22:57	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/28/15 22:57	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/28/15 22:57	1
Methyl tert-butyl ether	**11**		1.0	0.74	ug/L			10/28/15 22:57	1
m-Xylene & p-Xylene	**4.1**	**J**	5.0	1.6	ug/L			10/28/15 22:57	1
Naphthalene	ND		1.0	1.0	ug/L			10/28/15 22:57	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/28/15 22:57	1
N-Propylbenzene	**1.5**		1.0	0.69	ug/L			10/28/15 22:57	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/28/15 22:57	1
o-Xylene	**1.0**	**J**	5.0	0.60	ug/L			10/28/15 22:57	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/28/15 22:57	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/28/15 22:57	1

Client Sample ID: MW4-ROX-101915
Date Collected: 10/19/15 09:35
Date Received: 10/20/15 10:21

Lab Sample ID: 400-112635-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/28/15 22:57	1
Styrene	ND		1.0	1.0	ug/L			10/28/15 22:57	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/28/15 22:57	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/28/15 22:57	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/28/15 22:57	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/28/15 22:57	1
Toluene	**1.4**		1.0	0.70	ug/L			10/28/15 22:57	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/28/15 22:57	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/28/15 22:57	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/28/15 22:57	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/28/15 22:57	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/28/15 22:57	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/28/15 22:57	1
Trichloroethene	ND		1.0	0.50	ug/L			10/28/15 22:57	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/28/15 22:57	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/28/15 22:57	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/28/15 22:57	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/28/15 22:57	1
Vinyl acetate	ND		25	2.0	ug/L			10/28/15 22:57	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/28/15 22:57	1
Xylenes, Total	**5.1**		5.0	0.60	ug/L			10/28/15 22:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*78 - 118*		*10/28/15 22:57*	*1*
Dibromofluoromethane	*98*		*81 - 121*		*10/28/15 22:57*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/28/15 22:57*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/23/15 09:46	10/29/15 09:36	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/23/15 09:46	10/29/15 09:36	1
Anthracene	ND		0.20	0.020	ug/L		10/23/15 09:46	10/29/15 09:36	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 09:36	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 09:36	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 09:36	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 09:36	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 09:36	1
Chrysene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 09:36	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 09:36	1
Fluoranthene	ND		0.20	0.020	ug/L		10/23/15 09:46	10/29/15 09:36	1
Fluorene	ND		0.20	0.021	ug/L		10/23/15 09:46	10/29/15 09:36	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 09:36	1
1-Methylnaphthalene	**0.17**	**J**	0.20	0.020	ug/L		10/23/15 09:46	10/29/15 09:36	1
2-Methylnaphthalene	**0.13**	**J**	0.20	0.020	ug/L		10/23/15 09:46	10/29/15 09:36	1
Phenanthrene	ND		0.20	0.020	ug/L		10/23/15 09:46	10/29/15 09:36	1
Pyrene	ND		0.20	0.020	ug/L		10/23/15 09:46	10/29/15 09:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*15 - 122*	*10/23/15 09:46*	*10/29/15 09:36*	*1*
Nitrobenzene-d5	*67*		*19 - 130*	*10/23/15 09:46*	*10/29/15 09:36*	*1*

Client Sample ID: MW4-ROX-101915

Date Collected: 10/19/15 09:35
Date Received: 10/20/15 10:21

Lab Sample ID: 400-112635-3

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	58		33 - 138	10/23/15 09:46	10/29/15 09:36	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/23/15 09:46	10/26/15 22:13	1
Benzenethiol	ND		10	1.7	ug/L		10/23/15 09:46	10/26/15 22:13	1
Benzoic acid	ND	*	30	7.3	ug/L		10/23/15 09:46	10/26/15 22:13	1
Benzyl alcohol	ND		10	2.0	ug/L		10/23/15 09:46	10/26/15 22:13	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/23/15 09:46	10/26/15 22:13	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/23/15 09:46	10/26/15 22:13	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/23/15 09:46	10/26/15 22:13	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/23/15 09:46	10/26/15 22:13	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/23/15 09:46	10/26/15 22:13	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/23/15 09:46	10/26/15 22:13	1
4-Chloroaniline	ND		10	3.4	ug/L		10/23/15 09:46	10/26/15 22:13	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/23/15 09:46	10/26/15 22:13	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/23/15 09:46	10/26/15 22:13	1
2-Chlorophenol	ND		10	2.2	ug/L		10/23/15 09:46	10/26/15 22:13	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/23/15 09:46	10/26/15 22:13	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/23/15 09:46	10/26/15 22:13	1
Dibenzofuran	ND		10	0.52	ug/L		10/23/15 09:46	10/26/15 22:13	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/23/15 09:46	10/26/15 22:13	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/23/15 09:46	10/26/15 22:13	1
Diethyl phthalate	ND		10	0.70	ug/L		10/23/15 09:46	10/26/15 22:13	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/23/15 09:46	10/26/15 22:13	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/23/15 09:46	10/26/15 22:13	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/23/15 09:46	10/26/15 22:13	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/23/15 09:46	10/26/15 22:13	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/23/15 09:46	10/26/15 22:13	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/23/15 09:46	10/26/15 22:13	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/23/15 09:46	10/26/15 22:13	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/23/15 09:46	10/26/15 22:13	1
1,4-Dioxane	ND		10	1.0	ug/L		10/23/15 09:46	10/26/15 22:13	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/23/15 09:46	10/26/15 22:13	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/23/15 09:46	10/26/15 22:13	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/23/15 09:46	10/26/15 22:13	1
Hexachloroethane	ND		10	4.2	ug/L		10/23/15 09:46	10/26/15 22:13	1
Indene	ND		10	1.0	ug/L		10/23/15 09:46	10/26/15 22:13	1
Isophorone	ND		10	0.57	ug/L		10/23/15 09:46	10/26/15 22:13	1
2-Methylphenol	ND		10	1.8	ug/L		10/23/15 09:46	10/26/15 22:13	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/23/15 09:46	10/26/15 22:13	1
2-Nitroaniline	ND		10	2.2	ug/L		10/23/15 09:46	10/26/15 22:13	1
3-Nitroaniline	ND		10	1.8	ug/L		10/23/15 09:46	10/26/15 22:13	1
4-Nitroaniline	ND		10	2.5	ug/L		10/23/15 09:46	10/26/15 22:13	1
Nitrobenzene	ND		10	0.55	ug/L		10/23/15 09:46	10/26/15 22:13	1
2-Nitrophenol	ND		10	0.65	ug/L		10/23/15 09:46	10/26/15 22:13	1
4-Nitrophenol	ND		10	2.1	ug/L		10/23/15 09:46	10/26/15 22:13	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/23/15 09:46	10/26/15 22:13	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112635-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: MW4-ROX-101915
Date Collected: 10/19/15 09:35
Date Received: 10/20/15 10:21

Lab Sample ID: 400-112635-3
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/23/15 09:46	10/26/15 22:13	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/23/15 09:46	10/26/15 22:13	1
Pentachlorophenol	ND		20	1.8	ug/L		10/23/15 09:46	10/26/15 22:13	1
Phenol	ND		10	2.6	ug/L		10/23/15 09:46	10/26/15 22:13	1
Pyridine	ND		10	3.2	ug/L		10/23/15 09:46	10/26/15 22:13	1
Quinoline	ND		10	6.0	ug/L		10/23/15 09:46	10/26/15 22:13	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/23/15 09:46	10/26/15 22:13	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/23/15 09:46	10/26/15 22:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*34 - 120*	*10/23/15 09:46*	*10/26/15 22:13*	*1*
2-Fluorophenol	*50*		*10 - 120*	*10/23/15 09:46*	*10/26/15 22:13*	*1*
Nitrobenzene-d5	*82*		*27 - 120*	*10/23/15 09:46*	*10/26/15 22:13*	*1*
Phenol-d5	*56*		*10 - 120*	*10/23/15 09:46*	*10/26/15 22:13*	*1*
Terphenyl-d14	*62*		*53 - 125*	*10/23/15 09:46*	*10/26/15 22:13*	*1*
2,4,6-Tribromophenol	*64*		*15 - 135*	*10/23/15 09:46*	*10/26/15 22:13*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/23/15 11:58	10/26/15 23:06	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/23/15 11:58	10/26/15 23:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*51 - 149*	*10/23/15 11:58*	*10/26/15 23:06*	*1*

Client Sample ID: MW25-ROX-101915

Date Collected: 10/19/15 10:40
Date Received: 10/20/15 10:21

Lab Sample ID: 400-112635-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2500	1000	ug/L			10/29/15 01:58	100
Acrolein	ND		2000	1000	ug/L			10/29/15 01:58	100
Acrylonitrile	ND		1000	280	ug/L			10/29/15 01:58	100
Benzene	**11000**		100	38	ug/L			10/29/15 01:58	100
Bromobenzene	ND		100	54	ug/L			10/29/15 01:58	100
Bromochloromethane	ND		100	52	ug/L			10/29/15 01:58	100
Bromodichloromethane	ND		100	50	ug/L			10/29/15 01:58	100
Bromoform	ND		500	71	ug/L			10/29/15 01:58	100
Bromomethane	ND		100	98	ug/L			10/29/15 01:58	100
2-Butanone (MEK)	ND		2500	260	ug/L			10/29/15 01:58	100
Carbon disulfide	ND		100	50	ug/L			10/29/15 01:58	100
Carbon tetrachloride	ND		100	50	ug/L			10/29/15 01:58	100
Chlorobenzene	ND		100	50	ug/L			10/29/15 01:58	100
Chloroethane	ND		100	76	ug/L			10/29/15 01:58	100
2-Chloroethyl vinyl ether	ND		500	200	ug/L			10/29/15 01:58	100
Chloroform	ND		100	60	ug/L			10/29/15 01:58	100
1-Chlorohexane	ND		100	70	ug/L			10/29/15 01:58	100
Chloromethane	ND		100	83	ug/L			10/29/15 01:58	100
cis-1,2-Dichloroethene	ND		100	50	ug/L			10/29/15 01:58	100
cis-1,3-Dichloropropene	ND		500	50	ug/L			10/29/15 01:58	100
Dibromochloromethane	ND		100	50	ug/L			10/29/15 01:58	100
1,2-Dichlorobenzene	ND		100	50	ug/L			10/29/15 01:58	100
1,3-Dichlorobenzene	ND		100	54	ug/L			10/29/15 01:58	100
1,4-Dichlorobenzene	ND		100	64	ug/L			10/29/15 01:58	100
Dichlorodifluoromethane	ND	*	100	85	ug/L			10/29/15 01:58	100
1,1-Dichloroethane	ND		100	50	ug/L			10/29/15 01:58	100
1,2-Dichloroethane	ND		100	50	ug/L			10/29/15 01:58	100
1,1-Dichloroethene	ND		100	50	ug/L			10/29/15 01:58	100
1,2-Dichloropropane	ND		100	50	ug/L			10/29/15 01:58	100
1,3-Dichloropropane	ND		100	50	ug/L			10/29/15 01:58	100
2,2-Dichloropropane	ND		100	50	ug/L			10/29/15 01:58	100
1,1-Dichloropropene	ND		100	50	ug/L			10/29/15 01:58	100
Ethylbenzene	ND		100	50	ug/L			10/29/15 01:58	100
Ethyl methacrylate	ND		100	60	ug/L			10/29/15 01:58	100
Hexachlorobutadiene	ND		500	90	ug/L			10/29/15 01:58	100
2-Hexanone	ND		2500	310	ug/L			10/29/15 01:58	100
Isopropylbenzene	ND		100	53	ug/L			10/29/15 01:58	100
Methylene bromide	ND		500	59	ug/L			10/29/15 01:58	100
Methylene Chloride	ND		500	300	ug/L			10/29/15 01:58	100
4-Methyl-2-pentanone (MIBK)	ND		2500	180	ug/L			10/29/15 01:58	100
Methyl tert-butyl ether	ND		100	74	ug/L			10/29/15 01:58	100
m-Xylene & p-Xylene	ND		500	160	ug/L			10/29/15 01:58	100
Naphthalene	ND		100	100	ug/L			10/29/15 01:58	100
n-Butylbenzene	ND		100	76	ug/L			10/29/15 01:58	100
N-Propylbenzene	ND		100	69	ug/L			10/29/15 01:58	100
o-Chlorotoluene	ND		100	57	ug/L			10/29/15 01:58	100
o-Xylene	ND		500	60	ug/L			10/29/15 01:58	100
p-Chlorotoluene	ND		100	56	ug/L			10/29/15 01:58	100
p-Isopropyltoluene	ND		100	71	ug/L			10/29/15 01:58	100

Client Sample ID: MW25-ROX-101915
Date Collected: 10/19/15 10:40
Date Received: 10/20/15 10:21

Lab Sample ID: 400-112635-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		100	70	ug/L			10/29/15 01:58	100
Styrene	ND		100	100	ug/L			10/29/15 01:58	100
tert-Butylbenzene	ND		100	63	ug/L			10/29/15 01:58	100
1,1,1,2-Tetrachloroethane	ND		100	52	ug/L			10/29/15 01:58	100
1,1,2,2-Tetrachloroethane	ND		100	50	ug/L			10/29/15 01:58	100
Tetrachloroethene	ND		100	58	ug/L			10/29/15 01:58	100
Toluene	ND		100	70	ug/L			10/29/15 01:58	100
trans-1,2-Dichloroethene	ND		100	50	ug/L			10/29/15 01:58	100
trans-1,3-Dichloropropene	ND		500	50	ug/L			10/29/15 01:58	100
1,2,3-Trichlorobenzene	ND		100	70	ug/L			10/29/15 01:58	100
1,2,4-Trichlorobenzene	ND		100	82	ug/L			10/29/15 01:58	100
1,1,1-Trichloroethane	ND		100	50	ug/L			10/29/15 01:58	100
1,1,2-Trichloroethane	ND		500	50	ug/L			10/29/15 01:58	100
Trichloroethene	ND		100	50	ug/L			10/29/15 01:58	100
Trichlorofluoromethane	ND		100	52	ug/L			10/29/15 01:58	100
1,2,3-Trichloropropane	ND		500	84	ug/L			10/29/15 01:58	100
1,2,4-Trimethylbenzene	ND		100	82	ug/L			10/29/15 01:58	100
1,3,5-Trimethylbenzene	ND		100	56	ug/L			10/29/15 01:58	100
Vinyl acetate	ND		2500	200	ug/L			10/29/15 01:58	100
Vinyl chloride	ND		100	50	ug/L			10/29/15 01:58	100
Xylenes, Total	ND		500	60	ug/L			10/29/15 01:58	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*78 - 118*		*10/29/15 01:58*	*100*
Dibromofluoromethane	*98*		*81 - 121*		*10/29/15 01:58*	*100*
Toluene-d8 (Surr)	*94*		*80 - 120*		*10/29/15 01:58*	*100*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/23/15 09:46	10/29/15 10:11	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/23/15 09:46	10/29/15 10:11	1
Anthracene	ND		0.20	0.020	ug/L		10/23/15 09:46	10/29/15 10:11	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 10:11	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 10:11	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 10:11	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 10:11	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 10:11	1
Chrysene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 10:11	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 10:11	1
Fluoranthene	ND		0.20	0.020	ug/L		10/23/15 09:46	10/29/15 10:11	1
Fluorene	ND		0.20	0.021	ug/L		10/23/15 09:46	10/29/15 10:11	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 10:11	1
1-Methylnaphthalene	**0.26**		0.20	0.020	ug/L		10/23/15 09:46	10/29/15 10:11	1
2-Methylnaphthalene	**0.14**	J	0.20	0.020	ug/L		10/23/15 09:46	10/29/15 10:11	1
Phenanthrene	ND		0.20	0.020	ug/L		10/23/15 09:46	10/29/15 10:11	1
Pyrene	ND		0.20	0.020	ug/L		10/23/15 09:46	10/29/15 10:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*57*		*15 - 122*	*10/23/15 09:46*	*10/29/15 10:11*	*1*
Nitrobenzene-d5	*56*		*19 - 130*	*10/23/15 09:46*	*10/29/15 10:11*	*1*

Client Sample ID: MW25-ROX-101915
Date Collected: 10/19/15 10:40
Date Received: 10/20/15 10:21

Lab Sample ID: 400-112635-4
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	35		33 - 138	10/23/15 09:46	10/29/15 10:11	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/23/15 09:46	10/26/15 22:51	1
Benzenethiol	ND		10	1.7	ug/L		10/23/15 09:46	10/26/15 22:51	1
Benzoic acid	ND	*	30	7.3	ug/L		10/23/15 09:46	10/26/15 22:51	1
Benzyl alcohol	ND		10	2.0	ug/L		10/23/15 09:46	10/26/15 22:51	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/23/15 09:46	10/26/15 22:51	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/23/15 09:46	10/26/15 22:51	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/23/15 09:46	10/26/15 22:51	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/23/15 09:46	10/26/15 22:51	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/23/15 09:46	10/26/15 22:51	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/23/15 09:46	10/26/15 22:51	1
4-Chloroaniline	ND		10	3.4	ug/L		10/23/15 09:46	10/26/15 22:51	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/23/15 09:46	10/26/15 22:51	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/23/15 09:46	10/26/15 22:51	1
2-Chlorophenol	ND		10	2.2	ug/L		10/23/15 09:46	10/26/15 22:51	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/23/15 09:46	10/26/15 22:51	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/23/15 09:46	10/26/15 22:51	1
Dibenzofuran	ND		10	0.52	ug/L		10/23/15 09:46	10/26/15 22:51	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/23/15 09:46	10/26/15 22:51	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/23/15 09:46	10/26/15 22:51	1
Diethyl phthalate	ND		10	0.70	ug/L		10/23/15 09:46	10/26/15 22:51	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/23/15 09:46	10/26/15 22:51	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/23/15 09:46	10/26/15 22:51	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/23/15 09:46	10/26/15 22:51	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/23/15 09:46	10/26/15 22:51	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/23/15 09:46	10/26/15 22:51	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/23/15 09:46	10/26/15 22:51	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/23/15 09:46	10/26/15 22:51	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/23/15 09:46	10/26/15 22:51	1
1,4-Dioxane	ND		10	1.0	ug/L		10/23/15 09:46	10/26/15 22:51	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/23/15 09:46	10/26/15 22:51	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/23/15 09:46	10/26/15 22:51	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/23/15 09:46	10/26/15 22:51	1
Hexachloroethane	ND		10	4.2	ug/L		10/23/15 09:46	10/26/15 22:51	1
Indene	ND		10	1.0	ug/L		10/23/15 09:46	10/26/15 22:51	1
Isophorone	ND		10	0.57	ug/L		10/23/15 09:46	10/26/15 22:51	1
2-Methylphenol	ND		10	1.8	ug/L		10/23/15 09:46	10/26/15 22:51	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/23/15 09:46	10/26/15 22:51	1
2-Nitroaniline	ND		10	2.2	ug/L		10/23/15 09:46	10/26/15 22:51	1
3-Nitroaniline	ND		10	1.8	ug/L		10/23/15 09:46	10/26/15 22:51	1
4-Nitroaniline	ND		10	2.5	ug/L		10/23/15 09:46	10/26/15 22:51	1
Nitrobenzene	ND		10	0.55	ug/L		10/23/15 09:46	10/26/15 22:51	1
2-Nitrophenol	ND		10	0.65	ug/L		10/23/15 09:46	10/26/15 22:51	1
4-Nitrophenol	ND		10	2.1	ug/L		10/23/15 09:46	10/26/15 22:51	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/23/15 09:46	10/26/15 22:51	1

Client Sample ID: MW25-ROX-101915
Date Collected: 10/19/15 10:40
Date Received: 10/20/15 10:21

Lab Sample ID: 400-112635-4
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/23/15 09:46	10/26/15 22:51	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/23/15 09:46	10/26/15 22:51	1
Pentachlorophenol	ND		20	1.8	ug/L		10/23/15 09:46	10/26/15 22:51	1
Phenol	71		10	2.6	ug/L		10/23/15 09:46	10/26/15 22:51	1
Pyridine	ND		10	3.2	ug/L		10/23/15 09:46	10/26/15 22:51	1
Quinoline	ND		10	6.0	ug/L		10/23/15 09:46	10/26/15 22:51	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/23/15 09:46	10/26/15 22:51	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/23/15 09:46	10/26/15 22:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*34 - 120*	*10/23/15 09:46*	*10/26/15 22:51*	*1*
2-Fluorophenol	*45*		*10 - 120*	*10/23/15 09:46*	*10/26/15 22:51*	*1*
Nitrobenzene-d5	*72*		*27 - 120*	*10/23/15 09:46*	*10/26/15 22:51*	*1*
Phenol-d5	*45*		*10 - 120*	*10/23/15 09:46*	*10/26/15 22:51*	*1*
Terphenyl-d14	*40*	*X*	*53 - 125*	*10/23/15 09:46*	*10/26/15 22:51*	*1*
2,4,6-Tribromophenol	*53*		*15 - 135*	*10/23/15 09:46*	*10/26/15 22:51*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.031	0.0056	ug/L		10/23/15 11:53	10/27/15 03:03	1
1,2-Dibromoethane	ND		0.021	0.0051	ug/L		10/23/15 11:53	10/27/15 03:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*51 - 149*	*10/23/15 11:53*	*10/27/15 03:03*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112635-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: MW8-ROX-101915
Date Collected: 10/19/15 11:35
Date Received: 10/20/15 10:21

Lab Sample ID: 400-112635-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		130000	50000	ug/L			10/29/15 02:24	5000
Acrolein	ND		100000	50000	ug/L			10/29/15 02:24	5000
Acrylonitrile	ND		50000	14000	ug/L			10/29/15 02:24	5000
Benzene	**580000**		5000	1900	ug/L			10/29/15 02:24	5000
Bromobenzene	ND		5000	2700	ug/L			10/29/15 02:24	5000
Bromochloromethane	ND		5000	2600	ug/L			10/29/15 02:24	5000
Bromodichloromethane	ND		5000	2500	ug/L			10/29/15 02:24	5000
Bromoform	ND		25000	3600	ug/L			10/29/15 02:24	5000
Bromomethane	ND		5000	4900	ug/L			10/29/15 02:24	5000
2-Butanone (MEK)	ND		130000	13000	ug/L			10/29/15 02:24	5000
Carbon disulfide	ND		5000	2500	ug/L			10/29/15 02:24	5000
Carbon tetrachloride	ND		5000	2500	ug/L			10/29/15 02:24	5000
Chlorobenzene	ND		5000	2500	ug/L			10/29/15 02:24	5000
Chloroethane	ND		5000	3800	ug/L			10/29/15 02:24	5000
2-Chloroethyl vinyl ether	ND		25000	10000	ug/L			10/29/15 02:24	5000
Chloroform	ND		5000	3000	ug/L			10/29/15 02:24	5000
1-Chlorohexane	ND		5000	3500	ug/L			10/29/15 02:24	5000
Chloromethane	ND		5000	4200	ug/L			10/29/15 02:24	5000
cis-1,2-Dichloroethene	ND		5000	2500	ug/L			10/29/15 02:24	5000
cis-1,3-Dichloropropene	ND		25000	2500	ug/L			10/29/15 02:24	5000
Dibromochloromethane	ND		5000	2500	ug/L			10/29/15 02:24	5000
1,2-Dichlorobenzene	ND		5000	2500	ug/L			10/29/15 02:24	5000
1,3-Dichlorobenzene	ND		5000	2700	ug/L			10/29/15 02:24	5000
1,4-Dichlorobenzene	ND		5000	3200	ug/L			10/29/15 02:24	5000
Dichlorodifluoromethane	ND		5000	4300	ug/L			10/29/15 02:24	5000
1,1-Dichloroethane	ND		5000	2500	ug/L			10/29/15 02:24	5000
1,2-Dichloroethane	ND		5000	2500	ug/L			10/29/15 02:24	5000
1,1-Dichloroethene	ND		5000	2500	ug/L			10/29/15 02:24	5000
1,2-Dichloropropane	ND		5000	2500	ug/L			10/29/15 02:24	5000
1,3-Dichloropropane	ND		5000	2500	ug/L			10/29/15 02:24	5000
2,2-Dichloropropane	ND		5000	2500	ug/L			10/29/15 02:24	5000
1,1-Dichloropropene	ND		5000	2500	ug/L			10/29/15 02:24	5000
Ethylbenzene	ND		5000	2500	ug/L			10/29/15 02:24	5000
Ethyl methacrylate	ND		5000	3000	ug/L			10/29/15 02:24	5000
Hexachlorobutadiene	ND		25000	4500	ug/L			10/29/15 02:24	5000
2-Hexanone	ND		130000	16000	ug/L			10/29/15 02:24	5000
Isopropylbenzene	ND		5000	2700	ug/L			10/29/15 02:24	5000
Methylene bromide	ND		25000	3000	ug/L			10/29/15 02:24	5000
Methylene Chloride	ND		25000	15000	ug/L			10/29/15 02:24	5000
4-Methyl-2-pentanone (MIBK)	ND		130000	9000	ug/L			10/29/15 02:24	5000
Methyl tert-butyl ether	ND		5000	3700	ug/L			10/29/15 02:24	5000
m-Xylene & p-Xylene	ND		25000	8000	ug/L			10/29/15 02:24	5000
Naphthalene	ND		5000	5000	ug/L			10/29/15 02:24	5000
n-Butylbenzene	ND		5000	3800	ug/L			10/29/15 02:24	5000
N-Propylbenzene	ND		5000	3500	ug/L			10/29/15 02:24	5000
o-Chlorotoluene	ND		5000	2900	ug/L			10/29/15 02:24	5000
o-Xylene	ND		25000	3000	ug/L			10/29/15 02:24	5000
p-Chlorotoluene	ND		5000	2800	ug/L			10/29/15 02:24	5000
p-Isopropyltoluene	ND		5000	3600	ug/L			10/29/15 02:24	5000

Client Sample ID: MW8-ROX-101915

Date Collected: 10/19/15 11:35
Date Received: 10/20/15 10:21

Lab Sample ID: 400-112635-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		5000	3500	ug/L			10/29/15 02:24	5000
Styrene	ND		5000	5000	ug/L			10/29/15 02:24	5000
tert-Butylbenzene	ND		5000	3200	ug/L			10/29/15 02:24	5000
1,1,1,2-Tetrachloroethane	ND		5000	2600	ug/L			10/29/15 02:24	5000
1,1,2,2-Tetrachloroethane	ND		5000	2500	ug/L			10/29/15 02:24	5000
Tetrachloroethene	ND		5000	2900	ug/L			10/29/15 02:24	5000
Toluene	ND		5000	3500	ug/L			10/29/15 02:24	5000
trans-1,2-Dichloroethene	ND		5000	2500	ug/L			10/29/15 02:24	5000
trans-1,3-Dichloropropene	ND		25000	2500	ug/L			10/29/15 02:24	5000
1,2,3-Trichlorobenzene	ND		5000	3500	ug/L			10/29/15 02:24	5000
1,2,4-Trichlorobenzene	ND		5000	4100	ug/L			10/29/15 02:24	5000
1,1,1-Trichloroethane	ND		5000	2500	ug/L			10/29/15 02:24	5000
1,1,2-Trichloroethane	ND		25000	2500	ug/L			10/29/15 02:24	5000
Trichloroethene	ND		5000	2500	ug/L			10/29/15 02:24	5000
Trichlorofluoromethane	ND		5000	2600	ug/L			10/29/15 02:24	5000
1,2,3-Trichloropropane	ND		25000	4200	ug/L			10/29/15 02:24	5000
1,2,4-Trimethylbenzene	ND		5000	4100	ug/L			10/29/15 02:24	5000
1,3,5-Trimethylbenzene	ND		5000	2800	ug/L			10/29/15 02:24	5000
Vinyl acetate	ND		130000	10000	ug/L			10/29/15 02:24	5000
Vinyl chloride	ND		5000	2500	ug/L			10/29/15 02:24	5000
Xylenes, Total	ND		25000	3000	ug/L			10/29/15 02:24	5000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*78 - 118*		*10/29/15 02:24*	*5000*
Dibromofluoromethane	*98*		*81 - 121*		*10/29/15 02:24*	*5000*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/29/15 02:24*	*5000*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/23/15 09:46	10/29/15 10:46	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/23/15 09:46	10/29/15 10:46	1
Anthracene	ND		0.20	0.020	ug/L		10/23/15 09:46	10/29/15 10:46	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 10:46	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 10:46	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 10:46	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 10:46	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 10:46	1
Chrysene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 10:46	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 10:46	1
Fluoranthene	ND		0.20	0.020	ug/L		10/23/15 09:46	10/29/15 10:46	1
Fluorene	**0.18**	J	0.20	0.021	ug/L		10/23/15 09:46	10/29/15 10:46	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 10:46	1
1-Methylnaphthalene	**8.7**		0.20	0.020	ug/L		10/23/15 09:46	10/29/15 10:46	1
2-Methylnaphthalene	**5.2**		0.20	0.020	ug/L		10/23/15 09:46	10/29/15 10:46	1
Phenanthrene	ND		0.20	0.020	ug/L		10/23/15 09:46	10/29/15 10:46	1
Pyrene	ND		0.20	0.020	ug/L		10/23/15 09:46	10/29/15 10:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*57*		*15 - 122*	*10/23/15 09:46*	*10/29/15 10:46*	*1*
Nitrobenzene-d5	*62*		*19 - 130*	*10/23/15 09:46*	*10/29/15 10:46*	*1*

Client Sample ID: MW8-ROX-101915

Date Collected: 10/19/15 11:35
Date Received: 10/20/15 10:21

Lab Sample ID: 400-112635-5

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	*42*		*33 - 138*	*10/23/15 09:46*	*10/29/15 10:46*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/23/15 09:46	10/26/15 23:29	1
Benzenethiol	ND		10	1.7	ug/L		10/23/15 09:46	10/26/15 23:29	1
Benzoic acid	ND	*	30	7.3	ug/L		10/23/15 09:46	10/26/15 23:29	1
Benzyl alcohol	ND		10	2.0	ug/L		10/23/15 09:46	10/26/15 23:29	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/23/15 09:46	10/26/15 23:29	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/23/15 09:46	10/26/15 23:29	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/23/15 09:46	10/26/15 23:29	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/23/15 09:46	10/26/15 23:29	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/23/15 09:46	10/26/15 23:29	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/23/15 09:46	10/26/15 23:29	1
4-Chloroaniline	ND		10	3.4	ug/L		10/23/15 09:46	10/26/15 23:29	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/23/15 09:46	10/26/15 23:29	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/23/15 09:46	10/26/15 23:29	1
2-Chlorophenol	ND		10	2.2	ug/L		10/23/15 09:46	10/26/15 23:29	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/23/15 09:46	10/26/15 23:29	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/23/15 09:46	10/26/15 23:29	1
Dibenzofuran	ND		10	0.52	ug/L		10/23/15 09:46	10/26/15 23:29	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/23/15 09:46	10/26/15 23:29	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/23/15 09:46	10/26/15 23:29	1
Diethyl phthalate	ND		10	0.70	ug/L		10/23/15 09:46	10/26/15 23:29	1
2,4-Dimethylphenol	**6.5**	**J**	10	3.5	ug/L		10/23/15 09:46	10/26/15 23:29	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/23/15 09:46	10/26/15 23:29	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/23/15 09:46	10/26/15 23:29	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/23/15 09:46	10/26/15 23:29	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/23/15 09:46	10/26/15 23:29	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/23/15 09:46	10/26/15 23:29	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/23/15 09:46	10/26/15 23:29	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/23/15 09:46	10/26/15 23:29	1
1,4-Dioxane	ND		10	1.0	ug/L		10/23/15 09:46	10/26/15 23:29	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/23/15 09:46	10/26/15 23:29	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/23/15 09:46	10/26/15 23:29	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/23/15 09:46	10/26/15 23:29	1
Hexachloroethane	ND		10	4.2	ug/L		10/23/15 09:46	10/26/15 23:29	1
Indene	**1.5**	**J**	10	1.0	ug/L		10/23/15 09:46	10/26/15 23:29	1
Isophorone	ND		10	0.57	ug/L		10/23/15 09:46	10/26/15 23:29	1
2-Methylphenol	**2.4**	**J**	10	1.8	ug/L		10/23/15 09:46	10/26/15 23:29	1
3 & 4 Methylphenol	**5.4**	**J**	20	1.0	ug/L		10/23/15 09:46	10/26/15 23:29	1
2-Nitroaniline	ND		10	2.2	ug/L		10/23/15 09:46	10/26/15 23:29	1
3-Nitroaniline	ND		10	1.8	ug/L		10/23/15 09:46	10/26/15 23:29	1
4-Nitroaniline	ND		10	2.5	ug/L		10/23/15 09:46	10/26/15 23:29	1
Nitrobenzene	ND		10	0.55	ug/L		10/23/15 09:46	10/26/15 23:29	1
2-Nitrophenol	ND		10	0.65	ug/L		10/23/15 09:46	10/26/15 23:29	1
4-Nitrophenol	ND		10	2.1	ug/L		10/23/15 09:46	10/26/15 23:29	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/23/15 09:46	10/26/15 23:29	1

Client Sample ID: MW8-ROX-101915

Date Collected: 10/19/15 11:35
Date Received: 10/20/15 10:21

Lab Sample ID: 400-112635-5

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/23/15 09:46	10/26/15 23:29	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/23/15 09:46	10/26/15 23:29	1
Pentachlorophenol	ND		20	1.8	ug/L		10/23/15 09:46	10/26/15 23:29	1
Phenol	**210**		50	13	ug/L		10/23/15 09:46	10/27/15 18:30	5
Pyridine	ND		10	3.2	ug/L		10/23/15 09:46	10/26/15 23:29	1
Quinoline	ND		10	6.0	ug/L		10/23/15 09:46	10/26/15 23:29	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/23/15 09:46	10/26/15 23:29	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/23/15 09:46	10/26/15 23:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*64*		*34 - 120*	*10/23/15 09:46*	*10/26/15 23:29*	*1*
2-Fluorophenol	*37*		*10 - 120*	*10/23/15 09:46*	*10/26/15 23:29*	*1*
Nitrobenzene-d5	*67*		*27 - 120*	*10/23/15 09:46*	*10/26/15 23:29*	*1*
Phenol-d5	*43*		*10 - 120*	*10/23/15 09:46*	*10/26/15 23:29*	*1*
Terphenyl-d14	*44*	*X*	*53 - 125*	*10/23/15 09:46*	*10/26/15 23:29*	*1*
2,4,6-Tribromophenol	*62*		*15 - 135*	*10/23/15 09:46*	*10/26/15 23:29*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/23/15 11:53	10/27/15 03:33	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/23/15 11:53	10/27/15 03:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*115*		*51 - 149*	*10/23/15 11:53*	*10/27/15 03:33*	*1*

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112635-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: MW7-ROX-101915
Date Collected: 10/19/15 14:35
Date Received: 10/20/15 10:21

Lab Sample ID: 400-112635-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		250000	100000	ug/L			10/29/15 02:49	10000
Acrolein	ND		200000	100000	ug/L			10/29/15 02:49	10000
Acrylonitrile	ND		100000	28000	ug/L			10/29/15 02:49	10000
Benzene	**1000000**		10000	3800	ug/L			10/29/15 02:49	10000
Bromobenzene	ND		10000	5400	ug/L			10/29/15 02:49	10000
Bromochloromethane	ND		10000	5200	ug/L			10/29/15 02:49	10000
Bromodichloromethane	ND		10000	5000	ug/L			10/29/15 02:49	10000
Bromoform	ND		50000	7100	ug/L			10/29/15 02:49	10000
Bromomethane	ND		10000	9800	ug/L			10/29/15 02:49	10000
2-Butanone (MEK)	ND		250000	26000	ug/L			10/29/15 02:49	10000
Carbon disulfide	ND		10000	5000	ug/L			10/29/15 02:49	10000
Carbon tetrachloride	ND		10000	5000	ug/L			10/29/15 02:49	10000
Chlorobenzene	ND		10000	5000	ug/L			10/29/15 02:49	10000
Chloroethane	ND		10000	7600	ug/L			10/29/15 02:49	10000
2-Chloroethyl vinyl ether	ND		50000	20000	ug/L			10/29/15 02:49	10000
Chloroform	ND		10000	6000	ug/L			10/29/15 02:49	10000
1-Chlorohexane	ND		10000	7000	ug/L			10/29/15 02:49	10000
Chloromethane	ND		10000	8300	ug/L			10/29/15 02:49	10000
cis-1,2-Dichloroethene	ND		10000	5000	ug/L			10/29/15 02:49	10000
cis-1,3-Dichloropropene	ND		50000	5000	ug/L			10/29/15 02:49	10000
Dibromochloromethane	ND		10000	5000	ug/L			10/29/15 02:49	10000
1,2-Dichlorobenzene	ND		10000	5000	ug/L			10/29/15 02:49	10000
1,3-Dichlorobenzene	ND		10000	5400	ug/L			10/29/15 02:49	10000
1,4-Dichlorobenzene	ND		10000	6400	ug/L			10/29/15 02:49	10000
Dichlorodifluoromethane	ND		10000	8500	ug/L			10/29/15 02:49	10000
1,1-Dichloroethane	ND		10000	5000	ug/L			10/29/15 02:49	10000
1,2-Dichloroethane	ND		10000	5000	ug/L			10/29/15 02:49	10000
1,1-Dichloroethene	ND		10000	5000	ug/L			10/29/15 02:49	10000
1,2-Dichloropropane	ND		10000	5000	ug/L			10/29/15 02:49	10000
1,3-Dichloropropane	ND		10000	5000	ug/L			10/29/15 02:49	10000
2,2-Dichloropropane	ND		10000	5000	ug/L			10/29/15 02:49	10000
1,1-Dichloropropene	ND		10000	5000	ug/L			10/29/15 02:49	10000
Ethylbenzene	ND		10000	5000	ug/L			10/29/15 02:49	10000
Ethyl methacrylate	ND		10000	6000	ug/L			10/29/15 02:49	10000
Hexachlorobutadiene	ND		50000	9000	ug/L			10/29/15 02:49	10000
2-Hexanone	ND		250000	31000	ug/L			10/29/15 02:49	10000
Isopropylbenzene	ND		10000	5300	ug/L			10/29/15 02:49	10000
Methylene bromide	ND		50000	5900	ug/L			10/29/15 02:49	10000
Methylene Chloride	ND		50000	30000	ug/L			10/29/15 02:49	10000
4-Methyl-2-pentanone (MIBK)	ND		250000	18000	ug/L			10/29/15 02:49	10000
Methyl tert-butyl ether	ND		10000	7400	ug/L			10/29/15 02:49	10000
m-Xylene & p-Xylene	ND		50000	16000	ug/L			10/29/15 02:49	10000
Naphthalene	ND		10000	10000	ug/L			10/29/15 02:49	10000
n-Butylbenzene	ND		10000	7600	ug/L			10/29/15 02:49	10000
N-Propylbenzene	ND		10000	6900	ug/L			10/29/15 02:49	10000
o-Chlorotoluene	ND		10000	5700	ug/L			10/29/15 02:49	10000
o-Xylene	ND		50000	6000	ug/L			10/29/15 02:49	10000
p-Chlorotoluene	ND		10000	5600	ug/L			10/29/15 02:49	10000
p-Isopropyltoluene	ND		10000	7100	ug/L			10/29/15 02:49	10000

Client Sample ID: MW7-ROX-101915
Date Collected: 10/19/15 14:35
Date Received: 10/20/15 10:21

Lab Sample ID: 400-112635-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		10000	7000	ug/L			10/29/15 02:49	10000
Styrene	ND		10000	10000	ug/L			10/29/15 02:49	10000
tert-Butylbenzene	ND		10000	6300	ug/L			10/29/15 02:49	10000
1,1,1,2-Tetrachloroethane	ND		10000	5200	ug/L			10/29/15 02:49	10000
1,1,2,2-Tetrachloroethane	ND		10000	5000	ug/L			10/29/15 02:49	10000
Tetrachloroethene	ND		10000	5800	ug/L			10/29/15 02:49	10000
Toluene	ND		10000	7000	ug/L			10/29/15 02:49	10000
trans-1,2-Dichloroethene	ND		10000	5000	ug/L			10/29/15 02:49	10000
trans-1,3-Dichloropropene	ND		50000	5000	ug/L			10/29/15 02:49	10000
1,2,3-Trichlorobenzene	ND		10000	7000	ug/L			10/29/15 02:49	10000
1,2,4-Trichlorobenzene	ND		10000	8200	ug/L			10/29/15 02:49	10000
1,1,1-Trichloroethane	ND		10000	5000	ug/L			10/29/15 02:49	10000
1,1,2-Trichloroethane	ND		50000	5000	ug/L			10/29/15 02:49	10000
Trichloroethene	ND		10000	5000	ug/L			10/29/15 02:49	10000
Trichlorofluoromethane	ND		10000	5200	ug/L			10/29/15 02:49	10000
1,2,3-Trichloropropane	ND		50000	8400	ug/L			10/29/15 02:49	10000
1,2,4-Trimethylbenzene	ND		10000	8200	ug/L			10/29/15 02:49	10000
1,3,5-Trimethylbenzene	ND		10000	5600	ug/L			10/29/15 02:49	10000
Vinyl acetate	ND		250000	20000	ug/L			10/29/15 02:49	10000
Vinyl chloride	ND		10000	5000	ug/L			10/29/15 02:49	10000
Xylenes, Total	ND		50000	6000	ug/L			10/29/15 02:49	10000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*78 - 118*		*10/29/15 02:49*	*10000*
Dibromofluoromethane	*98*		*81 - 121*		*10/29/15 02:49*	*10000*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/29/15 02:49*	*10000*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.12**	**J**	0.20	0.020	ug/L		10/23/15 09:46	10/29/15 11:22	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/23/15 09:46	10/29/15 11:22	1
Anthracene	ND		0.20	0.020	ug/L		10/23/15 09:46	10/29/15 11:22	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 11:22	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 11:22	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 11:22	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 11:22	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 11:22	1
Chrysene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 11:22	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 11:22	1
Fluoranthene	ND		0.20	0.020	ug/L		10/23/15 09:46	10/29/15 11:22	1
Fluorene	ND		0.20	0.021	ug/L		10/23/15 09:46	10/29/15 11:22	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 11:22	1
1-Methylnaphthalene	**2.9**		0.20	0.020	ug/L		10/23/15 09:46	10/29/15 11:22	1
2-Methylnaphthalene	**4.1**		0.20	0.020	ug/L		10/23/15 09:46	10/29/15 11:22	1
Phenanthrene	**0.14**	**J**	0.20	0.020	ug/L		10/23/15 09:46	10/29/15 11:22	1
Pyrene	ND		0.20	0.020	ug/L		10/23/15 09:46	10/29/15 11:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*63*		*15 - 122*	*10/23/15 09:46*	*10/29/15 11:22*	*1*
Nitrobenzene-d5	*51*		*19 - 130*	*10/23/15 09:46*	*10/29/15 11:22*	*1*

Client Sample ID: MW7-ROX-101915

Date Collected: 10/19/15 14:35
Date Received: 10/20/15 10:21

Lab Sample ID: 400-112635-6

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	*37*		*33 - 138*	*10/23/15 09:46*	*10/29/15 11:22*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/23/15 09:46	10/27/15 00:07	1
Benzenethiol	ND		10	1.7	ug/L		10/23/15 09:46	10/27/15 00:07	1
Benzoic acid	ND	*	30	7.3	ug/L		10/23/15 09:46	10/27/15 00:07	1
Benzyl alcohol	ND		10	2.0	ug/L		10/23/15 09:46	10/27/15 00:07	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/23/15 09:46	10/27/15 00:07	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/23/15 09:46	10/27/15 00:07	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/23/15 09:46	10/27/15 00:07	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/23/15 09:46	10/27/15 00:07	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/23/15 09:46	10/27/15 00:07	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/23/15 09:46	10/27/15 00:07	1
4-Chloroaniline	ND		10	3.4	ug/L		10/23/15 09:46	10/27/15 00:07	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/23/15 09:46	10/27/15 00:07	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/23/15 09:46	10/27/15 00:07	1
2-Chlorophenol	ND		10	2.2	ug/L		10/23/15 09:46	10/27/15 00:07	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/23/15 09:46	10/27/15 00:07	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/23/15 09:46	10/27/15 00:07	1
Dibenzofuran	ND		10	0.52	ug/L		10/23/15 09:46	10/27/15 00:07	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/23/15 09:46	10/27/15 00:07	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/23/15 09:46	10/27/15 00:07	1
Diethyl phthalate	ND		10	0.70	ug/L		10/23/15 09:46	10/27/15 00:07	1
2,4-Dimethylphenol	**4.3**	**J**	10	3.5	ug/L		10/23/15 09:46	10/27/15 00:07	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/23/15 09:46	10/27/15 00:07	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/23/15 09:46	10/27/15 00:07	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/23/15 09:46	10/27/15 00:07	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/23/15 09:46	10/27/15 00:07	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/23/15 09:46	10/27/15 00:07	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/23/15 09:46	10/27/15 00:07	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/23/15 09:46	10/27/15 00:07	1
1,4-Dioxane	ND		10	1.0	ug/L		10/23/15 09:46	10/27/15 00:07	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/23/15 09:46	10/27/15 00:07	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/23/15 09:46	10/27/15 00:07	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/23/15 09:46	10/27/15 00:07	1
Hexachloroethane	ND		10	4.2	ug/L		10/23/15 09:46	10/27/15 00:07	1
Indene	**1.8**	**J**	10	1.0	ug/L		10/23/15 09:46	10/27/15 00:07	1
Isophorone	ND		10	0.57	ug/L		10/23/15 09:46	10/27/15 00:07	1
2-Methylphenol	ND		10	1.8	ug/L		10/23/15 09:46	10/27/15 00:07	1
3 & 4 Methylphenol	**1.8**	**J**	20	1.0	ug/L		10/23/15 09:46	10/27/15 00:07	1
2-Nitroaniline	ND		10	2.2	ug/L		10/23/15 09:46	10/27/15 00:07	1
3-Nitroaniline	ND		10	1.8	ug/L		10/23/15 09:46	10/27/15 00:07	1
4-Nitroaniline	ND		10	2.5	ug/L		10/23/15 09:46	10/27/15 00:07	1
Nitrobenzene	ND		10	0.55	ug/L		10/23/15 09:46	10/27/15 00:07	1
2-Nitrophenol	ND		10	0.65	ug/L		10/23/15 09:46	10/27/15 00:07	1
4-Nitrophenol	ND		10	2.1	ug/L		10/23/15 09:46	10/27/15 00:07	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/23/15 09:46	10/27/15 00:07	1

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112635-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: MW7-ROX-101915
Date Collected: 10/19/15 14:35
Date Received: 10/20/15 10:21

Lab Sample ID: 400-112635-6
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/23/15 09:46	10/27/15 00:07	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/23/15 09:46	10/27/15 00:07	1
Pentachlorophenol	ND		20	1.8	ug/L		10/23/15 09:46	10/27/15 00:07	1
Phenol	**130**		50	13	ug/L		10/23/15 09:46	10/27/15 19:09	5
Pyridine	ND		10	3.2	ug/L		10/23/15 09:46	10/27/15 00:07	1
Quinoline	ND		10	6.0	ug/L		10/23/15 09:46	10/27/15 00:07	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/23/15 09:46	10/27/15 00:07	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/23/15 09:46	10/27/15 00:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*34 - 120*	*10/23/15 09:46*	*10/27/15 00:07*	*1*
2-Fluorophenol	*41*		*10 - 120*	*10/23/15 09:46*	*10/27/15 00:07*	*1*
Nitrobenzene-d5	*60*		*27 - 120*	*10/23/15 09:46*	*10/27/15 00:07*	*1*
Phenol-d5	*46*		*10 - 120*	*10/23/15 09:46*	*10/27/15 00:07*	*1*
Terphenyl-d14	*41*	*X*	*53 - 125*	*10/23/15 09:46*	*10/27/15 00:07*	*1*
2,4,6-Tribromophenol	*67*		*15 - 135*	*10/23/15 09:46*	*10/27/15 00:07*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.029	0.0054	ug/L		10/23/15 11:53	10/27/15 04:03	1
1,2-Dibromoethane	ND		0.020	0.0049	ug/L		10/23/15 11:53	10/27/15 04:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*112*		*51 - 149*	*10/23/15 11:53*	*10/27/15 04:03*	*1*

Client Sample ID: MW7-ROX-101915-DUP

Date Collected: 10/19/15 14:35
Date Received: 10/20/15 10:21

Lab Sample ID: 400-112635-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		250000	100000	ug/L			10/29/15 03:15	10000
Acrolein	ND		200000	100000	ug/L			10/29/15 03:15	10000
Acrylonitrile	ND		100000	28000	ug/L			10/29/15 03:15	10000
Benzene	**990000**		10000	3800	ug/L			10/29/15 03:15	10000
Bromobenzene	ND		10000	5400	ug/L			10/29/15 03:15	10000
Bromochloromethane	ND		10000	5200	ug/L			10/29/15 03:15	10000
Bromodichloromethane	ND		10000	5000	ug/L			10/29/15 03:15	10000
Bromoform	ND		50000	7100	ug/L			10/29/15 03:15	10000
Bromomethane	ND		10000	9800	ug/L			10/29/15 03:15	10000
2-Butanone (MEK)	ND		250000	26000	ug/L			10/29/15 03:15	10000
Carbon disulfide	ND		10000	5000	ug/L			10/29/15 03:15	10000
Carbon tetrachloride	ND		10000	5000	ug/L			10/29/15 03:15	10000
Chlorobenzene	ND		10000	5000	ug/L			10/29/15 03:15	10000
Chloroethane	ND		10000	7600	ug/L			10/29/15 03:15	10000
2-Chloroethyl vinyl ether	ND		50000	20000	ug/L			10/29/15 03:15	10000
Chloroform	ND		10000	6000	ug/L			10/29/15 03:15	10000
1-Chlorohexane	ND		10000	7000	ug/L			10/29/15 03:15	10000
Chloromethane	ND		10000	8300	ug/L			10/29/15 03:15	10000
cis-1,2-Dichloroethene	ND		10000	5000	ug/L			10/29/15 03:15	10000
cis-1,3-Dichloropropene	ND		50000	5000	ug/L			10/29/15 03:15	10000
Dibromochloromethane	ND		10000	5000	ug/L			10/29/15 03:15	10000
1,2-Dichlorobenzene	ND		10000	5000	ug/L			10/29/15 03:15	10000
1,3-Dichlorobenzene	ND		10000	5400	ug/L			10/29/15 03:15	10000
1,4-Dichlorobenzene	ND		10000	6400	ug/L			10/29/15 03:15	10000
Dichlorodifluoromethane	ND		10000	8500	ug/L			10/29/15 03:15	10000
1,1-Dichloroethane	ND		10000	5000	ug/L			10/29/15 03:15	10000
1,2-Dichloroethane	ND		10000	5000	ug/L			10/29/15 03:15	10000
1,1-Dichloroethene	ND		10000	5000	ug/L			10/29/15 03:15	10000
1,2-Dichloropropane	ND		10000	5000	ug/L			10/29/15 03:15	10000
1,3-Dichloropropane	ND		10000	5000	ug/L			10/29/15 03:15	10000
2,2-Dichloropropane	ND		10000	5000	ug/L			10/29/15 03:15	10000
1,1-Dichloropropene	ND		10000	5000	ug/L			10/29/15 03:15	10000
Ethylbenzene	ND		10000	5000	ug/L			10/29/15 03:15	10000
Ethyl methacrylate	ND		10000	6000	ug/L			10/29/15 03:15	10000
Hexachlorobutadiene	ND		50000	9000	ug/L			10/29/15 03:15	10000
2-Hexanone	ND		250000	31000	ug/L			10/29/15 03:15	10000
Isopropylbenzene	ND		10000	5300	ug/L			10/29/15 03:15	10000
Methylene bromide	ND		50000	5900	ug/L			10/29/15 03:15	10000
Methylene Chloride	ND		50000	30000	ug/L			10/29/15 03:15	10000
4-Methyl-2-pentanone (MIBK)	ND		250000	18000	ug/L			10/29/15 03:15	10000
Methyl tert-butyl ether	ND		10000	7400	ug/L			10/29/15 03:15	10000
m-Xylene & p-Xylene	ND		50000	16000	ug/L			10/29/15 03:15	10000
Naphthalene	ND		10000	10000	ug/L			10/29/15 03:15	10000
n-Butylbenzene	ND		10000	7600	ug/L			10/29/15 03:15	10000
N-Propylbenzene	ND		10000	6900	ug/L			10/29/15 03:15	10000
o-Chlorotoluene	ND		10000	5700	ug/L			10/29/15 03:15	10000
o-Xylene	ND		50000	6000	ug/L			10/29/15 03:15	10000
p-Chlorotoluene	ND		10000	5600	ug/L			10/29/15 03:15	10000
p-Isopropyltoluene	ND		10000	7100	ug/L			10/29/15 03:15	10000

Client Sample ID: MW7-ROX-101915-DUP

Date Collected: 10/19/15 14:35
Date Received: 10/20/15 10:21

Lab Sample ID: 400-112635-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		10000	7000	ug/L			10/29/15 03:15	10000
Styrene	ND		10000	10000	ug/L			10/29/15 03:15	10000
tert-Butylbenzene	ND		10000	6300	ug/L			10/29/15 03:15	10000
1,1,1,2-Tetrachloroethane	ND		10000	5200	ug/L			10/29/15 03:15	10000
1,1,2,2-Tetrachloroethane	ND		10000	5000	ug/L			10/29/15 03:15	10000
Tetrachloroethene	ND		10000	5800	ug/L			10/29/15 03:15	10000
Toluene	ND		10000	7000	ug/L			10/29/15 03:15	10000
trans-1,2-Dichloroethene	ND		10000	5000	ug/L			10/29/15 03:15	10000
trans-1,3-Dichloropropene	ND		50000	5000	ug/L			10/29/15 03:15	10000
1,2,3-Trichlorobenzene	ND		10000	7000	ug/L			10/29/15 03:15	10000
1,2,4-Trichlorobenzene	ND		10000	8200	ug/L			10/29/15 03:15	10000
1,1,1-Trichloroethane	ND		10000	5000	ug/L			10/29/15 03:15	10000
1,1,2-Trichloroethane	ND		50000	5000	ug/L			10/29/15 03:15	10000
Trichloroethene	ND		10000	5000	ug/L			10/29/15 03:15	10000
Trichlorofluoromethane	ND		10000	5200	ug/L			10/29/15 03:15	10000
1,2,3-Trichloropropane	ND		50000	8400	ug/L			10/29/15 03:15	10000
1,2,4-Trimethylbenzene	ND		10000	8200	ug/L			10/29/15 03:15	10000
1,3,5-Trimethylbenzene	ND		10000	5600	ug/L			10/29/15 03:15	10000
Vinyl acetate	ND		250000	20000	ug/L			10/29/15 03:15	10000
Vinyl chloride	ND		10000	5000	ug/L			10/29/15 03:15	10000
Xylenes, Total	ND		50000	6000	ug/L			10/29/15 03:15	10000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*78 - 118*		*10/29/15 03:15*	*10000*
Dibromofluoromethane	*98*		*81 - 121*		*10/29/15 03:15*	*10000*
Toluene-d8 (Surr)	*94*		*80 - 120*		*10/29/15 03:15*	*10000*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/23/15 09:46	10/29/15 11:57	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/23/15 09:46	10/29/15 11:57	1
Anthracene	ND		0.20	0.020	ug/L		10/23/15 09:46	10/29/15 11:57	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 11:57	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 11:57	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 11:57	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 11:57	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 11:57	1
Chrysene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 11:57	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 11:57	1
Fluoranthene	ND		0.20	0.020	ug/L		10/23/15 09:46	10/29/15 11:57	1
Fluorene	**0.11**	**J**	0.20	0.021	ug/L		10/23/15 09:46	10/29/15 11:57	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/29/15 11:57	1
1-Methylnaphthalene	**2.6**		0.20	0.020	ug/L		10/23/15 09:46	10/29/15 11:57	1
2-Methylnaphthalene	**3.7**		0.20	0.020	ug/L		10/23/15 09:46	10/29/15 11:57	1
Phenanthrene	**0.19**	**J**	0.20	0.020	ug/L		10/23/15 09:46	10/29/15 11:57	1
Pyrene	ND		0.20	0.020	ug/L		10/23/15 09:46	10/29/15 11:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*59*		*15 - 122*	*10/23/15 09:46*	*10/29/15 11:57*	*1*
Nitrobenzene-d5	*48*		*19 - 130*	*10/23/15 09:46*	*10/29/15 11:57*	*1*

Client Sample ID: MW7-ROX-101915-DUP

Lab Sample ID: 400-112635-7

Date Collected: 10/19/15 14:35
Matrix: Water
Date Received: 10/20/15 10:21

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	33		33 - 138	10/23/15 09:46	10/29/15 11:57	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/23/15 09:46	10/27/15 00:45	1
Benzenethiol	ND		10	1.7	ug/L		10/23/15 09:46	10/27/15 00:45	1
Benzoic acid	**11**	**J ***	30	7.3	ug/L		10/23/15 09:46	10/27/15 00:45	1
Benzyl alcohol	ND		10	2.0	ug/L		10/23/15 09:46	10/27/15 00:45	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/23/15 09:46	10/27/15 00:45	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/23/15 09:46	10/27/15 00:45	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/23/15 09:46	10/27/15 00:45	1
Bis(2-ethylhexyl) phthalate	**2.4**	**J**	10	2.3	ug/L		10/23/15 09:46	10/27/15 00:45	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/23/15 09:46	10/27/15 00:45	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/23/15 09:46	10/27/15 00:45	1
4-Chloroaniline	ND		10	3.4	ug/L		10/23/15 09:46	10/27/15 00:45	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/23/15 09:46	10/27/15 00:45	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/23/15 09:46	10/27/15 00:45	1
2-Chlorophenol	ND		10	2.2	ug/L		10/23/15 09:46	10/27/15 00:45	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/23/15 09:46	10/27/15 00:45	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/23/15 09:46	10/27/15 00:45	1
Dibenzofuran	ND		10	0.52	ug/L		10/23/15 09:46	10/27/15 00:45	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/23/15 09:46	10/27/15 00:45	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/23/15 09:46	10/27/15 00:45	1
Diethyl phthalate	ND		10	0.70	ug/L		10/23/15 09:46	10/27/15 00:45	1
2,4-Dimethylphenol	**4.4**	**J**	10	3.5	ug/L		10/23/15 09:46	10/27/15 00:45	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/23/15 09:46	10/27/15 00:45	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/23/15 09:46	10/27/15 00:45	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/23/15 09:46	10/27/15 00:45	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/23/15 09:46	10/27/15 00:45	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/23/15 09:46	10/27/15 00:45	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/23/15 09:46	10/27/15 00:45	1
Di-n-octyl phthalate	ND		10	0.44	ug/L		10/23/15 09:46	10/27/15 00:45	1
1,4-Dioxane	ND		10	1.0	ug/L		10/23/15 09:46	10/27/15 00:45	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/23/15 09:46	10/27/15 00:45	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/23/15 09:46	10/27/15 00:45	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/23/15 09:46	10/27/15 00:45	1
Hexachloroethane	ND		10	4.2	ug/L		10/23/15 09:46	10/27/15 00:45	1
Indene	**1.8**	**J**	10	1.0	ug/L		10/23/15 09:46	10/27/15 00:45	1
Isophorone	ND		10	0.57	ug/L		10/23/15 09:46	10/27/15 00:45	1
2-Methylphenol	ND		10	1.8	ug/L		10/23/15 09:46	10/27/15 00:45	1
3 & 4 Methylphenol	**1.8**	**J**	20	1.0	ug/L		10/23/15 09:46	10/27/15 00:45	1
2-Nitroaniline	ND		10	2.2	ug/L		10/23/15 09:46	10/27/15 00:45	1
3-Nitroaniline	ND		10	1.8	ug/L		10/23/15 09:46	10/27/15 00:45	1
4-Nitroaniline	ND		10	2.5	ug/L		10/23/15 09:46	10/27/15 00:45	1
Nitrobenzene	ND		10	0.55	ug/L		10/23/15 09:46	10/27/15 00:45	1
2-Nitrophenol	ND		10	0.65	ug/L		10/23/15 09:46	10/27/15 00:45	1
4-Nitrophenol	ND		10	2.1	ug/L		10/23/15 09:46	10/27/15 00:45	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/23/15 09:46	10/27/15 00:45	1

Client Sample ID: MW7-ROX-101915-DUP

Date Collected: 10/19/15 14:35
Date Received: 10/20/15 10:21

Lab Sample ID: 400-112635-7

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/23/15 09:46	10/27/15 00:45	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/23/15 09:46	10/27/15 00:45	1
Pentachlorophenol	ND		20	1.8	ug/L		10/23/15 09:46	10/27/15 00:45	1
Phenol	**120**		50	13	ug/L		10/23/15 09:46	10/27/15 19:48	5
Pyridine	ND		10	3.2	ug/L		10/23/15 09:46	10/27/15 00:45	1
Quinoline	ND		10	6.0	ug/L		10/23/15 09:46	10/27/15 00:45	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/23/15 09:46	10/27/15 00:45	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/23/15 09:46	10/27/15 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*64*		*34 - 120*	*10/23/15 09:46*	*10/27/15 00:45*	*1*
2-Fluorophenol	*40*		*10 - 120*	*10/23/15 09:46*	*10/27/15 00:45*	*1*
Nitrobenzene-d5	*58*		*27 - 120*	*10/23/15 09:46*	*10/27/15 00:45*	*1*
Phenol-d5	*48*		*10 - 120*	*10/23/15 09:46*	*10/27/15 00:45*	*1*
Terphenyl-d14	*40*	*X*	*53 - 125*	*10/23/15 09:46*	*10/27/15 00:45*	*1*
2,4,6-Tribromophenol	*70*		*15 - 135*	*10/23/15 09:46*	*10/27/15 00:45*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.029	0.0053	ug/L		10/23/15 11:53	10/27/15 04:33	1
1,2-Dibromoethane	ND		0.019	0.0048	ug/L		10/23/15 11:53	10/27/15 04:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*51 - 149*	*10/23/15 11:53*	*10/27/15 04:33*	*1*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

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

Glossary

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

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112635-1
SDG: Proj. 60400249-21563720.03004

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(78-118)	(81-121)	(80-120)
400-112635-1	TB-ROX-101915-8260	97	100	95
400-112635-3	MW4-ROX-101915	97	98	96
400-112635-3 MS	MW4-ROX-101915	98	100	95
400-112635-3 MSD	MW4-ROX-101915	94	100	95
400-112635-4	MW25-ROX-101915	94	98	94
400-112635-5	MW8-ROX-101915	94	98	95
400-112635-6	MW7-ROX-101915	95	98	95
400-112635-7	MW7-ROX-101915-DUP	93	98	94
LCS 400-280961/1002	Lab Control Sample	98	101	95
MB 400-280961/4	Method Blank	96	99	96

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	Client Sample ID	(34-120)	(10-120)	(27-120)	(10-120)	(53-125)	(15-135)
400-112635-3	MW4-ROX-101915	82	50	82	56	62	64
400-112635-4	MW25-ROX-101915	69	45	72	45	40 X	53
400-112635-5	MW8-ROX-101915	64	37	67	43	44 X	62
400-112635-6	MW7-ROX-101915	70	41	60	46	41 X	67
400-112635-7	MW7-ROX-101915-DUP	64	40	58	48	40 X	70
LCS 400-280199/2-A	Lab Control Sample	74	62	73	72	78	82
LCSD 400-280199/3-A	Lab Control Sample Dup	71	56	69	56	72	78

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

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

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPH
Lab Sample ID	Client Sample ID	(15-122)	(19-130)	(33-138)
400-112635-3	MW4-ROX-101915	69	67	58
400-112635-4	MW25-ROX-101915	57	56	35
400-112635-5	MW8-ROX-101915	57	62	42
400-112635-6	MW7-ROX-101915	63	51	37
400-112635-7	MW7-ROX-101915-DUP	59	48	33
LCS 400-280199/2-A	Lab Control Sample	70	66	75

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112635-1
SDG: Proj. 60400249-21563720.03004

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPH
Lab Sample ID	Client Sample ID	(15-122)	(19-130)	(33-138)
LCSD 400-280199/3-A	Lab Control Sample Dup	69	62	67
MB 400-280199/1-A	Method Blank	60	58	73

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5
TPH = Terphenyl-d14

Method: 8011 - EDB and DBCP in Water by Microextraction

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

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(51-149)
400-112531-C-1-A MS	Matrix Spike	103
400-112531-C-1-B MSD	Matrix Spike Duplicate	110
400-112631-C-4-A MS	Matrix Spike	113
400-112631-C-4-B MSD	Matrix Spike Duplicate	117
400-112635-2	TB-ROX-101915-8011	93
400-112635-3	MW4-ROX-101915	101
400-112635-4	MW25-ROX-101915	91
400-112635-5	MW8-ROX-101915	115
400-112635-6	MW7-ROX-101915	112
400-112635-7	MW7-ROX-101915-DUP	93
LCS 400-280226/2-A	Lab Control Sample	114
LCS 400-280227/2-A	Lab Control Sample	124
MB 400-280226/1-A	Method Blank	101
MB 400-280227/1-A	Method Blank	119

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112635-1
SDG: Proj. 60400249-21563720.03004

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL PEN
8011	EDB and DBCP in Water by Microextraction	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112635-1
SDG: Proj. 60400249-21563720.03004

Client Sample ID: TB-ROX-101915-8260

Lab Sample ID: 400-112635-1
Matrix: Water

Date Collected: 10/19/15 00:00
Date Received: 10/20/15 10:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	280961	10/28/15 18:37	WPD	TAL PEN

Client Sample ID: TB-ROX-101915-8011

Lab Sample ID: 400-112635-2
Matrix: Water

Date Collected: 10/19/15 00:00
Date Received: 10/20/15 10:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			34.3 mL	35 mL	280227	10/23/15 11:58	AM	TAL PEN
Total/NA	Analysis	8011		1	34.3 mL	35 mL	280464	10/26/15 22:36	AM	TAL PEN

Client Sample ID: MW4-ROX-101915

Lab Sample ID: 400-112635-3
Matrix: Water

Date Collected: 10/19/15 09:35
Date Received: 10/20/15 10:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	280961	10/28/15 22:57	WPD	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280199	10/23/15 09:46	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280298	10/26/15 22:13	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280199	10/23/15 09:46	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	281060	10/29/15 09:36	CEP	TAL PEN
Total/NA	Prep	8011			34.9 mL	35 mL	280227	10/23/15 11:58	AM	TAL PEN
Total/NA	Analysis	8011		1	34.9 mL	35 mL	280464	10/26/15 23:06	AM	TAL PEN

Client Sample ID: MW25-ROX-101915

Lab Sample ID: 400-112635-4
Matrix: Water

Date Collected: 10/19/15 10:40
Date Received: 10/20/15 10:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		100	5 mL	5 mL	280961	10/29/15 01:58	WPD	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280199	10/23/15 09:46	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280298	10/26/15 22:51	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280199	10/23/15 09:46	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	281060	10/29/15 10:11	CEP	TAL PEN
Total/NA	Prep	8011			34.1 mL	35 mL	280226	10/23/15 11:53	AM	TAL PEN
Total/NA	Analysis	8011		1	34.1 mL	35 mL	280464	10/27/15 03:03	AM	TAL PEN

Client Sample ID: MW8-ROX-101915

Lab Sample ID: 400-112635-5
Matrix: Water

Date Collected: 10/19/15 11:35
Date Received: 10/20/15 10:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5000	5 mL	5 mL	280961	10/29/15 02:24	WPD	TAL PEN

Client Sample ID: MW8-ROX-101915

Lab Sample ID: 400-112635-5

Date Collected: 10/19/15 11:35
Matrix: Water
Date Received: 10/20/15 10:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	280199	10/23/15 09:46	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280298	10/26/15 23:29	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280199	10/23/15 09:46	KH1	TAL PEN
Total/NA	Analysis	8270C		5	1000 mL	1 mL	280557	10/27/15 18:30	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280199	10/23/15 09:46	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	281060	10/29/15 10:46	CEP	TAL PEN
Total/NA	Prep	8011			35 mL	35 mL	280226	10/23/15 11:53	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	280464	10/27/15 03:33	AM	TAL PEN

Client Sample ID: MW7-ROX-101915

Lab Sample ID: 400-112635-6

Date Collected: 10/19/15 14:35
Matrix: Water
Date Received: 10/20/15 10:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10000	5 mL	5 mL	280961	10/29/15 02:49	WPD	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280199	10/23/15 09:46	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280298	10/27/15 00:07	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280199	10/23/15 09:46	KH1	TAL PEN
Total/NA	Analysis	8270C		5	1000 mL	1 mL	280557	10/27/15 19:09	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280199	10/23/15 09:46	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	281060	10/29/15 11:22	CEP	TAL PEN
Total/NA	Prep	8011			35.6 mL	35 mL	280226	10/23/15 11:53	AM	TAL PEN
Total/NA	Analysis	8011		1	35.6 mL	35 mL	280464	10/27/15 04:03	AM	TAL PEN

Client Sample ID: MW7-ROX-101915-DUP

Lab Sample ID: 400-112635-7

Date Collected: 10/19/15 14:35
Matrix: Water
Date Received: 10/20/15 10:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10000	5 mL	5 mL	280961	10/29/15 03:15	WPD	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280199	10/23/15 09:46	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280298	10/27/15 00:45	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280199	10/23/15 09:46	KH1	TAL PEN
Total/NA	Analysis	8270C		5	1000 mL	1 mL	280557	10/27/15 19:48	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280199	10/23/15 09:46	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	281060	10/29/15 11:57	CEP	TAL PEN
Total/NA	Prep	8011			36.6 mL	35 mL	280226	10/23/15 11:53	AM	TAL PEN
Total/NA	Analysis	8011		1	36.6 mL	35 mL	280464	10/27/15 04:33	AM	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-280199/2-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	280199	10/23/15 09:46	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280298	10/26/15 20:57	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280199	10/23/15 09:46	KH1	TAL PEN
Total/NA	Analysis	8270C LL		5	1000 mL	1 mL	280833	10/28/15 18:45	CEP	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-280226/2-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	280226	10/23/15 11:53	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	280464	10/26/15 00:35	AM	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-280227/2-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	280227	10/23/15 11:58	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	280464	10/26/15 12:41	AM	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-280961/1002

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	280961	10/28/15 17:12	WPD	TAL PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-280199/3-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	280199	10/23/15 09:46	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280298	10/26/15 21:35	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280199	10/23/15 09:46	KH1	TAL PEN
Total/NA	Analysis	8270C LL		5	1000 mL	1 mL	280833	10/28/15 19:21	CEP	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-280199/1-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	280199	10/23/15 09:46	KH1	TAL PEN
Total/NA	Analysis	8270C		1	1000 mL	1 mL	280298	10/26/15 20:19	AJR	TAL PEN
Total/NA	Prep	3520C			1000 mL	1 mL	280199	10/23/15 09:46	KH1	TAL PEN
Total/NA	Analysis	8270C LL		1	1000 mL	1 mL	280833	10/28/15 18:10	CEP	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-280226/1-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	280226	10/23/15 11:53	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	280464	10/26/15 00:06	AM	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-280227/1-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	280227	10/23/15 11:58	AM	TAL PEN
Total/NA	Analysis	8011		1	35 mL	35 mL	280464	10/26/15 12:12	AM	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-280961/4

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	280961	10/28/15 18:12	WPD	TAL PEN

Client Sample ID: MW4-ROX-101915

Lab Sample ID: 400-112635-3 MS

Date Collected: 10/19/15 09:35
Date Received: 10/20/15 10:21

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	280961	10/28/15 21:39	WPD	TAL PEN

Client Sample ID: MW4-ROX-101915

Lab Sample ID: 400-112635-3 MSD

Date Collected: 10/19/15 09:35
Date Received: 10/20/15 10:21

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	280961	10/28/15 22:05	WPD	TAL PEN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112635-1
SDG: Proj. 60400249-21563720.03004

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

GC/MS VOA

Analysis Batch: 280961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112635-1	TB-ROX-101915-8260	Total/NA	Water	8260B	
400-112635-3	MW4-ROX-101915	Total/NA	Water	8260B	
400-112635-3 MS	MW4-ROX-101915	Total/NA	Water	8260B	
400-112635-3 MSD	MW4-ROX-101915	Total/NA	Water	8260B	
400-112635-4	MW25-ROX-101915	Total/NA	Water	8260B	
400-112635-5	MW8-ROX-101915	Total/NA	Water	8260B	
400-112635-6	MW7-ROX-101915	Total/NA	Water	8260B	
400-112635-7	MW7-ROX-101915-DUP	Total/NA	Water	8260B	
LCS 400-280961/1002	Lab Control Sample	Total/NA	Water	8260B	
MB 400-280961/4	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 280199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112635-3	MW4-ROX-101915	Total/NA	Water	3520C	
400-112635-4	MW25-ROX-101915	Total/NA	Water	3520C	
400-112635-5	MW8-ROX-101915	Total/NA	Water	3520C	
400-112635-6	MW7-ROX-101915	Total/NA	Water	3520C	
400-112635-7	MW7-ROX-101915-DUP	Total/NA	Water	3520C	
LCS 400-280199/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-280199/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 400-280199/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 280298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112635-3	MW4-ROX-101915	Total/NA	Water	8270C	280199
400-112635-4	MW25-ROX-101915	Total/NA	Water	8270C	280199
400-112635-5	MW8-ROX-101915	Total/NA	Water	8270C	280199
400-112635-6	MW7-ROX-101915	Total/NA	Water	8270C	280199
400-112635-7	MW7-ROX-101915-DUP	Total/NA	Water	8270C	280199
LCS 400-280199/2-A	Lab Control Sample	Total/NA	Water	8270C	280199
LCSD 400-280199/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	280199
MB 400-280199/1-A	Method Blank	Total/NA	Water	8270C	280199

Analysis Batch: 280557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112635-5	MW8-ROX-101915	Total/NA	Water	8270C	280199
400-112635-6	MW7-ROX-101915	Total/NA	Water	8270C	280199
400-112635-7	MW7-ROX-101915-DUP	Total/NA	Water	8270C	280199

Analysis Batch: 280833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-280199/2-A	Lab Control Sample	Total/NA	Water	8270C LL	280199
LCSD 400-280199/3-A	Lab Control Sample Dup	Total/NA	Water	8270C LL	280199
MB 400-280199/1-A	Method Blank	Total/NA	Water	8270C LL	280199

Analysis Batch: 281060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112635-3	MW4-ROX-101915	Total/NA	Water	8270C LL	280199

GC/MS Semi VOA (Continued)

Analysis Batch: 281060 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112635-4	MW25-ROX-101915	Total/NA	Water	8270C LL	280199
400-112635-5	MW8-ROX-101915	Total/NA	Water	8270C LL	280199
400-112635-6	MW7-ROX-101915	Total/NA	Water	8270C LL	280199
400-112635-7	MW7-ROX-101915-DUP	Total/NA	Water	8270C LL	280199

GC Semi VOA

Prep Batch: 280226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112635-4	MW25-ROX-101915	Total/NA	Water	8011	
400-112635-5	MW8-ROX-101915	Total/NA	Water	8011	
400-112635-6	MW7-ROX-101915	Total/NA	Water	8011	
400-112635-7	MW7-ROX-101915-DUP	Total/NA	Water	8011	
LCS 400-280226/2-A	Lab Control Sample	Total/NA	Water	8011	
MB 400-280226/1-A	Method Blank	Total/NA	Water	8011	

Prep Batch: 280227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112635-2	TB-ROX-101915-8011	Total/NA	Water	8011	
400-112635-3	MW4-ROX-101915	Total/NA	Water	8011	
LCS 400-280227/2-A	Lab Control Sample	Total/NA	Water	8011	
MB 400-280227/1-A	Method Blank	Total/NA	Water	8011	

Analysis Batch: 280464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-112635-2	TB-ROX-101915-8011	Total/NA	Water	8011	280227
400-112635-3	MW4-ROX-101915	Total/NA	Water	8011	280227
400-112635-4	MW25-ROX-101915	Total/NA	Water	8011	280226
400-112635-5	MW8-ROX-101915	Total/NA	Water	8011	280226
400-112635-6	MW7-ROX-101915	Total/NA	Water	8011	280226
400-112635-7	MW7-ROX-101915-DUP	Total/NA	Water	8011	280226
LCS 400-280226/2-A	Lab Control Sample	Total/NA	Water	8011	280226
LCS 400-280227/2-A	Lab Control Sample	Total/NA	Water	8011	280227
MB 400-280226/1-A	Method Blank	Total/NA	Water	8011	280226
MB 400-280227/1-A	Method Blank	Total/NA	Water	8011	280227

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

Lab Sample ID: MB 400-280961/4
Matrix: Water
Analysis Batch: 280961

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			10/28/15 18:12	1
Acrolein	ND		20	10	ug/L			10/28/15 18:12	1
Acrylonitrile	ND		10	2.8	ug/L			10/28/15 18:12	1
Benzene	ND		1.0	0.38	ug/L			10/28/15 18:12	1
Bromobenzene	ND		1.0	0.54	ug/L			10/28/15 18:12	1
Bromochloromethane	ND		1.0	0.52	ug/L			10/28/15 18:12	1
Bromodichloromethane	ND		1.0	0.50	ug/L			10/28/15 18:12	1
Bromoform	ND		5.0	0.71	ug/L			10/28/15 18:12	1
Bromomethane	ND		1.0	0.98	ug/L			10/28/15 18:12	1
2-Butanone (MEK)	ND		25	2.6	ug/L			10/28/15 18:12	1
Carbon disulfide	ND		1.0	0.50	ug/L			10/28/15 18:12	1
Carbon tetrachloride	ND		1.0	0.50	ug/L			10/28/15 18:12	1
Chlorobenzene	ND		1.0	0.50	ug/L			10/28/15 18:12	1
Chloroethane	ND		1.0	0.76	ug/L			10/28/15 18:12	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			10/28/15 18:12	1
Chloroform	ND		1.0	0.60	ug/L			10/28/15 18:12	1
1-Chlorohexane	ND		1.0	0.70	ug/L			10/28/15 18:12	1
Chloromethane	ND		1.0	0.83	ug/L			10/28/15 18:12	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/28/15 18:12	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/28/15 18:12	1
Dibromochloromethane	ND		1.0	0.50	ug/L			10/28/15 18:12	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			10/28/15 18:12	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			10/28/15 18:12	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			10/28/15 18:12	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			10/28/15 18:12	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			10/28/15 18:12	1
1,2-Dichloroethane	ND		1.0	0.50	ug/L			10/28/15 18:12	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			10/28/15 18:12	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			10/28/15 18:12	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/28/15 18:12	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			10/28/15 18:12	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			10/28/15 18:12	1
Ethylbenzene	ND		1.0	0.50	ug/L			10/28/15 18:12	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			10/28/15 18:12	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			10/28/15 18:12	1
2-Hexanone	ND		25	3.1	ug/L			10/28/15 18:12	1
Isopropylbenzene	ND		1.0	0.53	ug/L			10/28/15 18:12	1
Methylene bromide	ND		5.0	0.59	ug/L			10/28/15 18:12	1
Methylene Chloride	ND		5.0	3.0	ug/L			10/28/15 18:12	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			10/28/15 18:12	1
Methyl tert-butyl ether	ND		1.0	0.74	ug/L			10/28/15 18:12	1
m-Xylene & p-Xylene	ND		5.0	1.6	ug/L			10/28/15 18:12	1
Naphthalene	ND		1.0	1.0	ug/L			10/28/15 18:12	1
n-Butylbenzene	ND		1.0	0.76	ug/L			10/28/15 18:12	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/28/15 18:12	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			10/28/15 18:12	1
o-Xylene	ND		5.0	0.60	ug/L			10/28/15 18:12	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			10/28/15 18:12	1

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

Lab Sample ID: MB 400-280961/4
Matrix: Water
Analysis Batch: 280961

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			10/28/15 18:12	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			10/28/15 18:12	1
Styrene	ND		1.0	1.0	ug/L			10/28/15 18:12	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			10/28/15 18:12	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.52	ug/L			10/28/15 18:12	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			10/28/15 18:12	1
Tetrachloroethene	ND		1.0	0.58	ug/L			10/28/15 18:12	1
Toluene	ND		1.0	0.70	ug/L			10/28/15 18:12	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			10/28/15 18:12	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/L			10/28/15 18:12	1
1,2,3-Trichlorobenzene	ND		1.0	0.70	ug/L			10/28/15 18:12	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			10/28/15 18:12	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/L			10/28/15 18:12	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/L			10/28/15 18:12	1
Trichloroethene	ND		1.0	0.50	ug/L			10/28/15 18:12	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			10/28/15 18:12	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			10/28/15 18:12	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			10/28/15 18:12	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			10/28/15 18:12	1
Vinyl acetate	ND		25	2.0	ug/L			10/28/15 18:12	1
Vinyl chloride	ND		1.0	0.50	ug/L			10/28/15 18:12	1
Xylenes, Total	ND		10	1.6	ug/L			10/28/15 18:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*78 - 118*		*10/28/15 18:12*	*1*
Dibromofluoromethane	*99*		*81 - 121*		*10/28/15 18:12*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/28/15 18:12*	*1*

Lab Sample ID: LCS 400-280961/1002
Matrix: Water
Analysis Batch: 280961

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	230		ug/L		115	43 - 160
Acrolein	500	499		ug/L		100	38 - 160
Acrylonitrile	500	502		ug/L		100	64 - 142
Benzene	50.0	52.1		ug/L		104	70 - 130
Bromobenzene	50.0	41.0		ug/L		82	70 - 132
Bromochloromethane	50.0	51.1		ug/L		102	70 - 130
Bromodichloromethane	50.0	60.0		ug/L		120	67 - 133
Bromoform	50.0	50.2		ug/L		100	57 - 140
Bromomethane	50.0	68.1		ug/L		136	10 - 160
2-Butanone (MEK)	200	248		ug/L		124	61 - 145
Carbon disulfide	50.0	53.9		ug/L		108	61 - 137
Carbon tetrachloride	50.0	61.4		ug/L		123	61 - 137
Chlorobenzene	50.0	51.7		ug/L		103	70 - 130
Chloroethane	50.0	47.7		ug/L		95	55 - 141
2-Chloroethyl vinyl ether	50.0	56.9		ug/L		114	10 - 160

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

Lab Sample ID: LCS 400-280961/1002
Matrix: Water
Analysis Batch: 280961

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	50.0	52.3		ug/L		105	69 - 130
1-Chlorohexane	50.0	51.5		ug/L		103	69 - 130
Chloromethane	50.0	57.5		ug/L		115	58 - 137
cis-1,2-Dichloroethene	50.0	53.6		ug/L		107	68 - 130
cis-1,3-Dichloropropene	50.0	57.9		ug/L		116	69 - 132
Dibromochloromethane	50.0	56.4		ug/L		113	67 - 135
1,2-Dichlorobenzene	50.0	41.0		ug/L		82	67 - 130
1,3-Dichlorobenzene	50.0	42.4		ug/L		85	70 - 130
1,4-Dichlorobenzene	50.0	46.4		ug/L		93	70 - 130
Dichlorodifluoromethane	50.0	85.4	*	ug/L		171	41 - 146
1,1-Dichloroethane	50.0	51.2		ug/L		102	70 - 130
1,2-Dichloroethane	50.0	54.3		ug/L		109	69 - 130
1,1-Dichloroethene	50.0	52.7		ug/L		105	63 - 134
1,2-Dichloropropane	50.0	50.2		ug/L		100	70 - 130
1,3-Dichloropropane	50.0	53.0		ug/L		106	70 - 130
2,2-Dichloropropane	50.0	59.4		ug/L		119	52 - 135
1,1-Dichloropropene	50.0	56.5		ug/L		113	70 - 130
Ethylbenzene	50.0	54.5		ug/L		109	70 - 130
Ethyl methacrylate	50.0	57.4		ug/L		115	68 - 130
Hexachlorobutadiene	50.0	39.3		ug/L		79	53 - 140
2-Hexanone	200	215		ug/L		107	65 - 137
Isopropylbenzene	50.0	53.9		ug/L		108	70 - 130
Methylene bromide	50.0	54.0		ug/L		108	70 - 130
Methylene Chloride	50.0	51.7		ug/L		103	66 - 135
4-Methyl-2-pentanone (MIBK)	200	225		ug/L		112	69 - 138
Methyl tert-butyl ether	50.0	57.4		ug/L		115	66 - 130
m-Xylene & p-Xylene	50.0	55.4		ug/L		111	70 - 130
Naphthalene	50.0	43.6		ug/L		87	47 - 149
n-Butylbenzene	50.0	43.5		ug/L		87	67 - 130
N-Propylbenzene	50.0	48.1		ug/L		96	70 - 130
o-Chlorotoluene	50.0	46.6		ug/L		93	70 - 130
o-Xylene	50.0	55.9		ug/L		112	70 - 130
p-Chlorotoluene	50.0	48.1		ug/L		96	70 - 130
p-Isopropyltoluene	50.0	48.1		ug/L		96	65 - 130
sec-Butylbenzene	50.0	45.8		ug/L		92	66 - 130
Styrene	50.0	53.0		ug/L		106	70 - 130
tert-Butylbenzene	50.0	47.3		ug/L		95	64 - 139
1,1,1,2-Tetrachloroethane	50.0	56.4		ug/L		113	67 - 131
1,1,2,2-Tetrachloroethane	50.0	47.2		ug/L		94	70 - 131
Tetrachloroethene	50.0	46.5		ug/L		93	65 - 130
Toluene	50.0	51.6		ug/L		103	70 - 130
trans-1,2-Dichloroethene	50.0	52.7		ug/L		105	70 - 130
trans-1,3-Dichloropropene	50.0	52.4		ug/L		105	63 - 130
1,2,3-Trichlorobenzene	50.0	40.8		ug/L		82	60 - 138
1,2,4-Trichlorobenzene	50.0	39.7		ug/L		79	60 - 140
1,1,1-Trichloroethane	50.0	58.9		ug/L		118	68 - 130
1,1,2-Trichloroethane	50.0	52.2		ug/L		104	70 - 130
Trichloroethene	50.0	52.4		ug/L		105	70 - 130

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

Lab Sample ID: LCS 400-280961/1002
Matrix: Water
Analysis Batch: 280961

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	54.9		ug/L		110	65 - 138
1,2,3-Trichloropropane	50.0	49.9		ug/L		100	70 - 130
1,2,4-Trimethylbenzene	50.0	46.5		ug/L		93	70 - 130
1,3,5-Trimethylbenzene	50.0	47.4		ug/L		95	69 - 130
Vinyl acetate	100	127		ug/L		127	26 - 160
Vinyl chloride	50.0	57.8		ug/L		116	59 - 136
Xylenes, Total	100	111		ug/L		111	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*78 - 118*
Dibromofluoromethane	*101*		*81 - 121*
Toluene-d8 (Surr)	*95*		*80 - 120*

Lab Sample ID: 400-112635-3 MS
Matrix: Water
Analysis Batch: 280961

Client Sample ID: MW4-ROX-101915
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		200	125		ug/L		62	43 - 160
Acrolein	ND		500	414		ug/L		83	38 - 160
Acrylonitrile	ND		500	495		ug/L		99	62 - 149
Benzene	3.6		50.0	58.8		ug/L		110	56 - 142
Bromobenzene	ND		50.0	42.8		ug/L		86	59 - 136
Bromochloromethane	ND		50.0	54.4		ug/L		109	64 - 140
Bromodichloromethane	ND		50.0	63.1		ug/L		126	59 - 143
Bromoform	ND		50.0	49.0		ug/L		98	50 - 140
Bromomethane	ND		50.0	77.3		ug/L		155	10 - 160
2-Butanone (MEK)	ND		200	200		ug/L		100	55 - 150
Carbon disulfide	ND		50.0	56.5		ug/L		113	48 - 152
Carbon tetrachloride	ND		50.0	64.5		ug/L		129	55 - 145
Chlorobenzene	ND		50.0	54.8		ug/L		110	64 - 130
Chloroethane	ND		50.0	48.2		ug/L		96	50 - 151
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160
Chloroform	ND		50.0	56.0		ug/L		112	60 - 141
1-Chlorohexane	ND		50.0	54.7		ug/L		109	56 - 136
Chloromethane	ND		50.0	60.7		ug/L		121	49 - 148
cis-1,2-Dichloroethene	ND		50.0	55.9		ug/L		112	59 - 143
cis-1,3-Dichloropropene	ND		50.0	59.9		ug/L		120	57 - 140
Dibromochloromethane	ND		50.0	57.6		ug/L		115	56 - 143
1,2-Dichlorobenzene	ND		50.0	42.6		ug/L		85	52 - 137
1,3-Dichlorobenzene	ND		50.0	44.0		ug/L		88	54 - 135
1,4-Dichlorobenzene	ND		50.0	46.9		ug/L		94	53 - 135
Dichlorodifluoromethane	ND	F1 *	50.0	90.3	F1	ug/L		181	16 - 160
1,1-Dichloroethane	ND		50.0	55.0		ug/L		110	61 - 144
1,2-Dichloroethane	ND		50.0	56.0		ug/L		112	60 - 141
1,1-Dichloroethene	ND		50.0	49.5		ug/L		99	54 - 147
1,2-Dichloropropane	ND		50.0	52.4		ug/L		105	66 - 137
1,3-Dichloropropane	ND		50.0	55.4		ug/L		111	66 - 133

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

Lab Sample ID: 400-112635-3 MS
Matrix: Water
Analysis Batch: 280961

Client Sample ID: MW4-ROX-101915
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	ND		50.0	60.4		ug/L		121	42 - 144
1,1-Dichloropropene	ND		50.0	58.8		ug/L		118	65 - 136
Ethylbenzene	ND		50.0	58.7		ug/L		117	58 - 131
Ethyl methacrylate	ND		50.0	56.6		ug/L		113	64 - 130
Hexachlorobutadiene	ND		50.0	38.6		ug/L		77	31 - 149
2-Hexanone	ND		200	179		ug/L		89	65 - 140
Isopropylbenzene	1.6		50.0	58.7		ug/L		114	56 - 133
Methylene bromide	ND		50.0	56.0		ug/L		112	63 - 138
Methylene Chloride	ND		50.0	55.8		ug/L		112	60 - 146
4-Methyl-2-pentanone (MIBK)	ND		200	206		ug/L		103	63 - 146
Methyl tert-butyl ether	11		50.0	69.2		ug/L		116	59 - 137
m-Xylene & p-Xylene	4.1	J	50.0	66.5		ug/L		125	57 - 130
Naphthalene	ND		50.0	43.6		ug/L		87	25 - 160
n-Butylbenzene	ND		50.0	43.0		ug/L		86	41 - 142
N-Propylbenzene	1.5		50.0	51.6		ug/L		100	51 - 138
o-Chlorotoluene	ND		50.0	48.6		ug/L		97	53 - 134
o-Xylene	1.0	J	50.0	61.4		ug/L		121	61 - 130
p-Chlorotoluene	ND		50.0	49.4		ug/L		99	54 - 133
p-Isopropyltoluene	ND		50.0	48.3		ug/L		97	48 - 139
sec-Butylbenzene	ND		50.0	47.6		ug/L		95	50 - 138
Styrene	ND		50.0	55.2		ug/L		110	58 - 131
tert-Butylbenzene	ND		50.0	49.6		ug/L		99	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	59.6		ug/L		119	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	46.7		ug/L		93	66 - 135
Tetrachloroethene	ND		50.0	48.0		ug/L		96	52 - 133
Toluene	1.4		50.0	56.7		ug/L		111	65 - 130
trans-1,2-Dichloroethene	ND		50.0	55.4		ug/L		111	61 - 143
trans-1,3-Dichloropropene	ND		50.0	53.7		ug/L		107	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	38.2		ug/L		76	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	36.8		ug/L		74	39 - 148
1,1,1-Trichloroethane	ND		50.0	61.5		ug/L		123	57 - 142
1,1,2-Trichloroethane	ND		50.0	53.9		ug/L		108	66 - 131
Trichloroethene	ND		50.0	55.8		ug/L		112	64 - 136
Trichlorofluoromethane	ND		50.0	58.6		ug/L		117	54 - 156
1,2,3-Trichloropropane	ND		50.0	47.2		ug/L		94	65 - 133
1,2,4-Trimethylbenzene	ND		50.0	51.4		ug/L		103	50 - 139
1,3,5-Trimethylbenzene	ND		50.0	48.5		ug/L		97	52 - 135
Vinyl acetate	ND		100	129		ug/L		129	26 - 160
Vinyl chloride	ND		50.0	60.5		ug/L		121	46 - 152
Xylenes, Total	5.1		100	128		ug/L		123	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*78 - 118*
Dibromofluoromethane	*100*		*81 - 121*
Toluene-d8 (Surr)	*95*		*80 - 120*

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

Lab Sample ID: 400-112635-3 MSD
Matrix: Water
Analysis Batch: 280961

Client Sample ID: MW4-ROX-101915
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		200	117		ug/L		59	43 - 160	6	30
Acrolein	ND		500	437		ug/L		87	38 - 160	5	31
Acrylonitrile	ND		500	490		ug/L		98	62 - 149	1	30
Benzene	3.6		50.0	55.1		ug/L		103	56 - 142	6	30
Bromobenzene	ND		50.0	36.6		ug/L		73	59 - 136	16	30
Bromochloromethane	ND		50.0	52.3		ug/L		105	64 - 140	4	30
Bromodichloromethane	ND		50.0	59.1		ug/L		118	59 - 143	7	30
Bromoform	ND		50.0	45.5		ug/L		91	50 - 140	7	30
Bromomethane	ND		50.0	76.1		ug/L		152	10 - 160	2	50
2-Butanone (MEK)	ND		200	197		ug/L		99	55 - 150	2	30
Carbon disulfide	ND		50.0	53.3		ug/L		107	48 - 152	6	30
Carbon tetrachloride	ND		50.0	61.1		ug/L		122	55 - 145	5	30
Chlorobenzene	ND		50.0	47.8		ug/L		96	64 - 130	14	30
Chloroethane	ND		50.0	51.0		ug/L		102	50 - 151	6	30
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 160	NC	50
Chloroform	ND		50.0	53.0		ug/L		106	60 - 141	5	30
1-Chlorohexane	ND		50.0	46.6		ug/L		93	56 - 136	16	30
Chloromethane	ND		50.0	61.6		ug/L		123	49 - 148	1	31
cis-1,2-Dichloroethene	ND		50.0	53.6		ug/L		107	59 - 143	4	30
cis-1,3-Dichloropropene	ND		50.0	56.3		ug/L		113	57 - 140	6	30
Dibromochloromethane	ND		50.0	55.6		ug/L		111	56 - 143	4	30
1,2-Dichlorobenzene	ND		50.0	36.6		ug/L		73	52 - 137	15	30
1,3-Dichlorobenzene	ND		50.0	36.6		ug/L		73	54 - 135	18	30
1,4-Dichlorobenzene	ND		50.0	37.8		ug/L		76	53 - 135	22	30
Dichlorodifluoromethane	ND	F1 *	50.0	90.4	F1	ug/L		181	16 - 160	0	31
1,1-Dichloroethane	ND		50.0	53.2		ug/L		106	61 - 144	3	30
1,2-Dichloroethane	ND		50.0	54.2		ug/L		108	60 - 141	3	30
1,1-Dichloroethene	ND		50.0	46.2		ug/L		92	54 - 147	7	30
1,2-Dichloropropane	ND		50.0	50.6		ug/L		101	66 - 137	4	30
1,3-Dichloropropane	ND		50.0	52.1		ug/L		104	66 - 133	6	30
2,2-Dichloropropane	ND		50.0	58.2		ug/L		116	42 - 144	4	31
1,1-Dichloropropene	ND		50.0	54.6		ug/L		109	65 - 136	7	30
Ethylbenzene	ND		50.0	49.5		ug/L		99	58 - 131	17	30
Ethyl methacrylate	ND		50.0	55.5		ug/L		111	64 - 130	2	30
Hexachlorobutadiene	ND		50.0	40.1		ug/L		80	31 - 149	4	36
2-Hexanone	ND		200	179		ug/L		90	65 - 140	0	30
Isopropylbenzene	1.6		50.0	50.0		ug/L		97	56 - 133	16	30
Methylene bromide	ND		50.0	53.2		ug/L		106	63 - 138	5	30
Methylene Chloride	ND		50.0	54.5		ug/L		109	60 - 146	3	32
4-Methyl-2-pentanone (MIBK)	ND		200	203		ug/L		101	63 - 146	1	30
Methyl tert-butyl ether	11		50.0	68.4		ug/L		115	59 - 137	1	30
m-Xylene & p-Xylene	4.1	J	50.0	53.5		ug/L		99	57 - 130	22	30
Naphthalene	ND		50.0	42.3		ug/L		85	25 - 160	3	30
n-Butylbenzene	ND		50.0	37.3		ug/L		75	41 - 142	14	31
N-Propylbenzene	1.5		50.0	41.8		ug/L		80	51 - 138	21	30
o-Chlorotoluene	ND		50.0	39.8		ug/L		80	53 - 134	20	30
o-Xylene	1.0	J	50.0	51.8		ug/L		102	61 - 130	17	30
p-Chlorotoluene	ND		50.0	40.4		ug/L		81	54 - 133	20	30

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

Lab Sample ID: 400-112635-3 MSD
Matrix: Water
Analysis Batch: 280961

Client Sample ID: MW4-ROX-101915
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
p-Isopropyltoluene	ND		50.0	41.6		ug/L		83	48 - 139	15	30
sec-Butylbenzene	ND		50.0	40.5		ug/L		81	50 - 138	16	30
Styrene	ND		50.0	47.4		ug/L		95	58 - 131	15	30
tert-Butylbenzene	ND		50.0	42.6		ug/L		85	54 - 146	15	30
1,1,1,2-Tetrachloroethane	ND		50.0	55.0		ug/L		110	59 - 137	8	30
1,1,2,2-Tetrachloroethane	ND		50.0	43.1		ug/L		86	66 - 135	8	30
Tetrachloroethene	ND		50.0	42.5		ug/L		85	52 - 133	12	30
Toluene	1.4		50.0	50.5		ug/L		98	65 - 130	12	30
trans-1,2-Dichloroethene	ND		50.0	52.7		ug/L		105	61 - 143	5	30
trans-1,3-Dichloropropene	ND		50.0	50.6		ug/L		101	53 - 133	6	30
1,2,3-Trichlorobenzene	ND		50.0	40.5		ug/L		81	43 - 145	6	30
1,2,4-Trichlorobenzene	ND		50.0	37.4		ug/L		75	39 - 148	2	30
1,1,1-Trichloroethane	ND		50.0	58.9		ug/L		118	57 - 142	4	30
1,1,2-Trichloroethane	ND		50.0	51.8		ug/L		104	66 - 131	4	30
Trichloroethene	ND		50.0	50.6		ug/L		101	64 - 136	10	30
Trichlorofluoromethane	ND		50.0	57.6		ug/L		115	54 - 156	2	30
1,2,3-Trichloropropane	ND		50.0	44.5		ug/L		89	65 - 133	6	30
1,2,4-Trimethylbenzene	ND		50.0	40.1		ug/L		80	50 - 139	25	30
1,3,5-Trimethylbenzene	ND		50.0	39.7		ug/L		79	52 - 135	20	30
Vinyl acetate	ND		100	129		ug/L		129	26 - 160	0	33
Vinyl chloride	ND		50.0	61.1		ug/L		122	46 - 152	1	30
Xylenes, Total	5.1		100	105		ug/L		100	59 - 130	19	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*78 - 118*
Dibromofluoromethane	*100*		*81 - 121*
Toluene-d8 (Surr)	*95*		*80 - 120*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-280199/1-A
Matrix: Water
Analysis Batch: 280298

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 280199

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	3.8	ug/L		10/23/15 09:46	10/26/15 20:19	1
Benzenethiol	ND		10	1.7	ug/L		10/23/15 09:46	10/26/15 20:19	1
Benzoic acid	ND		30	7.3	ug/L		10/23/15 09:46	10/26/15 20:19	1
Benzyl alcohol	ND		10	2.0	ug/L		10/23/15 09:46	10/26/15 20:19	1
Bis(2-chloroethoxy)methane	ND		10	0.69	ug/L		10/23/15 09:46	10/26/15 20:19	1
Bis(2-chloroethyl)ether	ND		10	0.74	ug/L		10/23/15 09:46	10/26/15 20:19	1
bis (2-chloroisopropyl) ether	ND		10	0.81	ug/L		10/23/15 09:46	10/26/15 20:19	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/23/15 09:46	10/26/15 20:19	1
4-Bromophenyl phenyl ether	ND		10	0.32	ug/L		10/23/15 09:46	10/26/15 20:19	1
Butyl benzyl phthalate	ND		10	0.69	ug/L		10/23/15 09:46	10/26/15 20:19	1
4-Chloroaniline	ND		10	3.4	ug/L		10/23/15 09:46	10/26/15 20:19	1
4-Chloro-3-methylphenol	ND		10	3.8	ug/L		10/23/15 09:46	10/26/15 20:19	1
2-Chloronaphthalene	ND		10	0.52	ug/L		10/23/15 09:46	10/26/15 20:19	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-280199/1-A
Matrix: Water
Analysis Batch: 280298

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 280199

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		10	2.2	ug/L		10/23/15 09:46	10/26/15 20:19	1
4-Chlorophenyl phenyl ether	ND		10	2.0	ug/L		10/23/15 09:46	10/26/15 20:19	1
Dibenz[a,h]acridine	ND		10	3.0	ug/L		10/23/15 09:46	10/26/15 20:19	1
Dibenzofuran	ND		10	0.52	ug/L		10/23/15 09:46	10/26/15 20:19	1
3,3'-Dichlorobenzidine	ND		10	2.6	ug/L		10/23/15 09:46	10/26/15 20:19	1
2,4-Dichlorophenol	ND		10	3.0	ug/L		10/23/15 09:46	10/26/15 20:19	1
Diethyl phthalate	ND		10	0.70	ug/L		10/23/15 09:46	10/26/15 20:19	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		10/23/15 09:46	10/26/15 20:19	1
Dimethyl phthalate	ND		10	0.60	ug/L		10/23/15 09:46	10/26/15 20:19	1
Di-n-butyl phthalate	ND		10	2.7	ug/L		10/23/15 09:46	10/26/15 20:19	1
4,6-Dinitro-ortho-cresol	ND		10	2.0	ug/L		10/23/15 09:46	10/26/15 20:19	1
2,4-Dinitrophenol	ND		30	3.4	ug/L		10/23/15 09:46	10/26/15 20:19	1
2,4-Dinitrotoluene	ND		10	1.9	ug/L		10/23/15 09:46	10/26/15 20:19	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/23/15 09:46	10/26/15 20:19	1
Di-n-octyl phthalate	1.03	J	10	0.44	ug/L		10/23/15 09:46	10/26/15 20:19	1
1,4-Dioxane	ND		10	1.0	ug/L		10/23/15 09:46	10/26/15 20:19	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	1.0	ug/L		10/23/15 09:46	10/26/15 20:19	1
Hexachlorobenzene	ND		10	0.25	ug/L		10/23/15 09:46	10/26/15 20:19	1
Hexachlorocyclopentadiene	ND		20	2.6	ug/L		10/23/15 09:46	10/26/15 20:19	1
Hexachloroethane	ND		10	4.2	ug/L		10/23/15 09:46	10/26/15 20:19	1
Indene	ND		10	1.0	ug/L		10/23/15 09:46	10/26/15 20:19	1
Isophorone	ND		10	0.57	ug/L		10/23/15 09:46	10/26/15 20:19	1
2-Methylphenol	ND		10	1.8	ug/L		10/23/15 09:46	10/26/15 20:19	1
3 & 4 Methylphenol	ND		20	1.0	ug/L		10/23/15 09:46	10/26/15 20:19	1
2-Nitroaniline	ND		10	2.2	ug/L		10/23/15 09:46	10/26/15 20:19	1
3-Nitroaniline	ND		10	1.8	ug/L		10/23/15 09:46	10/26/15 20:19	1
4-Nitroaniline	ND		10	2.5	ug/L		10/23/15 09:46	10/26/15 20:19	1
Nitrobenzene	ND		10	0.55	ug/L		10/23/15 09:46	10/26/15 20:19	1
2-Nitrophenol	ND		10	0.65	ug/L		10/23/15 09:46	10/26/15 20:19	1
4-Nitrophenol	ND		10	2.1	ug/L		10/23/15 09:46	10/26/15 20:19	1
N-Nitrosodimethylamine	ND		10	3.5	ug/L		10/23/15 09:46	10/26/15 20:19	1
N-Nitrosodi-n-propylamine	ND		10	3.3	ug/L		10/23/15 09:46	10/26/15 20:19	1
N-Nitrosodiphenylamine	ND		10	0.47	ug/L		10/23/15 09:46	10/26/15 20:19	1
Pentachlorophenol	ND		20	1.8	ug/L		10/23/15 09:46	10/26/15 20:19	1
Phenol	ND		10	2.6	ug/L		10/23/15 09:46	10/26/15 20:19	1
Pyridine	ND		10	3.2	ug/L		10/23/15 09:46	10/26/15 20:19	1
Quinoline	ND		10	6.0	ug/L		10/23/15 09:46	10/26/15 20:19	1
2,4,5-Trichlorophenol	ND		10	3.7	ug/L		10/23/15 09:46	10/26/15 20:19	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		10/23/15 09:46	10/26/15 20:19	1

Lab Sample ID: LCS 400-280199/2-A
Matrix: Water
Analysis Batch: 280298

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280199

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	25.0	20.1		ug/L		80	10 - 145
Benzoic acid	126	38.7		ug/L		31	10 - 120
Benzyl alcohol	25.0	20.5		ug/L		82	51 - 121

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-280199/2-A
Matrix: Water
Analysis Batch: 280298

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280199

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-chloroethoxy)methane	25.0	17.9		ug/L		72	54 - 123
Bis(2-chloroethyl)ether	25.0	15.7		ug/L		63	47 - 120
bis (2-chloroisopropyl) ether	25.0	19.1		ug/L		76	20 - 142
Bis(2-ethylhexyl) phthalate	25.0	19.3		ug/L		77	62 - 140
4-Bromophenyl phenyl ether	25.0	21.1		ug/L		84	62 - 132
Butyl benzyl phthalate	25.0	19.9		ug/L		80	51 - 150
4-Chloroaniline	25.0	17.3		ug/L		69	32 - 128
4-Chloro-3-methylphenol	25.0	20.4		ug/L		81	47 - 135
2-Chloronaphthalene	25.0	19.3		ug/L		77	24 - 150
2-Chlorophenol	25.0	18.6		ug/L		74	45 - 120
4-Chlorophenyl phenyl ether	25.0	19.5		ug/L		78	61 - 133
Dibenz[a,h]acridine	30.0	24.1		ug/L		80	60 - 131
Dibenzofuran	25.0	18.7		ug/L		75	62 - 124
3,3'-Dichlorobenzidine	25.0	24.2		ug/L		97	16 - 167
2,4-Dichlorophenol	25.0	19.4		ug/L		78	52 - 125
Diethyl phthalate	25.0	19.4		ug/L		78	55 - 140
2,4-Dimethylphenol	25.0	19.1		ug/L		77	52 - 121
Dimethyl phthalate	25.0	19.8		ug/L		79	50 - 133
Di-n-butyl phthalate	25.0	19.2		ug/L		77	59 - 144
4,6-Dinitro-ortho-cresol	50.0	36.8		ug/L		74	46 - 136
2,4-Dinitrophenol	76.6	52.9		ug/L		69	22 - 146
2,4-Dinitrotoluene	25.0	20.2		ug/L		81	54 - 141
2,6-Dinitrotoluene	25.0	20.7		ug/L		83	61 - 130
Di-n-octyl phthalate	25.0	20.2		ug/L		81	55 - 140
1,4-Dioxane	25.0	14.2		ug/L		57	10 - 130
1,2-Diphenylhydrazine (as Azobenzene)	25.0	20.2		ug/L		81	55 - 139
Hexachlorobenzene	25.0	20.2		ug/L		81	60 - 138
Hexachlorocyclopentadiene	25.0	11.2	J	ug/L		45	1 - 139
Hexachloroethane	25.0	17.8		ug/L		71	46 - 121
Indene	30.0	22.1		ug/L		74	17 - 141
Isophorone	25.0	18.7		ug/L		75	57 - 122
2-Methylphenol	25.0	19.5		ug/L		78	38 - 121
3 & 4 Methylphenol	25.0	18.3	J	ug/L		73	43 - 126
2-Nitroaniline	25.0	22.4		ug/L		90	52 - 135
3-Nitroaniline	25.0	23.6		ug/L		94	51 - 128
4-Nitroaniline	25.0	24.2		ug/L		97	38 - 141
Nitrobenzene	25.0	18.8		ug/L		75	52 - 128
2-Nitrophenol	25.0	18.4		ug/L		74	47 - 129
4-Nitrophenol	50.0	38.4		ug/L		77	34 - 137
N-Nitrosodimethylamine	25.0	19.9		ug/L		79	21 - 134
N-Nitrosodi-n-propylamine	25.0	19.8		ug/L		79	41 - 143
N-Nitrosodiphenylamine	85.2	70.2		ug/L		82	10 - 185
Pentachlorophenol	50.0	34.1		ug/L		68	38 - 138
Phenol	25.0	18.1		ug/L		72	37 - 120
Pyridine	25.0	14.2		ug/L		57	10 - 127
2,4,5-Trichlorophenol	25.0	21.3		ug/L		85	53 - 130
2,4,6-Trichlorophenol	25.0	21.4		ug/L		86	52 - 131

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-280199/2-A
Matrix: Water
Analysis Batch: 280298

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280199

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	74		34 - 120
2-Fluorophenol	62		10 - 120
Nitrobenzene-d5	73		27 - 120
Phenol-d5	72		10 - 120
Terphenyl-d14	78		53 - 125
2,4,6-Tribromophenol	82		15 - 135

Lab Sample ID: LCSD 400-280199/3-A
Matrix: Water
Analysis Batch: 280298

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 280199

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	25.0	15.0		ug/L		60	10 - 145	29	30
Benzoic acid	126	26.6	J *	ug/L		21	10 - 120	37	30
Benzyl alcohol	25.0	19.1		ug/L		76	51 - 121	7	30
Bis(2-chloroethoxy)methane	25.0	17.8		ug/L		71	54 - 123	1	30
Bis(2-chloroethyl)ether	25.0	15.7		ug/L		63	47 - 120	0	30
bis (2-chloroisopropyl) ether	25.0	19.1		ug/L		76	20 - 142	0	30
Bis(2-ethylhexyl) phthalate	25.0	18.3		ug/L		73	62 - 140	5	30
4-Bromophenyl phenyl ether	25.0	20.0		ug/L		80	62 - 132	5	30
Butyl benzyl phthalate	25.0	18.9		ug/L		75	51 - 150	6	30
4-Chloroaniline	25.0	14.7		ug/L		59	32 - 128	16	30
4-Chloro-3-methylphenol	25.0	19.4		ug/L		77	47 - 135	5	30
2-Chloronaphthalene	25.0	18.8		ug/L		75	24 - 150	3	30
2-Chlorophenol	25.0	17.8		ug/L		71	45 - 120	5	30
4-Chlorophenyl phenyl ether	25.0	19.6		ug/L		78	61 - 133	0	30
Dibenz[a,h]acridine	30.0	24.8		ug/L		83	60 - 131	2	30
Dibenzofuran	25.0	18.8		ug/L		75	62 - 124	0	30
3,3'-Dichlorobenzidine	25.0	24.2		ug/L		97	16 - 167	0	30
2,4-Dichlorophenol	25.0	18.6		ug/L		74	52 - 125	4	30
Diethyl phthalate	25.0	19.5		ug/L		78	55 - 140	0	30
2,4-Dimethylphenol	25.0	18.2		ug/L		73	52 - 121	5	30
Dimethyl phthalate	25.0	19.2		ug/L		77	50 - 133	3	30
Di-n-butyl phthalate	25.0	19.6		ug/L		79	59 - 144	2	30
4,6-Dinitro-ortho-cresol	50.0	36.5		ug/L		73	46 - 136	1	30
2,4-Dinitrophenol	76.6	52.9		ug/L		69	22 - 146	0	30
2,4-Dinitrotoluene	25.0	20.3		ug/L		81	54 - 141	0	30
2,6-Dinitrotoluene	25.0	20.0		ug/L		80	61 - 130	3	30
Di-n-octyl phthalate	25.0	19.0		ug/L		76	55 - 140	6	30
1,4-Dioxane	25.0	14.2		ug/L		57	10 - 130	0	30
1,2-Diphenylhydrazine (as Azobenzene)	25.0	19.4		ug/L		78	55 - 139	4	30
Hexachlorobenzene	25.0	19.2		ug/L		77	60 - 138	5	30
Hexachlorocyclopentadiene	25.0	11.0	J	ug/L		44	1 - 139	2	30
Hexachloroethane	25.0	17.4		ug/L		69	46 - 121	2	30
Indene	30.0	21.7		ug/L		72	17 - 141	2	30
Isophorone	25.0	18.5		ug/L		74	57 - 122	1	30
2-Methylphenol	25.0	17.9		ug/L		72	38 - 121	9	30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-280199/3-A
Matrix: Water
Analysis Batch: 280298

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 280199

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
3 & 4 Methylphenol	25.0	16.7	J	ug/L		67	43 - 126	9	30
2-Nitroaniline	25.0	22.2		ug/L		89	52 - 135	1	30
3-Nitroaniline	25.0	21.9		ug/L		87	51 - 128	7	30
4-Nitroaniline	25.0	24.1		ug/L		97	38 - 141	0	30
Nitrobenzene	25.0	18.4		ug/L		74	52 - 128	2	30
2-Nitrophenol	25.0	17.6		ug/L		70	47 - 129	5	30
4-Nitrophenol	50.0	32.5		ug/L		65	34 - 137	17	30
N-Nitrosodimethylamine	25.0	16.5		ug/L		66	21 - 134	19	30
N-Nitrosodi-n-propylamine	25.0	19.5		ug/L		78	41 - 143	1	30
N-Nitrosodiphenylamine	85.2	66.2		ug/L		78	10 - 185	6	30
Pentachlorophenol	50.0	34.1		ug/L		68	38 - 138	0	30
Phenol	25.0	14.5		ug/L		58	37 - 120	22	30
Pyridine	25.0	11.0		ug/L		44	10 - 127	25	30
2,4,5-Trichlorophenol	25.0	20.2		ug/L		81	53 - 130	6	30
2,4,6-Trichlorophenol	25.0	20.2		ug/L		81	52 - 131	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*71*		*34 - 120*
2-Fluorophenol	*56*		*10 - 120*
Nitrobenzene-d5	*69*		*27 - 120*
Phenol-d5	*56*		*10 - 120*
Terphenyl-d14	*72*		*53 - 125*
2,4,6-Tribromophenol	*78*		*15 - 135*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 400-280199/1-A
Matrix: Water
Analysis Batch: 280833

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 280199

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.020	ug/L		10/23/15 09:46	10/28/15 18:10	1
Acenaphthylene	ND		0.20	0.020	ug/L		10/23/15 09:46	10/28/15 18:10	1
Anthracene	ND		0.20	0.020	ug/L		10/23/15 09:46	10/28/15 18:10	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/28/15 18:10	1
Benzo[a]pyrene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/28/15 18:10	1
Benzo[b]fluoranthene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/28/15 18:10	1
Benzo[g,h,i]perylene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/28/15 18:10	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/28/15 18:10	1
Chrysene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/28/15 18:10	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/28/15 18:10	1
Fluoranthene	ND		0.20	0.020	ug/L		10/23/15 09:46	10/28/15 18:10	1
Fluorene	ND		0.20	0.021	ug/L		10/23/15 09:46	10/28/15 18:10	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.040	ug/L		10/23/15 09:46	10/28/15 18:10	1
1-Methylnaphthalene	ND		0.20	0.020	ug/L		10/23/15 09:46	10/28/15 18:10	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/23/15 09:46	10/28/15 18:10	1
Phenanthrene	ND		0.20	0.020	ug/L		10/23/15 09:46	10/28/15 18:10	1
Pyrene	ND		0.20	0.020	ug/L		10/23/15 09:46	10/28/15 18:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	60		15 - 122	10/23/15 09:46	10/28/15 18:10	1
Nitrobenzene-d5	58		19 - 130	10/23/15 09:46	10/28/15 18:10	1
Terphenyl-d14	73		33 - 138	10/23/15 09:46	10/28/15 18:10	1

Lab Sample ID: LCS 400-280199/2-A
Matrix: Water
Analysis Batch: 280833

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280199

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	25.0	18.5		ug/L		74	41 - 120
Acenaphthylene	25.0	18.3		ug/L		73	44 - 120
Anthracene	25.0	17.7		ug/L		71	49 - 120
Benzo[a]anthracene	25.0	19.7		ug/L		79	61 - 135
Benzo[a]pyrene	25.0	17.7		ug/L		71	52 - 120
Benzo[b]fluoranthene	25.0	19.9		ug/L		79	53 - 134
Benzo[g,h,i]perylene	25.0	15.1		ug/L		60	47 - 133
Benzo[k]fluoranthene	25.0	18.9		ug/L		76	57 - 134
Chrysene	25.0	18.8		ug/L		75	55 - 122
Dibenz(a,h)anthracene	25.0	16.3		ug/L		65	48 - 146
Fluoranthene	25.0	18.8		ug/L		75	54 - 128
Fluorene	25.0	21.0		ug/L		84	45 - 125
Indeno[1,2,3-cd]pyrene	25.0	15.9		ug/L		64	43 - 142
1-Methylnaphthalene	25.0	19.4		ug/L		77	41 - 120
2-Methylnaphthalene	25.0	19.4		ug/L		77	32 - 124
Phenanthrene	25.0	17.7		ug/L		71	48 - 120
Pyrene	25.0	19.4		ug/L		78	48 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	70		15 - 122
Nitrobenzene-d5	66		19 - 130
Terphenyl-d14	75		33 - 138

Lab Sample ID: LCSD 400-280199/3-A
Matrix: Water
Analysis Batch: 280833

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 280199

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	25.0	18.8		ug/L		75	41 - 120	1	56
Acenaphthylene	25.0	18.5		ug/L		74	44 - 120	1	56
Anthracene	25.0	17.7		ug/L		71	49 - 120	0	51
Benzo[a]anthracene	25.0	19.7		ug/L		79	61 - 135	0	49
Benzo[a]pyrene	25.0	17.6		ug/L		70	52 - 120	1	50
Benzo[b]fluoranthene	25.0	19.4		ug/L		78	53 - 134	2	54
Benzo[g,h,i]perylene	25.0	14.4		ug/L		58	47 - 133	5	50
Benzo[k]fluoranthene	25.0	18.6		ug/L		75	57 - 134	1	52
Chrysene	25.0	18.7		ug/L		75	55 - 122	1	50
Dibenz(a,h)anthracene	25.0	15.5		ug/L		62	48 - 146	5	50
Fluoranthene	25.0	19.3		ug/L		77	54 - 128	3	52
Fluorene	25.0	21.1		ug/L		84	45 - 125	0	56
Indeno[1,2,3-cd]pyrene	25.0	14.8		ug/L		59	43 - 142	7	51
1-Methylnaphthalene	25.0	19.4		ug/L		78	41 - 120	0	55
2-Methylnaphthalene	25.0	19.5		ug/L		78	32 - 124	0	57
Phenanthrene	25.0	17.9		ug/L		71	48 - 120	1	56

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCSD 400-280199/3-A
Matrix: Water
Analysis Batch: 280833

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 280199

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Pyrene	25.0	18.9		ug/L		76	48 - 132	3	52

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*69*		*15 - 122*
Nitrobenzene-d5	*62*		*19 - 130*
Terphenyl-d14	*67*		*33 - 138*

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-280226/1-A
Matrix: Water
Analysis Batch: 280464

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 280226

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/23/15 11:53	10/26/15 00:06	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/23/15 11:53	10/26/15 00:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*51 - 149*	*10/23/15 11:53*	*10/26/15 00:06*	*1*

Lab Sample ID: LCS 400-280226/2-A
Matrix: Water
Analysis Batch: 280464

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280226

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.100	0.107		ug/L		107	60 - 140
1,2-Dibromoethane	0.100	0.113		ug/L		113	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*114*		*51 - 149*

Lab Sample ID: MB 400-280227/1-A
Matrix: Water
Analysis Batch: 280464

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 280227

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.0055	ug/L		10/23/15 11:58	10/26/15 12:12	1
1,2-Dibromoethane	ND		0.020	0.0050	ug/L		10/23/15 11:58	10/26/15 12:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*119*		*51 - 149*	*10/23/15 11:58*	*10/26/15 12:12*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction (Continued)

Lab Sample ID: LCS 400-280227/2-A
Matrix: Water
Analysis Batch: 280464

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280227

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.100	0.122		ug/L		122	60 - 140
1,2-Dibromoethane	0.100	0.114		ug/L		114	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*124*		*51 - 149*

Shell Oil Products Chain Of Custody Record

AECOM

LAB (LOCATION)
☐ XENCO ( )
☐ CALSCIENCE (TestAmerica Pensacola; 3355 McLemore Dr.)
☑ OTHER (Pensacola, FL 32514 (850-474-1001))
☐ SPL (Lab Vendor #)
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES | ☐ MOTIVA RETAIL | ☐ SHELL RETAIL
☐ MOTIVA SD&CM | ☐ CONSULTANT | ☐ LUBES
☐ SHELL PIPELINE | ☐ OTHER

Print Bill To Contact Name: Bob Billman
PO #: 60400249-21563720.03004
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 19 Oct. 2015
PAGE: 1 of 1

SAMPLING COMPANY: AECOM
LOG CODE:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: bob.billman@aecom.com; elizabeth.kunkel@aecom.com; lindsay.rathnow@aecom.com

SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA
State: IL
GLOBAL ID NO.:
EDF DELIVERABLE TO (Name, Company, Office Location):
PHONE NO.:
E-MAIL:
CONSULTANT PROJECT NO.: Roxana Quarterly GW / 60400249-21563720.03004
SAMPLER NAME(S) (Print): S. Fisher / D. Clark / D. Haxel
LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND
☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD
TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
* Please include "J" values on Reports.
* Please provide sample receipt upon login.

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE: HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260	VOC 8011	SVOC 8270	PAH 8270LL
	TB-ROX-101915-8260	10/9/15	0000	Water	2					2	X			
	TB-ROX-101915-8011		0000		2					2		X		
	MW4-ROX-101915		0935		4			3		7	X	X	X	X
	MW25-ROX-101915		1040		4			3		7	X	X	X	X
	MW8-ROX-101915		1135		4			3		7	X	X	X	X
	MW7-ROX-101915		1435		4			3		7	X	X	X	X
	MW7-ROX-101915-DUP		1435		4			3		7	X	X	X	X

400-112635 COC

FIELD NOTES:
TEMPERATURE ON RECEIPT C°
Comments

Relinquished by: (Signature) Samuel Fisher — Date: 19 Oct. 2015 — Time:
Received by: (Signature) FED EX # 8092 2040 9520
Relinquished by: (Signature) — Date: 10-20-15 — Time: 1021
Received by: (Signature) DCAhrs / TA
Relinquished by: (Signature) — Date: — Time:
Received by: (Signature)

05/2/08 Revision

Custody Seals: TestAmerica 525972 525973 1.5°C, 0.0°C ID-5

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11/11/2015

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 400-112635-1
SDG Number: Proj. 60400249-21563720.03004

Login Number: 112635
List Number: 1
Creator: Benforado, Jessica L

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.5°C, 0.0°C IR-5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: ROXANA QUARTERLY GW - 4Q15

TestAmerica Job ID: 400-112635-1
SDG: Proj. 60400249-21563720.03004

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	11-30-15 *
Arizona	State Program	9	AZ0710	01-11-16
Arkansas DEQ	State Program	6	88-0689	09-01-16
Florida	NELAP	4	E81010	06-30-16
Georgia	State Program	4	N/A	06-30-16
Illinois	NELAP	5	200041	10-09-15 *
Iowa	State Program	7	367	07-31-16
Kansas	NELAP	7	E-10253	10-31-15 *
Kentucky (UST)	State Program	4	53	06-30-16
Kentucky (WW)	State Program	4	98030	12-31-15
Louisiana	NELAP	6	30976	06-30-16
Maryland	State Program	3	233	09-30-16
Massachusetts	State Program	1	M-FL094	06-30-16
Michigan	State Program	5	9912	06-30-16
New Jersey	NELAP	2	FL006	10-30-15 *
North Carolina (WW/SW)	State Program	4	314	12-31-15
Oklahoma	State Program	6	9810	08-31-16
Pennsylvania	NELAP	3	68-00467	01-31-16
Rhode Island	State Program	1	LAO00307	12-30-15
South Carolina	State Program	4	96026	06-30-15 *
Tennessee	State Program	4	TN02907	06-30-16
Texas	NELAP	6	T104704286-15-9	09-30-16
USDA	Federal		P330-13-00193	07-01-16
Virginia	NELAP	3	460166	06-14-16
West Virginia DEP	State Program	3	136	06-30-16

* Certification renewal pending - certification considered valid.