

**FINAL
ABBREVIATED
2015 LONG-TERM MONITORING REPORT
FOR
AIR FORCE PLANT 59
JOHNSON CITY, NEW YORK**

Contract Number FA8903-15-F-0038

**Project Number:
ACHQ20157001
CDRL A008**



**Prepared for
Air Force Civil Engineer Center**

**Prepared by
HydroGeoLogic, Inc.**

April 2016



HGL
HydroGeoLogic, Inc

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LIST OF ACRONYMS AND ABBREVIATIONS

AFCEC	Air Force Civil Engineer Center
AFP 59	Air Force Plant 59
cis-1,2-DCE	cis-1,2-dichloroethene
COPC	chemicals of potential concern
1,1-DCA	1,1-dichloroethane
1,1-DCE	1,1-dichloroethene
FSP	Field Sampling Plan
GEL	GEL Laboratories
HGL	HydroGeoLogic, Inc.
LTM	long-term monitoring
µg/L	micrograms per liter
MCL	maximum contaminant level
ng/L	nanograms per liter
NYSDEC	New York State Department of Environmental Conservation
PCE	tetrachloroethene
TAL	Test America Laboratory
1,1,1-TCA	1,1,1-trichloroethane
TCA	trichloroethane
TCE	trichloroethene
trans-1,2-DCE	trans-1,2-dichloroethene
USEPA	U.S. Environmental Protection Agency
VC	vinyl chloride
VOC	volatile organic compounds

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1.0 INTRODUCTION

HydroGeoLogic, Inc. (HGL) prepared this Final Abbreviated 2015 Long-Term Monitoring Report for the Air Force Civil Engineer Center (AFCEC), under Contract FA8903-15-F-0038, Project Number ACHQ20157001, for the long-term monitoring (LTM) activities at Air Force Plant 59 (AFP 59) in Johnson City, New York (Figure 1). The purpose of this abbreviated monitoring report is to review the LTM activities; outline the sample collection procedures; summarize the results; and provide conclusions and recommendations based on the results of the LTM activities.

1.1 PURPOSE OF THE LONG-TERM MONITORING ACTIVITIES

Based on the conclusions presented in the *Final Remedial Investigation Report* (Earth Tech, 1996) and recommendations made by the New York State Department of Environmental Conservation (NYSDEC), it was determined that volatile organic compounds (VOC) represent the only chemicals of potential concern (COPC) in the groundwater at AFP 59. The LTM objectives for this project were to sample and evaluate VOC levels in groundwater that are above current maximum contaminant level (MCL) standards.

Groundwater samples were collected in accordance with the procedures found in the AFP 59 *Final Field Sampling Plan (FSP) Addendum* (HGL, 2015a). Samples were collected from monitoring wells and analyzed at Test America Laboratory (TAL) for VOCs (U.S. Environmental Protection Agency [USEPA] Method 8260B) and 1,4-dioxane (USEPA Method 8270C). Samples collected from Johnson City municipal well JC2, as part of the LTM program, were analyzed at TAL for VOCs (USEPA Method 8260B) and GEL Laboratories (GEL) for 1,4-dioxane (USEPA Drinking Water Method 522). LTM activities included sampling the following monitoring wells: SW1, DW1, SW3, DW3, SW4, SW7, BM-121, URS-2D, URS-2S, URS-3D, and URS-5S. The LTM also included sampling municipal well JC2 (before treatment by air stripper). Monitoring wells SW1 and DW1 represent upgradient (background) wells, and monitoring wells SW3 and DW3 represent downgradient wells. Five monitoring wells (BM-121, URS-2D, URS-2S, URS-3D, and URS-5S) and one municipal well (JC2) are located off site, to the west and south of the site.

1.2 PROCEDURES USED FOR THE LONG-TERM MONITORING ACTIVITIES

Sampling activities followed protocols presented in the *Final Work Plan Base Long-Term Monitoring at AFP 59* (HGL, 2015b) and the *Final Field Sampling Plan Addendum* (HGL, 2015a). In November 2015, HGL collected groundwater samples from six on-site AFP 59

monitoring wells (SW1, DW1, SW3, DW3, SW4, and SW7); five off-site monitoring wells (BM-121, URS-2D, URS-2S, URS-3D, and URS-5S); and one municipal well (JC2). All of the monitoring well groundwater samples were analyzed for VOCs by USEPA Method SW8260B and 1,4-dioxane using USEPA Method SW8270C. The water sample collected from the municipal well (JC2) was analyzed for VOCs by USEPA Method SW8260B and 1,4-dioxane using USEPA Drinking Water Method 522.

All of the monitoring wells were sampled using micropurge methodology. This is a low flow-rate well purging and sampling method that induces laminar (non-turbulent) flow in the immediate vicinity of the sampling pump intake, thereby drawing groundwater directly from the sampled aquifer horizontally through the monitoring well screen and into the sampling device. The monitoring wells were purged to evacuate stagnant water in the wells and to obtain a sample that is most representative of the aquifer. During purging, the temperature, pH, specific conductivity, and turbidity were measured and recorded on each monitoring well sampling form. The municipal well sample was collected from a sampling valve after a 5-minute purge. Groundwater parameters were recorded immediately after the sample collection. The field forms and calibration forms are appended as Attachment 1.

1.3 ANALYTICAL RESULTS FROM THE LONG-TERM MONITORING ACTIVITIES

The following subsections discuss the analytical results obtained from groundwater samples collected from both on-site and off-site monitoring wells. The VOCs detected in groundwater samples are illustrated on Figure 2. The analytical results for all groundwater samples collected during the November 2015 sampling event are summarized in Table 1. The laboratory reports and data validation reports are appended as Attachments 2 and 3, respectively. Data validation flags utilized in this document are detailed in Attachment 4 and reflect Table 8.2.1.5-1 in the Final Quality Assurance Project Plan (AECOM, 2009).

1.3.1 Shallow Zone of the Aquifer

VOCs were detected in the groundwater samples collected from on-site monitoring wells SW3, SW4, and SW7, and off-site monitoring wells URS-2S and URS-5S (refer to Figure 2). Chlorinated hydrocarbons were detected in the samples collected from the shallow zone of the aquifer in November 2015. VOCs were not detected in the groundwater samples collected from on-site monitoring well SW1 or off-site monitoring well BM-121.

The following results represent the maximum concentrations of contaminants detected in the groundwater samples collected from on-site monitoring wells during the November 2015 event:

- SW3
 - trichloroethene (TCE) at 0.42 F micrograms per liter (µg/L);
 - cis-1,2-dichloroethene (cis-1,2-DCE) at 0.27 F µg/L; and
 - 1,1,1- trichloroethane (1,1,1-TCA) at 0.24 F µg/L.

- SW4
 - 1,1,1-TCA at 0.64 F $\mu\text{g/L}$;
 - 1,1-dichloroethane (1,1-DCA) at 0.58 F $\mu\text{g/L}$;
 - cis-1,2-DCE at 2.7 $\mu\text{g/L}$;
 - tetrachloroethene (PCE) at 0.32 F $\mu\text{g/L}$; and
 - TCE at 4.9 $\mu\text{g/L}$.
- SW7
 - 1,1,1-TCA at 1.8 $\mu\text{g/L}$;
 - 1,1-DCA at 5.1 $\mu\text{g/L}$;
 - 1,1-dichloroethene (1,1-DCE) at 0.52 F $\mu\text{g/L}$;
 - PCE at 0.70 F $\mu\text{g/L}$;
 - cis-1,2-DCE at 40 $\mu\text{g/L}$;
 - trans-1,2-dichloroethene (trans-1,2-DCE) at 0.16 F $\mu\text{g/L}$;
 - vinyl chloride (VC) at 1.2 F $\mu\text{g/L}$; and
 - TCE at 9.5 $\mu\text{g/L}$.
- URS-2S
 - 1,1-DCA at 1.3 $\mu\text{g/L}$;
 - 1,1,1-TCA at 2.4 $\mu\text{g/L}$;
 - TCE at 2.8 $\mu\text{g/L}$; and
 - cis-1,2-DCE at 1.8 $\mu\text{g/L}$.
- URS-5S
 - 1,1,1-TCA at 0.52 F $\mu\text{g/L}$; and
 - TCE at 0.56 F $\mu\text{g/L}$.

Exceedances occurred above the New York State Groundwater Quality Standard of 5 $\mu\text{g/L}$ for cis-1,2-DCE and TCE at well SW7. These results are highlighted on Figure 2.

During the November 2015 sampling event, 1,4-dioxane was sampled in the four on-site and three off-site shallow monitoring wells. 1,4-Dioxane was detected in monitoring wells SW4, SW7, URS-2S, URS-5S, and BM-121 at concentrations of 1.6 micrograms per liter ($\mu\text{g/L}$), 6 $\mu\text{g/L}$, 12 $\mu\text{g/L}$, 0.40 F $\mu\text{g/L}$, and 0.40 F $\mu\text{g/L}$, respectively. 1,4-Dioxane was not detected in monitoring wells SW1 and SW3.

1.3.2 Deep Zone of the Aquifer

VOCs were detected in the groundwater samples collected from one on-site monitoring well, (DW3) and two off-site monitoring wells (URS-2D and URS-3D) (refer to Figure 2). Chlorinated hydrocarbons were the only VOCs detected in the samples collected from the deep zone of the aquifer. The VOCs detected in monitoring well DW3 include cis-1,2-DCE at 50 µg/L and 1,1-DCA at 0.31 F µg/L. The following maximum concentrations were detected in the groundwater sample collected from the off-site monitoring well URS-2D: 1,1-DCA at 0.20 F µg/L; and cis-1,2-DCE at 61 µg/L. Additionally, the following maximum concentrations were detected in the groundwater sample collected from the off-site monitoring well URS-3D: 1,1,1-TCA at 1.0 µg/L; TCE at 1.6 µg/L; and cis-1,2-DCE at 0.90 F µg/L. Cis-1,2-DCE exceeded the New York State Groundwater Quality Standard of 5 µg/L in on-site well DW3 and off-site well URS-2D. Also, 1,4-dioxane was sampled in both the on-site and off-site deep monitoring wells. 1,4-Dioxane was only detected in monitoring wells DW3 at 6.7 µg/L; URS-2D at 21 µg/L; and URS-3D at 5.8 µg/L.

1.3.3 Municipal Well

VOCs were detected in the untreated water sample collected from a sample port at municipal well JC2. Detected VOCs constituents at JC2 included: 1,1,1-TCA at 0.33 F µg/L; TCE at 0.39 F µg/L; and cis-1,2-DCE at 0.24 F µg/L. 1,4-Dioxane was detected at 0.896 F µg/L in water sampled from JC2.

1.4 TREND ANALYSIS

Concentrations of the most commonly detected chlorinated hydrocarbons in groundwater at AFP 59 over time are presented in Table 2. Only monitoring wells that were sampled as part of the groundwater monitoring program are included in the table.

In the groundwater samples collected from the shallow monitoring wells during the November 2015 sampling event, concentrations of the chlorinated hydrocarbons in monitoring well SW3 decreased slightly (1,1,1-TCA, TCE, and cis-1,2-DCE), compared to the previous sampling event in November 2014.

The concentrations of the chlorinated hydrocarbons in monitoring well SW4 remained relatively constant, with only moderate variations in TCE and cis-1,2-DCE concentrations when compared to the November 2014 sampling event. TCE concentrations increased from 3.4 µg/L in November 2014 to 4.9 µg/L in November 2015. Other increases in concentrations during the November 2015 sampling event include: cis-1,2-DCE (1.7 µg/L to 2.7 µg/L) and 1,1-dichloroethane (1,1-DCA) (ND to 0.58 F µg/L). As compared to the November 2014 sampling event, the concentrations of TCA and 1,1-DCE decreased slightly during the November 2015 sampling event (0.75 F µg/L to 0.64 F µg/L and 0.46 F µg/L to ND, respectively).

Concentrations of chlorinated compounds at SW7 showed slight increases and decreases during the November 2015 sampling event relative to the November 2014 sampling event. A comparison of November 2014 and November 2015 concentrations of trans-1,2-DCE (0.20 F

µg/L to 0.16 F µg/L), TCA (1.9 µg/L to 1.8 µg/L), and 1,1-DCE (0.67 F µg/L to 0.52 F µg/L) indicated only a slight decrease. A comparison of November 2014 to November 2015 concentrations of TCE (7.8 µg/L to 9.5 µg/L), VC (0.78 F µg/L to 1.2 F µg/L), 1,1-DCA (4.6 µg/L to 5.1 µg/L), and cis-1,2 DCE (33 µg/L to 40 µg/L) indicated essentially no change/slight increase or a low to moderate increase.

Concentrations of chlorinated compounds at shallow monitoring well URS-2S indicated primarily minor decreases during the November 2015 sampling event relative to the November 2014 sampling event. A comparison of November 2014 and November 2015 concentrations of TCA (4.1 µg/L to 2.4 µg/L), TCE (3.7 µg/L to 2.8 µg/L), 1,1-DCE (0.32 F µg/L to ND) and 1,1-DCA (2.1 µg/L to 1.3 µg/L) indicated minor to only slight decreases. A comparison of November 2014 and November 2015 sampling event concentrations of cis-1,2-DCE (1.2 µg/L to 1.8 µg/L) indicated a minor increase.

The groundwater sample collected during the November 2015 sampling event from deep monitoring well DW3, revealed chlorinated hydrocarbons to be below detection limits (TCA, TCE, VC, 1,1-DCE, and trans-1,2-DCE) or showed a very minor increase (cis-1,2 DCE) or decrease (1,1-DCA). The groundwater sample collected in November 2015 at deep monitoring well DW1 indicated non-detection for all VOCs compounds, including TCA, which had a detection of 0.19 F µg/L in November 2014. VOCs were not detected in the groundwater sample collected from shallow monitoring well SW1. These results are consistent with previous sampling events.

Detectable concentrations of cis-1,2-DCE (61 µg/L) and 1,1-DCA (0.20 F µg/L) were found in the groundwater sample collected from off-site deep monitoring well URS-2D in November 2015. The cis-1,2-DCE result for the November 2015 sampling event (61 µg/L) indicated a decrease relative to the November 2014 sampling event (67 µg/L). The 1,1-DCA analytical result in November 2015 (0.20 F µg/L) was similar to the analytical result from November 2014 (0.27 F µg/L). All other VOCs constituent concentrations were below detection limits (non-detection).

Concentrations of chlorinated compounds at Johnson City Municipal Well JC2 remained relatively unchanged based on a comparison of November 2014 and November 2015 groundwater sampling analytical data. A comparison of November 2014 and November 2015 concentrations of TCA (0.24 F µg/L to 0.33 F µg/L), TCE (0.33 F µg/L to 0.39 F µg/L) and cis-1,2-DCE (0.23 F µg/L to 0.24 F µg/L) indicated low detections with only minor increases and are relatively unchanged.

2.0 CONCLUSIONS AND RECOMMENDATIONS

Concentrations of cis-1,2-DCE continued to exceed the New York State Groundwater Quality Standard of 5 µg/L in shallow monitoring well SW7. Additionally, the concentration of TCE at well SW7 exceeded the New York State Groundwater Quality Standard of 5 µg/L during the November 2015 sampling event. Groundwater concentrations detected in off-site shallow

monitoring wells URS-2S and URS-5S did not exceed the New York State Groundwater Quality Standard of 5 µg/L for chlorinated compounds.

Concentrations of cis-1,2-DCE exceeded the New York State Groundwater Quality Standard of 5 µg/L in the deeper portion of the aquifer. Monitoring well DW3, located on the AFP 59 boundary downgradient of the suspected source, and monitoring well URS-2D, located at a downgradient off-site location, exceeded the New York State Groundwater Quality Standard for cis-1,2-DCE during the November 2015 groundwater sampling event.

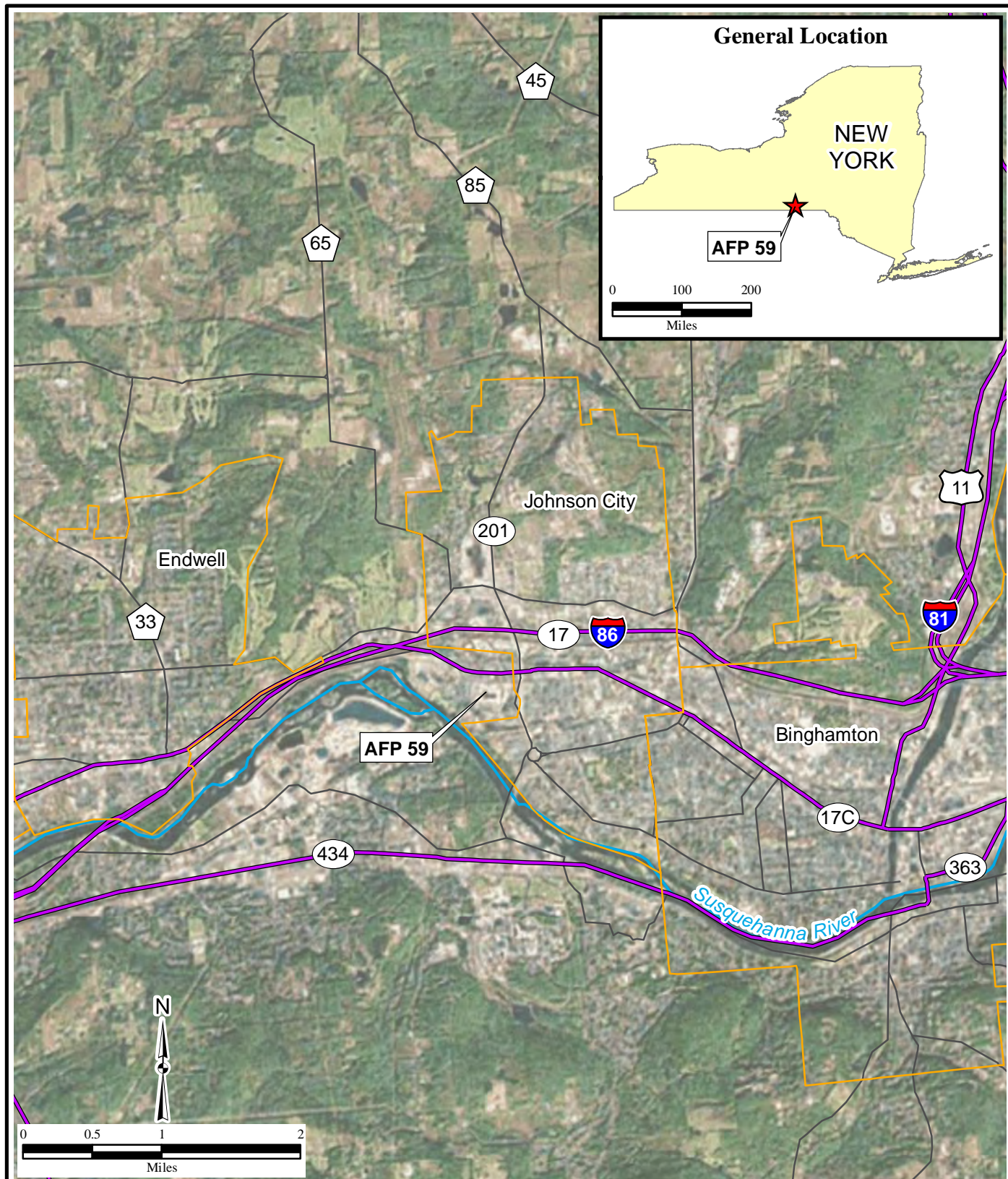
Analytical results from water samples collected from municipal well JC2 revealed all contaminants to be below New York State Groundwater Quality Standards.

Based on the results of these LTM activities, groundwater exceeding the New York State Groundwater Quality Standards is migrating off AFP 59 property in the deep monitoring wells. Additional groundwater monitoring is recommended to monitor the migration of contaminants off site.

3.0 REFERENCES

- AECOM, 2009. *Final Quality Assurance Project Plan for the Vapor Intrusion Investigation, Groundwater Monitoring Activities, and Well Abandonment at Air Force Plant 59, Johnson City, New York.* August.
- Earth Tech, 1996. *Installation Restoration Program - Final Remedial Investigation Report, Air Force Plant 59.*
- HydroGeoLogic, Inc. (HGL), 2015a. *Final Field Sampling Plan Addendum, Basewide Long-Term Monitoring at Air Force Plant 59, Johnson City, New York.* December.
- HGL, 2015b. *Final Work Plan, Basewide Long-Term Monitoring at Air Force Plant 59, Johnson City, New York.* December.

FIGURES



\\GST-srv-01\HGLGIS\AFP_59\MSIW\LTM_2014\
(01)site_loc.mxd
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Source: HGL, ESRI,
ArcGIS Online Bing Maps Aerial







Legend

- Major Road
- Highway
- City Limit
- Surface Water Course

Figure 1
Site Location
AFP 59

Figure 2
Groundwater Sampling Results
November 2014 and November 2015
On-site and Off-site Monitoring Wells

Legend

-  AFP 59 Monitoring Well
-  Off-site Monitoring Well
- URS-9S Monitoring Well Identification
-  Surface Water Course
-  Air Force Plant 59

Notes:

35.3 M—Shaded values indicate a New York State (NYS) groundwater effluent Class GA exceedance.

J=The analyte was positively detected but the quantitation is an estimation

F= The analyte was positively identified but the associated numerical value is below the reporting limit.

M=Matrix Effect. The analyte concentration was estimated due to matrix effect and therefore estimated.

ND=Analyte not detected above laboratory method detection limits.

NS=Monitoring well "Not Sampled" during event.

VOC=volatile organic compound

µg/L=microgram per liter

After Air Stripper Sample	Concentration (µg/L)
Analyte	10-Oct-13
All Analytes	All VOCs ND



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Source: HGL, ESRI, AECOM,

ArcGIS Online Imagery

TABLES

Table 1
Summary of Detected VOCs
November 2015

Method	Analyte	NYS GW Effluent Limitations Class GA	Units	59DW1WG1	59DW3WG1	59JC2WG1	59SW1WG1	59SW3WG1	59BM121WG1	59SW7WG1	59URS2DWG1	59URS2SWG1
				11/4/2015	11/4/2015	11/5/2015	11/3/2015	11/4/2015	11/2/2015	11/4/2015	11/3/2015	11/3/2015
				280-76497-6	280-76497-17	280-76497-16	280-76497-7	280-76497-8	280-76497-2	280-76497-9	280-76497-3	280-76497-4
VOLATILES by Method 8260B	1,1-Dichloroethane	5	µg/L	0.16 U	0.31 F	0.16 U	0.16 U	0.16 U	0.16 U	5.1	0.20 F	1.3
	Tetrachloroethene	5	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.70 F	0.20 U	0.20 U
	1,1,1-Trichloroethane	5	µg/L	0.16 U	0.16 U	0.33 F	0.16 U	0.24 F	0.16 U	1.8	0.16 U	2.4
	Vinyl chloride	2	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	1.2 F	0.10 U	0.10 U
	1,1-Dichloroethene	5	µg/L	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.52 F	0.14 U	0.14 U
	trans-1,2-Dichloroethene	5	µg/L	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.16 F	0.15 U	0.15 U
	Trichloroethene	5	µg/L	0.16 U	0.16 U	0.39 F	0.16 U	0.42 F	0.16 U	9.5	0.16 U	2.8
	4-Methyl-2-pentanone	5	µg/L	1.0 M	1.0 M	1.0 M	1.0 M	1.0 M	1.0 M	1.0 M	1.0 M	1.0 M
	cis-1,2-Dichloroethene	5	µg/L	0.15 U	50	0.24 F	0.15 U	0.27 F	0.15 U	40	61	1.8
SEMI-VOLATILES by Method 8270C	1,4-Dioxane	NS	µg/L	0.082 U	6.7	0.896 F	0.082 U	0.083 U	0.40 F	6.0	21	12
FIELD PARAMETERS	Temperature, Initial	NS	° Celsius	12.37	14.88	-	14.98	15.90	12.29	14.43	12.59	12.70
	Temperature, Final		° Celsius	12.48	14.37	13.32	13.74	15.92	12.22	14.09	12.82	13.22
	pH		Std units	6.9	6.83	6.17	6.68	6.78	7.63	6.90	6.88	6.53
	Specific Conductance		mS/cm	1.445	1.514	1.054	1.981	1.431	0.687	1.403	1.453	1.338
	ORP		mV	83.3	-18.7	163.4	100.0	128.3	-156.8	59.7	-41.2	24.2
	Dissolved Oxygen		mg/L	2.6	0.58	3.06	0.80	2.66	0.69	0.41	1.51	0.93
	Turbidity		NTU	144	7.78	0.08	1.48	0.17	14.1	7.88	82.9	29.2

Notes:
F - The analyte was positively identified but the associated numerical value is below the reporting limit (RL).
M - A matrix effect present.
U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.
NA - Not Applicable
NS - No Standard

<2.5	- Non-Detect
6.5	- NYS GW Effluent; Class GA exceedances

Bolded numbers are detections

Duplicate Sample/Parent Sample Associations:
1 - Sample 59DUP01WG1 is a duplicate of parent sample 59SW4WG1.
2 - Sample 59DUP02WG1 is a duplicate of parent sample 59DW3WG1. Duplicate only of 1,4-Dioxane analysis.

Table 1
Summary of Detected VOCs
November 2015

Method	Analyte	NYS GW Effluent Limitations Class GA	Units	59URS3DWG1	59URS5SWG1	59EB110515	TB110415	TB110215	59DUP01WG1	59DUP02WG1	59AB110515	59SW4WG1
				11/2/2015	11/3/2015	11/5/2015	11/4/2015	11/2/2015	11/5/2015	11/19/2014	11/5/2015	11/5/2015
				280-76497-1	280-76497-5	280-76497-14EB	280-76497-15TB	280-76497-18TB	280-76497-11FD	280-62916-13FD	280-76497-13FB	280-76497-10
VOLATILES by Method 8260B	1,1-Dichloroethane	5	µg/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.59 F	-	0.16 U	0.58 F
	Tetrachloroethene	5	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.32 F	-	0.20 U	0.32 F
	1,1,1-Trichloroethane	5	µg/L	1.0	0.52 F	0.16 U	0.16 U	0.16 U	0.66 F	-	0.16 U	0.64 F
	Vinyl chloride	2	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	-	0.10 U	0.10 U
	1,1-Dichloroethene	5	µg/L	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	-	0.14 U	0.14 U
	trans-1,2-Dichloroethene	5	µg/L	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	-	0.15 U	0.15 U
	Trichloroethene	5	µg/L	1.6	0.56 F	0.16 U	0.16 U	0.16 U	5.2	-	0.16 U	4.9
	4-Methyl-2-pentanone	5	µg/L	1.0 M	1.0 M	1.0 M	1.0 M	1.0 M	1.0 M	-	1.0 M	1.0 M
	cis-1,2-Dichloroethene	5	µg/L	0.90 F	0.15 U	0.15 U	0.15 U	0.15 U	2.8	-	0.15 U	2.7
SEMI-VOLATILES by Method 8270C	1,4-Dioxane	NS	µg/L	5.8	0.40 F	0.083 U			1.6	8.1		1.6
FIELD PARAMETERS	Temperature, Initial	NS	° Celsius	12.37	13.25							13.26
	Temperature, Final		° Celsius	12.48	12.81							13.29
	pH		Std units	6.90	6.90							6.66
	Specific Conductance		mS/cm	1.445	1.453							1.302
	ORP		mV	83.3	63.1							112.3
	Dissolved Oxygen		mg/L	2.60	1.02							2.60
	Turbidity		NTU	144	16.2							2.87

Notes:
F - The analyte was positively identified but the associated numerical value is below the reporting limit (RL).
M - A matrix effect present.
U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.
NA - Not Applicable
NS - No Standard

<2.5	- Non-Detect
6.5	- NYS GW Effluent; Class GA exceedances

Bolded numbers are detections

Duplicate Sample/Parent Sample Associations:
1 - Sample 59DUP01WG1 is a duplicate of parent sample 59SW4WG1.
2 - Sample 59DUP02WG1 is a duplicate of parent sample 59DW3WG1. Duplicate only of 1,4-Dioxane analysis.

Table 2
Trend Analysis of VOCs in Groundwater

Well ID	Date Sampled	Concentrations of Analyte in Groundwater $\mu\text{g/L}$						
		TCA	TCE	VC	1,1-DCE	<i>trans</i> - 1,2 DCE	1,1-DCA	<i>cis</i> - 1,2 DCE
SW1	Sep-86	—	—	—	—	—	—	—
	Jan-92	0.5	—	—	—	—	—	—
	Dec-94	—	—	—	—	—	—	—
	Nov-99	—	—	—	—	—	—	—
	May-00	—	—	—	—	—	—	—
	Nov-00	—	—	—	—	—	—	—
	May-01	—	—	—	—	—	—	—
	Nov-01	0.11 J	—	—	—	—	—	—
	May-02	—	—	—	—	—	—	—
	Nov-02	—	—	—	—	—	—	—
	May-03	—	—	—	—	—	—	—
	Nov-03	—	—	—	—	—	—	—
	Jun-04	—	—	—	—	—	—	—
	Nov-04	—	—	—	—	—	—	—
	Oct-05	—	—	—	—	—	—	—
	Jun-08	—	—	—	—	—	—	—
	Nov-08	NS	NS	NS	NS	NS	NS	NS
	Nov-09	—	—	—	—	—	—	—
	Nov-10	0.11	—	—	—	—	—	—
	CY2011	NA	NA	NA	NA	NA	NA	NA
	Aug-12	—	—	—	—	—	—	—
	Oct-13	—	—	—	—	—	—	—
	Nov-14	—	—	—	—	—	—	—
	Nov-15	—	—	—	—	—	—	—
DW1	Jan-92	0.6	—	—	—	—	—	—
	Dec-94	—	—	—	—	—	—	1.8
	Nov-99	—	—	—	—	—	—	—
	May-00	—	—	—	—	—	—	—
	Nov-00	—	—	—	—	—	—	—
	May-01	—	—	—	—	—	—	—
	Nov-01	—	—	—	—	—	—	—
	May-02	—	—	—	—	—	—	—
	Nov-02	—	—	—	—	—	—	—
	May-03	—	—	—	—	—	—	—
	Nov-03	—	—	—	—	—	—	—
	Jun-04	—	—	—	—	—	—	—
	Nov-04	—	—	—	—	—	—	—
	Oct-05	—	—	—	—	—	—	—
	Jun-08	—	—	—	—	—	—	—
	Nov-08	NS	NS	NS	NS	NS	NS	NS

Table 2
Trend Analysis of VOCs in Groundwater (continued)

Well ID	Date Sampled	Concentrations of Analyte in Groundwater µg/L						
		TCA	TCE	VC	1,1-DCE	<i>trans</i> - 1,2 DCE	1,1-DCA	<i>cis</i> - 1,2 DCE
DW1 (cont.)	Nov-09	—	—	—	—	—	—	—
	Nov-10	0.18	—	—	—	—	—	—
	CY2011	NA	NA	NA	NA	NA	NA	NA
	Aug-12	—	—	—	—	—	—	—
	Oct-13	—	—	—	—	—	—	—
	Nov-14	0.19 F	—	—	—	—	—	—
	Nov-15	—	—	—	—	—	—	—
SW3	Sep-86	—	6	—	—	—	—	—
	Jan-92	12	9	—	—	—	5	—
	Dec-94	0.5	1.8	—	—	—	—	—
	Dec-95	0.86	2.8	—	—	—	—	0.44
	Jul-97	—	1	—	—	—	—	—
	Nov-98	0.22	0.81	—	—	—	—	0.1
	Apr-99	0.51	0.71	—	—	—	—	0.17
	Nov-99	0.29	0.9	—	—	—	—	0.39
	May-00	0.69	1	—	—	—	0.55	1.29
	Nov-00	0.43	0.9	—	—	—	—	0.22
	May-01	0.46	0.8	—	—	—	0.32	1.29
	Nov-01	0.32 J	0.5 J	—	—	—	—	—
	May-02	0.42 J	0.8 J	—	—	—	0.46 J	—
	May-03	0.584 J	0.893 J	—	—	—	0.302 J	1.37 J
	Nov-03	0.398 J	0.856 J	—	—	—	—	0.511 J
	Jun-04	0.9 J	0.94 J	—	—	—	0.95 J	3.7
	Nov-04	0.52 J	1	0.26 J	—	—	0.38 J	1.5
	Oct-05	0.47 J	0.86 J	—	—	—	—	0.55 J
	Jun-08	0.661 J	1.31	—	—	—	0.403 J	1.45
	Nov-08	0.345 J	0.759 J	—	—	—	—	—
	Nov-09	0.367 J	0.62 J	—	—	—	—	0.539 J
	Nov-10	0.41	0.59	—	—	—	—	0.17
	CY2011	NA	NA	NA	NA	NA	NA	NA
	Aug-12	—	0.51	—	—	—	—	0.28 F
	Oct-13	—	0.70 F	—	—	—	—	1
	Nov-14	0.26 F	0.51 F	—	—	—	—	0.31 F
	Nov-15	0.24 F	0.42 F	—	—	—	—	0.27 F
DW3	Jan-92	0.3	—	—	—	—	0.3	—
	Dec-94	—	—	0.28	—	—	0.26	36
	Dec-95	—	—	—	—	—	—	5.2
	Apr-97	—	—	—	—	—	—	41
	Jul-97	—	—	—	—	—	—	49
	Nov-98	—	—	—	—	—	0.34	66
	Apr-99	—	—	0.28	0.11	—	0.35	67
	Nov-99	—	—	—	—	—	—	—

Table 2
Trend Analysis of VOCs in Groundwater (continued)

Well ID	Date Sampled	Concentrations of Analyte in Groundwater $\mu\text{g/L}$						
		TCA	TCE	VC	1,1-DCE	<i>trans</i> - 1,2 DCE	1,1-DCA	<i>cis</i> - 1,2 DCE
DW3 (cont.)	May-00	—	—	—	—	0.25	0.16	24.98
	Nov-00	—	—	—	—	—	—	16.85
	May-01	—	—	—	—	—	—	13.29
	Nov-01	—	—	—	—	—	—	13.58
	May-02	—	—	—	—	—	0.1 J	21.08
	May-03	—	—	—	—	—	—	—
	Nov-03	—	—	—	—	—	—	1.18 J
	Jun-04	—	—	—	—	—	—	1.3
	Nov-04	—	—	—	—	—	—	2.1
	Oct-05	—	—	—	—	—	—	3
	Jun-08	—	—	—	—	—	—	73.1
	Nov-08	—	—	—	—	—	0.41 J	67.3
	Nov-09	—	—	—	—	—	0.369 J	64.3
	Nov-10	—	—	—	—	—	—	8.4
	CY2011	NA	NA	NA	NA	NA	NA	NA
	Aug-12	—	—	—	—	—	0.32 F	56
	Oct-13	—	—	0.18 F	0.32 F	—	—	57
	Nov-14	—	—	—	—	—	0.32 F	49
	Nov-15	—	—	—	—	—	0.31 F	50
SW4	Jan-92	2	97	—	0.3	—	0.6	—
	Dec-94	20	370	—	2.1	—	8.5	19
	Dec-95	34	1200	—	4.9	2.1	6.9	34
	Apr-97	—	—	—	—	—	7.1	71
	Jul-97	23	290	—	—	—	—	15
	Nov-98	8	46	0.42	0.82	—	9	10
	Apr-99	1.9	9.53	—	—	—	0.87	1.85
	Nov-99	2.13	9.5	—	0.18	—	7.7	7.15
	May-00	2.88	8	0.11	0.21	0.49	1.67	4.3
	Nov-00	1.14	15.2	1.49	0.29	—	15.25	11.18
	May-01	3.35	34	—	0.36	0.38	1.3	3.19
	Nov-01	0.88	5.7	0.43 J	0.12 J	—	7.18	5.27
	May-02	2.54	21.63	—	0.34 J	—	0.79 J	2.07
	May-03	3.05 J	9.09 J	—	—	—	1.44 J	3.36 J
	Nov-03	2.03	4.63	—	—	—	0.93	1.93
	Jun-04	2.8	41	—	0.57 J	0.11	1.3	3.3
	Nov-04	3.1	56	—	0.88 J	0.19 J	1.4	4.1
	Oct-05	2.2	43	—	1	—	1.7	6.3
	Jun-08	2.98	17.8	—	0.751 J	0.364 J	1.51	4.35
	Nov-08	0.513 J	12.7	—	—	—	0.825 J	3.38
	Nov-09	1.38	11.1	—	—	—	0.536 J	1.85
	Nov-10	1.6	48	—	0.64	—	1.1	3.2

Table 2
Trend Analysis of VOCs in Groundwater (continued)

Well ID	Date Sampled	Concentrations of Analyte in Groundwater µg/L						
		TCA	TCE	VC	1,1-DCE	<i>trans</i> - 1,2 DCE	1,1-DCA	<i>cis</i> - 1,2 DCE
SW4 (cont.)	CY2011	NA	NA	NA	NA	NA	NA	NA
	Aug-12	0.66	11	—	—	—	0.64 F	2.3
	Oct-13	1.8	6.6	—	0.26 F	—	—	2.6
	Nov-14	0.75 F	3.4	—	0.46 F	—	—	1.7
	Nov-15	0.64 F	4.9	—	—	—	0.58 F	2.7
SW7	Dec-94	4.6	56	6.2	1	0.3	33	150
	Dec-95	2.2	43	6.8	0.8		20	130
	Jul-97	—	17.8	—	—	—	—	2
	Nov-98	2.5	12.7	3.4	0.65	0.28	12	82
	Apr-99	1.23	15	—	—	—	1.46	5.25
	Nov-99	1.01	7.9	—	0.19	—	3.38	18.8
	May-00	0.67	4	—	—	0.12	0.71	2.43
	Nov-00	0.91	11	0.52	0.15	—	3.48	16.06
	May-01	1.18	3.95	—	—	—	0.47	1.46
	Nov-01	0.8 J	5.7	0.85 J	0.19 J	0.13 J	3.02	25.89
	May-02	0.87 J	1.5	—	—	—	0.47 J	2.79
	May-03	1.5 J	3.8	—	—	—	0.409 J	1.43 J
	Nov-03	0.674 J	1.9	—	—	—	0.509	2.76
	Jun-04	1	1	—	—	—	0.3 J	1.1
	Nov-04	1.5	2.1	0.47 J	0.25 J	—	1.5 J	10 J
	Oct-05	0.73 J	3.1	—	—	—	1.4	12
	Jun-08	2.5	2.94	—	—	—	1.59	6.34
	Nov-08	1.88	8.15	1.21 M	—	0.302 J	5.04	35.3 M
	Nov-09	1.24	2.42	—	—	—	0.905 J	5.21
	Nov-10	1	2.4	1	0.21	0.096	0.58	4.3
	CY2011	NA	NA	NA	NA	NA	NA	NA
	Aug-12	2	9.9	1.2	0.65	0.21 F	6.5	44
	Oct-13	—	2.5	—	0.93 F	—	—	7
	Nov-14	1.9	7.8	0.78 F	0.67 F	0.20 F	4.6	33
	Nov-15	1.8	9.5	1.2 F	0.52 F	0.16 F	5.1	40
URS-2S	Jun-08	2.2	2.19	—	—	—	0.569 J	0.996 J
	Nov-09	2.99	2.79	—	—	—	1.07	1.46
	Nov-10	2.2	2.6	—	0.37 J	—	1.1	1.3
	CY2011	NA	NA	NA	NA	NA	NA	NA
	Jul-12	3.3	4.4	—	—	—	1.6	1.9
	Oct-13	1.6	2.3	—	—	—	1.1	1.2
	Nov-14	4.1	3.7	—	0.32 F	—	2.1	1.2
	Nov-15	2.4	2.8	—	—	—	1.3	1.8
URS-2D	Jun-08	—	—	0.354 J	—	—	0.339 J	71.9
	Nov-09	—	—	0.364 J	—	—	0.244 J	72.7
	Nov-10	—	—	0.22 J	—	0.11 J	0.23 J	69

Table 2
Trend Analysis of VOCs in Groundwater (continued)

Well ID	Date Sampled	Concentrations of Analyte in Groundwater $\mu\text{g/L}$						
		TCA	TCE	VC	1,1-DCE	<i>trans</i> - 1,2 DCE	1,1-DCA	<i>cis</i> - 1,2 DCE
URS-2D (cont.)	CY2011	NA	NA	NA	NA	NA	NA	NA
	Jul-12	—	—	0.22 J	—	—	0.27 J	71
	Oct-13	—	—	—	—	0.17 F	0.21 F	62
	Nov-14	—	—	—	—	—	0.27 F	67
	Nov-15	—	—	—	—	—	0.20 F	61
JC-2	Aug-12	NA	NA	NA	NA	NA	NA	NA
	Oct-13	0.36 F	0.48 F	—	—	—	—	0.29 F
	Nov-14	0.24 F	0.33 F	—	—	—	—	0.23 F
	Nov-15	0.33 F	0.39 F	—	—	—	—	0.24 F
JC-3	Aug-12	0.56	0.92	—	—	—	—	0.26 J
	Oct-13	NA	NA	NA	NA	NA	NA	NA
	Nov-14	NA	NA	NA	NA	NA	NA	NA
	Nov-15	NA	NA	NA	NA	NA	NA	NA

Notes:

"—": Analyte not detected above laboratory method detection limits

NS: Monitoring well "Not Sampled" during event

NA: Analytical data "Not Available" due to extensive flood event at site and surrounding area in CY2011.

Groundwater sampling not conducted in CY2011.

J: The analyte was positively detected, but the quantitaion is an estimation

F: The analyte was positively identified but the associated numerical value is below the reporting limit (RL).

M: Matrix Effect. The analyte concentration was estimated due to matrix effect and therefore estimated

Bolded numbers are exceedances

ATTACHMENT 1

FIELD FORMS

GROUNDWATER FIELD SAMPLING DATA SHEET

Well No.: URS-3D	Location: AFP59
Sampler(s): MIKE JACKSON	Project Name: AFP59 2015 GWS
Well Depth: 87.75 + 0.28 = 88.03	Project #: GS2049.04 Date: 11-2-15 Time: 1415
DTW (ft): 36.03 DTP Top (ft): 82.8	Courier: FedEx UPS Hand X TAL Pickup
MP Ht. Above/Below Ground Surface:	Sampling Method: BP
Condition of Bottom of Well: SOFT	Type of Pump: Bladder Pump
Screen Interval FTOC(ft): (65.33 - 95.33)	Weather (sun/clear, overcast/rain, wind direction, ambient temperature):
Well Diameter (in): 2-inch	clear/sunny, 60°, calm
Placement of Pump Inlet (ft): 83	

Field Parameters

Time	Depth to Water (ft)	Flow Rate (L/m)	Total Volume (L)	pH +/- 0.1	Temp. (C) +/- 0.5	Cond. (umhos/cm) +/- 10	ORP (mv)	DO (mg/L)	Turb. (NTU)	Type, Size, and Amount of Sediment Discharged
1457	36.26	0.200	1.5	6.65	12.37	1.436	113.3	2.77	overcast	Orange, mud, FOC
1502	36.29	0.200	2.5	6.62	12.35	1.437	113.7	2.71	overcast	
1507	36.34	0.200	3.5	6.68	12.22	1.444	109.3	2.65	overcast	
1512	36.36	0.200	4.5	6.72	12.24	1.441	102.5	2.64	817	
1517	36.38	0.200	5.5	6.74	12.22	1.442	99.4	2.66	635	
1522	36.41	0.100	6.0	6.77	12.31	1.442	96.7	2.64	398	
1527	36.42	0.100	6.5	6.79	12.40	1.442	95.3	2.63	356	
1532	36.45	0.100	7.0	6.84	12.51	1.443	92.1	2.75	327	
1537	36.47	0.100	7.5	6.86	12.54	1.444	91.3	2.76	286	
1542	36.47	0.100	8.0	6.87	12.57	1.443	90.7	2.72	259	
1547	36.49	0.100	8.5	6.88	12.58	1.444	88.9	2.69	225	
1552	36.50	0.100	9.0	6.89	12.57	1.444	87.4	2.69	187	
1557	36.34	0.100	9.5	6.90	12.54	1.445	84.4	2.61	148	
1602	36.32	0.100	10.0	6.90	12.53	1.445	83.5	2.65	114	
1607	36.31	0.100	10.5	6.90	12.48	1.445	83.3	2.60	144	
1649	collect samples		VOCs		1,4-Dioxane					

Observations

Color: Clear Other (describe):
Odor: None Low Medium High Very Strong H2S Fuel-like
Notes: Pump # 29949 (QED 1.75-inch pump) Post Pump DTW = 36.04 PSI 556MPS (#085101237), Hatch 2100Q (#024985 Pine) QED MP10 (Pine #030146), Solinst model 101 (#5924) (100') Everstart Marine Battery (92, 500, 75) QED 3020 Compressor (#4088, Pine) Influence likely from nearby well
Signed/Sampler(s): [Signature]

FIELD SAMPLING REPORT

LOCATION:	AFP59	PROJECT NAME:	AFP59 2015 GWS
SITE:	AFP59	PROJECT NO:	GS2049.04

SAMPLE INFORMATION

SAMPLE ID 59URS3DWG1	DATE: <u>11-2-2015</u> TIME: <u>1609</u>
MATRIX TYPE: WG	ENTER SAMPLE NUMBERS FOR QC SAMPLES/ BLANKS ASSOCIATED WITH THIS SAMPLE: MATRIX SPIKE (MS): <u> </u> MATRIX SPIKE DUP (SD): <u> </u> FIELD DUP (FD): <u> </u> AMBIENT BLANK (AB): <u> </u> EQUIPMENT BLANK (EB): <u> </u> TRIP BLANK (TB): <u>TB 110215</u>
SAMPLING METHOD: BP	
LOT CONTROL #: <u> </u>	
(Ambient Blank # - Equipment Blank # - Trip Blank # - Cooler #)	
CHAIN-OF-CUSTODY #: <u> </u>	
SAMPLE BEG. DEPTH (FT): <u> </u>	
SAMPLE END DEPTH (FT): <u> </u>	
GRAB <input checked="" type="checkbox"/> COMPOSITE ()	

CONTAINER		PRESERVATIVE/ PREPARATION	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
1L Amber	2	Cool to 4C	8270C	1,4 Dioxane
40 mL VOA	3	Cool to 4C HCl pH<2	SW8260B	VOCs

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>0.0</u>	COLOR: <u>clear cloudy</u>	
2nd	ODOR: <u>none</u>	
	OTHER: <u> </u>	
pH <u>6.90</u> Temperature <u>12.48</u> (C) Dissolved Oxygen <u>2.60</u> (mg/L) Specific Conductivity <u>1.445</u> (umhos/cm) Iron <u> </u> (mg/L) Oxidation/Reduction Potential <u>83.3</u> (mv) Turbidity <u>144</u> (NTU) <u>ms/cm</u>		

GENERAL INFORMATION

WEATHER: SUN/CLEAR ☒ OVERCAST/RAIN WIND DIRECTION calm AMBIENT TEMPERATURE 60°

SHIPMENT VIA: FEDEX HAND DELIVER COURIER (TAL) x OTHER

SHIPPED TO: Test America Laboratory Denver, CO

COMMENTS:

SAMPLER: MIKE JACKSON OBSERVER:

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BP=BLADDER PUMP	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	PP=PERISTALTIC PUMP	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	CS=COMPOSITE SAMPLE	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB/WIPE	C=CONTINUOUS FLIGHT AUGER	SS=SPLIT SPOON
		DT=DRIVEN TUBE	SP=SUBMERSIBLE PUMP

WELL INSPECTION AND GROUNDWATER LEVEL MEASUREMENT SHEET

WELL NUMBER: URS-3D

PROJECT NAME: APP59

DATE/TIME: 11/2/15

CITY/STATE: Johnson City, NY

INSPECTED BY: MDS

Water Level Indicator Serial No.: 50605T model B1
C# 59244

VENT WELL

MONITORING WELL INSTRUMENT READING (VOCs):

0.0 ppm

WELL INSPECTION/GROUNDWATER LEVEL MEASUREMENT

WELL DEPTH (FEET FROM TOP OF ~~PVC~~ ^{SS})

87.75 + 0.28 = 88.03

WATER LEVEL DEPTH (FEET FROM TOP OF ~~PVC~~ ^{SS})

36.03

~~PVC~~ ^{SS} WELL STICK-UP (FEET, ABOVE GRADE)

1.80

PROTECTIVE CASING STICK-UP (FEET, AGS)

1.94

WELL DIAMETER (INCHES)

2

WELL CONSTRUCTION (PVC, STEEL, ETC.)

STAINLESS STEEL

LOCKED UPON ARRIVAL?

☒ YES ☐ NO (OLD CUT LOCK)

LOCK REPLACED?

YES ☒ NO

OBSTRUCTIONS?

YES ☒ NO

DAMAGE TO WELL PAD/STICKUP/CASING, ETC?

YES ☒ NO (If YES, detail in comments below)

WELL RELABELED?

YES ☒ NO

WELL PHOTOGRAPHED?

☒ YES ☐ NO

GENERAL CONDITION/COMMENTS/RECOMMENDATIONS:

GROUNDWATER FIELD SAMPLING DATA SHEET

Well No.: BM-121	Location: AFP59
Sampler(s): MIKE JACKSON	Project Name: AFP59 2015 GWS
Well Depth: 56.07 + 0.28 = 56.35	Project #: GS2049.04
DTW (ft): 26.47	Date: 11-2-15 Time: 1714
DTP Top (ft): 3.18	Courier: <input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input checked="" type="checkbox"/> Hand <input checked="" type="checkbox"/> TAL Pickup
MP Ht. Above/Below Ground Surface: 3.2	Sampling Method: BP
Condition of Bottom of Well: SOFT	Type of Pump: Bladder Pump
Screen Interval FTOC(ft): (- 56.04)	Weather (sun/clear, overcast/rain, wind direction, ambient temperature):
Well Diameter (in): 6	PARTLY cloudy, calm, 58°
Placement of Pump Inlet (ft): 51	

Field Parameters

[illegible]

Observations

Color: ☒ Clear Other (describe):

Odor: ☒ None Low Medium High Very Strong H2S Fuel-like

Notes: #12026 (QED 1.75-in Sample P10), Post Pump Install DMV=26
Psi 856 MPS (#085101237), Inch 2100Q (#024785, P1)
QED MP10 (Pipe #030146), Boxwst model 101 (#59248)
~~Everstart Marine Battery~~ QED 320 compressor (#40885)
MOOD.JC

Signed/Sampler(s):



FIELD SAMPLING REPORT

LOCATION: AFP59

PROJECT NAME: AFP59 2015 GWS

SITE: AFP59

PROJECT NO: GS2049.04

SAMPLE INFORMATION

SAMPLE ID 59BM121WG1

DATE: 11-2-15 TIME: 1804

MATRIX TYPE: WG

SAMPLING METHOD: BP

LOT CONTROL #: _____

(Ambient Blank # - Equipment Blank # - Trip Blank # - Cooler #)

CHAIN-OF-CUSTODY #: _____

SAMPLE BEG. DEPTH (FT): -

SAMPLE END DEPTH (FT): -

GRAB ☒ COMPOSITE ()ENTER SAMPLE NUMBERS FOR QC SAMPLES/
BLANKS ASSOCIATED WITH THIS SAMPLE:

MATRIX SPIKE (MS): -

MATRIX SPIKE DUP (SD): -

FIELD DUP (FD): -

AMBIENT BLANK (AB): -

EQUIPMENT BLANK (EB): -

TRIP BLANK (TB): TB110215

CONTAINER		PRESERVATIVE/ PREPARATION	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
40 mL VOA	3	Cool to 4C HCl pH<2	SW8260B	VOCs
1L Amber	2	Cool to 4C	8270C	1,4 Dioxane

NOTABLE OBSERVATIONS

PID READINGS		SAMPLE CHARACTERISTICS		MISCELLANEOUS
1st	0.0	COLOR:	Clean	
2nd		ODOR:	None	
		OTHER:		
pH	7.63	Temperature	12.22(C)	Dissolved Oxygen 0.69 (mg/L)
Iron	-	Oxidation/Reduction Potential	-156.8 (mv)	Specific Conductivity 0.687 (umhos/cm)
				14.1 (NTU)
				ms/cm

GENERAL INFORMATION

WEATHER: SUN/CLEAR _____ OVERCAST/RAIN _____ WIND DIRECTION Calm AMBIENT TEMPERATURE 58°

SHIPMENT VIA: FEDEX _____ HAND DELIVER _____ COURIER (TAL) _x_ OTHER _____

SHIPPED TO: Test America Laboratory Denver, CO

COMMENTS:

SAMPLER: MIKE Jackson OBSERVER: -

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BP=BLADDER PUMP	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	PP=PERISTALTIC PUMP	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	CS=COMPOSITE SAMPLE	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB/WIPE	C=CONTINUOUS FLIGHT AUGER	SS=SPLIT SPOON
		DT=DRIVEN TUBE	SP=SUBMERSIBLE PUMP

WELL INSPECTION AND GROUNDWATER LEVEL MEASUREMENT SHEET

WELL NUMBER: BM-121

PROJECT NAME: AFP59

DATE/TIME: 11-2-15 1824

CITY/STATE: Johnson City, NY

INSPECTED BY: MDJ

Water Level Indicator Serial No.:
SOLUST Model 101
ms #59244
(#59244)

VENT WELL

MONITORING WELL INSTRUMENT READING (VOCs):

0.0 ppm

WELL INSPECTION/GROUNDWATER LEVEL MEASUREMENT

WELL DEPTH (FEET FROM TOP OF ~~PVC~~ ^{STEEL}) 56.07 + 0.28 = 56.35

WATER LEVEL DEPTH (FEET FROM TOP OF ~~PVC~~ ^{STEEL}) 26.47

~~PVC~~ ^{STEEL} WELL STICK-UP (FEET, ABOVE GRADE) 3.18

PROTECTIVE CASING STICK-UP (FEET, AGS) NO PROTECTIVE CASING

WELL DIAMETER (INCHES) 6

WELL CONSTRUCTION (PVC, STEEL, ETC.) ms # STEEL

LOCKED UPON ARRIVAL? YES NO screwed shut

LOCK REPLACED? YES NO

OBSTRUCTIONS? YES NO

DAMAGE TO WELL PAD/STICKUP/CASING, ETC? YES NO (If YES, detail in comments below)

WELL RELABELED? YES NO

WELL PHOTOGRAPHED? YES NO

GENERAL CONDITION/COMMENTS/RECOMMENDATIONS:

GROUNDWATER FIELD SAMPLING DATA SHEET

Well No.: URS-2D	Location: AFP59	
Sampler(s): MIKE JACKSON	Project Name: AFP59 2015 GWS	
Well Depth: 90.24 + 0.28 = 90.52	Project #: GS2049.04	Date: 11-3-15 Time: 0815
DTW (ft): 31.46 DTP Top (ft):	Courier: FedEx UPS Hand X TAL Pickup	
MP Ht. Above/Below Ground Surface:	Sampling Method: BP	
Condition of Bottom of Well:	Type of Pump: Bladder Pump	
Screen Interval FTOC(ft): (65 - 90)	Weather (sun/clear, overcast/rain, wind direction, ambient temperature):	
Well Diameter (in): 2 (SS)	Clear, Sunny, 55°	
Placement of Pump Inlet (ft): 83		

Field Parameters

[illegible]

Observations

Color: ~~Clear~~ Other (describe): Dark/dirty

Odor: None Low Medium High Very Strong H2S Fuel-like

Notes: Pump # 29999 (QED 1.75-inch pump), POST pump install DTW = Y&I 556 MPS (# 085101237), Hacht 2100 Q (# 024785) Pine QED MP10 (Pine # 030140), Solenoid model 101 (# 592448) (10 QED 3000 compressor (Pine # 4088), Everstart Marine Battery

Signed/Sampler(s): Allen H

FIELD SAMPLING REPORT

LOCATION: AFP59

PROJECT NAME: AFP59 2015 GWS

SITE: AFP59

PROJECT NO: GS2049.04

SAMPLE INFORMATION

SAMPLE ID 59URS2DWG1

DATE: 11-3-15 TIME: 0909

MATRIX TYPE: WG

ENTER SAMPLE NUMBERS FOR QC SAMPLES/
BLANKS ASSOCIATED WITH THIS SAMPLE:

SAMPLING METHOD: BP

MATRIX SPIKE (MS): -

LOT CONTROL #: - - - -

MATRIX SPIKE DUP (SD): -

(Ambient Blank # - Equipment Blank # - Trip Blank # - Cooler #)

FIELD DUP (FD): -

CHAIN-OF-CUSTODY #: - - - -

AMBIENT BLANK (AB): -

SAMPLE BEG. DEPTH (FT): -

EQUIPMENT BLANK (EB): -

SAMPLE END DEPTH (FT): -

TRIP BLANK (TB): T6110315

GRAB ☒ COMPOSITE ()

CONTAINER		PRESERVATIVE/ PREPARATION	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
1L Amber	2	Cool to 4C	8270C	1,4 Dioxane
40 mL VOA	3	Cool to 4C HCl pH<2	SW8260B	VOCs

NOTABLE OBSERVATIONS

PID READINGS		SAMPLE CHARACTERISTICS		MISCELLANEOUS	
1st	0.0	COLOR:	cloudy		
2nd		ODOR:	none		
		OTHER:			
pH	6.88	Temperature	12.82 (C)	Dissolved Oxygen	1.51 (mg/L)
Iron	— (mg/L)	Oxidation/Reduction Potential	-41.2 (mv)	Turbidity	82.9 (NTU)
				Specific Conductivity	1.453 (umhos/cm)
					ms/cm

GENERAL INFORMATION

WEATHER: SUN/CLEAR ☒ OVERCAST/RAIN ☐ WIND DIRECTION ☐ AMBIENT TEMPERATURE 55°

SHIPMENT VIA: FEDEX ☐ HAND DELIVER ☒ COURIER (TAL) ☒ OTHER ☐

SHIPPED TO: Test America Laboratory Denver, CO

COMMENTS:

SAMPLER: MIKE JACKSON OBSERVER: -

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BP=BLADDER PUMP	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	PP=PERISTALIC PUMP	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	CS=COMPOSITE SAMPLE	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB/WIPE	C=CONTINUOUS FLIGHT AUGER	SS=SPLIT SPOON
		DT=DRIVEN TUBE	SP=SUBMERSIBLE PUMP

WELL INSPECTION AND GROUNDWATER LEVEL MEASUREMENT SHEET

WELL NUMBER: URS-2D

PROJECT NAME: AFP59

DATE/TIME: 11-3-15

CITY/STATE: Johnson City, NY

INSPECTED BY: MDT

Water Level Indicator Serial No.: Solinst Model 101 (100')
(# 59244)

VENT WELL

MONITORING WELL INSTRUMENT READING (VOCs):

0.0 ppm

WELL INSPECTION/GROUNDWATER LEVEL MEASUREMENT

WELL DEPTH (FEET FROM TOP OF PVC) ^{SS}

90.24 + 0.28 = 90.52

WATER LEVEL DEPTH (FEET FROM TOP OF PVC) ^{SS}

31.46

PVC WELL STICK-UP (FEET, ABOVE GRADE) ^{Below}

-0.36 (FLUSH MOUNT)

PROTECTIVE CASING STICK-UP (FEET, AGS)

N/A (FLUSH MOUNT)

WELL DIAMETER (INCHES)

2

WELL CONSTRUCTION (PVC, STEEL, ETC.)

SS

LOCKED UPON ARRIVAL?

☒ YES ☐ NO ^{Bolted}

LOCK REPLACED?

YES ☒ NO

OBSTRUCTIONS?

YES ☒ NO

DAMAGE TO WELL PAD/STICKUP/CASING, ETC?

YES ☒ NO (If YES, detail in comments below)

WELL RELABELED?

YES ☒ NO

WELL PHOTOGRAPHED?

☒ YES ☐ NO

GENERAL CONDITION/COMMENTS/RECOMMENDATIONS:

^{NT}
CHRYSLER LOCK BOLT
TOP.

Normal
9/16" Bore
well Box
cover

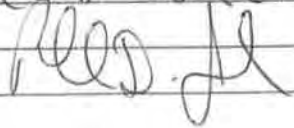
GROUNDWATER FIELD SAMPLING DATA SHEET

Well No.: URS-2S	Location: AFP59
Sampler(s): MIKE JACKSON	Project Name: AFP59 2015 GWS
Well Depth: 58.35 + 0.28 = 58.63	Project #: GS2049.04
DTW (ft): 31.61	Date: 11-3-15
DTP Top (ft): 53.25	Time: 0955
Courier: FedEx UPS Hand X TAL Pickup	
MP Ht. Above/Below Ground Surface: -0.26	Sampling Method: BP
Condition of Bottom of Well: Soft	Type of Pump: Bladder Pump
Screen Interval FTOC(ft): (35.45 - 60.45)	Weather (sun/clear, overcast/rain, wind direction, ambient temperature):
Well Diameter (in): 2 (stainless steel)	SUNNY/clear, X CALM, 56°
Placement of Pump Inlet (ft): 53.45	

Field Parameters

Time	Depth to Water (ft)	Flow Rate (L/m)	Total Volume (L)	pH	Temp. (C)	Cond. (umhos/cm)	ORP (mv)	DO (mg/L)	Turb. (NTU)	Type, Size, and Amount of Sediment Discharged
				+/-0.1	+/-0.5	ms/cm	+/-10		+/-10	
1026	31.85	0.20	0.50	6.84	12.70	1.256	52.7	2.03	158	ORANGE Floc
1031	31.85	0.20	1.50	6.73	12.85	1.261	31.6	1.20	151	
1036	31.85	0.20	2.50	6.67	12.89	1.262	26.7	1.34	180	
1041	31.85	0.20	3.50	6.62	12.92	1.262	25.3	1.30	198	
1046	31.85	0.20	4.50	6.59	12.94	1.262	25.8	0.91	187	
1051	31.85	0.20	5.50	6.56	12.96	1.263	26.0	0.90	166	
1056	31.85	0.20	6.50	6.54	12.98	1.264	27.5	0.84	150	
1101	31.85	0.20	7.50	6.52	12.99	1.266	29.0	0.82	130	
1106	31.85	0.20	8.50	6.50	13.02	1.271	30.2	0.83	110	
1111	31.85	0.20	9.50	6.49	13.44	1.282	30.2	0.86	85.3	
1116	31.85	0.20	10.50	6.49	13.05	1.295	29.0	0.89	66.5	
1121	31.85	0.20	11.50	6.50	13.07	1.306	27.8	0.91	52.0	
1126	31.85	0.20	12.50	6.51	13.10	1.320	26.2	0.92	38.9	
1131	31.85	0.20	13.50	6.50	13.13	1.330	27.1	0.94	35.2	
1136	31.85	0.20	14.50	6.53	13.22	1.338	24.2	0.93	29.2	
1138	Collect Sample			(VOC)			1,4-Dioxane			

Observations

Color: Clear	Other (describe):
Odor: None	Low Medium High Very Strong H2S Fuel-like
Notes:	<p>Pump # 12026 (QED Sample Pro 1.75-1 inch), Post pump installation = 31.62', YSIS56 MP5 (#085101237), Hach 2100 Q (#0247-85, P, me), QED MP10 (Pine # 030146), Solinst model 101 (#59244) (100'), QED 3pro compressor (Pine # 4088), Everstart Marine Battery</p>
Signed/Sampler(s):	



FIELD SAMPLING REPORT

LOCATION: AFP59

PROJECT NAME: AFP59 2015 GWS

SITE: AFP59

PROJECT NO: GS2049.04

SAMPLE INFORMATION

SAMPLE ID 59URS2SGW1

DATE: 11-3-15 TIME: 1138

MATRIX TYPE: WG

SAMPLING METHOD: BP

LOT CONTROL #: _____

(Ambient Blank # - Equipment Blank # - Trip Blank # - Cooler #)

CHAIN-OF-CUSTODY #: _____

SAMPLE BEG. DEPTH (FT): —

SAMPLE END DEPTH (FT): —

GRAB (X) COMPOSITE ()

ENTER SAMPLE NUMBERS FOR QC SAMPLES/
BLANKS ASSOCIATED WITH THIS SAMPLE:

MATRIX SPIKE (MS): —

MATRIX SPIKE DUP (SD): —

FIELD DUP (FD): —

AMBIENT BLANK (AB): —

EQUIPMENT BLANK (EB): —

TRIP BLANK (TB): TB110215

CONTAINER		PRESERVATIVE/ PREPARATION	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
1L Amber	2	Cool to 4C	8270C	1,4 Dioxane
40 mL VOA	3	Cool to 4C HCl pH<2	SW8260B	VOCs

NOTABLE OBSERVATIONS

PID READINGS		SAMPLE CHARACTERISTICS		MISCELLANEOUS			
1st	0.0	COLOR:	clear				
2nd		ODOR:	none				
		OTHER:					
pH	6.53	Temperature	13.22 (C)	Dissolved Oxygen	0.93 (mg/L)	Specific Conductivity	1.338 (umhos/cm)
Iron	—	(mg/L)	Oxidation/Reduction Potential	24.2 (mv)	Turbidity	29.2 (NTU)	ms/cm

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN _____ WIND DIRECTION CALM AMBIENT TEMPERATURE 56°

SHIPMENT VIA: FEDEX _____ HAND DELIVER _____ COURIER (TAL) _x_ OTHER _____

SHIPPED TO: Test America Laboratory Denver, CO

COMMENTS:

SAMPLER: MIKE JACKSON

OBSERVER: —

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BP=BLADDER PUMP	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	PP=PERISTALIC PUMP	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	CS=COMPOSITE SAMPLE	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB/WIPE	C=CONTINUOUS FLIGHT AUGER	SS=SPLIT SPOON
		DT=DRIVEN TUBE	SP=SUBMERSIBLE PUMP

WELL INSPECTION AND GROUNDWATER LEVEL MEASUREMENT SHEET

WELL NUMBER: URS-2S

PROJECT NAME: AFP59

DATE/TIME: 11-3-15

CITY/STATE: Johnson City, NY

INSPECTED BY: MDJ

Water Level Indicator Serial No: SOLONST Model 101 (100')
(# 59244)

VENT WELL

MONITORING WELL INSTRUMENT READING (VOCs):

0.0 ppm

WELL INSPECTION/GROUNDWATER LEVEL MEASUREMENT

WELL DEPTH (FEET FROM TOP OF PVC) 55

58.35 + 0.28 = 58.63

WATER LEVEL DEPTH (FEET FROM TOP OF PVC) 31.61

PVC WELL STICK-UP (FEET, ABOVE GRADE) -0.26 (FLUSH MOUNT)

-0.26 (FLUSH MOUNT)

PROTECTIVE CASING STICK-UP (FEET, AGS) N/A (FLUSH MOUNT)

N/A (FLUSH MOUNT)

WELL DIAMETER (INCHES) 2

2

WELL CONSTRUCTION (PVC, STEEL, ETC.) STAINLESS STEEL

STAINLESS STEEL

LOCKED UPON ARRIVAL?

YES ☒ NO BOLTED SHUT

LOCK REPLACED?

YES ☒ NO

OBSTRUCTIONS?

YES ☒ NO

DAMAGE TO WELL PAD/STICKUP/CASING, ETC?

YES ☒ NO (If YES, detail in comments below)

WELL RELABELED?

YES ☒ NO

WELL PHOTOGRAPHED?

☒ YES ☐ NO

GENERAL CONDITION/COMMENTS/RECOMMENDATIONS:

MS+MSD

GROUNDWATER FIELD SAMPLING DATA SHEET

Well No.: URS-5S	Location: AFP59
Sampler(s): MIKE JACKSON	Project Name: AFP59 2015 GWS
Well Depth: 66.04 + 0.28 = 66.32	Project #: GS2049.04
DTW (ft): 22.97	Date: 11-3-15
DTP Top (ft): 58.80	Time: 1320
MP Ht. Above/Below Ground Surface: 1.04	Courier: <input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input checked="" type="checkbox"/> Hand <input type="checkbox"/> TAL Pickup
Condition of Bottom of Well:	Sampling Method: BP
Screen Interval FTOC(ft): (-)	Type of Pump: Bladder Pump
Well Diameter (in): 2 (stainless steel)	Weather (sun/clear, overcast/rain, wind direction, ambient temperature): Sunny/Clear, slight wind, 60°
Placement of Pump Inlet (ft): 59'	

Field Parameters

Time	Depth to Water (ft)	Flow Rate (L/m)	Total Volume (L)	pH	Temp. (C)	Cond. (umhos/cm)	ORP (mv)	DO (mg/L)	Turb. (NTU)	Type, Size, and Amount of Sediment Discharged
				4-0.1	+/-0.5	ms/cm	+/-10		+/-10	
1354	22.97	0.260	0.580	7.21	13.25	1.365	67.7	2.12	133	
1359	22.97	0.260	1.500	7.22	13.13	1.437	62.2	1.44	89.5	
1404	22.97	0.260	2.500	6.95	13.04	1.447	60.3	1.18	55.6	
1409	22.97	0.260	3.500	6.91	12.89	1.451	60.5	1.09	41.2	
1414	22.97	0.260	4.500	6.94	12.85	1.453	61.6	1.14	36.7	
1419	22.97	0.260	5.500	6.89	12.84	1.454	61.8	1.10	29.0	
1424	22.97	0.260	6.500	6.80	12.87	1.453	62.3	1.07	23.9	
1429	22.97	0.260	7.500	6.89	12.82	1.453	62.8	1.01	17.3	
1434	22.97	0.260	8.500	6.80	12.81	1.453	63.1	1.02	16.2	
1436	Collect samples (VOCs & 1,4-Dioxane) (MS+MSD)									

Observations

Color: <input checked="" type="radio"/> Clear	Other (describe):
Odor: <input checked="" type="radio"/> None	Low Medium High Very Strong H2S Fuel-like
Notes:	<p>Pump # 12026 (QED sample pro 1.75-inch), Post Pump ID # 1</p> <p>DTW = 22.97, YSF 556 MPS (# 085 085101237), Hinch 2100 Q (#24785, Pire),</p> <p>QED MP10 (Pire # 030146), Solenoid model 100 (100') (#59244),</p> <p>QED 3020 Compressor (Pire # 4088),</p>
Signed/Sampler(s):	ALD.JL



FIELD SAMPLING REPORT

LOCATION: AFP59
SITE: AFP59

PROJECT NAME: AFP59 2015 GWS
PROJECT NO: GS2049.04

SAMPLE INFORMATION

SAMPLE ID 59URS5SWG1
MATRIX TYPE: WG
SAMPLING METHOD: BP
LOT CONTROL #: _____
(Ambient Blank # - Equipment Blank # - Trip Blank # - Cooler #)
CHAIN-OF-CUSTODY #: _____
SAMPLE BEG. DEPTH (FT): -
SAMPLE END DEPTH (FT): -
GRAB ~~X~~ COMPOSITE ()

DATE: 11-3-15 TIME: 1436
ENTER SAMPLE NUMBERS FOR QC SAMPLES/
BLANKS ASSOCIATED H THIS SAMPLE:
MATRIX SPIKE (MS): 59URS5SWG1-MS
MATRIX SPIKE DUP (SD): 59URS5SWG1-MSD
FIELD DUP (FD): -
AMBIENT BLANK (AB): -
EQUIPMENT BLANK (EB): -
TRIP BLANK (TB): TB110215

CONTAINER		PRESERVATIVE/ PREPARATION	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
40 mL VOA	3	Cool to 4C HCl pH-2	SW8260B	VOCs 8260B
1L Amber	2	Cool to 4C	8270C	1,4 Dioxane

NOTABLE OBSERVATIONS

PID READINGS		SAMPLE CHARACTERISTICS		MISCELLANEOUS			
1st	φ.φ	COLOR:	clear				
2nd		ODOR:	NONE				
		OTHER:					
pH	6.9φ	Temperature	12.81 (C)	Dissolved Oxygen	1.φ2 (mg/L)	Specific Conductivity	1.453 (umhos/cm)
Iron	— (mg/L)	Oxidation/Reduction Potential	63.1 (mv)	Turbidity	16.2 (NTU)		mS/cm

GENERAL INFORMATION

WEATHER: SUN/CLEAR ☒ OVERCAST/RAIN _____ WIND DIRECTION slight wind AMBIENT TEMPERATURE 60°

SHIPMENT VIA: FEDEX _____ HAND DELIVER _____ COURIER (TAL) ☒ OTHER _____

SHIPPED TO: Test America Laboratory Denver, CO

COMMENTS:

SAMPLER: MIKE JACKSON OBSERVER: -

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BP=BLADDER PUMP	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	PP=PERISTALIC PUMP	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	CS=COMPOSITE SAMPLE	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB/WIPE	C=CONTINUOUS FLIGHT AUGER	SS=SPLIT SPOON
		DT=DRIVEN TUBE	SP=SUBMERSIBLE PUMP

WELL INSPECTION AND GROUNDWATER LEVEL MEASUREMENT SHEET

WELL NUMBER: URS-5S

PROJECT NAME: AFP59

DATE/TIME: 11-3-15

CITY/STATE: Johnson City, NY

INSPECTED BY: MDT

Water Level Indicator Serial No.: SOLONST model 100 (100')
(#59244)

VENT WELL

MONITORING WELL INSTRUMENT READING (VOCs):

0.0 ppm

WELL INSPECTION/GROUNDWATER LEVEL MEASUREMENT

WELL DEPTH (FEET FROM TOP OF PVC) ^{SS}

66.04 + 0.28 = 66.32

WATER LEVEL DEPTH (FEET FROM TOP OF PVC) ^{SS}

22.97

PVC WELL STICK-UP (FEET, ABOVE GRADE) ^{SS} Below

-1.04

(Flush Mount)

PROTECTIVE CASING STICK-UP (FEET, AGS)

N/A (Flush Mount)

WELL DIAMETER (INCHES)

2

WELL CONSTRUCTION (PVC/STEEL, ETC.)

Stainless Steel

LOCKED UPON ARRIVAL?

☒ YES

☒ NO ^{MDT 11/3/15}

LOCK REPLACED?

☒ YES

☒ NO

OBSTRUCTIONS?

☒ YES

☒ NO

DAMAGE TO WELL PAD/STICKUP/CASING, ETC?

☒ YES

☒ NO (If YES, detail in comments below)

WELL RELABELED?

☒ YES

☒ NO

WELL PHOTOGRAPHED?

☒ YES

☐ NO

GENERAL CONDITION/COMMENTS/RECOMMENDATIONS:

Well No.: SW-1	Location: AFP59	
Sampler(s): MIKE JACKSON	Project Name: AFP59 2015 GWS	
Well Depth: 28.35 + 0.28 = 28.63	Project #: GS2049.04	Date: 11-3-15 Time: 1634
DTW (ft): 17.85 DTP Top (ft):	Courier: <input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> Hand <input checked="" type="checkbox"/> X_TAL Pickup	
MP Ht. Above/Below Ground Surface: 2.46	Sampling Method: BP	
Condition of Bottom of Well: Firm	Type of Pump: Bladder Pump	
Screen Interval FTOC(ft): (15.74 - 25.74)	Weather (sun/clear, overcast/rain, wind direction, ambient temperature):	
Well Diameter (in): 2	clear, slight wind, 58°	
Placement of Pump Inlet (ft): 23.5		

Field Parameters

[illegible]

Observations

Color: Clear Other (describe):
 Odor: None Low Medium High Very Strong H₂S Fuel-like
 Notes: Pump # 29999 (QED 1.75-inch Sande Pro), RTW Post Pump?
In small = 17.85, YSI 556 MPS (#055101237) Hach # 2160 Q
QED MP10 (Pine #030146), Solinst model 101 (100) (#59244),
QED 3000 compressor (Pine #4088)
 Signed/Sampler(s): 1009.11

FIELD SAMPLING REPORT

LOCATION: AFP59
SITE: AFP59

PROJECT NAME: AFP59 2015 GWS
PROJECT NO: GS2049.04

SAMPLE INFORMATION

SAMPLE ID 59SW1WG1

DATE: 11-3-15 TIME: 1736

MATRIX TYPE: WG

SAMPLING METHOD: BP

LOT CONTROL #: _____

(Ambient Blank # - Equipment Blank # - Trip Blank # - Cooler #)

CHAIN-OF-CUSTODY #: _____

SAMPLE BEG. DEPTH (FT): —

SAMPLE END DEPTH (FT): —

GRAB ☒ COMPOSITE ()

ENTER SAMPLE NUMBERS FOR QC SAMPLES/
BLANKS ASSOCIATED WITH THIS SAMPLE:

MATRIX SPIKE (MS): —

MATRIX SPIKE DUP (SD): —

FIELD DUP (FD): —

AMBIENT BLANK (AB): —

EQUIPMENT BLANK (EB): —

TRIP BLANK (TB): TB110215

CONTAINER		PRESERVATIVE/ PREPARATION	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
1L Amber	2	Cool to 4C	8270C	1,4 Dioxane
40 mL VOA	3	Cool to 4C HCl pH<2	SW8260B	VOCs

NOTABLE OBSERVATIONS

PID READINGS		SAMPLE CHARACTERISTICS		MISCELLANEOUS			
1st	$\phi . \phi$	COLOR:	clear				
2nd		ODOR:	None				
		OTHER:					
pH	6.68	Temperature	13.74 (C)	Dissolved Oxygen	$\phi . 8 \phi$ (mg/L)	Specific Conductivity	1.981 (amhos/cm)
Iron	— (mg/L)	Oxidation/Reduction Potential	100.0 (mv)	Turbidity	1.48 (NTU)		ms/cm

GENERAL INFORMATION

WEATHER: SUN/CLEAR ☒ OVERCAST/RAIN _____ WIND DIRECTION slight wind AMBIENT TEMPERATURE 58°

SHIPMENT VIA: FEDEX _____ HAND DELIVER _____ COURIER (TAL) ☒ OTHER _____

SHIPPED TO: Test America Laboratory Denver, CO

COMMENTS:

SAMPLER: MIKE JACKSON OBSERVER: —

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BP=BLADDER PUMP	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	PP=PERISTALTIC PUMP	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	CS=COMPOSITE SAMPLE	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB/WIPE	C=CONTINUOUS FLIGHT AUGER	SS=SPLIT SPOON
		DT=DRIVEN TUBE	SP=SUBMERSIBLE PUMP

WELL INSPECTION AND GROUNDWATER LEVEL MEASUREMENT SHEET

WELL NUMBER: SW-1

PROJECT NAME: AFP59

DATE/TIME: 11-3-15

CITY/STATE: Johnson City, NY

INSPECTED BY: MDS

Water Level Indicator Serial No.: 50 (JUST model 101 (100'))
(# 59244)

VENT WELL

MONITORING WELL INSTRUMENT READING (VOCs):

0.0 ppm

WELL INSPECTION/GROUNDWATER LEVEL MEASUREMENT

WELL DEPTH (FEET FROM TOP OF PVC)

$28.35 + 0.28 = 28.63$

WATER LEVEL DEPTH (FEET FROM TOP OF PVC)

17.85

PVC WELL STICK-UP (FEET, ABOVE GRADE)

2.40

PROTECTIVE CASING STICK-UP (FEET, AGS)

2.25 ABOVE CEMENT PAD (2.50 ABOVE GROUND SURFACE)

WELL DIAMETER (INCHES)

2

WELL CONSTRUCTION (PVC, STEEL, ETC.)

PVC

LOCKED UPON ARRIVAL?

YES NO OUTLOCK (FAKOR TO HGT)
LOCK W/ EXPANDABLE CAP GOOD

LOCK REPLACED?

YES NO

OBSTRUCTIONS?

YES NO

DAMAGE TO WELL PAD/STICKUP/CASING, ETC?

YES NO (If YES, detail in comments below)

WELL RELABELED?

YES NO

WELL PHOTOGRAPHED?

YES NO

GENERAL CONDITION/COMMENTS/RECOMMENDATIONS:

Well No.: DW-1	Location: AFP59	
Sampler(s): MIKE JACKSON	Project Name: AFP59 2015 GWS	
Well Depth: 62.43 + 0.28 = 62.71	Project #: GS2049.04	Date: 11-4-15 Time: 0805
DTW (ft): 17.86	DTP Top (ft):	
MP Ht. Above/Below Ground Surface: 2.65	Courier: ___ FedEx ___ UPS ___ Hand <u>X</u> TAL Pickup	
Condition of Bottom of Well: Firm	Sampling Method: BP	
Screen Interval FTOC(ft): (52 - 62)	Type of Pump: Bladder Pump	
Well Diameter (in): 6.4	Weather (sun/clear, overcast/rain, wind direction, ambient temperature): Sunny/clear, calm, 47°	
Placement of Pump Inlet (ft): 54		

Field Parameters

[illegible]

Observations

Color: Clear Other (describe): _____

Odor: None Low Medium High Very Strong H2S Fuel-like

Notes: Pump #12026 (QED sample no 1.75-inch), Post pump in small
YS556 MP5 (#085101237), Hndt 2100 Q (#24785), Pine,
QED MP10. (Pine #030146), Solonst model 101 (#59244) (10
QED 3020 compressor (Pine #4088).

Signed/Sampler(s): Reed, R

FIELD SAMPLING REPORT

LOCATION: AFP59

PROJECT NAME: AFP59 2015 GWS

SITE: AFP59

PROJECT NO: GS2049.04

SAMPLE INFORMATION

SAMPLE ID 59DW1WG1

DATE: 11-4-15 TIME: 0915

MATRIX TYPE: WG

ENTER SAMPLE NUMBERS FOR QC SAMPLES/
BLANKS ASSOCIATED WITH THIS SAMPLE:

SAMPLING METHOD: BP

MATRIX SPIKE (MS):

LOT CONTROL #: _____

MATRIX SPIKE DUP (SD):

(Ambient Blank # - Equipment Blank # - Trip Blank # - Cooler #)

FIELD DUP (FD):

CHAIN-OF-CUSTODY #: _____

AMBIENT BLANK (AB):

SAMPLE BEG. DEPTH (FT):

EQUIPMENT BLANK (EB):

SAMPLE END DEPTH (FT):

TRIP BLANK (TB): TB110215

GRAB ☒ COMPOSITE ()

CONTAINER		PRESERVATIVE/ PREPARATION	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
1L Amber	2	Cool to 4C	8270C	1,4 Dioxane
40 mL VOA	3	Cool to 4C HCl pH<2	SW8260B	VOCs

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS		MISCELLANEOUS
1st 0.0	COLOR: clean		
2nd	ODOR: none		
	OTHER:		
pH 6.82	Temperature 12.8°C	Dissolved Oxygen 2.77 (mg/L)	Specific Conductivity 1,906 (umhos/cm)
Iron — (mg/L)	Oxidation/Reduction Potential 170.0 (mv)	Turbidity 1.69 (NTU)	ms/cm

GENERAL INFORMATION

WEATHER: SUN/CLEAR ☒ OVERCAST/RAIN _____ WIND DIRECTION CALM AMBIENT TEMPERATURE 47°

SHIPMENT VIA: FEDEX _____ HAND DELIVER _____ COURIER (TAL) ☒ OTHER _____

SHIPPED TO: Test America Laboratory Denver, CO

COMMENTS:

SAMPLER: MIKE JACKSON OBSERVER: —

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BP=BLADDER PUMP	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	PP=PERISTALTIC PUMP	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	CS=COMPOSITE SAMPLE	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB/WIPE	C=CONTINUOUS FLIGHT AUGER	SS=SPLIT SPOON
		DT=DRIVEN TUBE	SP=SUBMERSIBLE PUMP

WELL INSPECTION AND GROUNDWATER LEVEL MEASUREMENT SHEET

WELL NUMBER: DW-1

PROJECT NAME: AFP59

DATE/TIME: 11-4-15

CITY/STATE: Johnson City, NY

INSPECTED BY: MDT

Water Level Indicator Serial No.: Solinst model 101 (100')
(# 59244)

VENT WELL

MONITORING WELL INSTRUMENT READING (VOCs): φ.φ ppm

WELL INSPECTION/GROUNDWATER LEVEL MEASUREMENT

WELL DEPTH (FEET FROM TOP OF PVC)

62.43 + 0.28 = 62.71

WATER LEVEL DEPTH (FEET FROM TOP OF PVC)

17.86

PVC WELL STICK-UP (FEET, ABOVE GRADE)

2.65

PROTECTIVE CASING STICK-UP (FEET, AGS)

2.85

WELL DIAMETER (INCHES)

4

WELL CONSTRUCTION (PVC, STEEL, ETC.)

4" 11-4-15 PVC

LOCKED UPON ARRIVAL?

☒ YES

NO

LOCK REPLACED?

YES

☒ NO

OBSTRUCTIONS?

YES

☒ NO

DAMAGE TO WELL PAD/STICKUP/CASING, ETC?

YES

☒ NO

(If YES, detail in comments below)

WELL RELABELED?

YES

☒ NO

WELL PHOTOGRAPHED?

☒ YES

NO

GENERAL CONDITION/COMMENTS/RECOMMENDATIONS:

EXPANDABLE
CAP

Well No.: SW-3	Location: AFP59	
Sampler(s): MIKE JACKSON	Project Name: AFP59 2015 GWS	
Well Depth: 29.64 + 28 = 29.92	Project #: GS2049.04	Date: 11-4-15 Time: 1400
DTW (ft): 18.79 DTP Top (ft): 29.72	Courier: FedEx UPS Hand X TAL Pickup	
MP Ht. Above/Below Ground Surface: 0.65	Sampling Method: BP	
Condition of Bottom of Well: FIAM	Type of Pump: Bladder Pump	
Screen Interval FTOC(ft): (17.68 - 28.68)	Weather (sun/clear, overcast/rain, wind direction, ambient temperature):	
Well Diameter (in): 2	sunny/clear, calm, 59°	
Placement of Pump Inlet (ft): 24.5		

Field Parameters

[illegible]

Observations

Color: ☒ Clear Other (describe):

Odor: ☒ None Low Medium High Very Strong H2S Fuel-like

Notes: Pump # 29999 (QED 1.75-inch Sample Pro),
Post pump Ins. small DTM = 18.8φ, YSI 556 MP5 (#085101237),
Hach 2100Q (#24485), QED MP10 (Pine #030146),
Solinst model 101 (100) (#59244), QED 3020 compressor (Pine #4088),
16.00011

Signed/Sampler(s):

FIELD SAMPLING REPORT

LOCATION: AFP59
SITE: AFP59

PROJECT NAME: AFP59 2015 GWS
PROJECT NO: GS2049.04

SAMPLE INFORMATION

SAMPLE ID 59SW3WG1

DATE: 11-4-15 TIME: 1110

MATRIX TYPE: WG

SAMPLING METHOD: BP

LOT CONTROL #: _____

(Ambient Blank # - Equipment Blank # - Trip Blank # - Cooler #)

CHAIN-OF-CUSTODY #: _____

SAMPLE BEG. DEPTH (FT): -

SAMPLE END DEPTH (FT): -

GRAB (X) COMPOSITE ()

ENTER SAMPLE NUMBERS FOR QC SAMPLES/
BLANKS ASSOCIATED WITH THIS SAMPLE:

MATRIX SPIKE (MS): -

MATRIX SPIKE DUP (SD): -

FIELD DUP (FD): -

AMBIENT BLANK (AB): -

EQUIPMENT BLANK (EB): -

TRIP BLANK (TB): TB110215

CONTAINER		PRESERVATIVE/ PREPARATION	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
1L Amber	2	Cool to 4C	8270C	1,4 Dioxane
40 mL VOA	3	Cool to 4C HCl pH<2	SW8260B	VOCs

NOTABLE OBSERVATIONS

PID READINGS		SAMPLE CHARACTERISTICS		MISCELLANEOUS			
1st	0.0	COLOR:	CLEAR				
2nd		ODOR:	NONE				
		OTHER:					
pH	6.78	Temperature	15.92(C)	Dissolved Oxygen	2.66(mg/L)	Specific Conductivity	1.431 (umhos/cm)
Iron	— (mg/L)	Oxidation/Reduction Potential	128.3 (mv)	Turbidity	0.17 (NTU)		ms/cm

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN _____ WIND DIRECTION CALM AMBIENT TEMPERATURE 59°

SHIPMENT VIA: FEDEX _____ HAND DELIVER _____ COURIER (TAL) x OTHER _____

SHIPPED TO: Test America Laboratory Denver, CO

COMMENTS:

SAMPLER: MIKE JACKSON OBSERVER: _____

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BP=BLADDER PUMP	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	PP=PERISTALIC PUMP	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	CS=COMPOSITE SAMPLE	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB/WIPE	C=CONTINUOUS FLIGHT AUGER	SS=SPLIT SPOON
		DT=DRIVEN TUBE	SP=SUBMERSIBLE PUMP

WELL INSPECTION AND GROUNDWATER LEVEL MEASUREMENT SHEET

WELL NUMBER: SW-3

PROJECT NAME: AFP59

DATE/TIME: 11-4-15

CITY/STATE: Johnson City, NY

INSPECTED BY: MDS

Water Level Indicator Serial No.: SOLONST model 101 (100')
(# 59244)

VENT WELL

MONITORING WELL INSTRUMENT READING (VOCs):

0.0 ppm

WELL INSPECTION/GROUNDWATER LEVEL MEASUREMENT

WELL DEPTH (FEET FROM TOP OF PVC)

29.64 + 0.28 = 29.92

WATER LEVEL DEPTH (FEET FROM TOP OF PVC)

18.79

PVC WELL STICK-UP (FEET, ABOVE GRADE)

0.65

PROTECTIVE CASING STICK-UP (FEET, AGS)

1.13 concrete (0.93 ft AGS)

WELL DIAMETER (INCHES)

2

WELL CONSTRUCTION (PVC, STEEL, ETC.)

PVC

LOCKED UPON ARRIVAL?

☒ YES

NO

LOCK REPLACED?

YES

☒ NO

OBSTRUCTIONS?

YES

☒ NO

DAMAGE TO WELL PAD/STICKUP/CASING, ETC?

YES

☒ NO

(If YES, detail in comments below)

WELL RELABELED?

YES

☒ NO

WELL PHOTOGRAPHED?

☒ YES

NO

GENERAL CONDITION/COMMENTS/RECOMMENDATIONS:

← expandable cap lock

DuPon
GP (1,4-Proxane
only)

Field Parameters

1314
$$\cdot \text{DuplTime} = 1204$$

Color: Clear Other (describe): Dup2 Time = 1204

Odor: None Low Medium High Very Strong H2S Fuel-like

Notes: Pump # 29999 (QED sample Pro 1.75-inch pump),
Post Pump Install DTW = 16.02, QED 3020 compressor (line # 4)
YSI 556 MPS (#085101237), HACH 2100 G (#24785)
QED MP10 (line # 030146), Solinst model 101 (100') (#592)

Signed/Sampler(s): REL D. 12



FIELD SAMPLING REPORT

LOCATION: AFP59

PROJECT NAME: AFP59 2015 GWS

SITE: AFP59

PROJECT NO: GS2049.04

SAMPLE INFORMATION

SAMPLE ID 59DW3WG1

DATE: 11-4-15 TIME: 1346

MATRIX TYPE: WG

SAMPLING METHOD: BP

LOT CONTROL #: _____

(Ambient Blank # - Equipment Blank # - Trip Blank # - Cooler #)

CHAIN-OF-CUSTODY #: _____

SAMPLE BEG. DEPTH (FT): —

SAMPLE END DEPTH (FT): —

GRAB ☒ COMPOSITE ()ENTER SAMPLE NUMBERS FOR QC SAMPLES/
BLANKS ASSOCIATED WITH THIS SAMPLE:

MATRIX SPIKE (MS): —

MATRIX SPIKE DUP (SD): —

FIELD DUP (FD): 59DUP02 WG1 (1,4-Dioxane only)

AMBIENT BLANK (AB): —

EQUIPMENT BLANK (EB): —

TRIP BLANK (TB): TB110415

CONTAINER		PRESERVATIVE/ PREPARATION	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
40 mL VOA	3	Cool to 4C HCl pH<2	SW8260B	VOCs
1L Amber	2	Cool to 4C	8270C	1,4 Dioxane

NOTABLE OBSERVATIONS

PID READINGS		SAMPLE CHARACTERISTICS		MISCELLANEOUS			
1st	$\phi.\phi$	COLOR:	clean				
2nd		ODOR:	NONE				
		OTHER:					
pH	6.83	Temperature	14.37C	Dissolved Oxygen	0.58 (mg/L)	Specific Conductivity	1.514 (umhos/cm)
Iron	—	(mg/L)	Oxidation/Reduction Potential	-18.7 (mv)	Turbidity	7.78 (NTU)	ms/cm

GENERAL INFORMATION

WEATHER: SUN/CLEAR ☒ OVERCAST/RAIN _____ WIND DIRECTION WIND AMBIENT TEMPERATURE 73°SHIPMENT VIA: FEDEX _____ HAND DELIVER _____ COURIER (TAL) ☒ OTHER _____

SHIPPED TO: Test America Laboratory Denver, CO

COMMENTS:

SAMPLER: MIKE JACKSON OBSERVER: —

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BP=BLADDER PUMP	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	PP=PERISTALTIC PUMP	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	CS=COMPOSITE SAMPLE	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB/WIPE	C=CONTINUOUS FLIGHT AUGER	SS=SPLIT SPOON
		DT=DRIVEN TUBE	SP=SUBMERSIBLE PUMP

WELL INSPECTION AND GROUNDWATER LEVEL MEASUREMENT SHEET

WELL NUMBER: DW-3

PROJECT NAME: AFP59

DATE/TIME: 11-4-15

CITY/STATE: Johnson City, NY

INSPECTED BY: MDT

Water Level Indicator Serial No. Solinst model 101 (100')
(# 59244)

VENT WELL

MONITORING WELL INSTRUMENT READING (VOCs):

0.0 ppm

WELL INSPECTION/GROUNDWATER LEVEL MEASUREMENT

WELL DEPTH (FEET FROM TOP OF PVC)

85.01 + 0.28 = 85.29

WATER LEVEL DEPTH (FEET FROM TOP OF PVC)

16.02

PVC WELL STICK-UP (FEET, ABOVE GRADE)

0.40 (FLUSH MOUNT)

PROTECTIVE CASING STICK-UP (FEET, AGS)

N/A (FLUSH MOUNT)

WELL DIAMETER (INCHES)

4

WELL CONSTRUCTION (PVC, STEEL, ETC.)

PVC

LOCKED UPON ARRIVAL?

YES NO

LOCK REPLACED?

YES NO

OBSTRUCTIONS?

YES NO

DAMAGE TO WELL PAD/STICKUP/CASING, ETC?

YES NO (If YES, detail in comments below)

WELL RELABELED?

YES NO

WELL PHOTOGRAPHED?

YES NO

GENERAL CONDITION/COMMENTS/RECOMMENDATIONS:

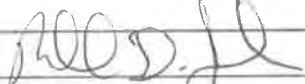
GROUNDWATER FIELD SAMPLING DATA SHEET

Well No.: SW-7	Location: AFP59	
Sampler(s): MIKE JACKSON	Project Name: AFP59 2015 GWS	
Well Depth: 28.71 + 0.26 = 28.97	Project #: GS2049.04	Date: 11-4-15 Time: 1500
DTW (ft): 19.35 DTP Top (ft): 19.15	Courier: <input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> Hand <input checked="" type="checkbox"/> X_TAL Pickup	
MP Ht. Above/Below Ground Surface: 2.85	Sampling Method : BP	
Condition of Bottom of Well: FIRM	Type of Pump: Bladder Pump	
Screen Interval FTOC(ft): (- 28.85)	Weather (sun/clear, overcast/rain, wind direction, ambient temperature):	
Well Diameter (in): 2	clear/sunny, slight wind, 76°	
Placement of Pump Inlet (ft): 24.5		

Field Parameters

[illegible]

Observations

Color:	Clear	Other (describe):
Odor:	None	Low Medium High Very Strong H2S Fuel-like
Notes:	Pump # 12026 (QED Sample Pro 1.75-inch) Post Pump install DTH = 19.35 ft, PSI 556 MP (# 085101237), Hinch 2100 Q (# 24785), Splonst model (101 (100')) (# 59244), QED MP10 (Pine # 030146), QED 3020 compressor (Pine # 4088)	
Signed/Sampler(s):		



FIELD SAMPLING REPORT

LOCATION: AFP59

PROJECT NAME: AFP59 2015 GWS

SITE: AFP59

PROJECT NO: GS2049.04

SAMPLE INFORMATION

SAMPLE ID 59SW7WG1

DATE: 11-4-15 TIME: 1602

MATRIX TYPE: WG

ENTER SAMPLE NUMBERS FOR QC SAMPLES/
BLANKS ASSOCIATED WITH THIS SAMPLE:

SAMPLING METHOD: BP

LOT CONTROL #: _____

MATRIX SPIKE (MS): _____

(Ambient Blank # - Equipment Blank # - Trip Blank # - Cooler #)

MATRIX SPIKE DUP (SD): _____

CHAIN-OF-CUSTODY #: _____

FIELD DUP (FD): _____

SAMPLE BEG. DEPTH (FT): _____

AMBIENT BLANK (AB): _____

SAMPLE END DEPTH (FT): _____

EQUIPMENT BLANK (EB): _____

GRAB ☒ COMPOSITE ()

TRIP BLANK (TB): TB110415

CONTAINER		PRESERVATIVE/ PREPARATION	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
40 mL VOA	3	Cool to 4C HCl pH<2	SW8260B	VOCs
1L Amber	2	Cool to 4C	8270C	1,4 Dioxane

NOTABLE OBSERVATIONS

PID READINGS		SAMPLE CHARACTERISTICS		MISCELLANEOUS			
1st	φ.φ	COLOR:	clean				
2nd		ODOR:	NONE				
		OTHER:					
pH	6.9φ	Temperature	14.φ9 (C)	Dissolved Oxygen	0.41 (mg/L)	Specific Conductivity	1.4φ3 (umhos/cm)
Iron	— (mg/L)	Oxidation/Reduction Potential	59.7 (mv)	Turbidity	7.88 (NTU)		ms/cm

GENERAL INFORMATION

WEATHER: SUN/CLEAR ☒ OVERCAST/RAIN _____ WIND DIRECTION slight wind AMBIENT TEMPERATURE 76°SHIPMENT VIA: FEDEX _____ HAND DELIVER _____ COURIER (TAL) ☒ OTHER _____

SHIPPED TO: Test America Laboratory Denver, CO

COMMENTS:

SAMPLER: MIKE JACKSON OBSERVER: _____

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BP=BLADDER PUMP	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	PP=PERISTALTIC PUMP	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	CS=COMPOSITE SAMPLE	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB/WIPE	C=CONTINUOUS FLIGHT AUGER	SS=SPLIT SPOON
		DT=DRIVEN TUBE	SP=SUBMERSIBLE PUMP

WELL INSPECTION AND GROUNDWATER LEVEL MEASUREMENT SHEET

WELL NUMBER: SW-7

PROJECT NAME: AFP59

DATE/TIME: 11-4-15

CITY/STATE: Johnson City, NY

INSPECTED BY: MDJ

Water Level Indicator Serial No.: SOLONST Model 101 (100')
(# 59244)

VENT WELL

MONITORING WELL INSTRUMENT READING (VOCs):

0.0 ppm

WELL INSPECTION/GROUNDWATER LEVEL MEASUREMENT

WELL DEPTH (FEET FROM TOP OF PVC)

27.71 + 0.28 = 27.99
19.35

WATER LEVEL DEPTH (FEET FROM TOP OF PVC)

PVC WELL STICK-UP (FEET, ABOVE GRADE)

2 3.15 - 0.3 = 2.85 GRADE

PROTECTIVE CASING STICK-UP (FEET, AGS)

2.95 from concrete pad (3.15 GRADE)

WELL DIAMETER (INCHES)

2

WELL CONSTRUCTION (PVC, STEEL, ETC.)

PVC

LOCKED UPON ARRIVAL?

☒ YES

NO

LOCK REPLACED?

YES

☒ NO

OBSTRUCTIONS?

YES

☒ NO

DAMAGE TO WELL PAD/STICKUP/CASING, ETC?

YES

☒ NO

(If YES, detail in comments below)

WELL RELABELED?

YES

☒ NO

WELL PHOTOGRAPHED?

☒ YES

NO

GENERAL CONDITION/COMMENTS/RECOMMENDATIONS:

← Lock w/ expandable cap

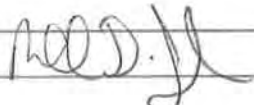
GROUNDWATER FIELD SAMPLING DATA SHEET

Well No.: JC 2	Location: AFP59	
Sampler(s): MIKE JACKSON	Project Name: AFP59 2015 GWS	
Well Depth: —	Project #: GS2049.04	Date: 11-5-15 Time: 0830
DTW (ft): — DTP Top (ft): —	Courier: ___ FedEx ___ UPS ___ Hand _X_ TAL Pickup	
MP Ht. Above/Below Ground Surface: -	Sampling Method : Grab (sample valve)	
Condition of Bottom of Well:	Type of Pump: N/A	
Screen Interval FTOC(ft): -	Weather (sun/clear, overcast/rain, wind direction, ambient temperature): overcast, calm, 55°	
Well Diameter (in): -		
Placement of Pump Inlet (ft):		

Field Parameters

Time	Depth to Water (ft)	Flow Rate (L/m)	Total Volume (L)	pH	Temp. (C)	Cond. ($\mu\text{mhos/cm}$) mS/cm	ORP (mv)	DO (mg/L)	Turb. (NTU)	Type, Size, and Amount of Sediment Discharged
0840	Purge	JC2	for 5 minutes.	open	Garden	Hose				
	Type of connection in pump hose (pretreatment).									
0845	collect samples for VOCs	8260B	(TEST America)							
	and 1,4-Dioxane (1,4-dioxane by USEPA method) 522									
	to GEL Laboratory).									
0846	Readings	—	6.17	13.32	1.054	163.4	3.06	0.08		

Observations

Color:	<u>Clear</u>	Other (describe):
Odor:	<u>None</u>	Low Medium High Very Strong H ₂ S Fuel-like
Notes:	<p>JCR located in brick BLDG SOUTH of JOHNSON CITY When Department break room (make a right when leaving break room FRONT room) Brick BLDG closest to River.</p>	
Signed/Sampler(s):		

FIELD SAMPLING REPORT

LOCATION: AFP59
SITE: AFP59

PROJECT NAME: AFP59 2015 GWS
PROJECT NO: GS2049.04

SAMPLE INFORMATION

SAMPLE ID 59JC2WG1

DATE: 11-5-15 TIME: 0845

MATRIX TYPE: WG

SAMPLING METHOD: G

LOT CONTROL #: _____

(Ambient Blank # - Equipment Blank # - Trip Blank # - Cooler #)

CHAIN-OF-CUSTODY #: _____

SAMPLE BEG. DEPTH (FT): -

SAMPLE END DEPTH (FT): -

GRAB ☒ COMPOSITE ()

ENTER SAMPLE NUMBERS FOR QC SAMPLES/
BLANKS ASSOCIATED WITH THIS SAMPLE:

MATRIX SPIKE (MS): -

MATRIX SPIKE DUP (SD): -

FIELD DUP (FD): -

AMBIENT BLANK (AB): -

EQUIPMENT BLANK (EB): -

TRIP BLANK (TB): 73110415

CONTAINER		PRESERVATIVE/ PREPARATION	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
40 mL VOA	3	Cool to 4C HCl pH<2	SW8260B	VOCs
1L Amber	2	Cool to 4C	8270C	1,4 Dioxane

NOTABLE OBSERVATIONS

PID READINGS		SAMPLE CHARACTERISTICS		MISCELLANEOUS			
1st	—	COLOR:	clear				
2nd	—	ODOR:	none				
		OTHER:					
pH	6.17	Temperature	13.32 (C)	Dissolved Oxygen	3.06 (mg/L)	Specific Conductivity	1.054 (umhos/cm)
Iron	— (mg/L)	Oxidation/Reduction Potential	163.4 (mv)	Turbidity	0.08 (NTU)		ms/cm

GENERAL INFORMATION

WEATHER: SUN/CLEAR ☒ OVERCAST/RAIN ☒ WIND DIRECTION calm AMBIENT TEMPERATURE 55°

SHIPMENT VIA: FEDEX ☐ HAND DELIVER ☐ COURIER (TAL) ☒ OTHER ☐

SHIPPED TO: Test America Laboratory Denver, CO

COMMENTS:

SAMPLER: MIKE JACKSON OBSERVER: -

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BP=BLADDER PUMP	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	PP=PERISTALTIC PUMP	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	CS=COMPOSITE SAMPLE	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB/WIPE	C=CONTINUOUS FLIGHT AUGER	SS=SPLIT SPOON
		DT=DRIVEN TUBE	SP=SUBMERSIBLE PUMP

DuPo1
(VOCs & 1/4, DIOXANE)

Field Parameters

Observations

Equipment Blank = 1220
[59EB1105WG1]

FIELD SAMPLING REPORT

LOCATION: AFP59 PROJECT NAME: AFP59 2015 GWS
SITE: AFP59 PROJECT NO: GS2049.04

SAMPLE INFORMATION

SAMPLE ID 59SW4WG1	DATE: 11-5-15 TIME: 1117
MATRIX TYPE: WG	ENTER SAMPLE NUMBERS FOR QC SAMPLES/ BLANKS ASSOCIATED WITH THIS SAMPLE: MATRIX SPIKE (MS): — MATRIX SPIKE DUP (SD): — FIELD DUP (FD): 59 DUP #1 WG1 (DUP Time: 1203) AMBIENT BLANK (AB): 59 AB 110515 (AB Time: 1106) EQUIPMENT BLANK (EB): 59 EB 110515 (EB Time: 1220) TRIP BLANK (TB): TB 110415
SAMPLING METHOD: BP	
LOT CONTROL #: — (Ambient Blank # - Equipment Blank # - Trip Blank # - Cooler #)	
CHAIN-OF-CUSTODY #: —	
SAMPLE BEG. DEPTH (FT): — SAMPLE END DEPTH (FT): — GRAB <input checked="" type="checkbox"/> COMPOSITE ()	

CONTAINER		PRESERVATIVE/ PREPARATION	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
40 mL VOA	3	Cool to 4C HCl pH<2	SW8260B	VOCs
1L Amber	2	Cool to 4C	8270C	1,4 Dioxane

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st 0.6	COLOR: clean	
2nd	ODOR: slight FUEL-LIKE odor	
	OTHER:	
pH 6.66	Temperature 13.29 (C)	Dissolved Oxygen 2.66 (mg/L)
Iron — (mg/L)	Oxidation/Reduction Potential 112.3 (mv)	Specific Conductivity 1.362 (umhos/cm)
	Turbidity 2.87 (NTU)	MS/cm

GENERAL INFORMATION

WEATHER: SUN/CLEAR OVERCAST/RAIN ☒ WIND DIRECTION calm AMBIENT TEMPERATURE 65 Humid

SHIPMENT VIA: FEDEX HAND DELIVER COURIER (TAL) x OTHER —

SHIPPED TO: Test America Laboratory Denver, CO

COMMENTS:

SAMPLER: MIKE JACKSON OBSERVER: —

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BP=BLADDER PUMP	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	PP=PERISTALTIC PUMP	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	CS=COMPOSITE SAMPLE	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB/WIPE	C=CONTINUOUS FLIGHT AUGER	SS=SPLIT SPOON
		DT=DRIVEN TUBE	SP=SUBMERSIBLE PUMP

WELL INSPECTION AND GROUNDWATER LEVEL MEASUREMENT SHEET

WELL NUMBER: SW-4

PROJECT NAME: AFP59

DATE/TIME: 11-5-15

CITY/STATE: Johnson City, NY

INSPECTED BY: MJS

Water Level Indicator Serial No. Solinst model 101 (100')
(#59244)

VENT WELL

MONITORING WELL INSTRUMENT READING (VOCs):

φ.φ ppm

WELL INSPECTION/GROUNDWATER LEVEL MEASUREMENT

WELL DEPTH (FEET FROM TOP OF PVC)

27.90 + 0.28 = 28.18

WATER LEVEL DEPTH (FEET FROM TOP OF PVC)

13.4

PVC WELL STICK-UP (FEET, ABOVE GRADE)

-0.18

(FLUSH MOUNT)

PROTECTIVE CASING STICK-UP (FEET, AGS)

N/A

(FLUSH MOUNT)

WELL DIAMETER (INCHES)

2

WELL CONSTRUCTION (PVC, STEEL, ETC.)

PVC

LOCKED UPON ARRIVAL?

YES

NO

LOCK REPLACED?

YES

NO

OBSTRUCTIONS?

YES

NO

DAMAGE TO WELL PAD/STICKUP/CASING, ETC?

YES

NO

(If YES, detail in comments below)

WELL RELABELED?

YES

NO

WELL PHOTOGRAPHED?

YES

NO

boxed shut (3/4")
BATS

GENERAL CONDITION/COMMENTS/RECOMMENDATIONS:



STATIC GROUNDWATER ELEVATION LOG

Project Name: AFP59 2015 Groundwater Sampling Event

Project No.: GS2049.04

Water Level Indicator ID#: Water Level Indicator (Solinst model 101 59244) PID Meter ID#: MiniRAE 2000

Well Identification	Date	Time	Static Depth to Water (from TOC)	Depth to Product (from TOC)	PID Reading	Comments
DW-1	11-2-15	1236	17.86		0.00	4" Temp. Fence between DW-1 & SW-1
SW-1		1220	17.87		0.0	
SW-4		1304	13.45		0.0	
SW-7		1251	19.41	—	0.0	
SW-3		1243	18.82	—	0.0	
DW-3		1245	16.03	—	0.0	4"
URS-2D		1204	31.45	—	0.0	2" SS, Chrysler key box 31.45
URS-2S		1214	31.69	—	0.0	2" SS, normal lid
URS-3D	11-2-15	1151	36.13	—	0.0	
URS-5S	11-2-15	1203	22.98	—	0.0	
BM-121		1159	26.47	—	0.0	

AFP59 2015 LTM Event
Daily Instrument and Calibration Log

Circle One:
Spring/Fall

Date:

Aqua Phoenix Scientific

1.413 ms/cm HANNA

Standard Value	pH4	pH7	pH10	SC 1000	ORP 100 mv	100% Sat.
Standard Lot Number	3AL686 12/31/15	7ACS16 3/2016	4AD999 4/2016	4AL221 12/2015	8034 9/2019	
Instrument Serial #	pH4	pH7	pH10	SC 1000	ORP	D.O.
085101237	3.85			ms/cm		
Pre Calibration	4.38	6.91	10.11	1.506	210.1	82.7% 7.80 mg/L
Calibrated	4.00	7.00	10.03	1.413	240.0	100.6% 9.49 mg/L
End of Day Drift	4.09	7.09	10.28	1.409	249.9	93.6% 8.97 mg/L
Instrument Serial #	pH4	pH7	pH10	SC 1000	ORP	D.O.
085101237						
Pre Calibration	4.05	7.04	10.15	1.401	243.0	110.8% 10.87 mg/L
Calibrated	4.00	7.00	10.02	1.413	240.0	100.8% 9.51 mg/L
End of Day Drift	4.23	6.94	9.96	1.427	235.7	84.7% 7.55 mg/L
Instrument Serial #	pH4	pH7	pH10	SC 1000	ORP	D.O.
085101237						
Pre Calibration	4.05	6.91	10.20	1.425	235.4	83.0% 7.62 mg/L
Calibrated	4.00	7.00	10.03	1.413	240.0	101.4% 9.32 mg/L
End of Day Drift	4.09	6.97	10.30	1.417	239.2	97.8% 8.80 mg/L
Instrument Serial #	pH4	pH7	pH10	SC 1000	ORP	D.O.
085101237						
Pre Calibration	4.04	6.91	10.15	1.423	235.4	105.7% 9.47 mg/L
Calibrated	4.00	7.00	10.03	1.413	240.0	101.1% 9.14 mg/L
End of Day Drift	4.03	6.90	10.11	1.407	238.0	94.1% 7.86 mg/L
Instrument Serial #	pH4	pH7	pH10	SC 1000	ORP	D.O.
Pre Calibration						
Calibrated						
End of Day Drift						

11-2-15

11-3-15

11-4-15

11-5-15

TestAmerica Albany

25 Kraft Avenue

Albany, NY 12205
phone 518.438.8140 fax 518.438.8150

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact		Project Manager: Peter Dacyk		Site Contact: Mike Jackson		Date:		COC No:			
HydroGeoLogic, Inc.		Tel/Fax: 518-265-2204		Lab Contact: Patrick McEntee		Carrier: FedEx		1 of 2 COCs			
Northway 10 Executive Park, 313 Ushers Road		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS/MSD (Y/N) VOCs 8260B 1,4-Dioxane (8270C)				Sampler: Mike Jackson			
Ballston Lake, NY 12019		<input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS						For Lab Use Only:			
(518) 877-0390 Phone		TAT if different from Below						Walk-in Client:			
(518) 953-0026 FAX		<input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Lab Sampling:			
Project Name: Air Force Plant 59 October 2015 GWS								Job / SDG No.:			
Site: AFP59 Johnson City, NY											
P O # GS2049.04											
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes:				
59URS3DWG1				G	GW	5	N	x	x		
59BM121WG1				G	GW	5	N	x	x		
59URS2DWG1				G	GW	5	N	x	x		
59URS2SWG1				G	GW	5	N	x	x		
59URS5SWG1				G	GW	5	N	x	x		
59URS5SWG1-MS				G	GW	5	N	Y	x		
59URS5SWG1-MSD				G	GW	5	N	Y	x		
59DW1WG1				G	GW	5	N	x	x		
59SW1WG1				G	GW	5	N	x	x		
59DW3WG1		11-4-15	13%	G	GW	5	N	x	x		
59SW3WG1				G	GW	5	N	x	x		
59URS3BWG1				G	GW	5	N	x	x		
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other											
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown											
Special Instructions/QC Requirements & Comments:											
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Cor'd: _____		Therm ID No.:					
Relinquished by: <i>Michael Jackson</i>		Company: <i>HGL</i>		Date/Time: <i>11-5-15 1700</i>		Received by: <i>Tim Kraker</i>		Company: <i>TA ALB</i>		Date/Time: <i>11-5-15 1700</i>	
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:	
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Company:		Date/Time:	

TestAmerica Albany

25 Kraft Avenue

Albany, NY 12205

phone 518.438.8140 fax 518.438.8150

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Peter Dacyk		Site Contact: Mike Jackson		Date:		COC No:	
HydroGeoLogic, Inc.		Tel/Fax: 518-265-2204		Lab Contact: Patrick McEntee		Carrier: FedEx		2 of 2 COCs	
Northway 10 Executive Park, 313 Ushers Road		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS / MSD (Y/N) VOCs 8260B 1,4-Dioxane (8270C)				Sampler: Mike Jackson	
Ballston Lake, NY 12019		<input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS						For Lab Use Only:	
(518) 877-0390 Phone		TAT if different from Below _____						Walk-in Client:	
(518) 953-0026 FAX		<input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Lab Sampling:	
Project Name: Air Force Plant 59 October 2015 GWS								Job / SDG No.:	
Site: AFP59 Johnson City, NY									
P O # GS2049.04									
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes:			
59SW7WG1	11-4-15	1602	G	GW	5	N	x	x	
59SW4WG1	11-5-15	1117	G	GW	5	N	x	x	
59DUP01WG1	11-5-15	1203	G	GW	5	N	x	x	
59DUP02WG1	11-4-15	1244	G	GW	25	N	x		1,4-Dioxane only
59AB110515	11-5-15	1146	G	WA	3	N	x		
59EB110515	11-5-15	1220	G	WA	5	N	Y	x	
TB110415	11-4-15	1345	G	WA	25	N	Y	x	VOCs 8260B only
59JC2WG1	11-5-15	0845	G	WA	3	N	Y	x	
11-5-15									
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.						<input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown									
Special Instructions/QC Requirements & Comments:									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: _____ Cooler Temp. (°C): Obs'd: _____ Cor'd: _____ Therm ID No.: _____									
Relinquished by: Michael D. Jackson / HGL		Company: HGL		Date/Time: 11-5-15 1602		Received by: [Signature]		Company: TA Albany	
Relinquished by:		Company:		Date/Time:		Received by:		Company:	
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Company:	

1 From Please print and press hard.

Date **11-5-2015** Sender's FedEx Account Number **2661-0156-2**
 Sender's Name **MELANIE COLEMAN** Phone (**518**) **877-0390**
 Company **HYRDOGEOLOGIC INC**
 Address **313 USHERS RD** Dept./Floor/Suite/Room
 City **BALLSTON LAKE** State **NY** ZIP **12019-1548**

2 Your Internal Billing Reference

First 24 characters will appear on invoice. **GS 2049.04**

3 To

Recipient's Name **ATTN: VAGERIE DAVIS** Phone (**843**) **556-8171**
 Company **GEL LABORATORIES LLC**
 Address **2040 SAVAGE ROAD** Dept./Floor/Suite/Room
 We cannot deliver to P.O. boxes or P.O. ZIP codes.
 Address Use this line for the HOLD location address or for continuation of your shipping address.
 City **CHARLESTON** State **SC** ZIP **29407**

☐ **HOLD Weekday**
FedEx location address
REQUIRED. **NOT** available for
FedEx First Overnight.

☐ **HOLD Saturday**
FedEx location address
REQUIRED. **NOT** available for
FedEx Priority Overnight and
FedEx 2Day to select locations.

4 Express Package Service

*To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs.
For packages over 150 lbs., use the new
FedEx Express Freight US Airbill.

Next Business Day

- ☐ **FedEx First Overnight**
Earliest next business morning delivery to select
locations. Friday shipments will be delivered on
Monday unless SATURDAY Delivery is selected.
- ☒ **FedEx Priority Overnight**
Next business morning*. Friday shipments will be
delivered on Monday unless SATURDAY Delivery
is selected.
- ☐ **FedEx Standard Overnight**
Next business afternoon*. Saturday Delivery NOT available.

2 or 3 Business Days

- ☐ **FedEx 2Day A.M.**
Second business morning*. Saturday Delivery NOT available.
- ☐ **FedEx 2Day**
Second business afternoon*. Thursday shipments
will be delivered on Monday unless SATURDAY
Delivery is selected.
- ☐ **FedEx Express Saver**
Third business day*. Saturday Delivery NOT available.

5 Packaging

*Declared value limit \$500.

- ☐ **FedEx Envelope*** ☐ **FedEx Pak*** ☐ **FedEx Box** ☐ **FedEx Tube** ☒ **Other**

6 Special Handling and Delivery Signature Options

- ☐ **SATURDAY Delivery**
NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.
- ☐ **No Signature Required**
Package may be left without
obtaining a signature for delivery.
- ☐ **Direct Signature**
Someone at recipient's address
may sign for delivery. **Fee applies.**
- ☐ **Indirect Signature**
If no one is available at recipient's
address, someone at a neighboring
address may sign for delivery. **Fee applies.**

Does this shipment contain dangerous goods?

- ☒ **No** ☐ **Yes** **See label must be checked.**
 No per attached Shipper's Declaration ☐ **Yes** Shipper's Declaration
 not required. ☐ **Dry Ice** Dry Ice, 9, UN 1845 x kg
 Dangerous goods (including dry ice) cannot be shipped in FedEx packaging
 or placed in a FedEx Express Drop Box. ☐ **Cargo Aircraft Only**

7 Payment Bill to:

Enter FedEx Acct. No. or Credit Card No. below.

- ☐ **Sender** Acct. No. in Section 1 will be billed. ☐ **Recipient** ☒ **Third Party** ☐ **Credit Card** ☐ **Cash/Check**
- FedEx Acct. No. **1299-0912-9** Exp. Date

Total Packages **1** Total Weight **48.6** lbs. Total Declared Value* \$ **0.00**

*Our liability is limited to US\$100 unless you declare a higher value. See back for details. By using this Airbill you agree to the service conditions on the back of this Airbill and in the current FedEx Service Guide, including terms that limit our liability.

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Get transit times. Schedule pickups.
Create labels. Go to fedex.com.

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Page: <u>1</u> of <u>1</u> Project #: <u>GS2049.04</u> GEL Quote #: COC Number ⁽¹⁾ : PO Number:	<h2 style="margin: 0;">GEL Chain of Custody and Analytical Request</h2>	GEL Laboratories, LLC 2040 Savage Road Charleston, SC 29407 Phone: (843) 556-8171 Fax: (843) 766-1178
GEL Work Order Number:		

Client Name: <u>HydroGeologic, Inc. (HGI)</u> Phone #: <u>518-877-0390</u>		Sample Analysis Requested ⁽⁵⁾ (Fill in the number of containers for each test)																	
Project/Site Name: <u>AFPS9</u> Fax #:		Should this sample be considered:	Total number of containers <u>USE PA METHOD 522.59</u>																<-- Preservative Type (6)
Address: <u>JOHNSON CITY, NY</u>																			
Collected by: <u>MIKE JACKSON</u> Send Results To: <u>MIKE JACKSON</u>		Radioactive	TSCA Regulated																
Sample ID <small>* For composites - indicate start and stop date/time</small>	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (4)	Sample Matrix (4)														
<u>59JC2WG1</u>	<u>11-5-15</u>	<u>0845</u>	<u>G</u>	<u>N</u>	<u>GW</u>														<u>1,4-DIOXANE</u>

TAT Requested: Normal: <input checked="" type="checkbox"/> Rush: <input type="checkbox"/> Specify: (Subject to Surcharge)	Fax Results: Yes / <input checked="" type="checkbox"/> No	Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4
Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards		Sample Collection Time Zone <input checked="" type="checkbox"/> Eastern <input type="checkbox"/> Pacific <input type="checkbox"/> Central <input type="checkbox"/> Other _____ <input type="checkbox"/> Mountain

Chain of Custody Signatures						Sample Shipping and Delivery Details	
Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time	GEL PM: <u>VALENE DAVIS</u> Method of Shipment: <u>Fedex</u> Date Shipped: <u>11-5-15</u> Airbill #: <u>8095 9180 9220</u> Airbill #:	
<u>Melissa Jackson</u>	<u>11-5-15</u>	<u>1120</u>					
1			1				
2			2				
3			3				

1.) Chain of Custody Number = Client Determined 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered. 4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1). 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank <u>SS: sodium sulfide</u>	For Lab Receiving Use Only Custody Seal Intact? YES NO Cooler Temp: C
WHITE = LABORATORY YELLOW = FILE PINK = CLIENT	

Location AFP59-JOHNSON CITY, NY Date 11-20-14
 Project / Client GROUNDWATER SAMPLING /
AFCEC

0945 SECURITY AT AFP59
 OPENS GATE TO ACCESS
 SW-4.

0955 SETUP over SW-4
 1124 Sample SW-4

59SW4WG1

Collect DUPLICATE

59DUP01WG1 (2nd sample)

↑ time = 0938

1105 COLLECTED AMBIENT
 BLANK AB112014
 (VOCs only)

1240 Collect Equipment
 BLANK
EB112014

clean up / DRIFT YSI

1345 Depart AFP59

1415 Drop off PINE Environmental
 Equipment at BEST WESTERN
 JOHNSON CITY for pickup

1750 Arrive at TEST America - Albany
 to drop off samples

1845 samples for DEL to Fedex (menards)

11-20-14

Location AFP59 JOHNSON CITY Date 11-2-15
 Project / Client GROUNDWATER SAMPLING
AFCEC

ARRIVAL: 0840

Personnel: MIKE JACKSON (HGL)
 weather: 55° clear, calm.

Purpose: GROUNDWATER SAMPLING

- PICKED UP ICE, CALIBRATION
 EQUIPMENT,

- MET TED CONNELLY at
 JOHNSON CITY WATER DEPT.

- MET SECURITY at AFP59
 Area (607-744-9258)
 (PM Doug Sorelho 908-854-
 5235),

- open wells and allow to
 equilibrate. Gauge wells
 for water levels. Decan
 pumps.

1415 SETUP over URS-3D

1609 Sample URS-3D for
 VOCs & SVOCs 59URS3DWG1

1710 Setup over BM-12

1804 Sample BM-12 for
 VOCs & SVOCs 59BM12WG1

Decan pumps

1925 Depart SITE

Location AFPS9 JOHNSON CITY Date 11-3-15
 Project / Client GROUNDWATER^{NY} sampling
AFCEC

Arrival: 0730

Personnel: MIKE JACKSON (HGC)

Weather: Clear, sunny, 55°

Purpose: Groundwater Sampling

- Calibrate Equipment, Pick

up supplies

0815 Setup over URS-20

0909 Sample URS-20

59 URS20 WGI

0955 Setup over URS-25

1138 Sample URS-25

59 URS25 WGI

1320 Setup over URS-55

1436 Sample URS-55 + MS/MSD

59 URS55 WGI

59 URS55 + WGI + MS

59 URS55 WGI - MSD

1630 Setup over SW-1

1736 Sample SW-1

59 SW1 WGI

Decal pumps

1905 Depart AFPS9

11-13-15

Location AFPS9 CITY, NY Date 11-4-15 29
 Project / Client Groundwater Sampling
AFCEC

Arrival: 0750

Personnel: MIKE JACKSON (HGC)

Weather: Clear/sunny, calm, 47°

Purpose: Groundwater Sampling

- Get supplies, Calibrate Equipment

0805 Setup over DW-1

0915 Sample DW-1 59 DW1 WGI

1000 Setup over SW-3

1110 Sample SW-3 59 SW3 WGI

Decal pumps

1230 Setup over DW-3

1340 Samples Transferred to

TEST America Carrier on site

1346 Sample DW-3 (Vocs, 1,4-Dioxane)

59 DW3 WGI

Collect duplicate for 1,4-Dioxane

59 DUP02 WGI, Get Ice

1500 Setup over SW-7

1602 Sample SW-7 for Vocs, 1,4-Dioxane

59 SW7 WGI

Decal pumps, Drift Equipment

1720 Depart Site

11-4-15

ARRIVAL: 0825

Personnel: MIKE JACKSON (HGL)

Weather: 55°, overcast, calm

Purpose: Ground Water Sampling
- calibrate equipment. Get
supplies.- talk to water Dept (JOHNSON CITY)
0840 Purge TC2 municipal
well from garden hose
type port (untreated water)

0845 collect samples for VOCs

8260B (TEST AMERICA) and

1,4-DIOXANE by USEPA method

522 (GEL LABORATORIES) T

1015 Setup over SW-4 [59JC2W61] ^{INT}1106 Collect AMBIENT BLANKS
(VOCs only) [59AB110515 (HGL)]

1117 Collect SW-4 samples

for VOCs & 1,4-DIOXANE

[59SW4W61] and duplicate

[59DUP01W61]

1220 Collect Equipment Blank
for VOCs & 1,4-DIOXANE
[59EB110515 W61]1245 DRIFT EQUIPMENT. Package
Equipment for return.

1345 Depart AFPS9. Get supplies

1415 Drop off Rental Equipment
at HOTEL (Best Western).
Five environmental will
pickup 11-6-15.1700 Drop off samples at
TEST AMERICA - ALBANY.
LOUARD, TA - ALBANY will
ship to TEL - DEANER CO.1830 Drop off sample for
GEL LABORATORY as
Fedex (Priority overnight)~~Relld
11-5-15~~

ATTACHMENT 2

LABORATORY REPORT

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59URS3DWG1

Lab Sample ID: 280-76497-1

Date Sampled: 11/02/2015 1609

Client Matrix: Water

Date Received: 11/06/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 280-303876	Instrument ID: VMS_R1
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: R2225.D
Dilution: 1.0		Initial Weight/Volume: 20 mL
Analysis Date: 11/12/2015 2136		Final Weight/Volume: 20 mL
Prep Date: 11/12/2015 2136		

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.17	U	0.17	1.0
1,1,1-Trichloroethane	1.0		0.16	1.0
1,1,2,2-Tetrachloroethane	0.20	U	0.20	1.0
1,1,2-Trichloroethane	0.32	U	0.32	1.0
1,1-Dichloroethane	0.16	U	0.16	1.0
1,1-Dichloroethene	0.14	U	0.14	1.0
1,1-Dichloropropene	0.15	U	0.15	1.0
1,2,3-Trichlorobenzene	0.18	U	0.18	1.0
1,2,3-Trichloropropane	0.77	U	0.77	3.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.14	U	0.14	1.0
1,2-Dibromo-3-Chloropropane	0.81	U	0.81	5.0
1,2-Dichlorobenzene	0.13	U	0.13	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,2-Dichloropropane	0.13	U	0.13	1.0
1,3,5-Trimethylbenzene	0.14	U	0.14	1.0
1,3-Dichlorobenzene	0.16	U	0.16	1.0
1,3-Dichloropropane	0.15	U	0.15	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
1-Chlorohexane	0.17	U	0.17	1.0
2,2-Dichloropropane	0.20	U	0.20	1.0
2-Butanone (MEK)	1.8	U	1.8	6.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.17	U	0.17	1.0
4-Isopropyltoluene	0.17	U	0.17	1.0
4-Methyl-2-pentanone (MIBK)	1.0	SM	1.0	5.0
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
Carbon tetrachloride	0.19	U	0.19	2.0
Chlorobenzene	0.17	U	0.17	1.0
Chlorobromomethane	0.10	U	0.10	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
cis-1,2-Dichloroethene	0.90	FF	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
Dibromomethane	0.17	U	0.17	1.0
Dichlorobromomethane	0.17	U	0.17	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
Ethylbenzene	0.16	U	0.16	1.0
Ethylene Dibromide	0.18	U	0.18	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
Isopropylbenzene	0.19	U	0.19	1.0
Methyl tert-butyl ether	0.25	U	0.25	5.0

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59URS3DWG1

Lab Sample ID: 280-76497-1

Client Matrix: Water

Date Sampled: 11/02/2015 1609

Date Received: 11/06/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 280-303876	Instrument ID: VMS_R1
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: R2225.D
Dilution: 1.0		Initial Weight/Volume: 20 mL
Analysis Date: 11/12/2015 2136		Final Weight/Volume: 20 mL
Prep Date: 11/12/2015 2136		

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Methylene Chloride	0.32	U	0.32	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.32	U	0.32	1.0
N-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
Trichloroethene	1.6		0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
Vinyl chloride	0.10	U	0.10	1.5
Dibromochloromethane	0.17	U	0.17	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 120
4-Bromofluorobenzene (Surr)	92		75 - 120
Dibromofluoromethane (Surr)	93		85 - 115
Toluene-d8 (Surr)	91		85 - 120

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59BM121WG1

Lab Sample ID: 280-76497-2

Date Sampled: 11/02/2015 1804

Client Matrix: Water

Date Received: 11/06/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 280-303876	Instrument ID: VMS_R1
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: R2226.D
Dilution: 1.0		Initial Weight/Volume: 20 mL
Analysis Date: 11/12/2015 2156		Final Weight/Volume: 20 mL
Prep Date: 11/12/2015 2156		

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.17	U	0.17	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2,2-Tetrachloroethane	0.20	U	0.20	1.0
1,1,2-Trichloroethane	0.32	U	0.32	1.0
1,1-Dichloroethane	0.16	U	0.16	1.0
1,1-Dichloroethene	0.14	U	0.14	1.0
1,1-Dichloropropene	0.15	U	0.15	1.0
1,2,3-Trichlorobenzene	0.18	U	0.18	1.0
1,2,3-Trichloropropane	0.77	U	0.77	3.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.14	U	0.14	1.0
1,2-Dibromo-3-Chloropropane	0.81	U	0.81	5.0
1,2-Dichlorobenzene	0.13	U	0.13	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,2-Dichloropropane	0.13	U	0.13	1.0
1,3,5-Trimethylbenzene	0.14	U	0.14	1.0
1,3-Dichlorobenzene	0.16	U	0.16	1.0
1,3-Dichloropropane	0.15	U	0.15	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
1-Chlorohexane	0.17	U	0.17	1.0
2,2-Dichloropropane	0.20	U	0.20	1.0
2-Butanone (MEK)	1.8	U	1.8	6.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.17	U	0.17	1.0
4-Isopropyltoluene	0.17	U	0.17	1.0
4-Methyl-2-pentanone (MIBK)	1.0	U	1.0	5.0
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
Carbon tetrachloride	0.19	U	0.19	2.0
Chlorobenzene	0.17	U	0.17	1.0
Chlorobromomethane	0.10	U	0.10	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
Dibromomethane	0.17	U	0.17	1.0
Dichlorobromomethane	0.17	U	0.17	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
Ethylbenzene	0.16	U	0.16	1.0
Ethylene Dibromide	0.18	U	0.18	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
Isopropylbenzene	0.19	U	0.19	1.0
Methyl tert-butyl ether	0.25	U	0.25	5.0

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59BM121WG1

Lab Sample ID: 280-76497-2

Date Sampled: 11/02/2015 1804

Client Matrix: Water

Date Received: 11/06/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-303876	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R2226.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/12/2015 2156			Final Weight/Volume:	20 mL
Prep Date:	11/12/2015 2156				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Methylene Chloride	0.32	U	0.32	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.32	U	0.32	1.0
N-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
Vinyl chloride	0.10	U	0.10	1.5
Dibromochloromethane	0.17	U	0.17	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107		70 - 120
4-Bromofluorobenzene (Surr)	96		75 - 120
Dibromofluoromethane (Surr)	101		85 - 115
Toluene-d8 (Surr)	89		85 - 120

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59URS2DWG1

Lab Sample ID: 280-76497-3

Date Sampled: 11/03/2015 0909

Client Matrix: Water

Date Received: 11/06/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 280-303876	Instrument ID: VMS_R1
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: R2229.D
Dilution: 1.0		Initial Weight/Volume: 20 mL
Analysis Date: 11/12/2015 2300		Final Weight/Volume: 20 mL
Prep Date: 11/12/2015 2300		

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.17	U	0.17	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2,2-Tetrachloroethane	0.20	U	0.20	1.0
1,1,2-Trichloroethane	0.32	U	0.32	1.0
1,1-Dichloroethane	0.20	FF	0.16	1.0
1,1-Dichloroethene	0.14	U	0.14	1.0
1,1-Dichloropropene	0.15	U	0.15	1.0
1,2,3-Trichlorobenzene	0.18	U	0.18	1.0
1,2,3-Trichloropropane	0.77	U	0.77	3.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.14	U	0.14	1.0
1,2-Dibromo-3-Chloropropane	0.81	U	0.81	5.0
1,2-Dichlorobenzene	0.13	U	0.13	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,2-Dichloropropane	0.13	U	0.13	1.0
1,3,5-Trimethylbenzene	0.14	U	0.14	1.0
1,3-Dichlorobenzene	0.16	U	0.16	1.0
1,3-Dichloropropane	0.15	U	0.15	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
1-Chlorohexane	0.17	U	0.17	1.0
2,2-Dichloropropane	0.20	U	0.20	1.0
2-Butanone (MEK)	1.8	U	1.8	6.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.17	U	0.17	1.0
4-Isopropyltoluene	0.17	U	0.17	1.0
4-Methyl-2-pentanone (MIBK)	1.0	sm	1.0	5.0
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
Carbon tetrachloride	0.19	U	0.19	2.0
Chlorobenzene	0.17	U	0.17	1.0
Chlorobromomethane	0.10	U	0.10	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
cis-1,2-Dichloroethene	60	FF	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
Dibromomethane	0.17	U	0.17	1.0
Dichlorobromomethane	0.17	U	0.17	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
Ethylbenzene	0.16	U	0.16	1.0
Ethylene Dibromide	0.18	U	0.18	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
Isopropylbenzene	0.19	U	0.19	1.0
Methyl tert-butyl ether	0.25	U	0.25	5.0

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59URS2DWG1

Lab Sample ID: 280-76497-3

Date Sampled: 11/03/2015 0909

Client Matrix: Water

Date Received: 11/06/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-303876	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R2229.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/12/2015 2300			Final Weight/Volume:	20 mL
Prep Date:	11/12/2015 2300				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Methylene Chloride	0.32	U	0.32	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.32	U	0.32	1.0
N-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
Vinyl chloride	0.10	U	0.10	1.5
Dibromochloromethane	0.17	U	0.17	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		70 - 120
4-Bromofluorobenzene (Surr)	93		75 - 120
Dibromofluoromethane (Surr)	100		85 - 115
Toluene-d8 (Surr)	87		85 - 120

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59URS2DWG1

Lab Sample ID: 280-76497-3

Date Sampled: 11/03/2015 0909

Client Matrix: Water

Date Received: 11/06/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 280-303876	Instrument ID: VMS_R1
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: R2230.D
Dilution: 4.0		Initial Weight/Volume: 20 mL
Analysis Date: 11/12/2015 2320	Run Type: DL	Final Weight/Volume: 20 mL
Prep Date: 11/12/2015 2320		

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.68	EWX	0.68	4.0
1,1,1-Trichloroethane	0.64	EWX	0.64	4.0
1,1,2,2-Tetrachloroethane	0.80	EWX	0.80	4.0
1,1,2-Trichloroethane	1.3	EWX	1.3	4.0
1,1-Dichloroethane	0.64	EWX	0.64	4.0
1,1-Dichloroethene	0.56	EWX	0.56	4.0
1,1-Dichloropropene	0.60	EWX	0.60	4.0
1,2,3-Trichlorobenzene	0.72	EWX	0.72	4.0
1,2,3-Trichloropropane	3.1	EWX	3.1	12
1,2,4-Trichlorobenzene	1.3	EWX	1.3	4.0
1,2,4-Trimethylbenzene	0.56	EWX	0.56	4.0
1,2-Dibromo-3-Chloropropane	3.2	EWX	3.2	20
1,2-Dichlorobenzene	0.52	EWX	0.52	4.0
1,2-Dichloroethane	0.52	EWX	0.52	4.0
1,2-Dichloropropane	0.52	EWX	0.52	4.0
1,3,5-Trimethylbenzene	0.56	EWX	0.56	4.0
1,3-Dichlorobenzene	0.64	EWX	0.64	4.0
1,3-Dichloropropane	0.60	EWX	0.60	4.0
1,4-Dichlorobenzene	0.64	EWX	0.64	4.0
1-Chlorohexane	0.68	EWX	0.68	4.0
2,2-Dichloropropane	0.80	EWX	0.80	4.0
2-Butanone (MEK)	7.3	EWX	7.3	24
2-Chlorotoluene	0.68	EWX	0.68	4.0
4-Chlorotoluene	0.68	EWX	0.68	4.0
4-Isopropyltoluene	0.68	EWX	0.68	4.0
4-Methyl-2-pentanone (MIBK)	4.2	EWX	4.2	20
Acetone	7.6	EWX	7.6	40
Benzene	0.64	EWX	0.64	4.0
Bromobenzene	0.68	EWX	0.68	4.0
Bromoform	0.76	EWX	0.76	4.0
Bromomethane	0.84	EWX	0.84	8.0
Carbon tetrachloride	0.76	EWX	0.76	8.0
Chlorobenzene	0.68	EWX	0.68	4.0
Chlorobromomethane	0.40	EWX	0.40	4.0
Chloroform	0.64	EWX	0.64	4.0
Chloromethane	1.2	EWX	1.2	8.0
cis-1,2-Dichloroethene	61	EWX	0.60	4.0
cis-1,3-Dichloropropene	0.64	EWX	0.64	4.0
Dibromomethane	0.68	EWX	0.68	4.0
Dichlorobromomethane	0.68	EWX	0.68	4.0
Dichlorodifluoromethane	1.2	EWX	1.2	8.0
Ethylbenzene	0.64	EWX	0.64	4.0
Ethylene Dibromide	0.72	EWX	0.72	4.0
Hexachlorobutadiene	1.4	EWX	1.4	4.0
Isopropylbenzene	0.76	EWX	0.76	4.0
Methyl tert-butyl ether	1.0	EWX	1.0	20

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59URS2DWG1

Lab Sample ID: 280-76497-3

Date Sampled: 11/03/2015 0909

Client Matrix: Water

Date Received: 11/06/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 280-303876	Instrument ID: VMS_R1
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: R2230.D
Dilution: 4.0		Initial Weight/Volume: 20 mL
Analysis Date: 11/12/2015 2320	Run Type: DL	Final Weight/Volume: 20 mL
Prep Date: 11/12/2015 2320		

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Methylene Chloride	1.3	✓	1.3	20
m-Xylene & p-Xylene	1.4	✓	1.4	8.0
Naphthalene	0.88	✓	0.88	4.0
n-Butylbenzene	1.3	✓	1.3	4.0
N-Propylbenzene	0.64	✓	0.64	4.0
o-Xylene	0.76	✓	0.76	4.0
sec-Butylbenzene	0.68	✓	0.68	4.0
Styrene	0.68	✓	0.68	4.0
tert-Butylbenzene	0.64	✓	0.64	4.0
Tetrachloroethene	0.80	✓	0.80	4.0
Toluene	0.68	✓	0.68	4.0
trans-1,2-Dichloroethene	0.60	✓	0.60	4.0
trans-1,3-Dichloropropene	0.76	✓	0.76	4.0
Trichloroethene	0.64	✓	0.64	4.0
Trichlorofluoromethane	1.2	✓	1.2	8.0
Vinyl chloride	0.40	✓	0.40	6.0
Dibromochloromethane	0.68	✓	0.68	4.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109		70 - 120
4-Bromofluorobenzene (Surr)	96		75 - 120
Dibromofluoromethane (Surr)	104		85 - 115
Toluene-d8 (Surr)	93		85 - 120

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59URS2SWG1

Lab Sample ID: 280-76497-4

Date Sampled: 11/03/2015 1138

Client Matrix: Water

Date Received: 11/06/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 280-303876	Instrument ID: VMS_R1
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: R2231.D
Dilution: 1.0		Initial Weight/Volume: 20 mL
Analysis Date: 11/12/2015 2340		Final Weight/Volume: 20 mL
Prep Date: 11/12/2015 2340		

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.17	U	0.17	1.0
1,1,1-Trichloroethane	2.4		0.16	1.0
1,1,2,2-Tetrachloroethane	0.20	U	0.20	1.0
1,1,2-Trichloroethane	0.32	U	0.32	1.0
1,1-Dichloroethane	1.3		0.16	1.0
1,1-Dichloroethene	0.14	U	0.14	1.0
1,1-Dichloropropene	0.15	U	0.15	1.0
1,2,3-Trichlorobenzene	0.18	U	0.18	1.0
1,2,3-Trichloropropane	0.77	U	0.77	3.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.14	U	0.14	1.0
1,2-Dibromo-3-Chloropropane	0.81	U	0.81	5.0
1,2-Dichlorobenzene	0.13	U	0.13	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,2-Dichloropropane	0.13	U	0.13	1.0
1,3,5-Trimethylbenzene	0.14	U	0.14	1.0
1,3-Dichlorobenzene	0.16	U	0.16	1.0
1,3-Dichloropropane	0.15	U	0.15	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
1-Chlorohexane	0.17	U	0.17	1.0
2,2-Dichloropropane	0.20	U	0.20	1.0
2-Butanone (MEK)	1.8	U	1.8	6.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.17	U	0.17	1.0
4-Isopropyltoluene	0.17	U	0.17	1.0
4-Methyl-2-pentanone (MIBK)	1.0	SM	1.0	5.0
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
Carbon tetrachloride	0.19	U	0.19	2.0
Chlorobenzene	0.17	U	0.17	1.0
Chlorobromomethane	0.10	U	0.10	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
cis-1,2-Dichloroethene	1.8		0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
Dibromomethane	0.17	U	0.17	1.0
Dichlorobromomethane	0.17	U	0.17	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
Ethylbenzene	0.16	U	0.16	1.0
Ethylene Dibromide	0.18	U	0.18	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
Isopropylbenzene	0.19	U	0.19	1.0
Methyl tert-butyl ether	0.25	U	0.25	5.0

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59URS2SWG1

Lab Sample ID: 280-76497-4

Date Sampled: 11/03/2015 1138

Client Matrix: Water

Date Received: 11/06/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-303876	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R2231.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/12/2015 2340			Final Weight/Volume:	20 mL
Prep Date:	11/12/2015 2340				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Methylene Chloride	0.32	U	0.32	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.32	U	0.32	1.0
N-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
Trichloroethene	2.8		0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
Vinyl chloride	0.10	U	0.10	1.5
Dibromochloromethane	0.17	U	0.17	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107		70 - 120
4-Bromofluorobenzene (Surr)	92		75 - 120
Dibromofluoromethane (Surr)	100		85 - 115
Toluene-d8 (Surr)	86		85 - 120

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59URS5SWG1

Lab Sample ID: 280-76497-5

Date Sampled: 11/03/2015 1436

Client Matrix: Water

Date Received: 11/06/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 280-303876	Instrument ID: VMS_R1
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: R2224.D
Dilution: 1.0		Initial Weight/Volume: 20 mL
Analysis Date: 11/12/2015 2116		Final Weight/Volume: 20 mL
Prep Date: 11/12/2015 2116		

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.17	U	0.17	1.0
1,1,1-Trichloroethane	0.52	FF	0.16	1.0
1,1,2,2-Tetrachloroethane	0.20	U	0.20	1.0
1,1,2-Trichloroethane	0.32	U	0.32	1.0
1,1-Dichloroethane	0.16	U	0.16	1.0
1,1-Dichloroethene	0.14	U	0.14	1.0
1,1-Dichloropropene	0.15	U	0.15	1.0
1,2,3-Trichlorobenzene	0.18	U	0.18	1.0
1,2,3-Trichloropropane	0.77	U	0.77	3.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.14	U	0.14	1.0
1,2-Dibromo-3-Chloropropane	0.81	U	0.81	5.0
1,2-Dichlorobenzene	0.13	U	0.13	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,2-Dichloropropane	0.13	U	0.13	1.0
1,3,5-Trimethylbenzene	0.14	U	0.14	1.0
1,3-Dichlorobenzene	0.16	U	0.16	1.0
1,3-Dichloropropane	0.15	U	0.15	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
1-Chlorohexane	0.17	U	0.17	1.0
2,2-Dichloropropane	0.20	U	0.20	1.0
2-Butanone (MEK)	1.8	U	1.8	6.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.17	U	0.17	1.0
4-Isopropyltoluene	0.17	U	0.17	1.0
4-Methyl-2-pentanone (MIBK)	1.0	sm	1.0	5.0
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
Carbon tetrachloride	0.19	U	0.19	2.0
Chlorobenzene	0.17	U	0.17	1.0
Chlorobromomethane	0.10	U	0.10	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
Dibromomethane	0.17	U	0.17	1.0
Dichlorobromomethane	0.17	U	0.17	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
Ethylbenzene	0.16	U	0.16	1.0
Ethylene Dibromide	0.18	U	0.18	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
Isopropylbenzene	0.19	U	0.19	1.0
Methyl tert-butyl ether	0.25	U	0.25	5.0

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59URS5SWG1

Lab Sample ID: 280-76497-5

Date Sampled: 11/03/2015 1436

Client Matrix: Water

Date Received: 11/06/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-303876	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R2224.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/12/2015 2116			Final Weight/Volume:	20 mL
Prep Date:	11/12/2015 2116				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Methylene Chloride	0.32	U	0.32	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.32	U	0.32	1.0
N-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
Trichloroethene	0.56	FF	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
Vinyl chloride	0.10	U	0.10	1.5
Dibromochloromethane	0.17	U	0.17	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		70 - 120
4-Bromofluorobenzene (Surr)	95		75 - 120
Dibromofluoromethane (Surr)	95		85 - 115
Toluene-d8 (Surr)	95		85 - 120

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59DW1WG1

Lab Sample ID: 280-76497-6

Date Sampled: 11/04/2015 0915

Client Matrix: Water

Date Received: 11/06/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 280-303876	Instrument ID: VMS_R1
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: R2232.D
Dilution: 1.0		Initial Weight/Volume: 20 mL
Analysis Date: 11/12/2015 2359		Final Weight/Volume: 20 mL
Prep Date: 11/12/2015 2359		

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.17	U	0.17	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2,2-Tetrachloroethane	0.20	U	0.20	1.0
1,1,2-Trichloroethane	0.32	U	0.32	1.0
1,1-Dichloroethane	0.16	U	0.16	1.0
1,1-Dichloroethene	0.14	U	0.14	1.0
1,1-Dichloropropene	0.15	U	0.15	1.0
1,2,3-Trichlorobenzene	0.18	U	0.18	1.0
1,2,3-Trichloropropane	0.77	U	0.77	3.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.14	U	0.14	1.0
1,2-Dibromo-3-Chloropropane	0.81	U	0.81	5.0
1,2-Dichlorobenzene	0.13	U	0.13	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,2-Dichloropropane	0.13	U	0.13	1.0
1,3,5-Trimethylbenzene	0.14	U	0.14	1.0
1,3-Dichlorobenzene	0.16	U	0.16	1.0
1,3-Dichloropropane	0.15	U	0.15	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
1-Chlorohexane	0.17	U	0.17	1.0
2,2-Dichloropropane	0.20	U	0.20	1.0
2-Butanone (MEK)	1.8	U	1.8	6.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.17	U	0.17	1.0
4-Isopropyltoluene	0.17	U	0.17	1.0
4-Methyl-2-pentanone (MIBK)	1.0	U	1.0	5.0
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
Carbon tetrachloride	0.19	U	0.19	2.0
Chlorobenzene	0.17	U	0.17	1.0
Chlorobromomethane	0.10	U	0.10	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
Dibromomethane	0.17	U	0.17	1.0
Dichlorobromomethane	0.17	U	0.17	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
Ethylbenzene	0.16	U	0.16	1.0
Ethylene Dibromide	0.18	U	0.18	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
Isopropylbenzene	0.19	U	0.19	1.0
Methyl tert-butyl ether	0.25	U	0.25	5.0

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59DW1WG1

Lab Sample ID: 280-76497-6

Client Matrix: Water

Date Sampled: 11/04/2015 0915

Date Received: 11/06/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 280-303876	Instrument ID: VMS_R1
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: R2232.D
Dilution: 1.0		Initial Weight/Volume: 20 mL
Analysis Date: 11/12/2015 2359		Final Weight/Volume: 20 mL
Prep Date: 11/12/2015 2359		

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Methylene Chloride	0.32	U	0.32	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.32	U	0.32	1.0
N-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
Vinyl chloride	0.10	U	0.10	1.5
Dibromochloromethane	0.17	U	0.17	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	112		70 - 120
4-Bromofluorobenzene (Surr)	97		75 - 120
Dibromofluoromethane (Surr)	104		85 - 115
Toluene-d8 (Surr)	91		85 - 120

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59SW1WG1

Lab Sample ID: 280-76497-7

Date Sampled: 11/03/2015 1736

Client Matrix: Water

Date Received: 11/06/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 280-303876	Instrument ID: VMS_R1
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: R2233.D
Dilution: 1.0		Initial Weight/Volume: 20 mL
Analysis Date: 11/13/2015 0018		Final Weight/Volume: 20 mL
Prep Date: 11/13/2015 0018		

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.17	U	0.17	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2,2-Tetrachloroethane	0.20	U	0.20	1.0
1,1,2-Trichloroethane	0.32	U	0.32	1.0
1,1-Dichloroethane	0.16	U	0.16	1.0
1,1-Dichloroethene	0.14	U	0.14	1.0
1,1-Dichloropropene	0.15	U	0.15	1.0
1,2,3-Trichlorobenzene	0.18	U	0.18	1.0
1,2,3-Trichloropropane	0.77	U	0.77	3.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.14	U	0.14	1.0
1,2-Dibromo-3-Chloropropane	0.81	U	0.81	5.0
1,2-Dichlorobenzene	0.13	U	0.13	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,2-Dichloropropane	0.13	U	0.13	1.0
1,3,5-Trimethylbenzene	0.14	U	0.14	1.0
1,3-Dichlorobenzene	0.16	U	0.16	1.0
1,3-Dichloropropane	0.15	U	0.15	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
1-Chlorohexane	0.17	U	0.17	1.0
2,2-Dichloropropane	0.20	U	0.20	1.0
2-Butanone (MEK)	1.8	U	1.8	6.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.17	U	0.17	1.0
4-Isopropyltoluene	0.17	U	0.17	1.0
4-Methyl-2-pentanone (MIBK)	1.0	sm	1.0	5.0
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
Carbon tetrachloride	0.19	U	0.19	2.0
Chlorobenzene	0.17	U	0.17	1.0
Chlorobromomethane	0.10	U	0.10	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
Dibromomethane	0.17	U	0.17	1.0
Dichlorobromomethane	0.17	U	0.17	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
Ethylbenzene	0.16	U	0.16	1.0
Ethylene Dibromide	0.18	U	0.18	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
Isopropylbenzene	0.19	U	0.19	1.0
Methyl tert-butyl ether	0.25	U	0.25	5.0

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59SW1WG1

Lab Sample ID: 280-76497-7

Date Sampled: 11/03/2015 1736

Client Matrix: Water

Date Received: 11/06/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-303876	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R2233.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/13/2015 0018			Final Weight/Volume:	20 mL
Prep Date:	11/13/2015 0018				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Methylene Chloride	0.32	U	0.32	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.32	U	0.32	1.0
N-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
Vinyl chloride	0.10	U	0.10	1.5
Dibromochloromethane	0.17	U	0.17	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	110		70 - 120
4-Bromofluorobenzene (Surr)	95		75 - 120
Dibromofluoromethane (Surr)	103		85 - 115
Toluene-d8 (Surr)	89		85 - 120

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59SW3WG1

Lab Sample ID: 280-76497-8

Client Matrix: Water

Date Sampled: 11/04/2015 1110

Date Received: 11/06/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 280-303876	Instrument ID: VMS_R1
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: R2234.D
Dilution: 1.0		Initial Weight/Volume: 20 mL
Analysis Date: 11/13/2015 0038		Final Weight/Volume: 20 mL
Prep Date: 11/13/2015 0038		

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.17	U	0.17	1.0
1,1,1-Trichloroethane	0.24	FF	0.16	1.0
1,1,2,2-Tetrachloroethane	0.20	U	0.20	1.0
1,1,2-Trichloroethane	0.32	U	0.32	1.0
1,1-Dichloroethane	0.16	U	0.16	1.0
1,1-Dichloroethene	0.14	U	0.14	1.0
1,1-Dichloropropene	0.15	U	0.15	1.0
1,2,3-Trichlorobenzene	0.18	U	0.18	1.0
1,2,3-Trichloropropane	0.77	U	0.77	3.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.14	U	0.14	1.0
1,2-Dibromo-3-Chloropropane	0.81	U	0.81	5.0
1,2-Dichlorobenzene	0.13	U	0.13	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,2-Dichloropropane	0.13	U	0.13	1.0
1,3,5-Trimethylbenzene	0.14	U	0.14	1.0
1,3-Dichlorobenzene	0.16	U	0.16	1.0
1,3-Dichloropropane	0.15	U	0.15	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
1-Chlorohexane	0.17	U	0.17	1.0
2,2-Dichloropropane	0.20	U	0.20	1.0
2-Butanone (MEK)	1.8	U	1.8	6.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.17	U	0.17	1.0
4-Isopropyltoluene	0.17	U	0.17	1.0
4-Methyl-2-pentanone (MIBK)	1.0	SM	1.0	5.0
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
Carbon tetrachloride	0.19	U	0.19	2.0
Chlorobenzene	0.17	U	0.17	1.0
Chlorobromomethane	0.10	U	0.10	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
cis-1,2-Dichloroethene	0.27	FF	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
Dibromomethane	0.17	U	0.17	1.0
Dichlorobromomethane	0.17	U	0.17	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
Ethylbenzene	0.16	U	0.16	1.0
Ethylene Dibromide	0.18	U	0.18	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
Isopropylbenzene	0.19	U	0.19	1.0
Methyl tert-butyl ether	0.25	U	0.25	5.0

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59SW3WG1

Lab Sample ID: 280-76497-8

Date Sampled: 11/04/2015 1110

Client Matrix: Water

Date Received: 11/06/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 280-303876	Instrument ID: VMS_R1
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: R2234.D
Dilution: 1.0		Initial Weight/Volume: 20 mL
Analysis Date: 11/13/2015 0038		Final Weight/Volume: 20 mL
Prep Date: 11/13/2015 0038		

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Methylene Chloride	0.32	U	0.32	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.32	U	0.32	1.0
N-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
Trichloroethene	0.42	SP	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
Vinyl chloride	0.10	U	0.10	1.5
Dibromochloromethane	0.17	U	0.17	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	112		70 - 120
4-Bromofluorobenzene (Surr)	96		75 - 120
Dibromofluoromethane (Surr)	105		85 - 115
Toluene-d8 (Surr)	92		85 - 120

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59SW7WG1

Lab Sample ID: 280-76497-9

Date Sampled: 11/04/2015 1602

Client Matrix: Water

Date Received: 11/06/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 280-303876	Instrument ID: VMS_R1
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: R2235.D
Dilution: 1.0		Initial Weight/Volume: 20 mL
Analysis Date: 11/13/2015 0057		Final Weight/Volume: 20 mL
Prep Date: 11/13/2015 0057		

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.17	U	0.17	1.0
1,1,1-Trichloroethane	1.8		0.16	1.0
1,1,2,2-Tetrachloroethane	0.20	U	0.20	1.0
1,1,2-Trichloroethane	0.32	U	0.32	1.0
1,1-Dichloroethane	5.1		0.16	1.0
1,1-Dichloroethene	0.52	FF	0.14	1.0
1,1-Dichloropropene	0.15	U	0.15	1.0
1,2,3-Trichlorobenzene	0.18	U	0.18	1.0
1,2,3-Trichloropropane	0.77	U	0.77	3.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.14	U	0.14	1.0
1,2-Dibromo-3-Chloropropane	0.81	U	0.81	5.0
1,2-Dichlorobenzene	0.13	U	0.13	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,2-Dichloropropane	0.13	U	0.13	1.0
1,3,5-Trimethylbenzene	0.14	U	0.14	1.0
1,3-Dichlorobenzene	0.16	U	0.16	1.0
1,3-Dichloropropane	0.15	U	0.15	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
1-Chlorohexane	0.17	U	0.17	1.0
2,2-Dichloropropane	0.20	U	0.20	1.0
2-Butanone (MEK)	1.8	U	1.8	6.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.17	U	0.17	1.0
4-Isopropyltoluene	0.17	U	0.17	1.0
4-Methyl-2-pentanone (MIBK)	1.0	UM	1.0	5.0
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
Carbon tetrachloride	0.19	U	0.19	2.0
Chlorobenzene	0.17	U	0.17	1.0
Chlorobromomethane	0.10	U	0.10	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
cis-1,2-Dichloroethene	40		0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
Dibromomethane	0.17	U	0.17	1.0
Dichlorobromomethane	0.17	U	0.17	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
Ethylbenzene	0.16	U	0.16	1.0
Ethylene Dibromide	0.18	U	0.18	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
Isopropylbenzene	0.19	U	0.19	1.0
Methyl tert-butyl ether	0.25	U	0.25	5.0

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59SW7WG1

Lab Sample ID: 280-76497-9

Date Sampled: 11/04/2015 1602

Client Matrix: Water

Date Received: 11/06/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-303876	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R2235.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/13/2015 0057			Final Weight/Volume:	20 mL
Prep Date:	11/13/2015 0057				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Methylene Chloride	0.32	U	0.32	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.32	U	0.32	1.0
N-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Tetrachloroethene	0.70	UF	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.16	UF	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
Trichloroethene	9.5		0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
Vinyl chloride	1.2	UF	0.10	1.5
Dibromochloromethane	0.17	U	0.17	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	110		70 - 120
4-Bromofluorobenzene (Surr)	94		75 - 120
Dibromofluoromethane (Surr)	104		85 - 115
Toluene-d8 (Surr)	91		85 - 120

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59SW4WG1

Lab Sample ID: 280-76497-10

Client Matrix: Water

Date Sampled: 11/05/2015 1117

Date Received: 11/06/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B
Prep Method: 5030B
Dilution: 1.0
Analysis Date: 11/13/2015 0116
Prep Date: 11/13/2015 0116

Analysis Batch: 280-303876
Prep Batch: N/A

Instrument ID: VMS_R1
Lab File ID: R2236.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.17	U	0.17	1.0
1,1,1-Trichloroethane	0.64	UF	0.16	1.0
1,1,2,2-Tetrachloroethane	0.20	U	0.20	1.0
1,1,2-Trichloroethane	0.32	U	0.32	1.0
1,1-Dichloroethane	0.58	UF	0.16	1.0
1,1-Dichloroethene	0.14	U	0.14	1.0
1,1-Dichloropropene	0.15	U	0.15	1.0
1,2,3-Trichlorobenzene	0.18	U	0.18	1.0
1,2,3-Trichloropropane	0.77	U	0.77	3.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.14	U	0.14	1.0
1,2-Dibromo-3-Chloropropane	0.81	U	0.81	5.0
1,2-Dichlorobenzene	0.13	U	0.13	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,2-Dichloropropane	0.13	U	0.13	1.0
1,3,5-Trimethylbenzene	0.14	U	0.14	1.0
1,3-Dichlorobenzene	0.16	U	0.16	1.0
1,3-Dichloropropane	0.15	U	0.15	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
1-Chlorohexane	0.17	U	0.17	1.0
2,2-Dichloropropane	0.20	U	0.20	1.0
2-Butanone (MEK)	1.8	U	1.8	6.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.17	U	0.17	1.0
4-Isopropyltoluene	0.17	U	0.17	1.0
4-Methyl-2-pentanone (MIBK)	1.0	UF	1.0	5.0
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
Carbon tetrachloride	0.19	U	0.19	2.0
Chlorobenzene	0.17	U	0.17	1.0
Chlorobromomethane	0.10	U	0.10	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
cis-1,2-Dichloroethene	2.7		0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
Dibromomethane	0.17	U	0.17	1.0
Dichlorobromomethane	0.17	U	0.17	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
Ethylbenzene	0.16	U	0.16	1.0
Ethylene Dibromide	0.18	U	0.18	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
Isopropylbenzene	0.19	U	0.19	1.0
Methyl tert-butyl ether	0.25	U	0.25	5.0

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59SW4WG1

Lab Sample ID: 280-76497-10

Date Sampled: 11/05/2015 1117

Client Matrix: Water

Date Received: 11/06/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-303876	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R2236.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/13/2015 0116			Final Weight/Volume:	20 mL
Prep Date:	11/13/2015 0116				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Methylene Chloride	0.32	U	0.32	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.32	U	0.32	1.0
N-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Tetrachloroethene	0.32	UF	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
Trichloroethene	4.9		0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
Vinyl chloride	0.10	U	0.10	1.5
Dibromochloromethane	0.17	U	0.17	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	112		70 - 120
4-Bromofluorobenzene (Surr)	95		75 - 120
Dibromofluoromethane (Surr)	104		85 - 115
Toluene-d8 (Surr)	90		85 - 120

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59DUP01WG1

Lab Sample ID: 280-76497-11FD

Date Sampled: 11/05/2015 1203

Client Matrix: Water

Date Received: 11/06/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 280-303876	Instrument ID: VMS_R1
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: R2237.D
Dilution: 1.0		Initial Weight/Volume: 20 mL
Analysis Date: 11/13/2015 0136		Final Weight/Volume: 20 mL
Prep Date: 11/13/2015 0136		

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.17	U	0.17	1.0
1,1,1-Trichloroethane	0.66	FF	0.16	1.0
1,1,2,2-Tetrachloroethane	0.20	U	0.20	1.0
1,1,2-Trichloroethane	0.32	U	0.32	1.0
1,1-Dichloroethane	0.59	FF	0.16	1.0
1,1-Dichloroethene	0.14	U	0.14	1.0
1,1-Dichloropropene	0.15	U	0.15	1.0
1,2,3-Trichlorobenzene	0.18	U	0.18	1.0
1,2,3-Trichloropropane	0.77	U	0.77	3.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.14	U	0.14	1.0
1,2-Dibromo-3-Chloropropane	0.81	U	0.81	5.0
1,2-Dichlorobenzene	0.13	U	0.13	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,2-Dichloropropane	0.13	U	0.13	1.0
1,3,5-Trimethylbenzene	0.14	U	0.14	1.0
1,3-Dichlorobenzene	0.16	U	0.16	1.0
1,3-Dichloropropane	0.15	U	0.15	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
1-Chlorohexane	0.17	U	0.17	1.0
2,2-Dichloropropane	0.20	U	0.20	1.0
2-Butanone (MEK)	1.8	U	1.8	6.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.17	U	0.17	1.0
4-Isopropyltoluene	0.17	U	0.17	1.0
4-Methyl-2-pentanone (MIBK)	1.0	sm	1.0	5.0
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
Carbon tetrachloride	0.19	U	0.19	2.0
Chlorobenzene	0.17	U	0.17	1.0
Chlorobromomethane	0.10	U	0.10	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
cis-1,2-Dichloroethene	2.8		0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
Dibromomethane	0.17	U	0.17	1.0
Dichlorobromomethane	0.17	U	0.17	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
Ethylbenzene	0.16	U	0.16	1.0
Ethylene Dibromide	0.18	U	0.18	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
Isopropylbenzene	0.19	U	0.19	1.0
Methyl tert-butyl ether	0.25	U	0.25	5.0

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59DUP01WG1

Lab Sample ID: 280-76497-11FD

Date Sampled: 11/05/2015 1203

Client Matrix: Water

Date Received: 11/06/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 280-303876	Instrument ID: VMS_R1
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: R2237.D
Dilution: 1.0		Initial Weight/Volume: 20 mL
Analysis Date: 11/13/2015 0136		Final Weight/Volume: 20 mL
Prep Date: 11/13/2015 0136		

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Methylene Chloride	0.32	U	0.32	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.32	U	0.32	1.0
N-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Tetrachloroethene	0.32	UF	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
Trichloroethene	5.2		0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
Vinyl chloride	0.10	U	0.10	1.5
Dibromochloromethane	0.17	U	0.17	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	115		70 - 120
4-Bromofluorobenzene (Surr)	97		75 - 120
Dibromofluoromethane (Surr)	108		85 - 115
Toluene-d8 (Surr)	93		85 - 120

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59AB110515

Lab Sample ID: 280-76497-13FB

Date Sampled: 11/05/2015 1106

Client Matrix: Water

Date Received: 11/06/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 280-303876	Instrument ID: VMS_R1
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: R2238.D
Dilution: 1.0		Initial Weight/Volume: 20 mL
Analysis Date: 11/13/2015 0155		Final Weight/Volume: 20 mL
Prep Date: 11/13/2015 0155		

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.17	U	0.17	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2,2-Tetrachloroethane	0.20	U	0.20	1.0
1,1,2-Trichloroethane	0.32	U	0.32	1.0
1,1-Dichloroethane	0.16	U	0.16	1.0
1,1-Dichloroethene	0.14	U	0.14	1.0
1,1-Dichloropropene	0.15	U	0.15	1.0
1,2,3-Trichlorobenzene	0.18	U	0.18	1.0
1,2,3-Trichloropropane	0.77	U	0.77	3.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.14	U	0.14	1.0
1,2-Dibromo-3-Chloropropane	0.81	U	0.81	5.0
1,2-Dichlorobenzene	0.13	U	0.13	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,2-Dichloropropane	0.13	U	0.13	1.0
1,3,5-Trimethylbenzene	0.14	U	0.14	1.0
1,3-Dichlorobenzene	0.16	U	0.16	1.0
1,3-Dichloropropane	0.15	U	0.15	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
1-Chlorohexane	0.17	U	0.17	1.0
2,2-Dichloropropane	0.20	U	0.20	1.0
2-Butanone (MEK)	1.8	U	1.8	6.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.17	U	0.17	1.0
4-Isopropyltoluene	0.17	U	0.17	1.0
4-Methyl-2-pentanone (MIBK)	1.0	U	1.0	5.0
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
Carbon tetrachloride	0.19	U	0.19	2.0
Chlorobenzene	0.17	U	0.17	1.0
Chlorobromomethane	0.10	U	0.10	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
Dibromomethane	0.17	U	0.17	1.0
Dichlorobromomethane	0.17	U	0.17	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
Ethylbenzene	0.16	U	0.16	1.0
Ethylene Dibromide	0.18	U	0.18	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
Isopropylbenzene	0.19	U	0.19	1.0
Methyl tert-butyl ether	0.25	U	0.25	5.0

AR 12/23/15

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59AB110515

Lab Sample ID: 280-76497-13FB

Client Matrix: Water

Date Sampled: 11/05/2015 1106

Date Received: 11/06/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-303876	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R2238.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/13/2015 0155			Final Weight/Volume:	20 mL
Prep Date:	11/13/2015 0155				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Methylene Chloride	0.32	U	0.32	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.32	U	0.32	1.0
N-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
Vinyl chloride	0.10	U	0.10	1.5
Dibromochloromethane	0.17	U	0.17	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	113		70 - 120
4-Bromofluorobenzene (Surr)	97		75 - 120
Dibromofluoromethane (Surr)	105		85 - 115
Toluene-d8 (Surr)	92		85 - 120

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59EB110515

Lab Sample ID: 280-76497-14EB

Date Sampled: 11/05/2015 1220

Client Matrix: Water

Date Received: 11/06/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 280-304402	Instrument ID: VMS_Z
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: Z2553.D
Dilution: 1.0		Initial Weight/Volume: 20 mL
Analysis Date: 11/17/2015 0816		Final Weight/Volume: 20 mL
Prep Date: 11/17/2015 0816		

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.17	U	0.17	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2,2-Tetrachloroethane	0.20	U	0.20	1.0
1,1,2-Trichloroethane	0.32	U	0.32	1.0
1,1-Dichloroethane	0.16	U	0.16	1.0
1,1-Dichloroethene	0.14	U	0.14	1.0
1,1-Dichloropropene	0.15	U	0.15	1.0
1,2,3-Trichlorobenzene	0.18	U	0.18	1.0
1,2,3-Trichloropropane	0.77	U	0.77	3.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.14	U	0.14	1.0
1,2-Dibromo-3-Chloropropane	0.81	U	0.81	5.0
1,2-Dichlorobenzene	0.13	U	0.13	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,2-Dichloropropane	0.13	U	0.13	1.0
1,3,5-Trimethylbenzene	0.14	U	0.14	1.0
1,3-Dichlorobenzene	0.16	U	0.16	1.0
1,3-Dichloropropane	0.15	U	0.15	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
1-Chlorohexane	0.17	U	0.17	1.0
2,2-Dichloropropane	0.20	U	0.20	1.0
2-Butanone (MEK)	1.8	U	1.8	6.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.17	U	0.17	1.0
4-Isopropyltoluene	0.17	U	0.17	1.0
4-Methyl-2-pentanone (MIBK)	1.0	U	1.0	5.0
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
Carbon tetrachloride	0.19	U	0.19	2.0
Chlorobenzene	0.17	U	0.17	1.0
Chlorobromomethane	0.10	U	0.10	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
Dibromomethane	0.17	U	0.17	1.0
Dichlorobromomethane	0.17	U	0.17	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
Ethylbenzene	0.16	U	0.16	1.0
Ethylene Dibromide	0.18	U	0.18	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
Isopropylbenzene	0.19	U	0.19	1.0
Methyl tert-butyl ether	0.25	U	0.25	5.0

AC 12/23/15

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59EB110515

Lab Sample ID: 280-76497-14EB

Client Matrix: Water

Date Sampled: 11/05/2015 1220

Date Received: 11/06/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-304402	Instrument ID:	VMS_Z
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Z2553.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/17/2015 0816			Final Weight/Volume:	20 mL
Prep Date:	11/17/2015 0816				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Methylene Chloride	0.32	U	0.32	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.32	U	0.32	1.0
N-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
Vinyl chloride	0.10	U	0.10	1.5
Dibromochloromethane	0.17	U	0.17	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	84		70 - 120
4-Bromofluorobenzene (Surr)	95		75 - 120
Dibromofluoromethane (Surr)	94		85 - 115
Toluene-d8 (Surr)	96		85 - 120

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: TB110415

Lab Sample ID: 280-76497-15TB

Client Matrix: Water

Date Sampled: 11/04/2015 1345

Date Received: 11/06/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-303876	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R2240.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/13/2015 0233			Final Weight/Volume:	20 mL
Prep Date:	11/13/2015 0233				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.17	U	0.17	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2,2-Tetrachloroethane	0.20	U	0.20	1.0
1,1,2-Trichloroethane	0.32	U	0.32	1.0
1,1-Dichloroethane	0.16	U	0.16	1.0
1,1-Dichloroethene	0.14	U	0.14	1.0
1,1-Dichloropropene	0.15	U	0.15	1.0
1,2,3-Trichlorobenzene	0.18	U	0.18	1.0
1,2,3-Trichloropropane	0.77	U	0.77	3.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.14	U	0.14	1.0
1,2-Dibromo-3-Chloropropane	0.81	U	0.81	5.0
1,2-Dichlorobenzene	0.13	U	0.13	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,2-Dichloropropane	0.13	U	0.13	1.0
1,3,5-Trimethylbenzene	0.14	U	0.14	1.0
1,3-Dichlorobenzene	0.16	U	0.16	1.0
1,3-Dichloropropane	0.15	U	0.15	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
1-Chlorohexane	0.17	U	0.17	1.0
2,2-Dichloropropane	0.20	U	0.20	1.0
2-Butanone (MEK)	1.8	U	1.8	6.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.17	U	0.17	1.0
4-Isopropyltoluene	0.17	U	0.17	1.0
4-Methyl-2-pentanone (MIBK)	1.0	U	1.0	5.0
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
Carbon tetrachloride	0.19	U	0.19	2.0
Chlorobenzene	0.17	U	0.17	1.0
Chlorobromomethane	0.10	U	0.10	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
Dibromomethane	0.17	U	0.17	1.0
Dichlorobromomethane	0.17	U	0.17	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
Ethylbenzene	0.16	U	0.16	1.0
Ethylene Dibromide	0.18	U	0.18	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
Isopropylbenzene	0.19	U	0.19	1.0
Methyl tert-butyl ether	0.25	U	0.25	5.0

AP 12/23/15

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: TB110415

Lab Sample ID: 280-76497-15TB

Date Sampled: 11/04/2015 1345

Client Matrix: Water

Date Received: 11/06/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-303876	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R2240.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/13/2015 0233			Final Weight/Volume:	20 mL
Prep Date:	11/13/2015 0233				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Methylene Chloride	0.32	U	0.32	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.32	U	0.32	1.0
N-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
Vinyl chloride	0.10	U	0.10	1.5
Dibromochloromethane	0.17	U	0.17	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	115		70 - 120
4-Bromofluorobenzene (Surr)	96		75 - 120
Dibromofluoromethane (Surr)	106		85 - 115
Toluene-d8 (Surr)	92		85 - 120

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59JC2WG1

Lab Sample ID: 280-76497-16

Date Sampled: 11/05/2015 0845

Client Matrix: Water

Date Received: 11/06/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 280-303876	Instrument ID: VMS_R1
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: R2241.D
Dilution: 1.0		Initial Weight/Volume: 20 mL
Analysis Date: 11/13/2015 0252		Final Weight/Volume: 20 mL
Prep Date: 11/13/2015 0252		

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.17	U	0.17	1.0
1,1,1-Trichloroethane	0.33	JP	0.16	1.0
1,1,2,2-Tetrachloroethane	0.20	U	0.20	1.0
1,1,2-Trichloroethane	0.32	U	0.32	1.0
1,1-Dichloroethane	0.16	U	0.16	1.0
1,1-Dichloroethene	0.14	U	0.14	1.0
1,1-Dichloropropene	0.15	U	0.15	1.0
1,2,3-Trichlorobenzene	0.18	U	0.18	1.0
1,2,3-Trichloropropane	0.77	U	0.77	3.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.14	U	0.14	1.0
1,2-Dibromo-3-Chloropropane	0.81	U	0.81	5.0
1,2-Dichlorobenzene	0.13	U	0.13	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,2-Dichloropropane	0.13	U	0.13	1.0
1,3,5-Trimethylbenzene	0.14	U	0.14	1.0
1,3-Dichlorobenzene	0.16	U	0.16	1.0
1,3-Dichloropropane	0.15	U	0.15	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
1-Chlorohexane	0.17	U	0.17	1.0
2,2-Dichloropropane	0.20	U	0.20	1.0
2-Butanone (MEK)	1.8	U	1.8	6.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.17	U	0.17	1.0
4-Isopropyltoluene	0.17	U	0.17	1.0
4-Methyl-2-pentanone (MIBK)	1.0	sm	1.0	5.0
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
Carbon tetrachloride	0.19	U	0.19	2.0
Chlorobenzene	0.17	U	0.17	1.0
Chlorobromomethane	0.10	U	0.10	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
cis-1,2-Dichloroethene	0.24	JP	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
Dibromomethane	0.17	U	0.17	1.0
Dichlorobromomethane	0.17	U	0.17	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
Ethylbenzene	0.16	U	0.16	1.0
Ethylene Dibromide	0.18	U	0.18	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
Isopropylbenzene	0.19	U	0.19	1.0
Methyl tert-butyl ether	0.25	U	0.25	5.0

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59JC2WG1

Lab Sample ID: 280-76497-16

Date Sampled: 11/05/2015 0845

Client Matrix: Water

Date Received: 11/06/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 280-303876	Instrument ID: VMS_R1
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: R2241.D
Dilution: 1.0		Initial Weight/Volume: 20 mL
Analysis Date: 11/13/2015 0252		Final Weight/Volume: 20 mL
Prep Date: 11/13/2015 0252		

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Methylene Chloride	0.32	U	0.32	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.32	U	0.32	1.0
N-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
Trichloroethene	0.39	JP	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
Vinyl chloride	0.10	U	0.10	1.5
Dibromochloromethane	0.17	U	0.17	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	117		70 - 120
4-Bromofluorobenzene (Surr)	102		75 - 120
Dibromofluoromethane (Surr)	109		85 - 115
Toluene-d8 (Surr)	95		85 - 120

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59DW3WG1

Lab Sample ID: 280-76497-17

Date Sampled: 11/04/2015 1346

Client Matrix: Water

Date Received: 11/06/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 280-303876	Instrument ID: VMS_R1
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: R2242.D
Dilution: 1.0		Initial Weight/Volume: 20 mL
Analysis Date: 11/13/2015 0311		Final Weight/Volume: 20 mL
Prep Date: 11/13/2015 0311		

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.17	U	0.17	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2,2-Tetrachloroethane	0.20	U	0.20	1.0
1,1,2-Trichloroethane	0.32	U	0.32	1.0
1,1-Dichloroethane	0.31	sp	0.16	1.0
1,1-Dichloroethene	0.14	U	0.14	1.0
1,1-Dichloropropene	0.15	U	0.15	1.0
1,2,3-Trichlorobenzene	0.18	U	0.18	1.0
1,2,3-Trichloropropane	0.77	U	0.77	3.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.14	U	0.14	1.0
1,2-Dibromo-3-Chloropropane	0.81	U	0.81	5.0
1,2-Dichlorobenzene	0.13	U	0.13	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,2-Dichloropropane	0.13	U	0.13	1.0
1,3,5-Trimethylbenzene	0.14	U	0.14	1.0
1,3-Dichlorobenzene	0.16	U	0.16	1.0
1,3-Dichloropropane	0.15	U	0.15	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
1-Chlorohexane	0.17	U	0.17	1.0
2,2-Dichloropropane	0.20	U	0.20	1.0
2-Butanone (MEK)	1.8	U	1.8	6.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.17	U	0.17	1.0
4-Isopropyltoluene	0.17	U	0.17	1.0
4-Methyl-2-pentanone (MIBK)	1.0	um	1.0	5.0
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
Carbon tetrachloride	0.19	U	0.19	2.0
Chlorobenzene	0.17	U	0.17	1.0
Chlorobromomethane	0.10	U	0.10	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
cis-1,2-Dichloroethene	50		0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
Dibromomethane	0.17	U	0.17	1.0
Dichlorobromomethane	0.17	U	0.17	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
Ethylbenzene	0.16	U	0.16	1.0
Ethylene Dibromide	0.18	U	0.18	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
Isopropylbenzene	0.19	U	0.19	1.0
Methyl tert-butyl ether	0.25	U	0.25	5.0

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Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59DW3WG1

Lab Sample ID: 280-76497-17

Client Matrix: Water

Date Sampled: 11/04/2015 1346

Date Received: 11/06/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 280-303876	Instrument ID: VMS_R1
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: R2242.D
Dilution: 1.0		Initial Weight/Volume: 20 mL
Analysis Date: 11/13/2015 0311		Final Weight/Volume: 20 mL
Prep Date: 11/13/2015 0311		

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Methylene Chloride	0.32	U	0.32	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.32	U	0.32	1.0
N-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
Vinyl chloride	0.10	U	0.10	1.5
Dibromochloromethane	0.17	U	0.17	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	115		70 - 120
4-Bromofluorobenzene (Surr)	99		75 - 120
Dibromofluoromethane (Surr)	107		85 - 115
Toluene-d8 (Surr)	91		85 - 120

AK 12/23/15

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: TB110215

Lab Sample ID: 280-76497-18TB

Date Sampled: 11/02/2015 0800

Client Matrix: Water

Date Received: 11/06/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 280-303876	Instrument ID: VMS_R1
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: R2243.D
Dilution: 1.0		Initial Weight/Volume: 20 mL
Analysis Date: 11/13/2015 0330		Final Weight/Volume: 20 mL
Prep Date: 11/13/2015 0330		

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.17	U	0.17	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2,2-Tetrachloroethane	0.20	U	0.20	1.0
1,1,2-Trichloroethane	0.32	U	0.32	1.0
1,1-Dichloroethane	0.16	U	0.16	1.0
1,1-Dichloroethene	0.14	U	0.14	1.0
1,1-Dichloropropene	0.15	U	0.15	1.0
1,2,3-Trichlorobenzene	0.18	U	0.18	1.0
1,2,3-Trichloropropane	0.77	U	0.77	3.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.14	U	0.14	1.0
1,2-Dibromo-3-Chloropropane	0.81	U	0.81	5.0
1,2-Dichlorobenzene	0.13	U	0.13	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,2-Dichloropropane	0.13	U	0.13	1.0
1,3,5-Trimethylbenzene	0.14	U	0.14	1.0
1,3-Dichlorobenzene	0.16	U	0.16	1.0
1,3-Dichloropropane	0.15	U	0.15	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
1-Chlorohexane	0.17	U	0.17	1.0
2,2-Dichloropropane	0.20	U	0.20	1.0
2-Butanone (MEK)	1.8	U	1.8	6.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.17	U	0.17	1.0
4-Isopropyltoluene	0.17	U	0.17	1.0
4-Methyl-2-pentanone (MIBK)	1.0	U	1.0	5.0
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
Carbon tetrachloride	0.19	U	0.19	2.0
Chlorobenzene	0.17	U	0.17	1.0
Chlorobromomethane	0.10	U	0.10	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
Dibromomethane	0.17	U	0.17	1.0
Dichlorobromomethane	0.17	U	0.17	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
Ethylbenzene	0.16	U	0.16	1.0
Ethylene Dibromide	0.18	U	0.18	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
Isopropylbenzene	0.19	U	0.19	1.0
Methyl tert-butyl ether	0.25	U	0.25	5.0

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Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: TB110215

Lab Sample ID: 280-76497-18TB

Date Sampled: 11/02/2015 0800

Client Matrix: Water

Date Received: 11/06/2015 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-303876	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R2243.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/13/2015 0330			Final Weight/Volume:	20 mL
Prep Date:	11/13/2015 0330				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Methylene Chloride	0.32	U	0.32	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.32	U	0.32	1.0
N-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
Vinyl chloride	0.10	U	0.10	1.5
Dibromochloromethane	0.17	U	0.17	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	116		70 - 120
4-Bromofluorobenzene (Surr)	98		75 - 120
Dibromofluoromethane (Surr)	108		85 - 115
Toluene-d8 (Surr)	94		85 - 120

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59URS3DWG1

Lab Sample ID: 280-76497-1

Date Sampled: 11/02/2015 1609

Client Matrix: Water

Date Received: 11/06/2015 0930

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C/DoD	Analysis Batch:	280-303603	Instrument ID:	SMS_G4
Prep Method:	3520C	Prep Batch:	280-303206	Lab File ID:	G4_9950.D
Dilution:	1.0			Initial Weight/Volume:	1045.6 mL
Analysis Date:	11/11/2015 1630			Final Weight/Volume:	2 mL
Prep Date:	11/09/2015 1500			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	5.8		0.082	0.96

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	80		54 - 120

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59BM121WG1

Lab Sample ID: 280-76497-2

Client Matrix: Water

Date Sampled: 11/02/2015 1804

Date Received: 11/06/2015 0930

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270C/DoD
Prep Method: 3520C
Dilution: 1.0
Analysis Date: 11/11/2015 1650
Prep Date: 11/09/2015 1500

Analysis Batch: 280-303603
Prep Batch: 280-303206

Instrument ID: SMS_G4
Lab File ID: G4_9951.D
Initial Weight/Volume: 1041.5 mL
Final Weight/Volume: 2 mL
Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.40	JP	0.083	0.96
Surrogate	%Rec	Qualifier	Acceptance Limits	
2-Fluorobiphenyl	81		54 - 120	

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59URS2DWG1

Lab Sample ID: 280-76497-3

Date Sampled: 11/03/2015 0909

Client Matrix: Water

Date Received: 11/06/2015 0930

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270C/DoD
Prep Method: 3520C
Dilution: 1.0
Analysis Date: 11/11/2015 1710
Prep Date: 11/09/2015 1500

Analysis Batch: 280-303603
Prep Batch: 280-303206

Instrument ID: SMS_G4
Lab File ID: G4_9952.D
Initial Weight/Volume: 1043.1 mL
Final Weight/Volume: 2 mL
Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	21		0.082	0.96
Surrogate	%Rec	Qualifier	Acceptance Limits	
2-Fluorobiphenyl	81		54 - 120	

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59URS2SWG1

Lab Sample ID: 280-76497-4

Date Sampled: 11/03/2015 1138

Client Matrix: Water

Date Received: 11/06/2015 0930

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270C/DoD
Prep Method: 3520C
Dilution: 1.0
Analysis Date: 11/11/2015 1729
Prep Date: 11/09/2015 1500

Analysis Batch: 280-303603
Prep Batch: 280-303206

Instrument ID: SMS_G4
Lab File ID: G4_9953.D
Initial Weight/Volume: 1042.3 mL
Final Weight/Volume: 2 mL
Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	12		0.083	0.96

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	78		54 - 120

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59URS5SWG1

Lab Sample ID: 280-76497-5

Date Sampled: 11/03/2015 1436

Client Matrix: Water

Date Received: 11/06/2015 0930

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C/DoD	Analysis Batch:	280-303603	Instrument ID:	SMS_G4
Prep Method:	3520C	Prep Batch:	280-303206	Lab File ID:	G4_9954.D
Dilution:	1.0			Initial Weight/Volume:	1045.2 mL
Analysis Date:	11/11/2015 1749			Final Weight/Volume:	2 mL
Prep Date:	11/09/2015 1500			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.40	✓F	0.082	0.96

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	80		54 - 120

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59DW1WG1

Lab Sample ID: 280-76497-6

Date Sampled: 11/04/2015 0915

Client Matrix: Water

Date Received: 11/06/2015 0930

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270C/DoD
Prep Method: 3520C
Dilution: 1.0
Analysis Date: 11/11/2015 1848
Prep Date: 11/09/2015 1500

Analysis Batch: 280-303603
Prep Batch: 280-303206

Instrument ID: SMS_G4
Lab File ID: G4_9957.D
Initial Weight/Volume: 1048.2 mL
Final Weight/Volume: 2 mL
Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.082	U	0.082	0.95

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	77		54 - 120

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59SW1WG1

Lab Sample ID: 280-76497-7

Date Sampled: 11/03/2015 1736

Client Matrix: Water

Date Received: 11/06/2015 0930

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270C/DoD
Prep Method: 3520C
Dilution: 1.0
Analysis Date: 11/11/2015 1907
Prep Date: 11/09/2015 1500

Analysis Batch: 280-303603
Prep Batch: 280-303206

Instrument ID: SMS_G4
Lab File ID: G4_9958.D
Initial Weight/Volume: 1047.1 mL
Final Weight/Volume: 2 mL
Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.082	U	0.082	0.96

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	89		54 - 120

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59SW3WG1

Lab Sample ID: 280-76497-8

Client Matrix: Water

Date Sampled: 11/04/2015 1110

Date Received: 11/06/2015 0930

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270C/DoD
Prep Method: 3520C
Dilution: 1.0
Analysis Date: 11/11/2015 1927
Prep Date: 11/09/2015 1500

Analysis Batch: 280-303603
Prep Batch: 280-303206

Instrument ID: SMS_G4
Lab File ID: G4_9959.D
Initial Weight/Volume: 1040.8 mL
Final Weight/Volume: 2 mL
Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.083	U	0.083	0.96
Surrogate	%Rec	Qualifier	Acceptance Limits	
2-Fluorobiphenyl	80		54 - 120	

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Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59SW7WG1

Lab Sample ID: 280-76497-9

Client Matrix: Water

Date Sampled: 11/04/2015 1602

Date Received: 11/06/2015 0930

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270C/DoD
Prep Method: 3520C
Dilution: 1.0
Analysis Date: 11/11/2015 1947
Prep Date: 11/09/2015 1500

Analysis Batch: 280-303603
Prep Batch: 280-303206

Instrument ID: SMS_G4
Lab File ID: G4_9960.D
Initial Weight/Volume: 1040.5 mL
Final Weight/Volume: 2 mL
Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	6.0		0.083	0.96
Surrogate	%Rec	Qualifier	Acceptance Limits	
2-Fluorobiphenyl	89		54 - 120	

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59SW4WG1

Lab Sample ID: 280-76497-10

Date Sampled: 11/05/2015 1117

Client Matrix: Water

Date Received: 11/06/2015 0930

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C/DoD	Analysis Batch:	280-303603	Instrument ID:	SMS_G4
Prep Method:	3520C	Prep Batch:	280-303206	Lab File ID:	G4_9961.D
Dilution:	1.0			Initial Weight/Volume:	1039.7 mL
Analysis Date:	11/11/2015 2006			Final Weight/Volume:	2 mL
Prep Date:	11/09/2015 1500			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	1.6		0.083	0.96

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	90		54 - 120

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59DUP01WG1

Lab Sample ID: 280-76497-11FD

Client Matrix: Water

Date Sampled: 11/05/2015 1203

Date Received: 11/06/2015 0930

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270C/DoD

Analysis Batch: 280-303603

Instrument ID: SMS_G4

Prep Method: 3520C

Prep Batch: 280-303206

Lab File ID: G4_9962.D

Dilution: 1.0

Initial Weight/Volume: 1044 mL

Analysis Date: 11/11/2015 2026

Final Weight/Volume: 2 mL

Prep Date: 11/09/2015 1500

Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	1.6		0.082	0.96
Surrogate	%Rec	Qualifier	Acceptance Limits	
2-Fluorobiphenyl	77		54 - 120	

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59DUP02WG1

Lab Sample ID: 280-76497-12FD

Client Matrix: Water

Date Sampled: 11/04/2015 1204

Date Received: 11/06/2015 0930

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270C/DoD
Prep Method: 3520C
Dilution: 1.0
Analysis Date: 11/21/2015 1006
Prep Date: 11/11/2015 1435

Analysis Batch: 280-305166
Prep Batch: 280-303590

Instrument ID: SMS_G4
Lab File ID: G4_0060.D
Initial Weight/Volume: 1045.4 mL
Final Weight/Volume: 2 mL
Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	8.1		0.082	0.96
Surrogate	%Rec	Qualifier	Acceptance Limits	
2-Fluorobiphenyl	78		54 - 120	

AK 12/23/15

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59EB110515

Lab Sample ID: 280-76497-14EB

Client Matrix: Water

Date Sampled: 11/05/2015 1220

Date Received: 11/06/2015 0930

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C/DoD	Analysis Batch:	280-303603	Instrument ID:	SMS_G4
Prep Method:	3520C	Prep Batch:	280-303206	Lab File ID:	G4_9963.D
Dilution:	1.0			Initial Weight/Volume:	1041.3 mL
Analysis Date:	11/11/2015 2046			Final Weight/Volume:	2 mL
Prep Date:	11/09/2015 1500			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.083	U	0.083	0.96

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	86		54 - 120

Analytical Data

Client: HydroGeoLogic Inc

Job Number: 280-76497-1

Client Sample ID: 59DW3WG1

Lab Sample ID: 280-76497-17

Client Matrix: Water

Date Sampled: 11/04/2015 1346

Date Received: 11/06/2015 0930

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C/DoD	Analysis Batch:	280-303603	Instrument ID:	SMS_G4
Prep Method:	3520C	Prep Batch:	280-303206	Lab File ID:	G4_9964.D
Dilution:	1.0			Initial Weight/Volume:	1040.7 mL
Analysis Date:	11/11/2015 2106			Final Weight/Volume:	2 mL
Prep Date:	11/09/2015 1500			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	6.7		0.083	0.96

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	73		54 - 120

Semi-Volatile
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 384963
Lab Sample ID: 384963001Date Collected: 11/05/2015 08:45
Date Received: 11/06/2015 09:40
Client: HGLG007
Method: EPA 522
Inst: MSD6.I
Analyst: LOF
Aliquot: 100 mL
RTX-624Matrix: WATER
Project: HGLG00714
SOP Ref: GL-OA-E-073
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 2 mL

CAS No.	Parmname	Qualifier	Result	Units	MDL	LOD	LOQ
123-91-1	1,4-Dioxane	XF	0.896	ug/L	0.320	0.320	1.00

XF 12/23/25

ATTACHMENT 3
DATA VALIDATION REPORT

Volatile Organic Compounds
SW-846 Method 8260B
USEPA Level II Review

Site: Air Force Plant 59	SDG #: 280-76497-1
Laboratory: TestAmerica Laboratories	Date: 12/23/2015
HydroGeoLogic, Inc. Reviewer: Andrea Fletcher Peer Reviewer: Joseph Vilain (12/23/15)	Project: GS2049.05.01

Client Sample ID	Laboratory Sample ID	Analysis Batch	Matrix
59URS3DWG1	280-76497-1	280-303876	Groundwater
59BM121WG1	280-76497-2	280-303876	Groundwater
59URS2DWG1	280-76497-3	280-303876	Groundwater
59URS2SWG1	280-76497-4	280-303876	Groundwater
59URS5SWG1	280-76497-5	280-303876	Groundwater
59DW1WG1	280-76497-6	280-303876	Groundwater
59SW1WG1	280-76497-7	280-303876	Groundwater
59SW3WG1	280-76497-8	280-303876	Groundwater
59SW7WG1	280-76497-9	280-303876	Groundwater
59SW4WG1	280-76497-10	280-303876	Groundwater
59DUP01WG1	280-76497-11FD	280-303876	Groundwater
59AB110515	280-76497-13FB	280-303876	Water QC
59EB110515	280-76497-14EB	280-304402	Water QC
TB110415	280-76497-15TB	280-303876	Water QC
59JC2WG1	280-76497-16	280-303876	Groundwater
59DW3WG1	280-76497-17	280-303876	Groundwater
TB110215	280-76497-18TB	280-303876	Water QC

Narrative and Completeness Review – The case narrative and data package were checked for completeness. No discrepancies were noted.

Qualification: None required.

Sample Delivery and Condition – All samples arrived at the laboratory in acceptable condition and temperature and were properly preserved. Proper custody was documented.

Qualification: None required.

Holding Times – The samples were analyzed within the 14-day holding time required by the QAPP for preserved aqueous samples

Qualification: None required.

Surrogates – The laboratory reported different control limits for all VOC surrogates than were established in the QAPP; those limits listed in the QAPP were used to evaluate the data.

All surrogate recoveries were within the control limits specified in the QAPP.

Qualification: None required.

Laboratory Control Sample – The laboratory reported different recovery and RPD limits for all target analytes than were established in the QAPP; those limits listed in the QAPP were used to evaluate the data.

One LCS was associated with the samples in this SDG. The LCS met the %R control limits established in the QAPP.

Qualification: None required.

MS/MSD – The laboratory reported different recovery and RPD limits for all target analytes than were established in the QAPP; those limits listed in the QAPP were used to evaluate the data.

Matrix spike/matrix spike duplicate analyses were performed for all target VOCs on sample 59URS5SWG1 from this SDG. The %R and RPD results were within the QAPP control limits with the exception of the RPD for 4-methyl-2-pentanone (21% RPD, limit RPD < 20%). All results are qualified M.

***Qualification:* All 4-methyl-2-pentanone results are qualified M.**

Laboratory Duplicate – Laboratory duplicate analyses were not requested or performed on a sample from this SDG.

Qualification: None required.

Method Blank – One method blank is associated with the samples in this SDG. The method blank analyzed on 11/12/15 was free from contamination.

Qualification: None required.

Field Blanks – One equipment blank, identified as 59EB110515, was associated with all samples in this SDG and was free from contamination. One ambient blank, identified as 59AB110515, was associated with all samples in this SDG and was free from contamination.

Qualification: None required.

Trip Blank – Two trip blanks, identified as TB110215 and TB110415, were associated with all samples in this SDG and were free from contamination.

Qualification: None required.

Field Duplicate – Sample 59DUP01WG1 is a field duplicate of sample 59SW4WG1. All calculated RPDs were within the control limits established in the QAPP for the duplicate pair.

Qualification: None required.

Compound Quantitation – Analyte non-detections were reported as “ND”; these results should be considered the equivalent of “MDL U.” Analyte detections below the RL were reported as J-qualified results. These J qualifiers should be changed to F qualifiers per the QAPP instructions, unless superseded by a more severe qualifier. Due to a target analyte concentration, sample 59UR52DWG1 was reanalyzed at 4x dilution. The diluted results should be considered the definitive result and the non-diluted results should have an X appended to the laboratory-applied qualifier.

Qualification: All diluted results for sample 59URS2DWG1 except for cis-1,2-dichloroethene, has an X appended to it, cis-1,2-dichloroethene in original analysis has an X appended to it. The diluted cis-1,2-dichloroethene result should be considered the definitive result. All laboratory detections below the RL are qualified F.

Sample	Analyte	Lab Value	Lab Qualifier	Validated Value	Validated Qualifier
59URS3DWG1	4-Methyl-2-pentanone	1.0	U	1.0	M
	cis-1,2-Dichloroethene	0.90	J	0.90	F
59BM121WG1	4-Methyl-2-pentanone	1.0	UQ	1.0	U
59URS2DWG1 (Original run)	1,1-Dichloroethane	0.20	J	0.20	F
	4-Methyl-2-pentanone	1.0	U	1.0	M
	cis-1,2-Dichloroethene	60	J	60	JX
59URS2DWG1 (Dilution 4x)	cis-1,2-Dichloroethene	61	D	Report this Value	
	All other results	Varies	U	Varies	UX
59URS2SWG1	4-Methyl-2-pentanone	1.0	U	1.0	M
59URS5SWG1	1,1,1-Trichloroethane	0.52	J	0.52	F
	4-Methyl-2-pentanone	1.0	U	1.0	M
	Trichloroethene	0.56	J	0.56	F
59DW1WG1	4-Methyl-2-pentanone	1.0	U	1.0	M
59SW1WG1	4-Methyl-2-pentanone	1.0	U	1.0	M
59SW3WG1	1,1,1-Trichloroethane	0.24	J	0.24	F
	4-Methyl-2-pentanone	1.0	U	1.0	M
	cis-1,2-Dichloroethene	0.27	J	0.27	F
	Trichloroethene	0.42	J	0.42	F
59SW7WG1	1,1-Dichloroethene	0.52	J	0.52	F
	4-Methyl-2-pentanone	1.0	U	1.0	M
	Tetrachloroethene	0.70	J	0.70	F
	trans-1,2-Dichloroethene	0.16	J	0.16	F
	Vinyl chloride	1.2	J	1.2	F
59SW4WG1	1,1,1-Trichloroethane	0.64	J	0.64	F

	1,1-Dichloroethane	0.58	J	0.58	F
	4-Methyl-2-pentanone	1.0	U	1.0	M
	Tetrachloroethene	0.32	J	0.32	F
59DUP01WG1	1,1,1-Trichloroethane	0.66	J	0.66	F
	1,1-Dichloroethane	0.59	J	0.59	F
	4-Methyl-2-pentanone	1.0	U	1.0	M
	Tetrachloroethene	0.32	J	0.32	F
59JC2WG1	1,1,1-Trichloroethane	0.33	J	0.33	F
	4-Methyl-2-pentanone	1.0	U	1.0	M
	cis-1,2-Dichloroethene	0.24	J	0.24	F
	Trichloroethene	0.39	J	0.39	F
59DW3WG1	1,1-Dichloroethane	0.31	J	0.31	F
	4-Methyl-2-pentanone	1.0	U	1.0	M

1,4-Dioxane
SW-846 Method 8270C-SIM
USEPA Level II Review

Site: Air Force Plant 59	SDG #: 280-76497
Laboratory: Test America Laboratories	Date: 12/23/15
HydroGeoLogic, Inc. Reviewer: Andrea Fletcher Peer Reviewer: Joseph Vilain (12/23/15)	Project: GS2049.05.01

Client Sample ID	Laboratory Sample ID	Analysis/Prep Batch	Matrix
59URS3DWG1	280-76497-1	280-303603/280-303206	Groundwater
59BM121WG1	280-76497-2	280-303603/280-303206	Groundwater
59URS2DWG1	280-76497-3	280-303603/280-303206	Groundwater
59URS2SWG1	280-76497-4	280-303603/280-303206	Groundwater
59URS5SWG1	280-76497-5	280-303603/280-303206	Groundwater
59DW1WG1	280-76497-6	280-303603/280-303206	Groundwater
59SW1WG1	280-76497-7	280-303603/280-303206	Groundwater
59SW3WG1	280-76497-8	280-303603/280-303206	Groundwater
59SW7WG1	280-76497-9	280-303603/280-303206	Groundwater
59SW4WG1	280-76497-10	280-303603/280-303206	Groundwater
59DUP01WG1	280-76497-11FD	280-303603/280-303206	Groundwater
59DUP02WG1	280-76497-12FD	280-305166/280-303590	Groundwater
59EB110515	280-76497-14FB	280-303603/280-303206	Water QC
59DW3WG1	280-76497-17	280-303603/280-303206	Groundwater

Narrative and Completeness Review – The case narrative and data package were checked for completeness. No discrepancies were noted.

Qualification: None required.

Sample Delivery and Condition – All samples arrived at the laboratory in acceptable condition and temperature and were properly preserved. Proper custody was documented.

Qualification: None required.

Holding Times – All samples were extracted within the 7-day holding time required by the QAPP and analyzed within 40 days of extraction.

Qualification: None required.

Surrogates – All surrogate recoveries were within the control limits specified by the laboratory.

Qualification: None required.

Laboratory Control Sample – The laboratory reported different recovery and RPD limits for 1,4-dioxane than were established in the QAPP; those limits listed in the QAPP were used to evaluate the data. The LCS for batch 280-303206 met the %R control limit established in the QAPP. The LCS/LCSD for batch 280-303590 met the %R and RPD limits.

Qualification: None required.

MS/MSD – The laboratory reported different recovery and RPD limits for 1,4-dioxane than were established in the QAPP; those limits listed in the QAPP were used to evaluate the data.

Matrix spike/matrix spike duplicate analyses were performed for 1,4-dioxane on sample 59JC2WG1 from this SDG. The %R and RPD results were within the QAPP control limits.

Qualification: None required.

Laboratory Duplicate – Laboratory duplicate analyses were not requested or performed on a sample from this SDG.

Qualification: None required.

Method Blank – Two method blanks were associated with the samples in this SDG. The method blanks analyzed on 11/11/15 and 11/21/15, for batches 280-303206 and 280-303590, respectively, were free from contamination.

Qualification: None required.

Equipment Blank – One equipment blank, identified as 59EB110515, was associated with all samples in this SDG and was free from contamination.

Qualification: None required.

Field Duplicate – Sample 59DUP01WG1 was a field duplicate of sample 59SW4WG1 with a calculated RPD of 0%. Sample 59DUP02WG1 was a field duplicate of sample 59DW3WG1 with a calculated RPD of 18.9%. All RPDs were within the control limits established in the QAPP for duplicate pairs.

Qualification: None required.

Compound Quantitation – Analyte non-detections were reported as “ND”; these results should be considered the equivalent of “MDL U.” Analyte detections below the RL were reported as J-qualified results. These J qualifiers should be changed to F qualifiers per the QAPP instructions, unless superseded by a more severe qualifier.

Qualification: None required.

Qualification Summary Table (results in $\mu\text{g/L}$):

Sample	Analyte	Lab Value	Lab Qualifier	Validated Value	Validated Qualifier
59URS3DWG1	1,4-Dioxane	No qualification required.			
59BM121WG1	1,4-Dioxane	0.40	J	0.40	F
59URS2DWG1	1,4-Dioxane	No qualification required.			
59URS2SWG1	1,4-Dioxane	No qualification required.			
59URS5SWG1	1,4-Dioxane	0.40	J	0.40	F
59DW1WG1	1,4-Dioxane	No qualification required.			
59SW1WG1	1,4-Dioxane	No qualification required.			
59SW3WG1	1,4-Dioxane	No qualification required.			
59SW7WG1	1,4-Dioxane	No qualification required.			
59SW4WG1	1,4-Dioxane	No qualification required.			
59DUP01WG1	1,4-Dioxane	No qualification required.			
59DUP02WG1	1,4-Dioxane	No qualification required.			
59DW3WG1	1,4-Dioxane	No qualification required.			

1,4-Dioxane
SW-846 Method 522
USEPA Level II Review

Site: Air Force Plant 59	SDG #: 384963
Laboratory: GEL Laboratories	Date: 12/23/2015
HydroGeoLogic, Inc. Reviewer: Andrea Fletcher Peer Reviewer: Joseph Vilain (12/23/15)	Project: GS2049.05.01

Client Sample ID	Laboratory Sample ID	Analysis/Prep Batch	Matrix
59JC2WG1	384963001	1522680/1522679	Groundwater

Narrative and Completeness Review – The case narrative and data package were checked for completeness. No discrepancies were noted.

Qualification: None required.

Sample Delivery and Condition – The sample arrived at the laboratory in acceptable condition and temperature and was properly preserved. Proper custody was documented.

Qualification: None required.

Holding Times – The sample was extracted within the 28-day holding time required by the method.

Qualification: None required.

Surrogates – All surrogate recoveries were within the control limits specified by the laboratory.

Qualification: None required.

Laboratory Control Sample – The laboratory reported different recovery and RPD limits for 1,4-dioxane than were established in the QAPP; those limits listed in the QAPP were used to evaluate the data. One LCS was associated with the sample in this SDG and met the %R control limit established in the QAPP.

Qualification: None required.

MS/MSD – The laboratory reported different recovery and RPD limits for 1,4-dioxane than were established in the QAPP; those limits listed in the QAPP were used to evaluate the data.

Matrix spike/matrix spike duplicate analyses were performed for 1,4-dioxane on sample 59JC2WG1 from this SDG. The %R and RPD results were within the QAPP control limits.

Qualification: None required.

Laboratory Duplicate – Laboratory duplicate analyses were not requested or performed on a sample from this SDG.

Qualification: None required.

Method Blank – One method blank was associated with the sample in this SDG. The method blank analyzed on 11/20/2015 was free from contamination.

Qualification: None required.

Equipment Blank – An equipment blank was not submitted with this sample.

Qualification: None required.

Field Duplicate – A field duplicate was not submitted with this sample.

Qualification: None required.

Compound Quantitation – Analyte non-detections were reported as “ND”; these results should be considered the equivalent of “MDL U.” Analyte detections below the RL were reported as J-qualified results. These J qualifiers should be changed to F qualifiers per the QAPP instructions, unless superseded by a more severe qualifier.

Qualification: The J flag applied by the laboratory was changed to F.

Qualification Summary Table (results in $\mu\text{g/L}$):

Sample	Analyte	Lab Value	Lab Qualifier	Validated Value	Validated Qualifier
59JC2WG1	1,4-Dioxane	0.896	J	0.896	F

ATTACHMENT 4

DATA QUALIFIERS

Attachment 4

Data Qualifiers

Qualifier	Description
J	The analyte was positively identified, the quantitation is an estimation.
U	The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.
F	The analyte was positively identified but the associated numerical value is below the RL.
Q	One or more quality control criteria (for example, LCS recovery, surrogate spike recovery) failed. Data must be carefully assessed by the prime contractor (or project team) with respect to the project-specific requirements and evaluated for usability. Subsequent assessment by DOD may result in rejection of data.
B	The analyte was found in an associated blank above ½ the RL, as well as in the sample.
M	A matrix effect was present
S	To be applied to all field screening data.
T	Tentatively identified compound: The analyte is a tentatively identified compound (mass spectrometry methods only).