



Weston Solutions, Inc.  
1400 Weston Way  
West Chester, PA 19380  
610-701-3000 • Fax 610-701-3186  
[www.westonsolutions.com](http://www.westonsolutions.com)



January 26, 2018

U.S. Environmental Protection Agency Region III  
Ms. Kelley Chase  
On-Scene Coordinator  
1650 Arch Street  
Philadelphia, Pennsylvania 19103

Subject: Final Trip Report – Removal Site Evaluation

Project: Newark South Groundwater Plume Site  
EPA Contract No.: EP-S3-15-02  
TDD No.: W501-16-10-003

Document Control No.: W0129.1F.02221

Dear Ms. Chase:

Weston Solutions, Inc. (WESTON®) is submitting the Final Trip Report for the Newark South Groundwater Plume Site (the Site). This Trip Report summarizes the field activities and analytical results of the sampling conducted at the Site from January 31, 2017 to September 27, 2017. If you have any questions regarding this report, please call me at (610) 701-3791.

Sincerely,

WESTON SOLUTIONS, INC.



Project Task Lead

Enclosure

cc: TDD File



(WESTON)

# **FINAL TRIP REPORT**

## **NEWARK SOUTH GROUNDWATER PLUME NEWARK, NEW CASTLE DELAWARE**

**EPA CONTRACT NO.: EP-S3-15-02  
TECHNICAL DIRECTION DOCUMENT NO.: W501-16-10-003  
DOCUMENT CONTROL NO.: W0129.1F.02221**

*Prepared For:*



**U.S. Environmental Protection Agency Region III  
Hazardous Site Cleanup Division  
1650 Arch Street  
Philadelphia, PA 19103**

*Prepared By:*



**Weston Solutions, Inc.  
1400 Weston Way  
West Chester, PA 19380**

**January 2018**

**FINAL**  
**TRIP REPORT**  
**NEWARK SOUTH GROUNDWATER PLUME**  
**NEWARK, NEW CASTLE COUNTY, DELAWARE**

[REDACTED]

WESTON – Project Task Lead

[REDACTED]

01/08/2018

Date

[REDACTED]

WESTON – Project Work Scope Manager

[REDACTED]

01/08/2018

Date

USEPA – On-Scene Coordinator  
Kelley Chase

Date



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## LIST OF ACRONYMS AND ABBREVIATIONS

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%	percent
°C	degree Celsius
bgs	below ground surface
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CLP	Contract Laboratory Program
COC	Contaminant of Concern
CRQL	Contract Required Quantitation Limit
DCE	1,1-Dichloroethene
DO	Dissolved Oxygen
DNREC	Delaware Department of Natural Resources and Environmental Control
EPA	United States Environmental Protection Agency
ERT	Environmental Response Team
HQ	Hazard Quotient
L/min	liters per minute
MCL	Maximum Contaminant Level
MSL	mean sea level
µg/L	micrograms per liter
MW	monitoring well
mV	millivolt
NAD83	North American Datum of 1983
NAVD88	North American Vertical Datum of 1988
NPL	National Priority List
Site	Newark South Groundwater Plume Site
OLEM	Office of Land and Emergency Management
ORP	Oxygen Reduction Potential
OSC	On-Scene Coordinator
OSWER	Office of Solid Waste and Emergency Response
PA	Preliminary Assessment
PCE	tetrachloroethylene
PID	photoionization detector
ppb	parts per billion



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## LIST OF ACRONYMS AND ABBREVIATIONS (CONTINUED)

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PPC	Pencader Plaza Cleaners
PVC	polyvinyl chloride
RAS	Routine Analytical Services
SI	Site Inspection
SOP	Standard Operating Procedure
SOW	Statement of Work
START	Superfund Technical Assessment and Response Team
TCA	1,1,1-trichloroethane
TCE	trichloroethylene
TDD	Technical Direction Document
VISLs	Vapor Intrusion Screening Levels
VOC	volatile organic compound
WESTON®	Weston Solutions, Inc.

## 1.0 INTRODUCTION

Under the Eastern Area Superfund Technical Assessment and Response Team (START) Contract No. EP-S3-15-02, Technical Direction Document (TDD) No. W501-16-10-003, the U.S. Environmental Protection Agency (EPA) Region III tasked Weston Solutions, Inc. (WESTON®) to install groundwater monitoring wells at the Newark South Groundwater Plume Site (the Site) located in Newark, New Castle County, Delaware. Following installation and development of the monitoring wells, groundwater samples were collected from each of the wells for analysis of volatile organic compounds (VOCs).

The objective of this sampling is to determine whether the presence of VOCs in groundwater, mainly tetrachloroethene (PCE) and trichloroethene (TCE), pose the potential for vapor intrusion to nearby residences and businesses. To achieve this objective, START collected groundwater samples from newly installed and existing groundwater monitoring wells. All groundwater monitoring well locations and sampling locations were identified by the On-Scene Coordinator (OSC) based upon field conditions and previous sampling results. The groundwater analytical results were compared to the Newark South Residential Groundwater Vapor Intrusion Screening levels (VISLs).

## 2.0 BACKGROUND

This section describes the site location, presents a description of the Site, and discusses the site history.

### 2.1 SITE LOCATION

The Site is located in Newark, New Castle County, Delaware, as shown on Figure 1. The Site is generally bound by Route 72 (South Chapel Street) to the east, I-95 to the south, Robscott Manor housing development to the west and Route 4 (Chestnut Hill Road) to the North, as depicted on Figure 2. The approximate geographic coordinates of the center of the Site are 39.65374° north latitude and -75.73538° west longitude.

## 2.2 SITE DESCRIPTION

The Site encompasses approximately 50 parcels covering roughly 164 acres (0.25 square miles). The Site is bisected north to south by the Conrail line and east to west by Bellevue Road. As shown on Figure 2, the Site is situated among housing developments, farmland, and commercial and industrial complexes. The Site comprises mixed use properties, including fabrication, retail, warehousing, research and development, production, commercial facilities and vacant land. The U.S. Geological Survey quarter quad indicates that the topography of the Site slopes in a southerly direction from 90 feet at Route 4 (Chestnut Hill Road) to 70 feet at I-95.

## 2.3 SITE HISTORY AND PREVIOUS INVESTIGATIONS

In 2002, Delaware Department of Natural Resources and Environmental Control (DNREC) completed a source water assessment of the City of Newark public supply wells. Analytical results of samples collected from the South Well Field public supply wells revealed that Public Supply Wells 11, 13, and 14 contained PCE. The concentration of PCE in Public Supply Well 11 were above the EPA Maximum Contaminant Level (MCL) of 5 micrograms per liter ( $\mu\text{g/L}$ ). Public Supply Well 15 contained concentrations of 1,1,1-trichloroethane (TCA), TCE, and 1,1-dichloroethene (DCE); however, concentrations of these three VOCs were detected below their respective MCLs of 200  $\mu\text{g/L}$ , 5  $\mu\text{g/L}$ , and 70  $\mu\text{g/L}$ , respectively (DNREC, 2002). Continued sampling of the wells has shown PCE contamination as high as 61  $\mu\text{g/L}$ , 6.36  $\mu\text{g/L}$ , 9.1  $\mu\text{g/L}$ , 51.9  $\mu\text{g/L}$ , 9.9  $\mu\text{g/L}$  in wells 10, 11, 13, 14, and 15, respectively (DNREC, 2015a). Since 2002, numerous environmental investigations have been conducted throughout the Site area by individual companies on their properties, including Dow Chemical (formerly Rohm & Hass and Rodel, Inc), DuPont, General Electric, PermaFlex Rollers, and Pencader Dry Cleaners. Analytical results of groundwater samples collected from installed wells on these properties confirm the presence of PCE in seven of the eight monitoring wells. TCE was detected in one. (DNREC, 2015a).

In 2004, the City of Newark installed a booster pump station and aeration system at the South Well Field for the removal of VOCs in groundwater (DNREC, 2015b). In 2010, DNREC completed a Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) Preliminary Assessment (PA) of the Site. Results of the PA identified numerous potential sources for

the VOCs in groundwater and determined further CERCLA action was warranted due to the contamination in the public supply wells (DNREC, 2010).

In 2015, DNREC conducted a CERCLA Site Inspection (SI) of the Site, which included the installation of monitoring wells and the collection of groundwater samples. The primary contaminant of concern (COC) in this investigation was PCE and related degradation products, TCE in particular. PCE was detected in seven of the eight monitoring wells and TCE was detected in one well. The highest exceedance of PCE was in Monitoring Well (MW) 10 at 42 parts per billion (ppb). The second highest exceedance was in MW16 at 22 ppb. MW16 also had the only detection of TCE at 4 ppb (DNREC, 2015a).

The State of Delaware has referred the Site to EPA for further consideration. EPA is considering the Site for potential inclusion on the National Priorities List (NPL).

### **3.0 SITE ACTIVITIES**

From January 31 through February 15, 2017, and from September 25 through September 27, 2017, WESTON installed 9 groundwater monitoring wells and conducted two groundwater monitoring well sampling events as outlined in the Final Field Sampling Plan – Groundwater and Sub-slab Air Sampling for the Newark South Groundwater Plume Site (WESTON, 2017). There were no deviations from the Site sampling plan. WESTON documented site activities in accordance with WESTON Standard Operating Procedure (SOP) No. 101, Logbook Documentation (WESTON, 2015). This section discusses sampling activities conducted during this assessment.

#### **3.1 GROUNDWATER MONITORING WELL INSTALLATION AND DEVELOPMENT**

From January 31 through February 8, 2017, WESTON, along with its subcontractor, Eichelbergers Inc., installed a total of nine monitoring wells on the Site identified as MW-21, MW-22-Shallow, MW-22-Deep, MW-23, MW-24, MW-25, MW-26-Shallow, MW-26 Deep, and MW-27. Prior to conducting well installation activities, utility clearances were provided by the Delaware Miss Utility (One Call). Known utilities were marked with paint on the ground. Following the clearance of the nine new groundwater monitoring well locations, WESTON and Eichelbergers Inc. mobilized to the Site to

perform soil boring and well installation activities. Eichelbergers Inc. soft dug each well location down to 5 feet below ground surface (bgs) to ensure the clearance of underground utilities. Continuous Geoprobe® soil cores from each new well location were collected in dedicated, 5-foot-long acetate sleeves, logged for lithological characteristics, and screened for the presence of organic vapors using a calibrated photoionization detector (PID). Soil samples were collected by EPA and DNREC and were analyzed for VOC concentrations at DNREC's Environmental Laboratory. There were no elevated PID readings collected from the soil borings or significant detections of VOCs in any of the collected soil samples. Boring logs are included in Appendix A. The locations of the wells are provided on Figure 3, PCE Results.

WESTON conducted well installation activities in accordance with EPA Environmental Response Team (ERT) SOP No. 2050, Model 7822DT Geoprobe® Operation (EPA ERT, 2015). Groundwater was encountered between approximately 13 to 24 feet bgs. The majority of the monitoring wells were drilled and installed to a maximum depth of 30 feet bgs (target depth of 8 feet below water table) with a 10-foot screened interval inserted at the top of the water table (For example: water level – 12 feet bgs; total depth of well – 20 feet bgs; screened interval – 10 to 20 feet bgs). The screens were installed such that about 2 feet of screen is above the top of the water table and 8 feet below. Two wells were drilled and installed to a depth of approximately 50 feet bgs. The wells were constructed using a 1-inch inner diameter polyvinyl chloride (PVC) casing with a 10-foot screened interval consisting of 0.01-inch slotted PVC screen. The PVC screened intervals were sand packed using No. 1 grade silica sand to a depth of 1 to 2 feet above the top of the screen. A 3-foot-thick bentonite seal was placed above the sand pack. The surface completion consists of an 8-inch-diameter flush mounted well box. All monitoring wells have protective locking caps finished with 24-inch by 24-inch surface concrete pads.

Following well installation, the drilling subcontractor developed the wells to remove fine-grained sediments from the well screen. Developing the wells in this manner allows the water to flow freely from the formation into the well and reduces turbidity of the groundwater during sampling.

Following the completion of the new well installations, the horizontal coordinates and ground surface elevations of each temporary well were surveyed by Transition Engineering Surveying on April 3, 2017 so survey. The surveyed ground surface elevation at each well was referenced relative to an established vertical benchmark (North American Vertical Datum of 1988 [NAVD88]), in feet above mean sea level

(MSL). The horizontal coordinates of each well were referenced to the horizontal datum Delaware State Plane (North American Datum of 1983 [NAD83]). The survey data for all of the new monitoring wells are provided in Appendix C of this report.

Prior to commencing development activities, static water level measurements were collected by WESTON from all monitoring wells in accordance with WESTON SOP No. 204, Water Level Measurements (WESTON, 2011a). During development, water quality parameters, including pH, turbidity, specific conductance, dissolved oxygen, Eh/oxidation reduction potential, and temperature, will be periodically measured and monitored in accordance with WESTON SOP No. 210, Field pH, Conductivity, and Temperature Measurement (WESTON, 2011b) using a field calibrated YSI multi-parameter water quality meter. A minimum of three well volumes were removed from each well during development. The discharge water was relatively clear (sediment free), and general water quality parameters have stabilized as follows:

- pH:  $\pm 0.1$  unit
- Specific conductance:  $\pm 3\%$
- ORP (Eh):  $\pm 10$  millivolt (mV)
- Dissolved Oxygen (DO):  $\pm 10$  percent (%)
- Temperature  $\pm 0.1$  degree Celsius ( $^{\circ}\text{C}$ )

Parameter stabilization is generally defined as three consecutive readings collected 5 minutes apart. The turbidity of the groundwater was also measured and recorded during development. All well development and water level measurements were recorded by WESTON personnel in the site logbook or on data collection forms.

To reduce the potential for cross-contamination from well locations, the wells were installed in order from the least likely to be contaminated (the upgradient location) first, to the most likely to be contaminated last. Hollow stem augers were decontaminated between locations. All pumps and downhole tools were fully decontaminated between wells using tap water and a phosphate-free dilute Alconox<sup>®</sup> detergent solution followed by a clean water rinse. Wash water and soil cuttings were containerized into 55-gallon steel drums along with sampling purge water and soil cuttings and disposed of off-site on July 13, 2017.



### 3.2 GROUNDWATER MONITORING WELL SAMPLING

Six days following development of the wells, WESTON collected groundwater samples from the nine new monitoring wells and one pre-existing groundwater monitoring well identified by the OSC. A field duplicate sample was collected from one of the wells for quality assurance/quality control purposes. A second round of groundwater well samples was collected from September 25 through September 27, 2017. The second round of groundwater samples included the nine new monitoring wells in addition to 10 groundwater samples from pre-existing groundwater monitoring wells identified by the OSC.

Prior to purging and sampling activities, WESTON collected static water levels from the wells in accordance with WESTON SOP No. 204, Water Level Measurements (WESTON, 2011a). A Geotech Geopump was used to conduct low-flow groundwater sampling at each monitoring well in accordance with the groundwater sampling procedures outlined in Section 4.3.1 of the Field Sampling Plan for the Newark South Groundwater Plume Site (WESTON, 2017) and WESTON SOP No. 201, Groundwater Well Sampling (WESTON, 2011c). Water quality parameters, including pH, turbidity, specific conductance, dissolved oxygen (DO), oxygen reduction potential (ORP), and temperature, were measured during purging in accordance with WESTON SOP No. 210, Field pH, Conductivity, and Temperature Measurement (WESTON, 2011b) using a field calibrated YSI multi-parameter water quality meter with a flow-through cell or equivalent.

The wells were purged at a rate that did not to exceed 1 liter per minute (L/min) (0.25 gallons per minute). Water quality parameters were measured and recorded at 5-minute intervals until at least three consecutive readings were stabilized as follow:

- pH:  $\pm 0.1$  unit
- Specific conductance:  $\pm 3\%$
- ORP (Eh):  $\pm 10$  millivolt (mV)
- DO:  $\pm 10$  percent (%)
- Temperature  $\pm 0.1$  degree Celsius ( $^{\circ}\text{C}$ )

Once the wells stabilized, groundwater samples were collected from each well for VOC analysis. WESTON collected groundwater samples directly from the sample/purging tubing into three 40mL VOA vials preserved with hydrochloric acid. All well purge data and water level measurements were

recorded by WESTON personnel in the data collection forms. The Well Purge Data Forms are provided in Appendix D.

### 3.3 SAMPLE MANAGEMENT

All samples collected during the 2017 sampling events were handled and packaged in accordance with the *Contract Laboratory Program Guidance for Field Samplers* (EPA, 2014) and shipped to Contract Laboratory Program (CLP) laboratories for analysis of VOCs. Samples collected in February 2017 were shipped to Chemtech Consulting Group and submitted under Routine Analytical Services (RAS) Case Number 46807. Samples collected in September 2017 and shipped to Chemtech Consulting Group and submitted under RAS Case Number 47127. All shipping containers were properly labeled with EPA chain-of-custody seals and delivered with signed chain-of-custody forms and appropriate hazard warnings for laboratory personnel. Copies of the chain-of-custody records are provided with the Validated Laboratory Results Packages in Appendix E. As appropriate, samples were preserved and all samples were kept on ice during delivery to the assigned laboratories.

## 4.0 ANALYTICAL RESULTS

This section summarizes the analytical results for the samples collected at the Site by WESTON during this evaluation. All samples were analyzed under the EPA CLP in accordance with the EPA CLP Statement of Work (SOW) SOM02.4 for Trace VOCs (EPA, 2016). Validated laboratory results packages are provided in Appendix E.

### 4.1 GROUNDWATER RESULTS

The monitoring well groundwater analytical results were compared to the Newark South Residential Groundwater VISLs. VOCs detected in groundwater samples collected in February 2017 are summarized in Table 1, and VOCs detected in groundwater samples collected in September 2017 are summarized in Table 2. VOCs detected in groundwater samples collected from the DNREC and PPC monitoring wells are summarized in Table 3. The monitoring well locations located in the Scottfield and Brookside residential developments are depicted in Figure 3. The DNREC and PPC monitoring well locations are depicted in Figure 4.

No VOCs were detected at concentrations above the VISLs levels in any of the residential groundwater samples collected during the February 2017 sampling event.

Three VOCs were detected above VISL screening values in groundwater samples that were collected in September 2017. PCE was detected above the VISL of 5.8 µg/L at concentrations ranging from 10 µg/L to 48 µg/L in wells MW-06, MW-10, MW-16, and MW-18. TCE was detected above the VISL of 0.52 µg/L at concentrations of 0.72 µg/L and 3.6 µg/L in wells MW-18 and MW-16, respectively. Chloroform was detected above the VISL of 0.81 µg/L at concentrations ranging from 0.81 µg/L to 0.86 µg/L in wells MW-6, MW-14, MW-16, and MW-21.

## **5.0 CONCLUSIONS AND RECOMMENDATIONS**

Future actions will be contingent on the associated results and at the direction of EPA.

## 6.0 REFERENCES

- DNREC (Delaware Department of Natural Resources and Environmental Control). 2002. *Source Water Assessment for the Public Supply Wells for the City of Newark*. Division of Water Resources.
- DNREC (Delaware Department of Natural Resources and Environmental Control). 2010. *Preliminary Assessment Report for Newark's South Well Field – Westside, DE-0342*. September.
- DNREC (Delaware Department of Natural Resources and Environmental Control). 2015a *Newark's South Well Field Site Investigation Report*. Site Investigation and Restoration Branch. DE-0342. October.
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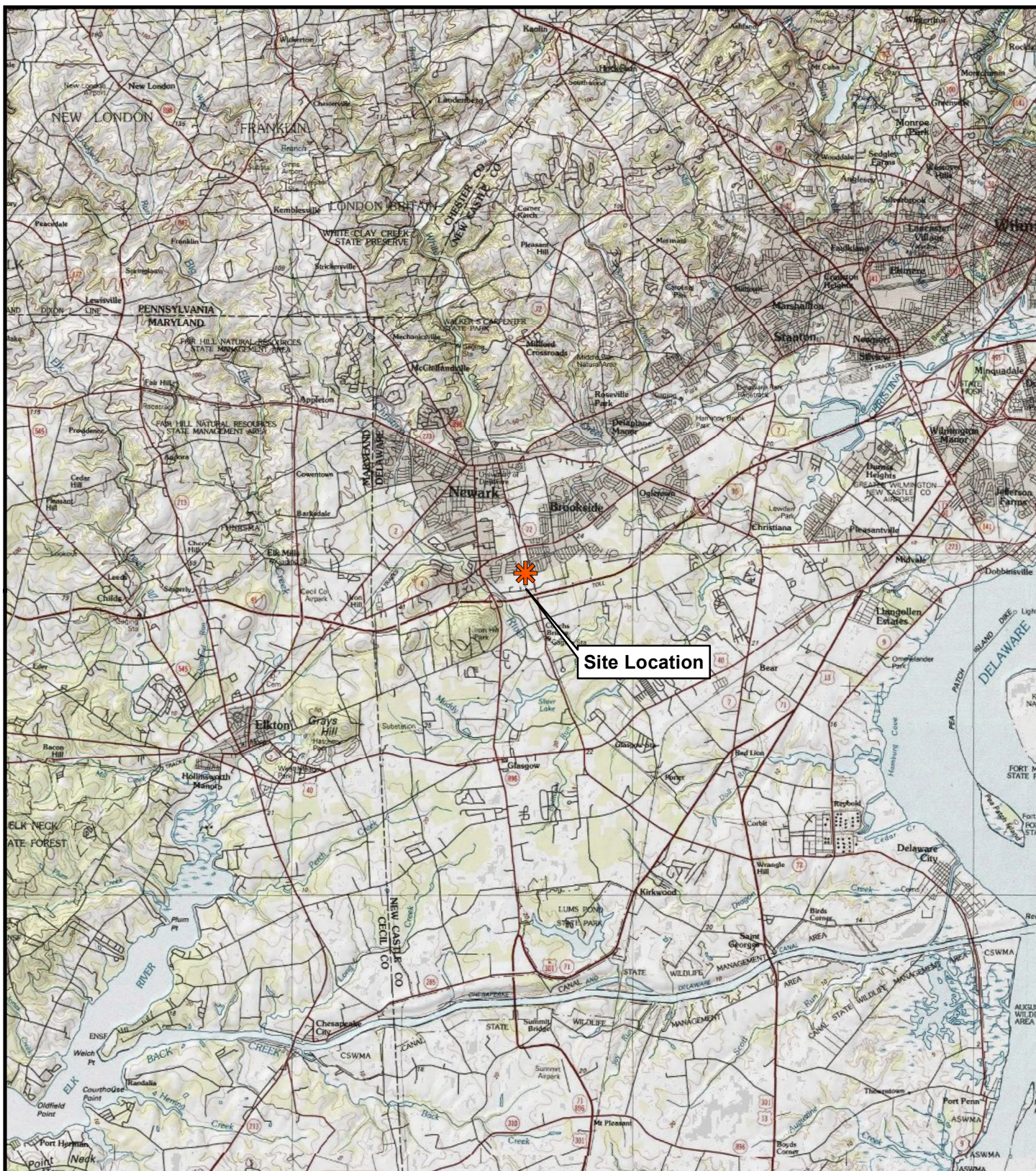


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WESTON (Weston Solutions, Inc.). 2015. Logbook Documentation. SOP No. 101. December.

WESTON (Weston Solutions, Inc.). 2017. Newark South Groundwater Plume Site Field Sampling Plan  
*Groundwater and Sub-slab Air Sampling*. January.





## Legend



Site Location

Imagery: ESRI, Imagery Mapping Service



Coordinate System:  
WGS84 UTM Zone 18N Feet

0 0.5 1 2  
Miles

Newark South Ground Water Plume  
Newark, New Castle County, Delaware

Figure 1  
Site Location Map  
Newark, Delaware


TDD#: W501-16-10-003  
Contract: EP-S3-15-02  
Prepared: 1/3/2017







## Legend

 Newark South Groundwater Plume Site Boundary

Imagery: ESRI, Imagery Mapping Service, 2015



Coordinate System:  
WGS84 UTM Zone 18N Feet

0 300 600 1,200  
Feet

Newark South Ground Water Plume  
Newark, New Castle County, Delaware

**Figure 2**  
Site Features Map  
Newark, Delaware

TDD#: W501-16-10-003  
Contract: EP-S3-15-02  
Prepared: 1/25/2017







Newark South Ground Water Plume  
Newark, New Castle County, Delaware

Figure 3  
PCE Results  
Newark, Delaware

TDD#: W503-16-06-001  
Contract: EP-53-15-02  
Prepared: 1/24/2018



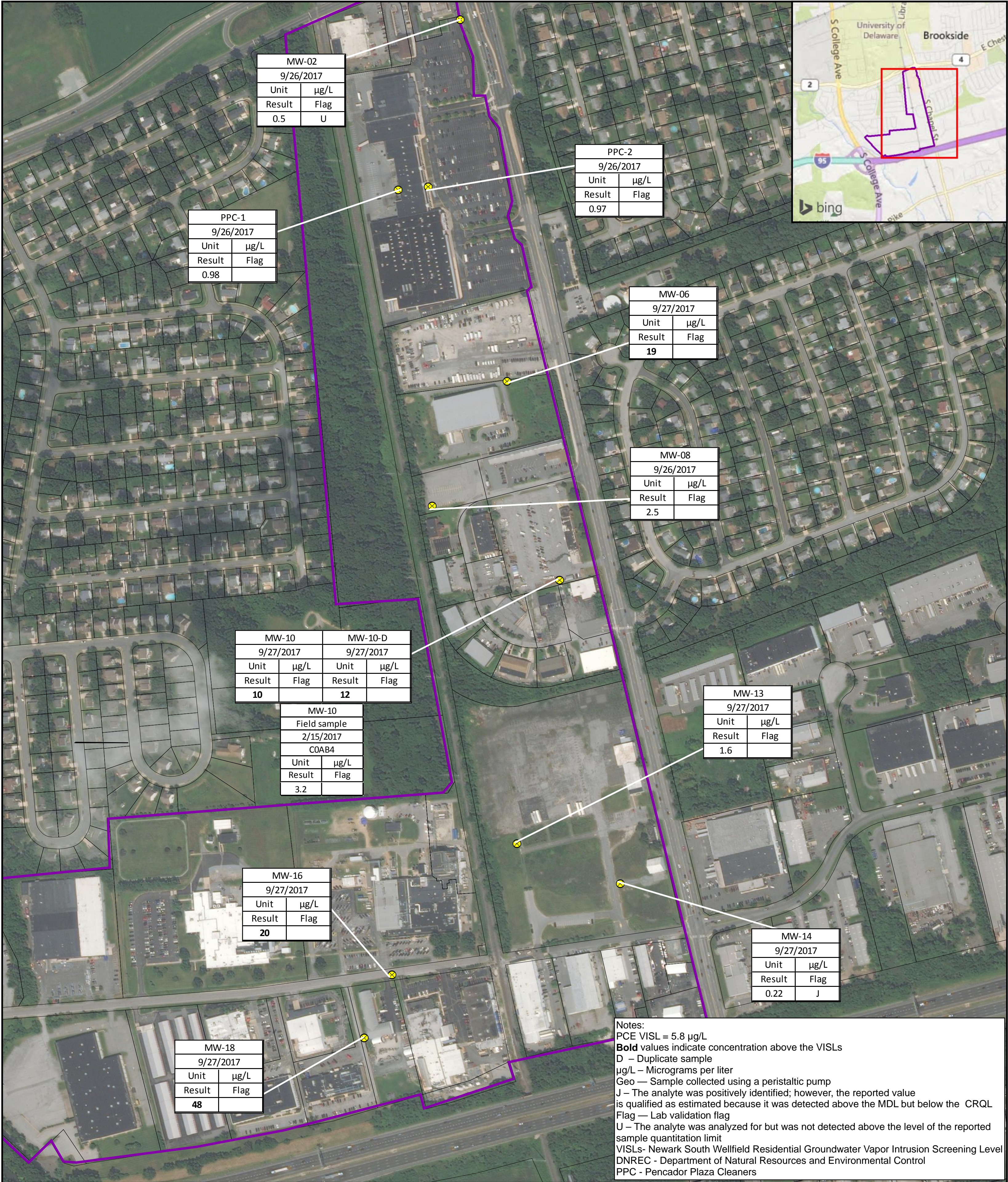




Table 1  
Newark South Groundwater Plume Site  
Summary of Detected VOCs in Groundwater Monitoring Wells Located in Scottfield and Brookside Residential Developments  
February 2017

VOC Compound	Field Sample ID:		MW-21		MW-21-D		MW-22-Shallow		MW-22-Deep		MW-23		MW-24	
	Sample Type:		Field sample		Duplicate sample		Field sample		Field sample		Field sample		Field sample	
	Date:		2/14/2017		2/14/2017		2/14/2017		2/14/2017		2/14/2017		2/14/2017	
	CLP Sample ID:		C0AA0		C0AA7		C0AA2		C0AA1		C0AA3		C0AA4	
	Units	ug/L	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
	CRQL	VISLs	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acetone	0.5	2,300,000	ND		ND		ND		ND		ND		ND	
Benzene	0.5	1.6	ND		ND		ND		ND		ND		ND	
Chloromethane	0.5	26	ND		ND		ND		ND		ND		ND	
Carbon disulfide	0.5	120	ND		ND		ND		ND		ND		0.36	J
MTBE	0.5	450,000	ND		ND		0.14	J	ND		ND		ND	
Chloroform	0.5	0.81	ND		ND		0.57		ND		0.60		ND	
Trichloroethene	0.5	0.52	ND		ND		ND		ND		ND		ND	
Tetrachloroethene	0.5	5.8	ND		ND		ND		ND		ND		0.32	J
Toluene	0.5	1,900	ND		ND		ND		ND		ND		0.49	J

VOC Compound	Field Sample ID:		MW-25		MW-26-Shallow		MW-26-Shallow-D		MW-26-Deep		MW-27	
	Sample Type:		Field sample		Field sample		Duplicate sample		Field sample		Field sample	
	Date:		2/14/2017		2/15/2017		2/15/2017		2/15/2017		2/15/2017	
	CLP Sample ID:		C0AA5		C0AB1		C0AB7		C0AB0		C0AB2	
	Units	µg/L	µg/L		µg/L		µg/L		µg/L		µg/L	
	CRQL	VISLs	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acetone	0.5	2,300,000	ND		5.2		ND		8.80		5.6	
Benzene	0.5	1.6	ND		ND		ND		ND		ND	
Chloromethane	0.5	26	ND		ND		ND		ND		ND	
Carbon disulfide	0.5	120	ND		ND		ND		ND		ND	
MTBE	0.5	450,000	0.13	J	0.30	J	0.30	J	0.31	J	ND	
Chloroform	0.5	0.81	ND		ND		ND		ND		ND	
Trichloroethene	0.5	0.52	ND		ND		ND		ND		ND	
Tetrachloroethene	0.5	5.8	0.18	J	ND		ND		0.29	J	ND	
Toluene	0.5	1,900	ND		ND		ND		ND		ND	

Notes:

µg/L – Micrograms per liter

CRQL – Contract-required quantitation limit

CLP— Contract laboratory program

Geo — Sample collected using a peristaltic pump

J — The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

MTBE - Methyl tert butyl ether

ND - Non-detect

Flag — Lab validation flag

VISLs — Newark South Wellfield Residential Groundwater Vapor Intrusion Screening Levels (VISLs)

U – The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit

D – Duplicate sample

Table 2  
Newark South Groundwater Plume Site  
Summary of Detected VOCs in Groundwater Monitoring Wells Located in Scottfield and Brookside Residential Developments  
September 2017

VOC Compound	Field Sample ID:		MW-21		MW-22-Deep		MW-22-Shallow		MW-23		MW-24	
	Sample Type:		Field sample		Field sample		Field sample		Field sample		Field sample	
	Date/Time:		9/25/2017		9/25/2017		9/25/2017		9/25/2017		9/25/2017	
	CLP Sample ID:		C0AB9		C0AC1		C0AC2		C0AC3		C0AD6	
	Units	µg/L	µg/L		µg/L		µg/L		µg/L		µg/L	
	CRQL	VISLs	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acetone	5	2,300,000	9.1		10		7.7		8		13	
Benzene	0.5	1.6	ND		ND		ND		ND		ND	
Chloromethane	0.5	26	ND		ND		ND		ND		ND	
Carbon disulfide	0.5	120	ND		ND		ND		ND		ND	
cis-1,2-Dichloroethene	0.5		ND		ND		ND		ND		ND	
MTBE	0.5	450,000	ND		ND		ND		ND		ND	
Chloroform	0.5	0.81	<b>0.81</b>		ND		ND		0.61		ND	
Trichloroethene	0.5	0.52	ND		ND		ND		ND		ND	
Tetrachloroethene	0.5	5.8	ND		ND		ND		ND		0.36	J
Toluene	0.5	1,900	ND		ND		ND		ND		ND	

VOC Compound	Field Sample ID:		MW-25		MW-25-D		MW-26 Shallow		MW-26 Deep		MW-27	
	Sample Type:		Field sample		Duplicate of C0AD3		Field sample		Field sample		Field sample	
	Date/Time:		9/26/2017		9/26/2017		9/25/2017		9/25/2017		9/26/2017	
	CLP Sample ID:		C0AD3		C0AD4		C0AC5		C0AC4		C0AD1	
	Units	µg/L	µg/L		µg/L		µg/L		µg/L		µg/L	
	CRQL	VISLs	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acetone	5	2,300,000	9.2		9.8		11		7.1		14	
Benzene	0.5	1.6	ND		ND		ND		ND		ND	
Chloromethane	0.5	26	ND		ND		ND		ND		ND	
Carbon disulfide	0.5	120	ND		ND		ND		ND		ND	
cis-1,2-Dichloroethene	0.5		ND		ND		ND		ND		ND	
MTBE	0.5	450,000	ND		ND		0.31	J	0.28	J	0.28	
Chloroform	0.5	0.81	ND		ND		ND		ND		ND	
Trichloroethene	0.5	0.52	ND		ND		ND		ND		ND	
Tetrachloroethene	0.5	5.8	ND		ND		ND		ND		ND	
Toluene	0.5	1,900	ND		ND		ND		ND		ND	

Notes:

µg/L – Micrograms per liter

**Bold** - result is equal to or above the VISL

CRQL – Contract-required quantitation limit

CLP— Contract laboratory program

Geo — Sample collected using a peristaltic pump

J — The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

MTBE - Methyl tert butyl ether

ND - Non-detect

Flag — Lab validation flag

VISLs — Newark South Wellfield Residential Groundwater Vapor Intrusion Screening Levels (VISLs)

MW - Monitoring Well

D – Duplicate sample

Table 3  
Newark South Groundwater Plume Site  
Summary of Detected VOCs Collected from DNREC and PPC Groundwater Monitoring Wells  
February and September 2017

VOC Compound	Field Sample ID:		MW-02		MW-06		MW-08		MW-10		MW-10	
	Sample Type:		Field sample		Field sample		Field sample		Field sample		Field sample	
	Date/Time:		9/26/2017		9/27/2017		9/26/2017		2/15/2017		9/27/2017	
	CLP Sample ID:		C0AD9		C0AE1		C0AE0		C0AB4		C0AE6	
	Units	µg/L	µg/L		µg/L		µg/L		µg/L		µg/L	
	CRQL	VISLs	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acetone	5	2,300,000	8.9		9.7		9.7		ND		ND	
Benzene	0.5	1.6	ND		ND		ND		ND		ND	
Chloromethane	0.5	26	ND		ND		ND		ND		ND	
Carbon disulfide	0.5	120	ND		ND		ND		ND		ND	
cis-1,2-Dichloroethene	0.5		ND		0.2	J	ND		ND		ND	
MTBE	0.5	450,000	ND		2.2		0.43	J	0.19	J	ND	
Chloroform	0.5	0.81	ND		<b>0.86</b>		ND		0.59		ND	
Trichloroethene	0.5	0.52	ND		0.36	J	ND		ND		ND	
Tetrachloroethene	0.5	5.8	ND		<b>19</b>		2.5		3.2		<b>10</b>	
Toluene	0.5	1,900	ND		ND		ND		ND		ND	

VOC Compound	Field Sample ID:		MW-14		MW-16		MW-18		PPC-1		PPC-2	
	Sample Type:		Field sample		Field sample		Field sample		Field sample		Field sample	
	Date/Time:		9/27/2017		9/27/2017		9/27/2017		9/26/2017		9/26/2017	
	CLP Sample ID:		C0AE7		C0AE2		C0AE3		C0AC9		C0AD0	
	Units	µg/L	µg/L		µg/L		µg/L		µg/L		µg/L	
	CRQL	VISLs	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acetone	5	2,300,000	ND		11		9		8.2		11	
Benzene	0.5	1.6	ND		ND		ND		ND		ND	
Chloromethane	0.5	26	0.56		ND		ND		ND		ND	
Carbon disulfide	0.5	120	ND		ND		0.5		ND		ND	
cis-1,2-Dichloroethene	0.5		ND		ND		0.61		ND		ND	
MTBE	0.5	450,000	0.31	J	0.51		ND		ND		ND	
Chloroform	0.5	0.81	<b>0.81</b>		<b>0.82</b>		ND		0.78		ND	
Trichloroethene	0.5	0.52	ND		<b>3.6</b>		<b>0.72</b>		0.24	J	0.5	
Tetrachloroethene	0.5	5.8	0.22	J	<b>20</b>		<b>48</b>		0.98		0.97	
Toluene	0.5	1,900	ND		ND		ND		ND		ND	

Notes:

µg/L – Micrograms per liter

**Bold** - result is equal to or above the VISL

CRQL – Contract-required quantitation limit

CLP – Contract laboratory program

Geo – Sample collected using a peristaltic pump

J – The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

MTBE - Methyl tert butyl ether

ND - Non-detect

Flag – Lab validation flag

VISLs – Newark South Wellfield Residential Groundwater Vapor Intrusion Screening Levels (VISLs)

PPC - Pencader Plaza Cleaners

MW- Monitoring Well



<b>Job Name</b>	<b>Newark South Groundwa</b>		<b>Boring No.</b>	<b>21</b>	<b>Groundwater Levels</b>	
<b>Job No.</b>	30250.012.001.0129.00		<b>Well Type</b>		<b>Date</b>	<b>Depth</b>
<b>Date Drilled</b>	2/1/2017		<b>Drilling Method</b>	<b>Direct Push</b>	2/7/2017	22.81
<b>Drilling Co.</b>	<b>Eichelbergers</b>		<b>Completion Depth</b>	<b>29.25</b> (ft btoc)		
<b>Drill Foreman</b>			<b>Location</b>	<b>Newark, DE</b>		
<b>Logged By</b>			<b>Drill Rig Type</b>	<b>Geoprobe 7822DT</b>		
<b>Depth ft BGS</b>	<b>Sample No.</b>	<b>Sample Interval Collected</b>	<b>% Rec.</b>	<b>Visual Description</b>		<b>Field Instrument Readings</b>
—  —  —  —  25		Geoprobe Sample collected from from 22' to 23'	75%	<div style="text-align: right;">5Y</div> 20' - 22.5' : Well sorted fine silty sand with some gravel. 8/3 (pale yellow)  22.5' - 24' : Well sorted medium grained sand with some silt and poorly sorted gravel. 5/4 (Olive).  24' - 25' : Saturated well sorted medium grained sand with some silt and poorly sorted gravel. 5/4 (Olive).		0 PID
—  —  —  —  30		Geoprobe	75%	<div style="text-align: right;">5YR</div> 25' - 27' Well sorted medium grained sand with some poorly sorted fine gravels. 5/4 (reddish brown).  27' - 28' Well sorted fine grained sandy clay. 5/4 (reddish brown).  28' - 30' : Well sorted fine grained sand with some clay. 6/8 (reddish yellow).		0 PID
—  —  —  —  						
—  —  —  —  						

WESTON SOLUTIONS, INC.				Drilling/Lithologic Log		PAGE 1 OF 2	
Job Name		Newark South Groundwater		Boring No.	22- Shallow	Groundwater Levels	
Job No.		30250.012.001.0129.00		Well Type		Date	Depth
Date Drilled				Drilling Method	Direct Push	2/2/2017	23.11
Drilling Co.		Eichelbergers		Completion Depth	29.59 (ft btoc)	2/3/2017	23.13
Drill Foreman				Location	Newark, DE		
Logged By				Drill Rig Type	Geoprobe 7822DT		
Depth ft BGS	Sample No.	Sample Interval Collected	% Rec.	Visual Description			Field Instrument Readings
5		Hand Auger	100%	0" - 3" : Asphalt			0 PID
	3" - 2.5' : Well sorted fine sands with some silty clay. 5/8 (yellowish red)						
	2.5' - 5' : Poorly sorted medium grained sand with some gravels. 5/8 (yellowsih red).						
10		Geoprobe	70%	5' - 10' : Well sorted medium grained non cohesive sand with less than 5% fine gravel. 8/2 (pinkish white).			0 PID
15		Geoprobe	75%	10' - 15' : Well sorted medium grained non cohesive sand. 6/6 (reddish yellow).			0 PID
20		Geoprobe	80%	15' - 17.5' : Well sorted medium grained slightly cohesive sand. 7/4 (pink)			0 PID
	17.5 - 20' : Well sorted medium grained sand with about 5% poorly sorted medium grained graveis. 11/6 (reddish yellow). Begins to become moist at approximately 18 ft.						

WESTON SOLUTIONS, INC.				Drilling/Lithologic Log		PAGE 2 OF 2	
Job Name		Newark South Groundwa		Boring No.		22- Shallow	
Job No.		30250.012.001.0129.00		Well Type			
Date Drilled				Drilling Method		Direct Push	
Drilling Co.		Eichelbergers		Completion Depth		29.59 (ft btoc)	
Drill Foreman				Location		Newark, DE	
Logged By				Drill Rig Type		Geoprobe 7822DT	
Depth ft BGS	Sample No.	Sample Interval Collected	% Rec.	Visual Description			Field Instrument Readings
20		Geoprobe	70%	<div>7.5YR</div> 20' - 25' : Well sorted medium grained sand with poorly sorted gravel composed approximately 15%. Color transitioning from 7/4 (pinkish) to 3/3 (dark brown) at 23 ft. Core becomes saturated at 23 ft.			0 PID
25		Geoprobe	80%	<div>7.5YR</div> 25' - 27.5' : Well sorted medium grained sand with poorly sorted gravel composed of 80% sand and 20% gravel. 6/8 (reddish yellow). 27.5' - 29 Well sorted medium grained sand with poorly sorted gravel composed of 95% sand and 5% gravel. 6/8 (reddish yellow).			0 PID
30							
15							
20							



WESTON SOLUTIONS, INC.				Drilling/Lithologic Log		PAGE 1 OF 2	
Job Name		Newark South Groundwater		Boring No.	22- Deep	Groundwater Levels	
Job No.		30250.012.001.0129.00		Well Type		Date	Depth
Date Drilled				Drilling Method	Direct Push	2/1/2017	23.27
Drilling Co.		Eichelbergers		Completion Depth	49.59 (ft btoc)	2/2/2017	23.29
Drill Foreman				Location	Newark, DE	2/3/2017	23.29
Logged By				Drill Rig Type	Geoprobe 7822DT		
Depth ft BGS	Sample No.	Sample Interval Collected	% Rec.	Visual Description		Field Instrument Readings	
5		Hand Auger	100%	0" - 3" : Asphalt		5YR	
	3" - 4' : Well sorted fine sand with some clay. 5/4 (reddish brown).			0 PID			
	4' - 5' : Well sorted medium grained silty sand with some fine gravels. 5/4 (reddish brown).						
10		Geoprobe	70%	5' - 10' : Well sorted medium grained non cohesive sand with less than 5% fine gravel. 8/2 (pinkish white).		7.5 YR	
				0 PID			
15		Geoprobe	75%	10' - 15' : Well sorted medium grained non cohesive sand. 6/6 (reddish yellow).		7.5 YR	
				0 PID			
		Geoprobe	80%	15' - 17.5' : Well sorted medium grained slightly cohesive sand. 7/4 (pink)		7.5YR	
	17.5 - 20' : Well sorted medium grained sand with about 5% poorly sorted medium grained gravels. 7/6 (reddish yellow). Begins to become moist at approximately 18 ft.			0 PID			

WESTON SOLUTIONS, INC.				Drilling/Lithologic Log		PAGE 2 OF 2	
Job Name		Newark South Groundwa		Boring No.	22- Deep	Groundwater Levels	
Job No.		30250.012.001.0129.00		Well Type		Date	Depth
Date Drilled				Drilling Method	Direct Push	2/1/2017	23.27
Drilling Co.		Eichelbergers		Completion Depth	49.59 (ft btoc)	2/2/2017	23.29
Drill Foreman				Location	Newark, DE	2/3/2017	23.29
Logged By				Drill Rig Type	Geoprobe 7822DT		
Depth ft BGS	Sample No.	Sample Interval Collected	% Rec.	Visual Description			Field Instrument Readings
25		Geoprobe Sample collected at 22 ft	70%	<div>7.5YR</div> 20' - 25' : Well sorted medium grained sand with poorly sorted gravel composed approximately 15%. Color transitioning from 7/4 (pinkish) to 3/3 (dark brown) at 23 ft. Core becomes saturated at 23 ft.			0 PID
30		Geoprobe	80%	<div>7.5YR</div> 25' - 27.5' : Well sorted medium grained sand with poorly sorted gravel composed of 80% sand and 20% gravel. 6/8 (reddish yellow). 27.5' - 30 Well sorted medium grained sand with poorly sorted gravel composed of 95% sand and 5% gravel. 6/8 (reddish yellow).			0 PID
35		Geoprobe	90%	<div>7.5YR</div> 30' - 32.5' : well sorted medium grained sand. 6/6 (reddish yellow) 32.5' - 33' : Clay with less than 15% fine sand. 6/6 (reddish yellow). 33' - 35' : Well sorted coarse grained sand with less than 5% fine gravel. 6/6 (reddish yellow)			0 PID
				Stopped soil cores			

WESTON SOLUTIONS, INC.				Drilling/Lithologic Log		PAGE 1 OF 2	
Job Name		Newark South Groundwater		Boring No.	23	Groundwater Levels	
Job No.		30250.012.001.0129.00		Well Type		Date	Depth
Date Drilled		1/31/2017		Drilling Method	Direct Push	2/1/2017	22.14
Drilling Co.		Eichelbergers		Completion Depth	28.95 (ft btoc)	2/2/2017	22.16
Drill Foreman				Location	Newark, DE	2/3/2017	22.14
Logged By				Drill Rig Type	Geoprobe 7822DT		
Depth ft BGS	Sample No.	Sample Interval Collected	% Rec.	Visual Description			Field Instrument Readings
5		Hand auger	100%	0" - 3" : Asphalt 5YR 3" - 6" : Cobbles and loose gravels 6" - 3.5' : Compact medium grained well sorted cohesive sand. 5/8 (Yellowish-Red) 3.5' - 5' : Well sorted silty clay, medium cohesion. 8/1 (Light gray)			0 PID
		Geoprobe	70%	5' - 7' : Poorly sorted gravely sand. 7/1 (light gray) 5YR 7' - 10' : Medium grained sand with some poorly sorted gravel. 7/8 (reddish yellow)			0 PID
15		Geoprobe	70%	10' - 15' : Well sorted medium grained sands. Color tansitions from 5YR 6/8 (yellow reddish) to 10YR 8/3 (pole brown)			0 PID
		Geoprobe	70%	15' - 16' : Well sorted fine grained sands containng some gravel ( less than 20%). 8/4 (pink) 7.5YR 16' - 18' : Well sorted medium grained sand. 7/8 (reddish yellow) 18' - 20' : Well sorted medium grained sand. 6/8 (reddish yellow)			0 PID

WESTON SOLUTIONS, INC.				Drilling/Lithologic Log		PAGE 2 OF 2	
Job Name		Newark South Groundwater		Boring No.	23	Groundwater Levels	
Job No.		30250.012.001.0129.00		Well Type		Date	Depth
Date Drilled		2/6/2017		Drilling Method	Direct Push	2/1/2017	22.14
Drilling Co.		Eichelbergers		Completion Depth	28.95 (ft btoc)	2/2/2017	22.16
Drill Foreman				Location	Newark, DE	2/3/2017	22.14
Logged By				Drill Rig Type	Geoprobe 7822DT		
Depth ft BGS	Sample No.	Sample Interval Collected	% Rec.	Visual Description			Field Instrument Readings
25		Geoprobe	60%	20' - 21' : Poorly sorted sandy gravel. 4/3 (brown)			0 PID
	21' - 25' : Moist poorly sorted sandy gravel. 4/4 (brown) Depth to ground water : 23'						
30		Geoprobe	60%	25' - 30' : Saturated coarse sand with gravel and some clay. 4/4 (brown)			0 PID
	29' : Bottom of well screen						

WESTON SOLUTIONS, INC.				Drilling/Lithologic Log		PAGE 1 OF 2	
Job Name		Newark South Groundwater		Boring No.		24	
Job No.		30250.012.001.0129.00		Well Type		Groundwater Levels	
						Date      Depth	
Date Drilled		2/6/2017		Drilling Method		Direct Push	
						2/7/2017      20.01	
Drilling Co.		Eichelbergers		Completion Depth		24.50 (ft btoc)	
Drill Foreman				Location		Newark, DE	
Logged By				Drill Rig Type		Geoprobe 7822DT	
Depth ft BGS	Sample No.	Sample Interval Collected	% Rec.	Visual Description		Field Instrument Readings	
5		Hand auger	100%	0" - 6" : Asphalt		5YR	
	6" - 1.5' : Coarse sands loose gravels 4/6 (yellowish red)						
	1.5' - 3' : Fine sand with some silt and clay. 5/1 (gray)						
	3' - 4' : Fine silty sand with a little clay (10%). 5/4 (reddish brown)			0 PID			
				4' - 4.5' : Fine sand with some poorly sorted fine gravel. 5/8 (yellowish red).			
				4.5' - 5' : Fine sand with some clay. 5/8 (yellowish red).			
10		Geoprobe	75%	5' - 7' : Well sorted fine cohesive sand with some clay.		7.5YR	
	5/6 (strong brown).						
	7' - 8' : Well sorted fine sand with a few fine gravels. 6/6 (reddish yellow).			0 PID			
				8' - 10' : Well sorted fine cohesive sand. 6/6 (reddish yellow).			
15		Geoprobe	80%			7.5YR	
	10' - 15' : Well sorted fine grained cohesive sand with iron preesent from 11.5' - 13'. 6/6 (reddish yellow).			0 PID			
		Geoprobe	70%	15' - 17' : Well sorted fine grained sands containng small amount of gravel ( less than 10%). 5/6 (yellowish red)		5 YR	
				17' : Hit water table			
				17' - 19' : Well sorted medium grained sand with a little clay. 5/6 (yellowish red)		0 PID	
				19' - 20' : Well sorted fine grained sand with some medium grained gravel. 10 YR 6/8 (brownish yellow)			

Job Name		Newark South Groundwater Boring No.		24		Groundwater Levels	
Job No.		30250.012.001.0129.00		Well Type		Date Depth	
Date Drilled		2/6/2017		Drilling Method		Direct Push 2/7/2017 20.01	
Drilling Co.		Eichelbergers		Completion Depth		24.50 (ft btoc)	
Drill Foreman				Location		Newark, DE	
Logged By				Drill Rig Type		Geoprobe 7822DT	
Depth ft BGS	Sample No.	Sample Interval Collected	% Rec.	Visual Description			Field Instrument Readings
25		Geoprobe	60%	20' - 22' : Saturated coarse sand with some gravels. 6/6 (olive yellow). 2.5Y			0 PID
	22' - 24' : Well sorted coarse grained sand with fine to coarse grained gravels. 6/6 (olive yellow).						
	24' : Bottom of well screen						
30							

WESTON SOLUTIONS, INC.				Drilling/Lithologic Log		PAGE 1 OF 2	
Job Name		Newark South Groundwa		Boring No.	25	Groundwater Levels	
Job No.		30250.012.001.0129.00		Well Type		Date	Depth
Date Drilled		2/7/2017		Drilling Method	Direct Push	2/7/2017	17.64
Drilling Co.		Eichelbergers		Completion Depth	24.43 (ft btoc)		
Drill Foreman				Location	Newark, DE		
Logged By				Drill Rig Type	Geoprobe 7822DT		
Depth ft BGS	Sample No.	Sample Interval Collected	% Rec.	Visual Description			Field Instrument Readings
5		Hand auger	100%	0" - 3" : Asphalt 7.5YR 3" - 6" : Loose gravels.  6" - 1.5' : Well sorted fine cohesive silty clay. 5/6 (Strong brown).  1.5' - 5' : Well sorted fine to medium grained sand. 5/6 (strong brown).			0 PID
10		Geoprobe	80%	5' - 6' : Well sorted fine to medium grained sand. 7.5YR 5/8 (Strong brown).  6' - 8' : Well sorted fine to medium grained slightly moist sand with some clay. 5/8 (Strong brown).  8' - 10' : Well sorted fine to medium grained slightly moist sand with little clay. 5/8 (Strong brown).			0 PID
15		Geoprobe	75%	10' - 11' : Well sorted medium grained sands. 7.5YR 4/6 (strong brown).  11' - 12' : Well sorted fine grained sands. 6/6 (reddish yellow).  12' - 13' : Well sorted fine grained sands. 10 YR 7/4 (Very pale brown).  13' - 15' : Well sorted fine grained sands with a few poorly sorted fine grained gravel. 10YR 7/4 (very pale brown).			0 PID
		Geoprobe  OSC ended coring and allowed drillers to punch through next layer due to equipment becoming stuck in cobbles.	70%	15' - 17' : Well sorted fine grained moist sands. 8/6 (yellow) 17' : Hit water table  17' - 19' : Well sorted fine grained sand with a little clay. 6/6 (brownish yellow)  19' - 20' : Well sorted fine grained saturated silty sand with large amount of poorly sorted fine to coarse grained gravel. 6/6 (yellowish brown)			0 PID

WESTON SOLUTIONS, INC.			Drilling/Lithologic Log		PAGE 2 OF 2		
Job Name		Newark South Groundwa		Boring No.	25	Groundwater Levels	
Job No.		30250.012.001.0129.00		Well Type		Date	Depth
Date Drilled		2/7/2017		Drilling Method	Direct Push	2/7/2017	17.64
Drilling Co.		Eichelbergers		Completion Depth	24.43 (ft btoc)		
Drill Foreman				Location	Newark, DE		
Logged By				Drill Rig Type	Geoprobe 7822DT		
Depth ft BGS	Sample No.	Sample Interval Collected	% Rec.	Visual Description		Field Instrument Readings	
20		Geoprobe	70%	20' - 24.43' : Well sorted fine grained saturated silty sand with large amount of poorly sorted fine to coarse grained gravel and cobbles. 6/6 (yellowish brown)		0 PID	



WESTON SOLUTIONS, INC.				Drilling/Lithologic Log		PAGE 1 OF 2	
Job Name		Newark South Groundwa		Boring No.	26- Shallow	Groundwater Levels	
Job No.		30250.012.001.0129.00		Well Type		Date	Depth
Date Drilled		2/2/2017		Drilling Method	Direct Push	2/7/2017	####
Drilling Co.		Eichelbergers		Completion Depth	22.00 (ft btoc)		
Drill Foreman				Location	Newark, DE		
Logged By				Drill Rig Type	Geoprobe 7822DT		
Depth ft BGS	Sample No.	Sample Interval Collected	% Rec.	Visual Description			Field Instrument Readings
5		Hand Auger	100%	0" - 3" : Asphalt			5YR
	3" - 1' : Coarse grained sand with coarse grained gravel. 6/1 (gray)			0 PID			
	1' - 3' : Well sorted medium grained sand with poorly sorted medium to coarse grained gravel. 5/3 (reddish brown) to 3/4 (dark reddish brown).						
	3' - 5' : Well sorted medium grained sand with poorly sorted large gravel. 6/1 (gray).						
10		Geoprobe	80%	5' - 8' : Well sorted, coarse grained, noncohesive sand. 5/3 (reddish brown).			5 YR
	8' - 10' : well sorted medium grained, medium cohesive sand with some clay. 5/1 (gray).			0 PID			
15		Geoprobe Sample collected between 13' - 15'	80%	10' - 13' : Well sorted medium to fine grained sand. 6/4 (light brown).			7.5 YR
	13' - 15' : Well sorted fine sand with coarse gravel and small amount of clay. Damp. 6/4 (light brown).			0 PID			
		Geoprobe	70%	15' - 18' : Well sorted fine grained sandy clay with poorly sorted fine gravels. Saturated. 4/3 (reddish brown).			7.5YR
				18' - 20' : Well sorted coarse grained sand with poorly sorted fine to coarse grained gravel. 4/3 (reddish brown).			0 PID

WESTON SOLUTIONS, INC.			Drilling/Lithologic Log			PAGE 2 OF 2	
Job Name		Newark South Groundwa		Boring No.	26- Shallow	Groundwater Levels	
Job No.		30250.012.001.0129.00		Well Type		Date	Depth
Date Drilled		2/2/2017		Drilling Method	Direct Push	2/7/2017	####
Drilling Co.		Eichelbergers		Completion Depth	22.00		
Drill Foreman				Location	Newark, DE		
Logged By				Drill Rig Type	Geoprobe 7822DT		
Depth ft BGS	Sample No.	Sample Interval Collected	% Rec.	Visual Description		Field Instrument Readings	
<div> <div>25</div> <div>30</div> <div>35</div> </div>		Geoprobe	65%	<div>5YR</div> <div>20' - 22' : poorly sorted meduim grained gravel with some fine sandy clay. 5/4 (reddish brown).</div>		0 PID	

WESTON SOLUTIONS, INC.				Drilling/Lithologic Log		PAGE 1 OF 3	
Job Name		Newark South Groundwa		Boring No.	26- Deep	Groundwater Levels	
Job No.		30250.012.001.0129.00		Well Type		Date	Depth
Date Drilled		2/2/2017		Drilling Method	Direct Push	2/7/2017	15.70
Drilling Co.		Eichelbergers		Completion Depth	49.30 (ft btoc)		
Drill Foreman				Location	Newark, DE		
Logged By				Drill Rig Type	Geoprobe 7822DT		
Depth ft BGS	Sample No.	Sample Interval Collected	% Rec.	Visual Description			Field Instrument Readings
5		Hand Auger	100%	5YR 0" - 3" : Asphalt			0 PID
	3" - 1' : Coarse grained sand with coarse grained gravel. 6/1 (gray)						
	1' - 3' : Well sorted medium grained sand with poorly sorted medium to coarse grained gravel. 5/3 (reddish brown) to 3/4 (dark reddish brown).						
	3' - 5' : Well sorted medium grained sand with poorly sorted large gravel. 6/1 (gray).						
10		Geoprobe	80%	5 YR 5' - 8' : Well sorted, coarse grained, noncohesive sand. 5/3 (reddish brown).			0 PID
	8' - 10' : well sorted medium grained, medium cohesive sand with some clay. 5/1 (gray).						
15		Geoprobe Sample collected between 13' - 15'	80%	7.5 YR 10' - 13' : Well sorted medium to fine grained sand. 6/4 (light brown).			0 PID
	13' - 15' : Well sorted fine sand with coarse gravel and small amount of cla Damp. 6/4 (light brown).						
		Geoprobe	70%	7.5YR 15' - 18' : Well sorted fine grained sandy clay with poorly sorted fine gravels. Saturated. 4/3 (reddish brown).			0 PID
				18' - 20' : Well sorted coarse grained sand with poorly sorted fine to Coarse grained gravel. 4/3 (reddish brown).			

<b>Job Name</b>		<b>Newark South Groundwater</b>		<b>Boring No.</b>	<b>26- Deep</b>	<b>Groundwater Levels</b>	
<b>Job No.</b>		30250.012.001.0129.00		<b>Well Type</b>		<b>Date</b>	<b>Depth</b>
<b>Date Drilled</b>		2/2/2017		<b>Drilling Method</b>	<b>Direct Push</b>	2/7/2017	15.70
<b>Drilling Co.</b>		<b>Eichelbergers</b>		<b>Completion Depth</b>	<b>49.30</b> (ft btoc)		
<b>Drill Foreman</b>				<b>Location</b>	<b>Newark, DE</b>		
<b>Logged By</b>				<b>Drill Rig Type</b>	<b>Geoprobe 7822DT</b>		
<b>Depth ft BGS</b>	<b>Sample No.</b>	<b>Sample Interval Collected</b>	<b>% Rec.</b>	<b>Visual Description</b>			<b>Field Instrument Readings</b>
<div style="position: relative; height: 100px;"> <span style="position: absolute; top: 0; left: -10px;">25</span> <span style="position: absolute; bottom: 0; left: -10px;">30</span> <span style="position: absolute; bottom: 0; left: -10px;">35</span> </div>		Geoprobe	65%	<div style="text-align: right;">5YR</div> 20' - 25' : poorly sorted meduim grained gravel with some fine sandy clay. 5/4 (reddish brown).			0 PID
		Geoprobe	65%	<div style="text-align: right;">5 YR</div> 25' - 30' : Well sorted coarse grained sand with poorly sorted fine and coarse grained gravel. 6/5 (yellowish red).			0 PID
		Geoprobe	75%	<div style="text-align: right;">5 YR</div> 30' - 32' : Well sorted medium to coarse grained sand with poorly sorted gravel. 5/8 (yellowish red).  32' - 35' : Medium and coarse grained samd with intermittent clay layers. 5/8 (yellowish red).			0 PID
		Geoprobe	75%	<div style="text-align: right;">5YR</div> 35' - 40' : Well sorted, coarse grained sand with 3" layers of clay with some poorly sorted small gravel. 5/8 (yellowish red).			0 PID

WESTON SOLUTIONS, INC.				Drilling/Lithologic Log		PAGE 3 OF 3	
Job Name		Newark South Groundwa		Boring No.		26- Deep	
Job No.		30250.012.001.0129.00		Well Type			
Date Drilled		2/2/2017		Drilling Method		Direct Push	
Drilling Co.		Eichelbergers		Completion Depth		49.30 (ft btoc)	
Drill Foreman				Location		Newark, DE	
Logged By				Drill Rig Type		Geoprobe 7822DT	
Depth ft BGS	Sample No.	Sample Interval Collected	% Rec.	Visual Description			Field Instrument Readings
45		Geoprobe	70%	40' - 45' : Well sorted uniform coarse grained sand with 2 inch layer of clay at 41 ft. 6/8 (reddish yellow).			0 PID
		Geoprobe	40%	45' - 50' : Well sorted uniform coarse grained sand with fine to coarse grain 7/6 (reddish yellow)			0 PID
55							

WESTON SOLUTIONS, INC.				Drilling/Lithologic Log		PAGE 1 OF 2	
Job Name		Newark South Groundwater		Boring No.	27	Groundwater Levels	
Job No.		30250.012.001.0129.00		Well Type		Date	Depth
Date Drilled		2/2/2017		Drilling Method	Direct Push	2/3/2017	16.59
Drilling Co.		Eichelbergers		Completion Depth	24.70 (ft btoc)		
Drill Foreman				Location	Newark, DE		
Logged By				Drill Rig Type	Geoprobe 7822DT		
Depth ft BGS	Sample No.	Sample Interval Collected	% Rec.	Visual Description			Field Instrument Readings
5		Hand auger	100%	1" - 3" : Asphalt 10YR			0 PID
	3" - 6" : Loose gravels						
	6" - 1' : Well sorted medium grained well sorted sand. 5/6 (yellowish brown).						
	1' - 2' : Well sorted fine grained sandy clay. 4/6 (dark yellowish brown)						
10		Geoprobe	75%	2' - 5' : Well sorted medium grained noncohesive sand with less than 10% fine gravel. 4/6 (dark yellowish brown).			0 PID
	5' - 6' : Well sorted medium grained sand with some gravel. 6/6 (reddish yellow).						
	6' - 7' : Well sorted fine grained slightly cohesive sandy clay with some gravel. 6/8 (reddish yellow).						
	7' - 10' : Well sorted fine to medium grained slightly cohesive sand. 6/8 (reddish yellow).						
15		Geoprobe	80%	5YR			0 PID
	10' - 15' : Well sorted fine and medium grained sand with some fine gravel. 6/8 (reddish yellow).						
		Geoprobe	45%	5YR			0 PID
	15' - 17' : Damp well sorted medium grained sand with some fine gravel. 5/8 (yellowish red).						
	17' - 20' : Saturated well sorted medium grained slightly cohesive sand with some fine gravel. 5/8 (yellowish red).						

<b>Job Name</b>		<b>Newark South Groundwa</b>	<b>Boring No.</b>	<b>27</b>	<b>Groundwater Levels</b>	
<b>Job No.</b>		30250.012.001.0129.00	<b>Well Type</b>		<b>Date</b>	<b>Depth</b>
<b>Date Drilled</b>		2/2/2017	<b>Drilling Method</b>	<b>Direct Push</b>	2/3/2017	16.59
<b>Drilling Co.</b>		Eichelbergers		(ft btoc)		
			<b>Location</b>	Newark, DE		
<b>Logged By</b>			<b>Drill Rig Type</b>	Geoprobe 7822DT		
Depth ft BGS	Sample No.	Sample Interval Collected	% Rec.	Visual Description		Field Instrument Readings
25		Geoprobe	5%	20' - 25' : Well sorted fine to medium grained sand. Saturated. 4/6 (yellowish red).		0 PID
30						
35						

## PHOTOGRAPHIC DOCUMENTATION LOG

Newark South Groundwater Plume • Newark, New Castle County, Delaware  
EPA Region III START • Contract No. EP-S3-15-02 • TDD No. W501-16-10-003



**PHOTOGRAPH 1:** Monitoring well (MW)-23 before the installation of the well box.

**DATE:** 1/31/2017

**PHOTOGRAPHER:** WESTON START



**PHOTOGRAPH 2:** Completed installation of MW-23.

**DATE:** 1/31/2017

**PHOTOGRAPHER:** WESTON START



## PHOTOGRAPHIC DOCUMENTATION LOG

Newark South Groundwater Plume • Newark, New Castle County, Delaware  
EPA Region III START • Contract No. EP-S3-15-02 • TDD No. W501-16-10-003



**PHOTOGRAPH 3:** Soil borings recovered from MW-22 Deep.

**DATE:** 2/1/2017

**PHOTOGRAPHER:** WESTON START



**PHOTOGRAPH 4:** GEOPROBE rig constructing MW-22 Shallow.

**DATE:** 2/1/2017

**PHOTOGRAPHER:** WESTON START



## PHOTOGRAPHIC DOCUMENTATION LOG

Newark South Groundwater Plume • Newark, New Castle County, Delaware  
EPA Region III START • Contract No. EP-S3-15-02 • TDD No. W501-16-10-003



**PHOTOGRAPH 5:** GEOPROBE rig constructing MW-24.  
**DATE:** 2/6/2017

**PHOTOGRAPHER:** WESTON START



**PHOTOGRAPH 6:** Soil borings retrieved from MW-24.  
**DATE:** 2/6/2017

**PHOTOGRAPHER:** WESTON START



## PHOTOGRAPHIC DOCUMENTATION LOG

Newark South Groundwater Plume • Newark, New Castle County, Delaware  
EPA Region III START • Contract No. EP-S3-15-02 • TDD No. W501-16-10-003



**PHOTOGRAPH 7:** Completed construction on MW-24.

**DATE:** 2/6/2017

**PHOTOGRAPHER:** WESTON START

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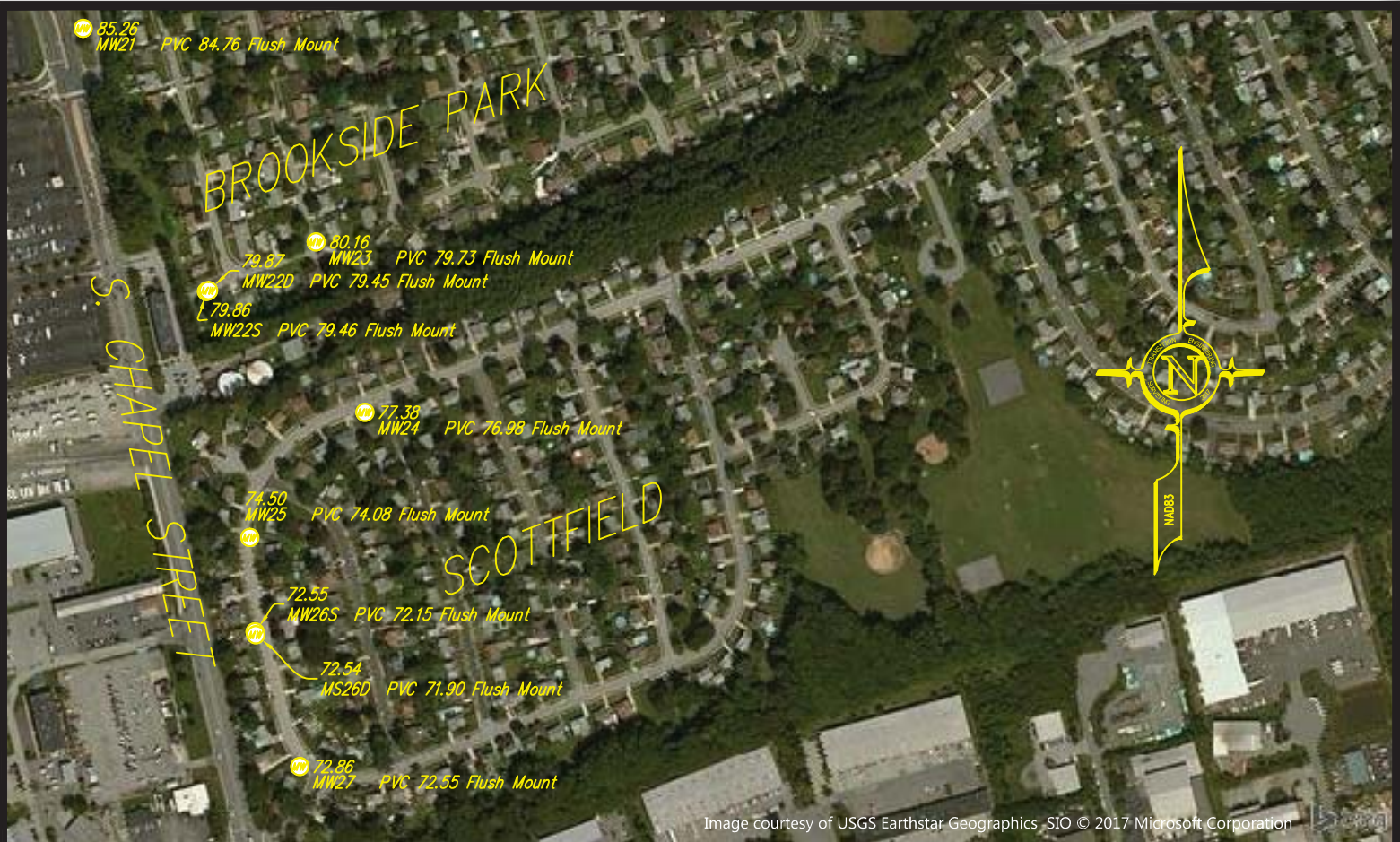
**PHOTOGRAPH 8:** Sampling activities at MW-21.

**DATE:** 2/14/2017

**PHOTOGRAPHER:** WESTON START

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THIS PLAN IS INTENDED TO SHOW FIELD DATA SURVEYED ON APRIL 3, 2017. DATUM IS DELAWARE STATE PLANE NAD 83, NAVD 88.

Point Table					Point Table				
Point #	Northing	Easting	Elevation	Description	Point #	Northing	Easting	Elevation	Description
1	604169.05	566794.06	79.86	MW22S PVC 79.46 Flush Mount	6	603180.53	566934.89	72.55	MW26S PVC 72.15 Flush Mount
2	604171.49	566800.12	79.87	MW22D PVC 79.45 Flush Mount	7	603172.15	566937.01	72.54	MS26D PVC 71.90 Flush Mount
3	604312.44	567112.04	80.16	MW23 PVC 79.73 Flush Mount	8	603454.68	566919.90	74.50	MW25 PVC 74.08 Flush Mount
4	604932.55	566435.90	85.26	MW21 PVC 84.76 Flush Mount	9	603817.91	567253.92	77.38	MW24 PVC 76.98 Flush Mount
5	602789.69	567064.52	72.86	MW27 PVC 72.55 Flush Mount					

SCALE 1"=500' APRIL 17, 2017

**MONITORING WELLS EXHIBIT**  
**PREPARED FOR**  
**WESTON SOLUTIONS, INC.**  
**KNOWN AS**  
**NEWARK SOUTH GROUND WATER PLUME**  
**CITY OF NEWARK - NEW CASTLE COUNTY - DELAWARE**



**TRANSITION**  
**ENGINEERING**  
**SURVEYING**

(302) 983-7008  
 MIDDLETOWN  
 DELAWARE

PROJECT NO.:  
 WSI: 338.01.01

CAD FILE:  
 ChestnutRun\_GWMWs.dwg

DRAWN BY: LAS	CHECKED BY: JJT
DWG. NO.: V.01	SHEET. NO.: 1 OF 1

Project No: NSGP Sample Location MW-02 Surface Water ☐ Ground Water ☒  
Sampling Personnel [REDACTED] Date 9/26/17 Start Time 1345 Weather 80 Sunny  
Depth to Water 16.65 Depth to Product 28.67 Product Thickness — Measuring Point —  
Borehole Dia. 1" Calculated Purge Volume 1.62 Gallons (3 volumes) Total Casing Depth/Dia. —

[illegible][illegible]

COMMENTS: \_\_\_\_\_

HYDROLAB: pH Calibration Buffers: 4 ☐ 7 ☐ 10 ☐ Eh Reference Solution \_\_\_\_\_  
SC Reference Solution \_\_\_\_\_ umhos/cm Turbidity Reference Solution \_\_\_\_\_ NTUs

Sample Name \_\_\_\_\_ TIME \_\_\_\_\_ VOCs ☐ Sulfide ☐ Anions/Alkalinity/TDS ☐  
TOC ☐ Cations ☐ Trace Metals ☐ SVOCs ☐ Perchlorate ☐ Explosive ☐ TPH Gas ☐ Dioxin/Furans ☐  
TPH Diesel/Motor Oil ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐  
MS/MSD \_\_\_\_\_ BD \_\_\_\_\_ BD Name/Time \_\_\_\_\_ TB \_\_\_\_\_

## GROUND-WATER/SURFACE WATER SAMPLING LOG

Project No: NECD Sample Location MW-08 Surface Water ☐ Ground Water ☒  
Sampling Personnel: [redacted] [redacted] 9/26/97 [redacted] [redacted] [redacted]  
[redacted] to Product 21-7 Product Thickness            Measuring Point             
Borehole Dia. 1" Calculated Purge Volume 2.67 Gallons 3 volumes Total Casing Depth/Dia.           

Sampling Method: Dedicated Submersible Pump ☐ Portable Submersible Pump ☐  
 Dedicated Bladder Pump ☐ Portable Bladder Pump ☐ Surge/Bail ☐ Surge Block Type \_\_\_\_\_  
 Disposable Bailer ☐ Bailer Type \_\_\_\_\_ **Geopump**  
 Pump Started **1430** Pump Stopped **1450** Total Gallons **2.5** Organic Vapor at Well Head **0**

[illegible][illegible]

COMMENTS: \_\_\_\_\_

HYDROLAB: pH Calibration Buffers: 4 ☐ 7 ☐ 10 ☐ Eh Reference Solution \_\_\_\_\_  
SC Reference Solution \_\_\_\_\_ umhos/cm Turbidity Reference Solution \_\_\_\_\_ NTUs

Sample Name \_\_\_\_\_ TIME \_\_\_\_\_ VOCs ☐ Sulfide ☐ Anions/Alkalinity/TDS ☐  
TOC ☐ Cations ☐ Trace Metals ☐ SVOCs ☐ Perchlorate ☐ Explosive ☐ TPH Gas ☐ Dioxin/Furans ☐  
TPH Diesel/Motor Oil ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐  
MS/MSD \_\_\_\_\_ BD \_\_\_\_\_ BD Name/Time \_\_\_\_\_ TB \_\_\_\_\_

# GROUND-WATER/SURFACE WATER SAMPLING LOG

Project No: NSGP Sample Location MW-06 Surface Water ☐ Ground Water ☒  
Sampling [redacted] on Date 9/27/17 Start Time 0850 Weather Overcast 70°F  
Depth to Water 13.56 to Product 45.8 Product Thickness - Measuring Point -  
Borehole Dia. 1" Calculated Purge Volume 4.32 Gallons Total Casing Depth/Dia. -  
Bottom (3 volumes)

Sampling Method: Dedicated Submersible Pump ☐ Portable Submersible Pump ☐  
Dedicated Bladder Pump ☐ Portable Bladder Pump ☐ Surge/Bail ☐ Surge Block Type \_\_\_\_\_  
Disposable Bailer ☐ Bailer Type \_\_\_\_\_ **6 gal bag ✓**  
Pump Started 0850 Pump Stopped 0940 Total Gallons 5.0 Organic Vapor at Well Head 0

[illegible][illegible]

COMMENTS: \_\_\_\_\_

HYDROLAB: pH Calibration Buffers: 4 ☐ 7 ☐ 10 ☐ Eh Reference Solution \_\_\_\_\_  
SC Reference Solution \_\_\_\_\_ umhos/cm Turbidity Reference Solution \_\_\_\_\_ NTUs

Sample Name \_\_\_\_\_ TIME \_\_\_\_\_ VOCs ☐ Sulfide ☐ Anions/Alkalinity/TDS ☐  
TOC ☐ Cations ☐ Trace Metals ☐ SVOCs ☐ Perchlorate ☐ Explosive ☐ TPH Gas ☐ Dioxin/Furans ☐  
TPH Diesel/Motor Oil ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐  
MS/MSD \_\_\_\_\_ BD \_\_\_\_\_ BD Name/Time \_\_\_\_\_ TB \_\_\_\_\_

# GROUND-WATER/SURFACE WATER SAMPLING LOG

Project No: NSGP Sample Location MW-16 Surface Water ☐ Ground Water ☒  
 Sampling Personnel [REDACTED] Date 9/27/17 Start Time 1010 Weather cloudy 70°F  
 Depth to Water 12.45 Depth to Product 53.64 Product Thickness - Measuring Point 0-  
 Borehole Dia. 1 Calculated Purge Volume 5.82 Gallons Total Casing Depth/Dia. -  
Bottom (3 volumes)

Sampling Method: Dedicated Submersible Pump ☐ Portable Submersible Pump ☐  
 Dedicated Bladder Pump ☐ Portable Bladder Pump ☐ Surge/Bail ☐ Surge Block Type -  
 Disposable Bailer ☐ Bailer Type - 600-mp ✓  
 Pump Started 1010 Pump Stopped 1100 Total Gallons 5.5 Organic Vapor at Well Head 0

Time (military)	pH	SC (umhos/cm)	Temp (°C)	Eh-ORP (millivolts)	D.O. (mg/L)	Turbidity (NTU)	Vol Evac. (gal.)	Comments/ Flow rate
<u>1010</u>	<u>5.05</u>	<u>326</u>	<u>17.85</u>	<u>387.4</u>	<u>4.65</u>	<u>47.6</u>		<u>start purge</u>
<u>1015</u>	<u>4.90</u>	<u>300</u>	<u>17.74</u>	<u>393.4</u>	<u>4.40</u>	<u>52.1</u>	<u>0.5</u>	
<u>1020</u>	<u>5.2</u>	<u>409</u>	<u>17.50</u>	<u>399</u>	<u>5.07</u>	<u>228</u>	<u>1</u>	
<u>1025</u>	<u>5.21</u>	<u>400</u>	<u>17.32</u>	<u>353.4</u>	<u>5.65</u>	<u>170.1</u>	<u>1.5</u>	
<u>1030</u>	<u>5.16</u>	<u>395</u>	<u>17.45</u>	<u>392.6</u>	<u>5.78</u>	<u>68.7</u>	<u>2.0</u>	
<u>1035</u>	<u>5.14</u>	<u>392</u>	<u>17.60</u>	<u>403.7</u>	<u>5.87</u>	<u>51.9</u>	<u>2.5</u>	
<u>1040</u>	<u>5.13</u>	<u>388</u>	<u>17.68</u>	<u>415.8</u>	<u>5.60</u>	<u>47.8</u>	<u>3.0</u>	
<u>1045</u>	<u>5.12</u>	<u>386</u>	<u>17.68</u>	<u>421.8</u>	<u>5.86</u>	<u>36.2</u>	<u>3.5</u>	
<u>1050</u>	<u>5.12</u>	<u>385</u>	<u>17.76</u>	<u>428.0</u>	<u>5.89</u>	<u>32.6</u>	<u>4.0</u>	
<u>1055</u>	<u>5.12</u>	<u>384</u>	<u>17.71</u>	<u>430.6</u>	<u>5.73</u>	<u>31.3</u>	<u>4.5</u>	
<u>1100</u>	<u>5.10</u>	<u>383</u>	<u>17.68</u>	<u>431.5</u>	<u>5.78</u>	<u>31.0</u>	<u>5.5</u>	<u>Sample collected</u>

**Final:**

Time	pH	SC	Temp	Eh-ORP	D.O.	Turbidity	Ferrous Iron	Vol Evac.	Comments/Flow rate

COMMENTS:  

HYDROLAB: pH Calibration Buffers: 4 ☐ 7 ☐ 10 ☐ Eh Reference Solution    
 SC Reference Solution   umhos/cm Turbidity Reference Solution   NTUs  
 Sample Name   TIME   VOCs ☐ Sulfide ☐ Anions/Alkalinity/TDS ☐  
 TOC ☐ Cations ☐ Trace Metals ☐ SVOCs ☐ Perchlorate ☐ Explosive ☐ TPH Gas ☐ Dioxin/Furans ☐  
 TPH Diesel/Motor Oil ☐   ☐   ☐   ☐   ☐    
 MS/MSD   BD   BD Name/Time   TB



# GROUND-WATER/SURFACE WATER SAMPLING LOG

Project No: NS 6P Sample Location MW-18 Surface Water ☐ Ground Water ☒  
 Sampling Personnel [redacted] Date 9/27/17 Start Time 1115 Weather cloudy 75°F  
 Depth to Water 14.4 Depth to Product 24.67 Product Thickness Bottom Measuring Point -  
 Borehole Dia. 1 Calculated Purge Volume 1.38 Gallons Total Casing Depth/Dia. -

Sampling Method: Dedicated Submersible Pump ☐ Portable Submersible Pump ☐  
 Dedicated Bladder Pump ☐ Portable Bladder Pump ☐ Surge/Bail ☐ Surge Block Type -  
 Disposable Bailer ☐ Bailer Type - Geopump ✓  
 Pump Started 1115 Pump Stopped 1130 Total Gallons 1.5 Organic Vapor at Well Head 0

Time (military)	pH	SC (umhos/cm)	Temp (°C)	Eh-ORP (millivolts)	D.O. (mg/L)	Turbidity (NTU)	Vol Evac. (gal.)	Comments/ Flow rate
<u>1115</u>	<u>5.11</u>	<u>2235</u>	<u>19.58</u>	<u>366.1</u>	<u>2.94</u>	<u>144.2</u>		<u>Start purge</u>
<u>1120</u>	<u>5.08</u>	<u>2262</u>	<u>19.56</u>	<u>373.0</u>	<u>2.79</u>	<u>174.0</u>	<u>0.5</u>	
<u>1125</u>	<u>4.99</u>	<u>2202</u>	<u>19.61</u>	<u>389.4</u>	<u>3.06</u>	<u>35.2</u>	<u>1.0</u>	
<u>1130</u>	<u>4.96</u>	<u>2182</u>	<u>19.56</u>	<u>394.1</u>	<u>3.13</u>	<u>36.3</u>	<u>1.5</u>	<u>collected sample</u>

**Final:**

Time	pH	SC	Temp	Eh-ORP	D.O.	Turbidity	Ferrous Iron	Vol Evac.	Comments/Flow rate

COMMENTS:  

HYDROLAB: pH Calibration Buffers: 4 ☐ 7 ☐ 10 ☐ Eh Reference Solution    
 SC Reference Solution   umhos/cm Turbidity Reference Solution   NTUs  
 Sample Name   TIME   VOCs ☐ Sulfide ☐ Anions/Alkalinity/TDS ☐  
 TOC ☐ Cations ☐ Trace Metals ☐ SVOCs ☐ Perchlorate ☐ Explosive ☐ TPH Gas ☐ Dioxin/Furans ☐  
 TPH Diesel/Motor Oil ☐   ☐   ☐   ☐   ☐    
 MS/MSD   BD   BD Name/Time   TB

# GROUND-WATER/SURFACE WATER SAMPLING LOG

Project No: NS000 Sample Location MW-13 Surface Water ☐ Ground Water ☒  
Sampling Personnel [redacted] Date 9/27/17 Start Time 1155 Weather Sunny 78°E  
Depth to Water 7.45 Depth to Product 56.85 Product Thickness - Measuring Point -  
Borehole Dia. 1 Calculated Purge Volume 6.66 gallons (3 volumes) Gallons Total Casing Depth/Dia. -

Sampling Method: Dedicated Submersible Pump ☐ Portable Submersible Pump ☐  
Dedicated Bladder Pump ☐ Portable Bladder Pump ☐ Surge/Bail ☐ Surge Block Type \_\_\_\_\_  
Disposable Bailer ☐ Bailer Type \_\_\_\_\_ *Geop-np✓*  
Pump Started 1:55 Pump Stopped 12:45 Total Gallons 6.66 Organic Vapor at Well Head 0

[illegible][illegible]

COMMENTS: \_\_\_\_\_

HYDROLAB: pH Calibration Buffers: 4 ☐ 7 ☐ 10 ☐ Eh Reference Solution \_\_\_\_\_  
SC Reference Solution \_\_\_\_\_ umhos/cm Turbidity Reference Solution \_\_\_\_\_ NTUs

Sample Name \_\_\_\_\_ TIME \_\_\_\_\_ VOCs ☐ Sulfide ☐ Anions/Alkalinity/TDS ☐  
TOC ☐ Cations ☐ Trace Metals ☐ SVOCs ☐ Perchlorate ☐ Explosive ☐ TPH Gas ☐ Dioxin/Furans ☐  
TPH Diesel/Motor Oil ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐  
MS/MSD \_\_\_\_\_ BD \_\_\_\_\_ BD Name/Time \_\_\_\_\_ TB \_\_\_\_\_

# GROUND-WATER/SURFACE WATER SAMPLING LOG

Project No: MSGP Sample Location MCW-14 Surface Water ☐ Ground Water ☒  
Sampling [redacted] Date 9/27/17 Start Time 1300 Weather 3-117 78°F  
Depth to Water 7.55 Depth to Product Bottom 99.19 Product Thickness - Measuring Point -  
Borehole Dia. 1" Calculated Purge Volume 5.66 Gallons (3 volumes) Total Casing Depth/Dia. -

Sampling Method: Dedicated Submersible Pump ☐ Portable Submersible Pump ☐  
Dedicated Bladder Pump ☐ Portable Bladder Pump ☐ Surge/Bail ☐ Surge Block Type \_\_\_\_\_  
Disposable Bailer ☐ Bailer Type \_\_\_\_\_ **6 Pop-Up ✓**  
Pump Started 1300 Pump Stopped 1345 Total Gallons \_\_\_\_\_ Organic Vapor at Well Head 0

[illegible][illegible]

COMMENTS: \_\_\_\_\_

HYDROLAB: pH Calibration Buffers: 4 ☐ 7 ☐ 10 ☐ Eh Reference Solution \_\_\_\_\_  
SC Reference Solution \_\_\_\_\_ umhos/cm Turbidity Reference Solution \_\_\_\_\_ NTUs

Sample Name \_\_\_\_\_ TIME \_\_\_\_\_ VOCs ☐ Sulfide ☐ Anions/Alkalinity/TDS ☐  
TOC ☐ Cations ☐ Trace Metals ☐ SVOCs ☐ Perchlorate ☐ Explosive ☐ TPH Gas ☐ Dioxin/Furans ☐  
TPH Diesel/Motor Oil ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐  
MS/MSD \_\_\_\_\_ BD \_\_\_\_\_ BD Name/Time \_\_\_\_\_ TB \_\_\_\_\_

# GROUND-WATER/SURFACE WATER SAMPLING LOG

Project No: N56P Sample Location MW-10 Surface Water ☐ Ground Water ☒  
Sampling Personnel [REDACTED] Date 9/27/17 Start Time 1400 Weather 5-117 82°F  
Depth to Water 14.25 Depth to Product 53.7 Product Thickness - Measuring Point -  
Borehole Dia. 1" Calculated Purge Volume 5.31 Gallons Total Casing Depth/Dia. 53.7

Sampling Method: Dedicated Submersible Pump ☐ Portable Submersible Pump ☐  
 Dedicated Bladder Pump ☐ Portable Bladder Pump ☐ Surge/Bail ☐ Surge Block Type \_\_\_\_\_  
 Disposable Bailer ☐ Bailer Type \_\_\_\_\_ *Geop-Ar ✓*  
 Pump Started 1400 Pump Stopped 1455 Total Gallons 5.5 Organic Vapor at Well Head 0

[illegible][illegible]

COMMENTS:\_\_\_\_\_

HYDROLAB: pH Calibration Buffers: 4 ☐ 7 ☐ 10 ☐ Eh Reference Solution \_\_\_\_\_  
SC Reference Solution \_\_\_\_\_umhos/cm Turbidity Reference Solution \_\_\_\_\_ NTUs

Sample Name \_\_\_\_\_ TIME \_\_\_\_\_ VOCs ☐ Sulfide ☐ Anions/Alkalinity/TDS ☐  
TOC ☐ Cations ☐ Trace Metals ☐ SVOCs ☐ Perchlorate ☐ Explosive ☐ TPH Gas ☐ Dioxin/Furans ☐  
TPH Diesel/Motor Oil ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐  
MS/MSD \_\_\_\_\_ BD \_\_\_\_\_ BD Name/Time \_\_\_\_\_ TB \_\_\_\_\_

# GROUND-WATER/SURFACE WATER SAMPLING LOG

[illegible][illegible]

COMMENTS: \_\_\_\_\_

HYDROLAB: pH Calibration Buffers: 4 ☐ 7 ☐ 10 ☐ Eh Reference Solution \_\_\_\_\_  
SC Reference Solution \_\_\_\_\_ umhos/cm Turbidity Reference Solution \_\_\_\_\_ NTUs

Sample Name \_\_\_\_\_ TIME \_\_\_\_\_ VOCs ☐ Sulfide ☐ Anions/Alkalinity/TDS ☐  
TOC ☐ Cations ☐ Trace Metals ☐ SVOCs ☐ Perchlorate ☐ Explosive ☐ TPH Gas ☐ Dioxin/Furans ☐  
TPH Diesel/Motor Oil ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐

MS/MSD \_\_\_\_\_ BD \_\_\_\_\_ BD Name/Time \_\_\_\_\_ TB \_\_\_\_\_

# GROUND-WATER/SURFACE WATER SAMPLING LOG

Project No: NSGP Sample Location M4-21 Surface Water ☐ Ground Water ☒  
Sampling Personnel [redacted] Date 2/14/17 Start Time 8:45 Weather 45°F cloudy  
Depth to Water 22.87 Depth to Product 29.26 Product Thickness 7 Measuring Point —  
Borehole Dia. 2 Calculated Purge Volume 20 ~~Gallons~~ Total Casing Depth/Dia. 11

[illegible][illegible]

COMMENTS: PH Buffer test: 6.98

HYDROLAB: pH Calibration Buffers: 4 ☐ 7 ☒ 10 ☐ Eh Reference Solution \_\_\_\_\_  
SC Reference Solution \_\_\_\_\_ umhos/cm Turbidity Reference Solution \_\_\_\_\_ NTUs

Sample Name \_\_\_\_\_ TIME \_\_\_\_\_ VOCs ☐ Sulfide ☐ Anions/Alkalinity/TDS ☐  
TOC ☐ Cations ☐ Trace Metals ☐ SVOCs ☐ Perchlorate ☐ Explosive ☐ TPH Gas ☐ Dioxin/Furans ☐  
TPH Diesel/Motor Oil ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐  
MS/MSD \_\_\_\_\_ BD \_\_\_\_\_ BD Name/Time \_\_\_\_\_ TB \_\_\_\_\_

# GROUND-WATER/SURFACE WATER SAMPLING LOG

Project No: NSGP Sample Location MW-22 shallow Surface Water ☐ Ground Water ☒  
Sampling Personnel [REDACTED] Date 3/14/17 Start Time 1040 Weather 45°F cloudy  
Depth to Water 23.12 Depth to Product 29.36 Product Thickness — Measuring Point —  
Borehole Dia. 1 <sup>Bottom</sup> Calculated Purge Volume 14 <sub>liters</sub> Gallons Total Casing Depth/Dia. 29.36

[illegible][illegible]

COMMENTS: \_\_\_\_\_

HYDROLAB: pH Calibration Buffers: 4 ☐ 7 ☐ 10 ☐ Eh Reference Solution \_\_\_\_\_  
SC Reference Solution \_\_\_\_\_ umhos/cm Turbidity Reference Solution \_\_\_\_\_ NTUs

Sample Name \_\_\_\_\_ TIME \_\_\_\_\_ VOCs ☐ Sulfide ☐ Anions/Alkalinity/TDS ☐  
TOC ☐ Cations ☐ Trace Metals ☐ SVOCs ☐ Perchlorate ☐ Explosive ☐ TPH Gas ☐ Dioxin/Furans ☐  
TPH Diesel/Motor Oil ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐

MS/MSD \_\_\_\_\_ BD \_\_\_\_\_ BD Name/Time \_\_\_\_\_ TB \_\_\_\_\_

## GROUND-WATER/SURFACE WATER SAMPLING LOG

Project No: NSG-P Sample Location MW-22 Deep Surface Water ☐ Ground Water ☒  
 [REDACTED] SA 2/14/17 Start Time 1002 Weather 45°F  
 Depth to Water 23.27 Depth to Product 49.56' Product Thickness — Measuring Point —  
 Borehole Dia. 1 Bottom of well Calculated Purge Volume 5.625 Gallons 1  
 Lites

[illegible][illegible]

COMMENTS: \_\_\_\_\_

HYDROLAB: pH Calibration Buffers: 4 ☐ 7 ☐ 10 ☐ Eh Reference Solution \_\_\_\_\_  
SC Reference Solution \_\_\_\_\_ umhos/cm Turbidity Reference Solution \_\_\_\_\_ NTUs

Sample Name \_\_\_\_\_ TIME \_\_\_\_\_ VOCs ☐ Sulfide ☐ Anions/Alkalinity/TDS ☐  
TOC ☐ Cations ☐ Trace Metals ☐ SVOCs ☐ Perchlorate ☐ Explosive ☐ TPH Gas ☐ Dioxin/Furans ☐  
TPH Diesel/Motor Oil ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐  
MS/MSD \_\_\_\_\_ BD \_\_\_\_\_ BD Name/Time \_\_\_\_\_ TB \_\_\_\_\_



# GROUND-WATER/SURFACE WATER SAMPLING LOG

Project No: NSGP Sample Location MW-23 Surface Water ☐ Ground Water ☒  
Sampling [REDACTED] Date 2/14/17 Start Time 13:00 Weather 45°F Cloudy  
Depth to Water 22.14' Depth to Product 27.95' Product Thickness — Measuring Point 25'  
Borehole Dia. 1 Calculated Purge Volume 12.5 Gallons Total Casing Depth/Dia. 1  
Liters

[illegible][illegible]

COMMENTS: \_\_\_\_\_

HYDROLAB: pH Calibration Buffers: 4 ☐ 7 ☐ 10 ☐ Eh Reference Solution \_\_\_\_\_  
SC Reference Solution \_\_\_\_\_ umhos/cm Turbidity Reference Solution \_\_\_\_\_ NTUs

Sample Name \_\_\_\_\_ TIME \_\_\_\_\_ VOCs ☐ Sulfide ☐ Anions/Alkalinity/TDS ☐  
TOC ☐ Cations ☐ Trace Metals ☐ SVOCs ☐ Perchlorate ☐ Explosive ☐ TPH Gas ☐ Dioxin/Furans ☐  
TPH Diesel/Motor Oil ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐  
MS/MSD \_\_\_\_\_ BD \_\_\_\_\_ BD Name/Time \_\_\_\_\_ TB \_\_\_\_\_

# GROUND-WATER/SURFACE WATER SAMPLING LOG

Project No: NSGP Sample Location MW-24 Surface Water ☐ Ground Water ☒  
Sampling Personnel [REDACTED] 2/14/17 Start Time 1400 Weather 45°F cloudy  
Depth to Water 20.50' Depth to Product 24.5' Product Thickness — Measuring Point —  
Borehole Dia. 1 Calculated Purge Volume 15 <sup>Gallons</sup>/<sub>Liters</sub> Total Casing Depth/Dia. 1

[illegible][illegible]

COMMENTS: \_\_\_\_\_

HYDROLAB: pH Calibration Buffers: 4 ☐ 7 ☐ 10 ☐ Eh Reference Solution \_\_\_\_\_  
SC Reference Solution \_\_\_\_\_ umhos/cm Turbidity Reference Solution \_\_\_\_\_ NTUs

Sample Name \_\_\_\_\_ TIME \_\_\_\_\_ VOCs ☐ Sulfide ☐ Anions/Alkalinity/TDS ☐  
TOC ☐ Cations ☐ Trace Metals ☐ SVOCs ☐ Perchlorate ☐ Explosive ☐ TPH Gas ☐ Dioxin/Furans ☐  
TPH Diesel/Motor Oil ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐  
MS/MSD \_\_\_\_\_ BD \_\_\_\_\_ BD Name/Time \_\_\_\_\_ TB \_\_\_\_\_

DNREC # 257020

## GROUND-WATER/SURFACE WATER SAMPLING LOG

Project No: NSGP Sample Location MW-25 Surface Water ☐ Ground Water ☒  
 Sampling 2/14/17 Start Time 1522 Weather 45° cloudy  
 Depth to Water 17.75' Depth to Product 24.4' Product Thickness — Measuring Point —  
 Borehole Dia. 1 Calculated Purge Volume — Gallons — Total Casing Depth/Dia. 1

Sampling Method: Dedicated Submersible Pump ☐ Portable Submersible Pump ☐ geopump ✓  
 Dedicated Bladder Pump ☐ Portable Bladder Pump ☐ Surge/Bail ☐ Surge Block Type —  
 Disposable Bailer ☐ Bailer Type —  
 Pump Started 1522 Pump Stopped 1547 Total 15 Gallons — Organic Vapor at Well Head 0.1

Time (military)	pH	SC (umhos/cm)	Temp (°C)	Eh-ORP (millivolts)	D.O. (mg/L)	Turbidity (NTU)	Vol Evac. (gal.)	Comments/ Flow rate
<u>1522</u>	<u>6.44</u>	<u>408</u>	<u>10.25</u>	<u>-46.2</u>	<u>10.39</u>	<u>10.71</u>	<u>—</u>	<u>0.1 PID 0.6 LPM</u>
<u>1527</u>	<u>6.33</u>	<u>360</u>	<u>10.89</u>	<u>-14.9</u>	<u>10.47</u>	<u>346</u>	<u>—</u>	<u>0.6 LPM</u>
<u>1532</u>	<u>6.09</u>	<u>327</u>	<u>10.91</u>	<u>-11.9</u>	<u>9.8</u>	<u>6.6</u>	<u>—</u>	<u>0.6 LPM</u>
<u>1537</u>	<u>6.17</u>	<u>319</u>	<u>11.06</u>	<u>-24.0</u>	<u>11.60</u>	<u>4.4</u>	<u>—</u>	<u>0.6 LPM</u>
<u>1542</u>	<u>6.19</u>	<u>303</u>	<u>10.80</u>	<u>67.0</u>	<u>13.71</u>	<u>23.0</u>	<u>—</u>	<u>0.6 LPM</u>
<u>1547</u>	<u>6.09</u>	<u>300</u>	<u>10.82</u>	<u>66.3</u>	<u>13.72</u>	<u>6.1</u>	<u>—</u>	<u>0.6 LPM</u>

Sample Collected @ 1550

## Final:

Time	pH	SC	Temp	Eh-ORP	D.O.	Turbidity	Ferrous Iron	Vol Evac.	Comments/Flow rate

## COMMENTS:

HYDROLAB: pH Calibration Buffers: 4 ☐ 7 ☐ 10 ☐ Eh Reference Solution —  
 SC Reference Solution — umhos/cm Turbidity Reference Solution — NTUs

Sample Name — TIME — VOCs ☐ Sulfide ☐ Anions/Alkalinity/TDS ☐  
 TOC ☐ Cations ☐ Trace Metals ☐ SVOCs ☐ Perchlorate ☐ Explosive ☐ TPH Gas ☐ Dioxin/Furans ☐  
 TPH Diesel/Motor Oil ☐ — ☐ — ☐ — ☐ — ☐  
 MS/MSD — BD — BD Name/Time — TB —

# GROUND-WATER/SURFACE WATER SAMPLING LOG

[illegible][illegible]

COMMENTS: \_\_\_\_\_

HYDROLAB: pH Calibration Buffers: 4 ☐ 7 ☐ 10 ☐ Eh Reference Solution \_\_\_\_\_  
SC Reference Solution \_\_\_\_\_ umhos/cm Turbidity Reference Solution \_\_\_\_\_ NTUs

Sample Name \_\_\_\_\_ TIME \_\_\_\_\_ VOCs ☐ Sulfide ☐ Anions/Alkalinity/TDS ☐  
TOC ☐ Cations ☐ Trace Metals ☐ SVOCs ☐ Perchlorate ☐ Explosive ☐ TPH Gas ☐ Dioxin/Furans ☐  
TPH Diesel/Motor Oil ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐  
MS/MSD \_\_\_\_\_ BD \_\_\_\_\_ BD Name/Time \_\_\_\_\_ TB \_\_\_\_\_

# GROUND-WATER/SURFACE WATER SAMPLING LOG

Project No: NSGP Sample Location MW-26 Deep Surface Water ☐ Ground Water ☒  
Sampling From [REDACTED] Date 2/15/17 Start Time 1012 Weather 52°F  
Depth to Water 15.68' Depth to Product Bottom 49.27' Product Thickness — Measuring Point —  
Borehole Dia. 1 Calculated Purge Volume Gallons Total Casing Depth/Dia. 1  
Liters

[illegible][illegible]

COMMENTS: \_\_\_\_\_

HYDROLAB: pH Calibration Buffers: 4 ☐ 7 ☐ 10 ☐ Eh Reference Solution \_\_\_\_\_  
SC Reference Solution \_\_\_\_\_ umhos/cm Turbidity Reference Solution \_\_\_\_\_ NTUs

Sample Name \_\_\_\_\_ TIME \_\_\_\_\_ VOCs ☐ Sulfide ☐ Anions/Alkalinity/TDS ☐  
TOC ☐ Cations ☐ Trace Metals ☐ SVOCs ☐ Perchlorate ☐ Explosive ☐ TPH Gas ☐ Dioxin/Furans ☐  
TPH Diesel/Motor Oil ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐  
MS/MSD \_\_\_\_\_ BD \_\_\_\_\_ BD Name/Time \_\_\_\_\_ TB \_\_\_\_\_

# GROUND-WATER/SURFACE WATER SAMPLING LOG

Project No: NSGP Sample Location MW -27 Surface Water ☐ Ground Water ☒

Sampling Personnel \_\_\_\_\_ Date 2/15/17 Start Time 11:55 Weather 52° F

Depth to Water 16.5' Depth to ~~Bottom~~ Product 24.7' Product Thickness — Measuring Point —

Borehole Dia. 1 Calculated Purge Volume — ~~Gallons~~ liters Total Casing Depth/Dia. 1

[illegible][illegible]

COMMENTS: \_\_\_\_\_

HYDROLAB: pH Calibration Buffers: 4 ☐ 7 ☐ 10 ☐ Eh Reference Solution \_\_\_\_\_  
SC Reference Solution \_\_\_\_\_ umhos/cm Turbidity Reference Solution \_\_\_\_\_ NTUs

Sample Name \_\_\_\_\_ TIME \_\_\_\_\_ VOCs ☐ Sulfide ☐ Anions/Alkalinity/TDS ☐  
TOC ☐ Cations ☐ Trace Metals ☐ SVOCs ☐ Perchlorate ☐ Explosive ☐ TPH Gas ☐ Dioxin/Furans ☐  
TPH Diesel/Motor Oil ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐  
MS/MSD \_\_\_\_\_ BD \_\_\_\_\_ BD Name/Time \_\_\_\_\_ TB \_\_\_\_\_



# GROUND-WATER/SURFACE WATER SAMPLING LOG

[illegible][illegible]

COMMENTS: PH Bump test: 7.04

HYDROLAB: pH Calibration Buffers: 4 ☐ 7 ☒ 10 ☐ Eh Reference Solution \_\_\_\_\_  
SC Reference Solution \_\_\_\_\_ umhos/cm Turbidity Reference Solution \_\_\_\_\_ NTUs

Sample Name \_\_\_\_\_ TIME \_\_\_\_\_ VOCs ☐ Sulfide ☐ Anions/Alkalinity/TDS ☐  
TOC ☐ Cations ☐ Trace Metals ☐ SVOCs ☐ Perchlorate ☐ Explosive ☐ TPH Gas ☐ Dioxin/Furans ☐  
TPH Diesel/Motor Oil ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐  
MS/MSD \_\_\_\_\_ BD \_\_\_\_\_ BD Name/Time \_\_\_\_\_ TB \_\_\_\_\_

# GROUND-WATER/SURFACE WATER SAMPLING LOG

Project No: A-65P NSGP Sample Location 22-shallow Surface Water ☐ Ground Water ☒  
Sampling [REDACTED] Date 9/25/17 Start Time 13:10 Weather Sunny 85°F  
Depth to Water 22.6 Depth to Product 29.38 Product Thickness - Measuring Point -  
Borehole Dia. 1 Calculated Purge Volume 0.9 Gallons Total Casing Depth/Dia. -

Sampling Method: Dedicated Submersible Pump ☐ Portable Submersible Pump ☐  
Dedicated Bladder Pump ☐ Portable Bladder Pump ☐ Surge/Bail ☐ Surge Block Type \_\_\_\_\_  
Disposable Bailer ☐ Bailer Type \_\_\_\_\_ *GEO pump* ✓  
Pump Started 1320 Pump Stopped 1335 Total Gallons 2.5 Organic Vapor at Well Head 0  
*Liters*

[illegible][illegible]

COMMENTS: \_\_\_\_\_

HYDROLAB: pH Calibration Buffers: 4 ☐ 7 ☐ 10 ☐ Eh Reference Solution \_\_\_\_\_  
SC Reference Solution \_\_\_\_\_ umhos/cm Turbidity Reference Solution \_\_\_\_\_ NTUs

Sample Name \_\_\_\_\_ TIME \_\_\_\_\_ VOCs ☐ Sulfide ☐ Anions/Alkalinity/TDS ☐  
TOC ☐ Cations ☐ Trace Metals ☐ SVOCs ☐ Perchlorate ☐ Explosive ☐ TPH Gas ☐ Dioxin/Furans ☐  
TPH Diesel/Motor Oil ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐  
MS/MSD \_\_\_\_\_ BD \_\_\_\_\_ BD Name/Time \_\_\_\_\_ TB \_\_\_\_\_

## GROUND-WATER/SURFACE WATER SAMPLING LOG

Project No: NSGP Sample Location 22-Deep Surface Water ☐ Ground Water ☒  
Sampling [redacted] [redacted] Date 9/25/17 Start Time 12:15 Weather Sunny 85°F  
Depth to Water 22.74 Depth to Product 49.65 Product Thickness - Measuring Point -  
Borehole Dia. 1 Calculated Purge Volume 3.63 Gallons Total Casing Depth/Dia. -

Sampling Method: Dedicated Submersible Pump ☐ Portable Submersible Pump ☐  
Dedicated Bladder Pump ☐ Portable Bladder Pump ☐ Surge/Bail ☐ Surge Block Type \_\_\_\_\_  
Disposable Bailer ☐ Bailer Type \_\_\_\_\_ *Geopump*  
Pump Started 1215 Pump Stopped 1250 Total Gallons 4 Organic Vapor at Well Head 0

[illegible][illegible]

COMMENTS: \_\_\_\_\_

HYDROLAB: pH Calibration Buffers: 4 ☐ 7 ☐ 10 ☐ Eh Reference Solution \_\_\_\_\_  
SC Reference Solution \_\_\_\_\_ umhos/cm Turbidity Reference Solution \_\_\_\_\_ NTUs

Sample Name \_\_\_\_\_ TIME \_\_\_\_\_ VOCs ☐ Sulfide ☐ Anions/Alkalinity/TDS ☐  
TOC ☐ Cations ☐ Trace Metals ☐ SVOCs ☐ Perchlorate ☐ Explosive ☐ TPH Gas ☐ Dioxin/Furans ☐  
TPH Diesel/Motor Oil ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐  
MS/MSD \_\_\_\_\_ BD \_\_\_\_\_ BD Name/Time \_\_\_\_\_ TB \_\_\_\_\_

# GROUND-WATER/SURFACE WATER SAMPLING LOG

Project No: NSG-0 Sample Location MW-23 Surface Water ☐ Ground Water ☒  
 Sampling 9/25/17 Date 9/25/17 Start Time 1042 Weather Sunny 80°  
 Depth to Water 21.50 to Product 27.95 Product Thickness - Measuring Point -  
 Borehole Dia. 1 inch Calculated Purge Volume 1.5 Gallons total Total Casing Depth/Dia. 1 inch

Sampling Method: Dedicated Submersible Pump ☐ Portable Submersible Pump ☐  
 Dedicated Bladder Pump ☐ Portable Bladder Pump ☐ Surge/Bail ☐ Surge Block Type -  
 Disposable Bailer ☐ Bailer Type 90 pump ✓  
 Pump Started 1045 Pump Stopped 11 Total Gallons 7.5 Organic Vapor at Well Head 0  
liters

Time (military)	pH	SC (umhos/cm)	Temp (°C)	Eh-ORP (millivolts)	D.O. (mg/L)	Turbidity (NTU)	Vol Evac. (gal.)	Comments/ Flow rate
1045	5.40	220	17.50	290	8.24	32.2	0	0.5 L/min
1050	4.87	216	16.95	381	7.36	30.9	0.5	0.5 L/min
1055	4.95	219	17.55	391.9	7.82	30.8	1.0	0.5 L/min
1100	5.02	224	18.41	412	7.08	34.7	1.5	0.5 L/min
1105								collected sample

**Final:**

Time	pH	SC	Temp	Eh-ORP	D.O.	Turbidity	Ferrous Iron	Vol Evac.	Comments/Flow rate

COMMENTS:  

HYDROLAB: pH Calibration Buffers: 4 ☐ 7 ☐ 10 ☐ Eh Reference Solution    
 SC Reference Solution   umhos/cm Turbidity Reference Solution   NTUs  
 Sample Name   TIME   VOCs ☐ Sulfide ☐ Anions/Alkalinity/TDS ☐  
 TOC ☐ Cations ☐ Trace Metals ☐ SVOCs ☐ Perchlorate ☐ Explosive ☐ TPH Gas ☐ Dioxin/Furans ☐  
 TPH Diesel/Motor Oil ☐   ☐   ☐   ☐   ☐    
 MS/MSD   BD   BD Name/Time   TB



## GROUND-WATER/SURFACE WATER SAMPLING LOG

Project No: NSGP Sample Location MW-24 Surface Water ☐ Ground Water ☒  
Sampling P 6.06 Date 9/26/17 Start Time 0930 Weather overcast 75°  
Depth to Water 19.55 Depth to Product 24.5 Product Thickness - Measuring Point -  
Borehole Dia. 1" Calculated Purge Volume 0.66 Gallons Total Casing Depth/Dia. -

Sampling Method: Dedicated Submersible Pump ☐ Portable Submersible Pump ☐  
Dedicated Bladder Pump ☐ Portable Bladder Pump ☐ Surge/Bail ☐ Surge Block Type \_\_\_\_\_  
Disposable Bailer ☐ Bailer Type \_\_\_\_\_ *Geopump* ✓  
Pump Started 0930 Pump Stopped 0945 Total Gallons 0.75 Organic Vapor at Well Head 0

[illegible][illegible]

COMMENTS: \_\_\_\_\_

HYDROLAB: pH Calibration Buffers: 4 ☐ 7 ☐ 10 ☐ Eh Reference Solution \_\_\_\_\_  
SC Reference Solution \_\_\_\_\_ umhos/cm Turbidity Reference Solution \_\_\_\_\_ NTUs

Sample Name \_\_\_\_\_ TIME \_\_\_\_\_ VOCs ☐ Sulfide ☐ Anions/Alkalinity/TDS ☐  
TOC ☐ Cations ☐ Trace Metals ☐ SVOCs ☐ Perchlorate ☐ Explosive ☐ TPH Gas ☐ Dioxin/Furans ☐  
TPH Diesel/Motor Oil ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐  
MS/MSD \_\_\_\_\_ BD \_\_\_\_\_ BD Name/Time \_\_\_\_\_ TB \_\_\_\_\_



## GROUND-WATER/SURFACE WATER SAMPLING LOG

Project No: NS6P Sample Location MW-26 Shallow Surface Water ☐ Ground Water ☒  
Sampling 6/25/17 Date 9/25/17 Start Time 1425 Weather overcast 85  
Depth to Water 15.84' Depth to Product 21.8' Product Thickness - Measuring Point -  
Borehole Dia. 1 Calculated Purge Volume 0.81 Gallons Total Casing Depth/Dia. 1

Sampling Method: Dedicated Submersible Pump ☐ Portable Submersible Pump ☐  
Dedicated Bladder Pump ☐ Portable Bladder Pump ☐ Surge/Bail ☐ Surge Block Type \_\_\_\_\_  
Disposable Bailer ☐ Bailer Type \_\_\_\_\_ *6 pop-rmp ✓*  
Pump Started 1425 Pump Stopped 1440 Total Gallons 1.0 Organic Vapor at Well Head 0

[illegible][illegible]

COMMENTS: \_\_\_\_\_

HYDROLAB: pH Calibration Buffers: 4 ☐ 7 ☐ 10 ☐ Eh Reference Solution \_\_\_\_\_  
SC Reference Solution \_\_\_\_\_ umhos/cm Turbidity Reference Solution \_\_\_\_\_ NTUs

Sample Name \_\_\_\_\_ TIME \_\_\_\_\_ VOCs ☐ Sulfide ☐ Anions/Alkalinity/TDS ☐  
TOC ☐ Cations ☐ Trace Metals ☐ SVOCs ☐ Perchlorate ☐ Explosive ☐ TPH Gas ☐ Dioxin/Furans ☐  
TPH Diesel/Motor Oil ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐  
MS/MSD \_\_\_\_\_ BD \_\_\_\_\_ BD Name/Time \_\_\_\_\_ TB \_\_\_\_\_

# GROUND-WATER/SURFACE WATER SAMPLING LOG

Project No: NSGP Sample Location 26-DEEP Surface Water ☐ Ground Water ☒  
Sampling 9/25/17 Start Time 1455 Weather sun 85°f  
Depth to Water 16.68 Depth to Product 49.35 Product Thickness 1 Measuring Point -  
Borehole Dia. 1 Calculated Purge Volume 4.4 Gallons Total Casing Depth/Dia. 2

Sampling Method: Dedicated Submersible Pump ☐ Portable Submersible Pump ☐  
Dedicated Bladder Pump ☐ Portable Bladder Pump ☐ Surge/Bail ☐ Surge Block Type \_\_\_\_\_  
Disposable Bailer ☐ Bailer Type \_\_\_\_\_ *Geopump* ✓  
Pump Started 1455 Pump Stopped 1530 Total Gallons 4.5 Organic Vapor at Well Head 0

[illegible][illegible]

COMMENTS: \_\_\_\_\_

HYDROLAB: pH Calibration Buffers: 4 ☐ 7 ☐ 10 ☐ Eh Reference Solution \_\_\_\_\_  
SC Reference Solution \_\_\_\_\_ umhos/cm Turbidity Reference Solution \_\_\_\_\_ NTUs

Sample Name \_\_\_\_\_ TIME \_\_\_\_\_ VOCs ☐ Sulfide ☐ Anions/Alkalinity/TDS ☐  
TOC ☐ Cations ☐ Trace Metals ☐ SVOCs ☐ Perchlorate ☐ Explosive ☐ TPH Gas ☐ Dioxin/Furans ☐  
TPH Diesel/Motor Oil ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐  
MS/MSD \_\_\_\_\_ BD \_\_\_\_\_ BD Name/Time \_\_\_\_\_ TB \_\_\_\_\_





PAC - MW - 1

Project No: NS 6P Sample Location DPZ-2 Surface Water ☐ Ground Water ☒  
Sampling [redacted] Date 9/26/17 Start Time 1120 Weather 75 cloudy  
Depth to Water 14.5 Depth to Product 17.8 Product Thickness          Measuring Point           
Borehole Dia. 2 inch well <sup>Bottom</sup> Calculated Purge Volume 1.74 Gallons (3 volumes) Total Casing Depth/Dia. -

[illegible][illegible]

COMMENTS: GPS 29.65864, 75.73733 Elevation 328

HYDROLAB: pH Calibration Buffers: 4 ☐ 7 ☐ 10 ☐ Eh Reference Solution \_\_\_\_\_  
SC Reference Solution \_\_\_\_\_ umhos/cm Turbidity Reference Solution \_\_\_\_\_ NTUs

Sample Name \_\_\_\_\_ TIME \_\_\_\_\_ VOCs ☐ Sulfide ☐ Anions/Alkalinity/TDS ☐  
TOC ☐ Cations ☐ Trace Metals ☐ SVOCs ☐ Perchlorate ☐ Explosive ☐ TPH Gas ☐ Dioxin/Furans ☐  
TPH Diesel/Motor Oil ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐  
MS/MSD \_\_\_\_\_ BD \_\_\_\_\_ BD Name/Time \_\_\_\_\_ TB \_\_\_\_\_

# GROUND-WATER/SURFACE WATER SAMPLING LOG

Project No: NSGP Sample Location: PPC-MW-2 Surface Water ☐ Ground Water ☒  
Sampling [REDACTED] Date 9/26/17 Start Time 1210 Weather 75 cloudy  
Depth to Water 13.6 Depth to Product 17.25 Product Thickness — Measuring Point 1  
Borehole Dia. 2" Calculated Purge Volume 1.96 Gallons Total Casing Depth/Dia. —

[illegible][illegible]

COMMENTS: \_\_\_\_\_

HYDROLAB: pH Calibration Buffers: 4 ☐ 7 ☐ 10 ☐ Eh Reference Solution \_\_\_\_\_  
SC Reference Solution \_\_\_\_\_ umhos/cm Turbidity Reference Solution \_\_\_\_\_ NTUs

Sample Name \_\_\_\_\_ TIME \_\_\_\_\_ VOCs ☐ Sulfide ☐ Anions/Alkalinity/TDS ☐  
TOC ☐ Cations ☐ Trace Metals ☐ SVOCs ☐ Perchlorate ☐ Explosive ☐ TPH Gas ☐ Dioxin/Furans ☐  
TPH Diesel/Motor Oil ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐  
MS/MSD \_\_\_\_\_ BD \_\_\_\_\_ BD Name/Time \_\_\_\_\_ TB \_\_\_\_\_

# Sample Summary Report

Case No: 46807	Contract: EPW14030	SDG No: C0AA0	Lab Code: CHM
Sample Number: C0AA0	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW-21	pH: 1.0	Sample Date: 02/14/2017	Sample Time: 09:25:00
% Moisture :		% Solids :	0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethene	Target	0.50	UJ	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
trans-1,2-Dichloroethene	Target	0.50	UJ	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,2-Dichloroethene	Target	0.50	UJ	ug/L	0.50	U	1.0	Yes	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM



Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Total Alkanes	TIC	0.69	B	ug/L	0.69	B	1.0	Yes	NV
1-Hexanol, 2-ethyl-	TIC	1.5	J	ug/L	1.5	J	1.0	Yes	NV

Case No: 46807	Contract: EPW14030	SDG No: C0AA0	Lab Code: CHM
Sample Number: C0AA1	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW-22 Deep	pH: 1.0	Sample Date: 02/14/2017	Sample Time: 10:20:00
% Moisture :		% Solids :	0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1-Hexanol, 2-ethyl-	TIC	1.8	J	ug/L	1.8	J	1.0	Yes	NV
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 46807	Contract: EPW14030	SDG No: C0AA0	Lab Code: CHM
Sample Number: C0AA2	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW-22 Shallow	pH: 1.0	Sample Date: 02/14/2017	Sample Time: 11:15:00
% Moisture :		% Solids :	0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl tert-butyl Ether	Target	0.14	J	ug/L	0.14	J	1.0	Yes	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroform	Target	0.57		ug/L	0.57		1.0	Yes	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM



Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1-Hexanol, 2-ethyl-	TIC	0.86	J	ug/L	0.86	J	1.0	Yes	NV
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 46807	Contract: EPW14030	SDG No: C0AA0	Lab Code: CHM
Sample Number: C0AA3	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW-23	pH: 1.0	Sample Date: 02/14/2017	Sample Time: 13:30:00
% Moisture :		% Solids :	0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroform	Target	0.60		ug/L	0.60		1.0	Yes	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1-Hexanol, 2-ethyl-	TIC	1.0	J	ug/L	1.0	J	1.0	Yes	NV
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 46807	Contract: EPW14030	SDG No: C0AA0	Lab Code: CHM
Sample Number: C0AA4	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW-24	pH: 1.0	Sample Date: 02/14/2017	Sample Time: 14:55:00
% Moisture :		% Solids :	0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Carbon disulfide	Target	0.36	J	ug/L	0.36	J	1.0	Yes	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Toluene	Target	0.49	J	ug/L	0.49	J	1.0	Yes	S4VEM



Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Tetrachloroethene	Target	0.32	J	ug/L	0.32	J	1.0	Yes	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1-Hexanol, 2-ethyl-	TIC	0.51	J	ug/L	0.51	J	1.0	Yes	NV
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 46807	Contract: EPW14030	SDG No: C0AA0	Lab Code: CHM
Sample Number: C0AA5	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW-25	pH: 1.0	Sample Date: 02/14/2017	Sample Time: 15:50:00
% Moisture :		% Solids :	0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Acetone	Target	5.0	U	ug/L	2.3	J	1.0	Yes	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl tert-butyl Ether	Target	0.13	J	ug/L	0.13	J	1.0	Yes	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Tetrachloroethene	Target	0.18	J	ug/L	0.18	J	1.0	Yes	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 46807	Contract: EPW14030	SDG No: C0AA0	Lab Code: CHM
Sample Number: C0AA6	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: TB-01	pH: 1.0	Sample Date: 02/14/2017	Sample Time: 08:40:00
% Moisture :		% Solids :	0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloromethane	Target	0.49	J	ug/L	0.49	J	1.0	Yes	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Acetone	Target	9.1		ug/L	9.1		1.0	Yes	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylene chloride	Target	0.15	J	ug/L	0.15	J	1.0	Yes	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM



Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Ethylbenzene	Target	0.18	J	ug/L	0.18	J	1.0	Yes	S4VEM
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
m,p-xylene	Target	0.16	J	ug/L	0.16	J	1.0	Yes	S4VEM
Styrene	Target	0.21	J	ug/L	0.21	J	1.0	Yes	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Total Alkanes	TIC			ug/L			1.0	Yes	NV
1-Hexanol, 2-ethyl-	TIC	0.92	J	ug/L	0.92	J	1.0	Yes	NV

Case No: 46807	Contract: EPW14030	SDG No: C0AA0	Lab Code: CHM
Sample Number: C0AA7	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW-21	pH: 1.0	Sample Date: 02/14/2017	Sample Time: 09:30:00
% Moisture :		% Solids :	0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Total Alkanes	TIC	0.99	B	ug/L	0.99	B	1.0	Yes	NV
1-Hexanol, 2-ethyl-	TIC	1.3	J	ug/L	1.3	J	1.0	Yes	NV

Case No: 46807	Contract: EPW14030	SDG No: C0AA0	Lab Code: CHM
Sample Number: C0AB0	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW-26 Deep	pH: 1.0	Sample Date: 02/15/2017	Sample Time: 11:10:00
% Moisture :		% Solids :	0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Acetone	Target	8.8	U	ug/L	8.8		1.0	Yes	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.16	J	1.0	Yes	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl tert-butyl Ether	Target	0.31	J	ug/L	0.31	J	1.0	Yes	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM



Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Tetrachloroethene	Target	0.29	J	ug/L	0.29	J	1.0	Yes	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 46807	Contract: EPW14030	SDG No: C0AA0	Lab Code: CHM
Sample Number: C0AB1	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW-26 Shallow	pH: 1.0	Sample Date: 02/15/2017	Sample Time: 09:40:00
% Moisture :		% Solids :	0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Acetone	Target	5.2	U	ug/L	5.2		1.0	Yes	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl tert-butyl Ether	Target	0.30	J	ug/L	0.30	J	1.0	Yes	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 46807	Contract: EPW14030	SDG No: C0AA0	Lab Code: CHM
Sample Number: C0AB2	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW-27	pH: 1.0	Sample Date: 02/15/2017	Sample Time: 12:45:00
% Moisture :		% Solids :	0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Acetone	Target	5.6	U	ug/L	5.6		1.0	Yes	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Total Alkanes	TIC			ug/L			1.0	Yes	NV
1-Hexanol, 2-ethyl-	TIC	0.50	J	ug/L	0.50	J	1.0	Yes	NV



Case No: 46807	Contract: EPW14030	SDG No: C0AA0	Lab Code: CHM
Sample Number: C0AB3	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW-26 Shallow	pH: 1.0	Sample Date: 02/15/2017	Sample Time: 09:30:00
% Moisture :		% Solids :	0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl tert-butyl Ether	Target	0.35	J	ug/L	0.35	J	1.0	Yes	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Benzene	Target	0.080	J	ug/L	0.080	J	1.0	Yes	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Total Alkanes	TIC			ug/L			1.0	Yes	NV
1-Hexanol, 2-ethyl-	TIC	0.91	J	ug/L	0.91	J	1.0	Yes	NV

Case No: 46807	Contract: EPW14030	SDG No: C0AA0	Lab Code: CHM
Sample Number: C0AB4	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW-10	pH: 1.0	Sample Date: 02/15/2017	Sample Time: 14:35:00
% Moisture :		% Solids :	0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl tert-butyl Ether	Target	0.19	J	ug/L	0.19	J	1.0	Yes	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroform	Target	0.59		ug/L	0.59		1.0	Yes	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Tetrachloroethene	Target	3.2		ug/L	3.2		1.0	Yes	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Total Alkanes	TIC			ug/L			1.0	Yes	NV
1-Hexanol, 2-ethyl-	TIC	0.77	J	ug/L	0.77	J	1.0	Yes	NV

Case No: 46807	Contract: EPW14030	SDG No: C0AA0	Lab Code: CHM
Sample Number: C0AB5	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: TB-02	pH: 1.0	Sample Date: 02/15/2017	Sample Time: 09:00:00
% Moisture :		% Solids :	0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloromethane	Target	0.57		ug/L	0.57		1.0	Yes	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Acetone	Target	11		ug/L	11		1.0	Yes	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylene chloride	Target	0.16	J	ug/L	0.16	J	1.0	Yes	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM



Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Ethylbenzene	Target	0.20	J	ug/L	0.20	J	1.0	Yes	S4VEM
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
m,p-xylene	Target	0.18	J	ug/L	0.18	J	1.0	Yes	S4VEM
Styrene	Target	0.19	J	ug/L	0.19	J	1.0	Yes	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Total Alkanes	TIC			ug/L			1.0	Yes	NV
1-Hexanol, 2-ethyl-	TIC	0.73	J	ug/L	0.73	J	1.0	Yes	NV

Case No: 46807	Contract: EPW14030	SDG No: C0AA0	Lab Code: CHM
Sample Number: C0AB6	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW-10	pH: 1.0	Sample Date: 02/15/2017	Sample Time: 14:25:00
% Moisture :		% Solids :	0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloromethane	Target	0.53	U	ug/L	0.53		1.0	Yes	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl tert-butyl Ether	Target	0.18	J	ug/L	0.18	J	1.0	Yes	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroform	Target	0.66		ug/L	0.66		1.0	Yes	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichloroethene	Target	0.10	J	ug/L	0.10	J	1.0	Yes	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Tetrachloroethene	Target	3.8		ug/L	3.8		1.0	Yes	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 46807	Contract: EPW14030	SDG No: C0AA0	Lab Code: CHM
Sample Number: C0AB7	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW-26 Shallow	pH: 1.0	Sample Date: 02/15/2017	Sample Time: 09:45:00
% Moisture :		% Solids :	0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl tert-butyl Ether	Target	0.30	J	ug/L	0.30	J	1.0	Yes	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1-Hexanol, 2-ethyl-	TIC	1.0	J	ug/L	1.0	J	1.0	Yes	NV
Total Alkanes	TIC			ug/L			1.0	Yes	NV



Case No: 46807	Contract: EPW14030	SDG No: C0AA0	Lab Code: CHM
Sample Number: C0AB8	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW-26 Deep	pH: 1.0	Sample Date: 02/15/2017	Sample Time: 11:00:00
% Moisture :		% Solids :	0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl tert-butyl Ether	Target	0.31	J	ug/L	0.31	J	1.0	Yes	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroform	Target	0.68		ug/L	0.68		1.0	Yes	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Tetrachloroethene	Target	0.14	J	ug/L	0.14	J	1.0	Yes	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Total Alkanes	TIC			ug/L			1.0	Yes	NV
1-Hexanol, 2-ethyl-	TIC	0.51	J	ug/L	0.51	J	1.0	Yes	NV

Case No: 46807	Contract: EPW14030	SDG No: C0AA0	Lab Code: CHM
Sample Number: VBLK52	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 46807	Contract: EPW14030	SDG No: C0AA0	Lab Code: CHM
Sample Number: VBLK53	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids : 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Total Alkanes	TIC			ug/L			1.0	Yes	NV



Case No: 46807	Contract: EPW14030	SDG No: C0AA0	Lab Code: CHM
Sample Number: VHBLK01	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH: 1.6	Sample Date:	Sample Time:
% Moisture :		% Solids :	0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S4VEM
Total Alkanes	TIC			ug/L			1.0	Yes	NV



# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AE5

Lab Code: CHM

Sample Number: C0AE5

Method: Trace Volatiles

Matrix: Water

MA Number:

Sample Location: NSG-092717-GW-10-D pH: 1.0

Sample Date: 09/27/2017

Sample Time: 14:55:00

% Moisture:

% Solids: 0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.34	J	ug/L	0.34	J	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	12		ug/L	12		1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AE5

Lab Code: CHM

Sample Number: C0AE6

Method: Trace Volatiles

Matrix: Water

MA Number:

Sample Location: NSG-092717-GW-10

pH: 1.0

Sample Date: 09/27/2017

Sample Time: 14:50:00

% Moisture:

% Solids: 0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50		ug/L	0.50		1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	10		ug/L	10		1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AE5

Lab Code: CHM

Sample Number: C0AE7

Method: Trace Volatiles

Matrix: Water

MA Number:

Sample Location: NSG-092717-GW-14

pH: 1.0

Sample Date: 09/27/2017

Sample Time: 13:45:00

% Moisture:

% Solids: 0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.56		ug/L	0.56		1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.31	J	ug/L	0.31	J	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.81		ug/L	0.81		1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.22	J	ug/L	0.22	J	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Total Alkanes	TIC			ug/L			1.0	YES	NV



# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AE5

Lab Code: CHM

Sample Number: C0AE9

Method: Trace Volatiles

Matrix: Water

MA Number:

Sample Location: NSG-092717-GW-TB-03

pH: 1.0

Sample Date: 09/27/2017

Sample Time: 08:55:00

% Moisture:

% Solids: 0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	140		ug/L	140		1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	1.8		ug/L	1.8		1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.21	J	ug/L	0.21	J	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	1.2		ug/L	1.2		1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.26	J	ug/L	0.26	J	1.0	YES	S4VEM
m,p-Xylene	Target	0.48	J	ug/L	0.48	J	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM

# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AE5

Lab Code: CHM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Tetrahydrofuran	TIC	1.9	J	ug/L	1.9	J	1.0	YES	NV
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AE5

Lab Code: CHM

Sample Number: VBLK81	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AE5

Lab Code: CHM

Sample Number: VBLK83

Method: Trace Volatiles

Matrix: Water

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AE5

Lab Code: CHM

Sample Number: VHBLK01

Method: Trace Volatiles

Matrix: Water

MA Number:

Sample Location:

pH: 1.3

Sample Date:

Sample Time:

% Moisture:

% Solids: 0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AE5

Lab Code: CHM



# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AB9

Lab Code: CHM

Sample Number: C0AB9

Method: Trace Volatiles

Matrix: Water

MA Number:

Sample Location: NSG-092517-GW-21

pH: 1.0

Sample Date: 09/25/2017

Sample Time: 10:00:00

% Moisture:

% Solids: 0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	9.1	U	ug/L	9.1		1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.81		ug/L	0.81		1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropyl Alcohol	TIC	0.63	J	ug/L	0.63	J	1.0	YES	NV
Silane, methoxytrimethyl-	TIC	1.5	J	ug/L	1.5	J	1.0	YES	NV

# Sample Summary Report

Case: 47127	Contract: EPW14030	SDG: C0AB9	Lab Code: CHM
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Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AB9

Lab Code: CHM

Sample Number: C0AC1

Method: Trace Volatiles

Matrix: Water

MA Number:

Sample Location: NSG-092517-GW-22-Deep

pH: 1.0

Sample Date: 09/25/2017

Sample Time: 12:50:00

% Moisture:

% Solids: 0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	10	U	ug/L	10		1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM

# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AB9

Lab Code: CHM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Silane, methoxytrimethyl-	TIC	1.2	J	ug/L	1.2	J	1.0	YES	NV
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AB9

Lab Code: CHM

Sample Number: C0AC2

Method: Trace Volatiles

Matrix: Water

MA Number:

Sample Location: NSG-092517-GW-22  
Shallow

pH: 1.0

Sample Date: 09/25/2017

Sample Time: 13:40:00

% Moisture:

% Solids: 0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	7.7	U	ug/L	7.7		1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM

# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AB9

Lab Code: CHM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Silane, methoxytrimethyl-	TIC	0.74	J	ug/L	0.74	J	1.0	YES	NV
Total Alkanes	TIC			ug/L			1.0	YES	NV



# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AB9

Lab Code: CHM

Sample Number: C0AC3

Method: Trace Volatiles

Matrix: Water

MA Number:

Sample Location: NSG-092517-GW-23

pH: 1.0

Sample Date: 09/25/2017

Sample Time: 11:05:00

% Moisture:

% Solids: 0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	8.0	U	ug/L	8.0		1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.61		ug/L	0.61		1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Silane, methoxytrimethyl-	TIC	0.82	J	ug/L	0.82	J	1.0	YES	NV

# Sample Summary Report

Case: 47127	Contract: EPW14030	SDG: C0AB9	Lab Code: CHM
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Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AB9

Lab Code: CHM

Sample Number: C0AC4

Method: Trace Volatiles

Matrix: Water

MA Number:

Sample Location: NSG-092517-GW-26-Deep

pH: 1.0

Sample Date: 09/25/2017

Sample Time: 15:30:00

% Moisture:

% Solids: 0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	7.1	U	ug/L	7.1		1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.28	J	ug/L	0.28	J	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM

# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AB9

Lab Code: CHM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Silane, methoxytrimethyl-	TIC	0.58	J	ug/L	0.58	J	1.0	YES	NV
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AB9

Lab Code: CHM

Sample Number: C0AC5

Method: Trace Volatiles

Matrix: Water

MA Number:

Sample Location: NSG-092517-GW-26-  
Shallow

pH: 1.0

Sample Date: 09/25/2017

Sample Time: 14:40:00

% Moisture:

% Solids: 0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	11	U	ug/L	11		1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.31	J	ug/L	0.31	J	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM

# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AB9

Lab Code: CHM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Total Alkanes	TIC			ug/L			1.0	YES	NV
Silane, methoxytrimethyl-	TIC	1.2	J	ug/L	1.2	J	1.0	YES	NV

# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AB9

Lab Code: CHM

Sample Number: C0AC6

Method: Trace Volatiles

Matrix: Water

MA Number:

Sample Location: NSG-092517-GW-TB-01

pH: 1.0

Sample Date: 09/25/2017

Sample Time: 08:45:00

% Moisture:

% Solids: 0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	130		ug/L	130		1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	1.7		ug/L	1.7		1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.20	J	ug/L	0.20	J	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	1.1		ug/L	1.1		1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.11	J	ug/L	0.11	J	1.0	YES	S4VEM
o-xylene	Target	0.23	J	ug/L	0.23	J	1.0	YES	S4VEM
m,p-xylene	Target	0.35	J	ug/L	0.35	J	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM



# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AB9

Lab Code: CHM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Silane, methoxytrimethyl-	TIC	1.6	J	ug/L	1.6	J	1.0	YES	NV
Dimethyl ether	TIC	1.4	J	ug/L	1.4	J	1.0	YES	NV
Isopropyl Alcohol	TIC	0.69	J	ug/L	0.69	J	1.0	YES	NV
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AB9

Lab Code: CHM

Sample Number: C0AC9

Method: Trace Volatiles

Matrix: Water

MA Number:

Sample Location: NSG-092617-GW-PPC-1

pH: 1.0

Sample Date: 09/26/2017

Sample Time: 11:50:00

% Moisture:

% Solids: 0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	8.2	U	ug/L	8.2		1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.26	JB	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.78		ug/L	0.78		1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.24	J	ug/L	0.24	J	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.98		ug/L	0.98		1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM

# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AB9

Lab Code: CHM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Ethane, 1-chloro-1,1-difluoro-	TIC	3.4	J	ug/L	3.4	J	1.0	YES	NV
Silane, methoxytrimethyl-	TIC	0.53	J	ug/L	0.53	J	1.0	YES	NV
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AB9

Lab Code: CHM

Sample Number: C0AD0

Method: Trace Volatiles

Matrix: Water

MA Number:

Sample Location: NSG-092617-GW-PPC-2

pH: 1.0

Sample Date: 09/26/2017

Sample Time: 12:40:00

% Moisture:

% Solids: 0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	11	U	ug/L	11		1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.97		ug/L	0.97		1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM

# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AB9

Lab Code: CHM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AB9

Lab Code: CHM

Sample Number: C0AD1

Method: Trace Volatiles

Matrix: Water

MA Number:

Sample Location: NSG-092617-GW-27

pH: 1.0

Sample Date: 09/26/2017

Sample Time: 10:45:00

% Moisture:

% Solids: 0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	14	U	ug/L	14		1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AB9

Lab Code: CHM

Sample Number: C0AD3

Method: Trace Volatiles

Matrix: Water

MA Number:

Sample Location: NSG-092617-GW-25

pH: 1.0

Sample Date: 09/26/2017

Sample Time: 09:10:00

% Moisture:

% Solids: 0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	9.2	U	ug/L	9.2		1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Total Alkanes	TIC			ug/L			1.0	YES	NV



# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AB9

Lab Code: CHM

Sample Number: C0AD4

Method: Trace Volatiles

Matrix: Water

MA Number:

Sample Location: NSG-092617-GW-25-D pH: 1.0

Sample Date: 09/26/2017

Sample Time: 09:15:00

% Moisture:

% Solids: 0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	9.8	U	ug/L	9.8		1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AB9

Lab Code: CHM

Sample Number: C0AD6

Method: Trace Volatiles

Matrix: Water

MA Number:

Sample Location: NSG-092617-GW-24

pH: 1.0

Sample Date: 09/26/2017

Sample Time: 09:45:00

% Moisture:

% Solids: 0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	13	U	ug/L	13		1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.36	J	ug/L	0.36	J	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AB9

Lab Code: CHM

Sample Number: C0AD7

Method: Trace Volatiles

Matrix: Water

MA Number:

Sample Location: NSG-092617-GW-TB-02

pH: 1.0

Sample Date: 09/26/2017

Sample Time: 08:40:00

% Moisture:

% Solids: 0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	180		ug/L	180		1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	1.8		ug/L	1.8		1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	1.3		ug/L	1.3		1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.26	J	ug/L	0.26	J	1.0	YES	S4VEM
m,p-Xylene	Target	0.49	J	ug/L	0.49	J	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM

# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AB9

Lab Code: CHM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Tetrahydrofuran	TIC	2.2	J	ug/L	2.2	J	1.0	YES	NV
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AB9

Lab Code: CHM

Sample Number: C0AD9

Method: Trace Volatiles

Matrix: Water

MA Number:

Sample Location: NSG-092617-GW-02

pH: 1.0

Sample Date: 09/26/2017

Sample Time: 14:05:00

% Moisture:

% Solids: 0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	8.9	U	ug/L	8.9		1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	1.1		ug/L	1.1		1.0	YES	S4VEM
o-Xylene	Target	0.51		ug/L	0.51		1.0	YES	S4VEM
m,p-Xylene	Target	2.3		ug/L	2.3		1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AB9

Lab Code: CHM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mesitylene	TIC	2.4	J	ug/L	2.4	J	1.0	YES	NV
Naphthalene	TIC	0.53	J	ug/L	0.53	J	1.0	YES	NV

# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AB9

Lab Code: CHM

Sample Number: C0AE0

Method: Trace Volatiles

Matrix: Water

MA Number:

Sample Location: NSG-092617-GW-08

pH: 1.0

Sample Date: 09/26/2017

Sample Time: 14:50:00

% Moisture:

% Solids: 0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	9.7	U	ug/L	9.7		1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.43	J	ug/L	0.43	J	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	2.5		ug/L	2.5		1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Total Alkanes	TIC			ug/L			1.0	YES	NV



# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AB9

Lab Code: CHM

Sample Number: C0AE1

Method: Trace Volatiles

Matrix: Water

MA Number:

Sample Location: NSG-092717-GW-06

pH: 1.0

Sample Date: 09/27/2017

Sample Time: 09:40:00

% Moisture:

% Solids: 0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	9.7	U	ug/L	9.7		1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	2.2		ug/L	2.2		1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.20	J	ug/L	0.20	J	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.86		ug/L	0.86		1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.36	J	ug/L	0.36	J	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	19		ug/L	19		1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AB9

Lab Code: CHM

Sample Number: C0AE2

Method: Trace Volatiles

Matrix: Water

MA Number:

Sample Location: NSG-092717-GW-16

pH: 1.0

Sample Date: 09/27/2017

Sample Time: 11:00:00

% Moisture:

% Solids: 0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	1.2		ug/L	1.2		1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	1.2		ug/L	1.2		1.0	YES	S4VEM
Acetone	Target	11	U	ug/L	11		1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.51		ug/L	0.51		1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.82		ug/L	0.82		1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.26	J	ug/L	0.26	J	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	3.6		ug/L	3.6		1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	20		ug/L	20	D	4.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AB9

Lab Code: CHM

Sample Number: C0AE3

Method: Trace Volatiles

Matrix: Water

MA Number:

Sample Location: NSG-092717-GW-18

pH: 1.0

Sample Date: 09/27/2017

Sample Time: 11:30:00

% Moisture:

% Solids: 0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.80		ug/L	0.80		1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	9.0	U	ug/L	9.0		1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.61		ug/L	0.61		1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	1.0		ug/L	1.0		1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.72		ug/L	0.72		1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	48		ug/L	48	D	10.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AB9

Lab Code: CHM

Sample Number: C0AE4

Method: Trace Volatiles

Matrix: Water

MA Number:

Sample Location: NSG-092717-GW-13

pH: 1.0

Sample Date: 09/27/2017

Sample Time: 12:45:00

% Moisture:

% Solids: 0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	14	U	ug/L	14		1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	1.6		ug/L	1.6		1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AB9

Lab Code: CHM

Sample Number: VBLK71

Method: Trace Volatiles

Matrix: Water

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AB9

Lab Code: CHM

Sample Number: VBLK73	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.36	J	ug/L	0.36	J	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AB9

Lab Code: CHM

Sample Number: VBLK76

Method: Trace Volatiles

Matrix: Water

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.52		ug/L	0.52		1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Total Alkanes	TIC			ug/L			1.0	YES	NV



# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AB9

Lab Code: CHM

Sample Number: VBLK81	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AB9

Lab Code: CHM

Sample Number: VBLK82

Method: Trace Volatiles

Matrix: Water

MA Number:

Sample Location:

pH:

Sample Date:

Sample Time:

% Moisture:

% Solids: 0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AB9

Lab Code: CHM

Sample Number: VHBLK01

Method: Trace Volatiles

Matrix: Water

MA Number:

Sample Location:

pH: 1.3

Sample Date:

Sample Time:

% Moisture:

% Solids: 0

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.44	J	ug/L	0.44	JB	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Total Alkanes	TIC			ug/L			1.0	YES	NV

# Sample Summary Report

Case: 47127

Contract: EPW14030

SDG: C0AB9

Lab Code: CHM