

June 8, 2017

Mr. Larry M. Thomas
Senior Engineering Geologist
New York State Department of Environmental Conservation
Division of Solid and Hazardous Materials
Bureau of Hazardous and Remediation Management, 9th Floor
Albany, New York 12233-9025

Attn: Mr. Larry Thomas

VIA e-mail: "Larry Thomas" < lxthomas@gw.dec.state.ny.us >

Re: Semi-Annual Groundwater Sampling

Implementation of Annual Soil Management Plan Requirements

Former Borden Resins Facility

Bainbridge, New York

NYSDEC Registry # 709001

NYSDEC Consent Order Index # A7-0121087-09

PSI Project No.: 0836852-1

Dear Mr. Thomas:

Professional Service Industries (PSI) recently conducted the first of two rounds of groundwater sampling for 2017 as per the requirements of New York State Department of Environmental Conservation (NYSDEC) Department of Environmental Remediation (DER) Site Management Plan (SMP) at the former Borden's facility in Bainbridge, New York (the Site). The Site Location Map is shown on **Figure 1**. The Site Map is presented on **Figures 2 and 3**. The report presented below is a summary of observations and analytical data collected during this groundwater sampling event.

#### Authorization

Columbus Real Estate, LLC (CRE) authorized PSI to commence work by signing PSI Proposal #0836-195367, dated December 2, 2016. The Contractual Agreement between PSI and CRE was signed by Mr. S.H. Fogleman, III, President of CRE, on December 9, 2016. The scope of work is a result of PSI's review of the above referenced SMP.

### Scope of Work & Site Activities

#### **Monitoring Well Measurements**

PSI collected depth to water level measurements from twelve (12) monitoring wells (MW-2B, MW-15, MW-16, MW-17, MW-19, MW-21, MW-27, MW-28, MW-30, OW-10R, MW-35R and OW-35R) as required by the SMP during the May 16, 2017 sampling event. Monitoring well locations are presented on **Figures 4 and 4A**. Monitoring well MW-35R was re-installed previously on March 28, 2014 as indicated on **Figure 4**.

Semi-Annual Groundwater Sampling Report Former Borden Facility Bainbridge, New York PSI Project # 0836852-1

Groundwater level measurements were collected using an electronic water level indicator and recorded to an accuracy of 0.01 feet. The water level indicator probe and tape was washed with a Liquinox® solution and rinsed with distilled water between measurements. Depths to water measurements were used to calculate ground water elevations for the Site as presented on **Table 1**. A groundwater elevation contour map for the Phenol Recovery Area (PRA) was drafted from these data and presented as **Figure 5**. As shown on **Figure 5**, groundwater appears to flow generally in a southeasterly component under the Site toward Beatty Creek. Beatty Creek then continues southeast for approximately 1-mile and flows into the Susquehanna River.

#### **Ground Water Sampling**

During the sampling event, water samples were obtained from twelve (12) monitoring wells as required by the NYSDEC. In addition, a water sample was collected from Beatty Creek just east of the railroad bridge from a running portion of the creek as a "grab" sample.

The monitoring wells were purged and sampled in accordance with the United States Environmental Protection Agency's (USEPA) low-flow well purging/sample collection techniques. PSI used calibrated YSI 650XL meters equipped with flow-through cells with probes and meters for measuring ground water quality parameters such as pH, temperature, specific conductivity, dissolved oxygen and oxidation/ reduction potential. Wells were purged until ground water parameters stabilized for three consecutive readings at five-minute intervals. A sample was then collected from each well. The purge water was collected in pails and then disposed on the ground adjacent to the well where the sample was obtained.

The samples were placed in a pre-chilled thermally insulated container containing ice prior to pick-up by courier for delivery to the analytical laboratory, ALS Environmental (ALS) of Rochester, New York under chain of custody (COC) protocol. ALS is a New York State Department of Health (NYSDOH) Environmental Laboratory Accreditation Program (ELAP) approved laboratory. The samples were analyzed according to the matrix presented in **Table 2**. Groundwater quality parameters, pH, temperature, specific conductivity, dissolved oxygen (DO) and oxidation/reduction potential (ORP) are summarized and presented on **Table 3**.

#### Analytical Results

Ten (10) of the thirteen (13) samples were analyzed for phenolics by USEPA Method 8270. As shown on **Table 4**, phenolics were detected above the NYSDEC Part 703.5 Standard of 1.0 microgram per liter ( $\mu$ g/l) in samples collected from MW-15, MW-27, MW-28, OW-10R, OW-35R and Beatty Creek. The concentrations were 29,000 micrograms per liter ( $\mu$ g/l), 2.7  $\mu$ g/l, 4.8  $\mu$ g/l, 4,300  $\mu$ g/l, 3.4  $\mu$ g/l and 3.9  $\mu$ g/l, respectively. Phenolics were not detected above the project laboratory reporting limit (of 1.0  $\mu$ g/l) in the remaining four (4) samples. The concentrations of phenolics detected in the May 2017 sampling are lower (in five (5) of the ten (10) well locations) than the May 2016 sampling event as



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shown on **Table 5**. In addition, the detection of  $2.7\mu g/l$  in MW-27 is the fourth May sampling event in a row that phenolics have appeared at this off-site location since May 2009. The May 2017 concentration of 4,300  $\mu g/l$  for phenolics in OW-10R is more than two orders of magnitude greater than the detected concentration of 17.9 in the May 2016 sampling event.

Benzene, toluene, ethylbenzene and xylene (BTEX) compounds analyzed during the May 16, 2017 sampling event are summarized on **Table 4**. Benzene was reported at or above the NYSDEC Part 703.5 Standard of 1.0  $\mu$ g/l in MW-15, MW-27, MW-28, OW-10R and OW-35R. The results from these five (5) wells ranged from 1.2  $\mu$ g/l in MW-27 to 13  $\mu$ g/l in MW-15. Ethylbenzene was detected in four (4) wells (MW-15, MW-27, OW-10R and OW-35R). The concentration of Ethylbenzene was above the NYSDEC Part 703.5 Standard of 5.0  $\mu$ g/l in only MW-15 at a concentration of 5.1  $\mu$ g/l. Toluene was reported above the NYSDEC Part 703.5 Standard of 5.0  $\mu$ g/l in MW-15 and OW-10R. The May 2017 results from MW-15 (980  $\mu$ g/l) and OW-10R (530) are greater than the May 2016 results from MW-15 (330  $\mu$ g/l) and OW-10R (1.4  $\mu$ g/l). Xylenes were detected in MW-28 and OW-10R but the concentrations of total xylenes were below the NYSDEC Part 703.5 Standard of 5.0  $\mu$ g/l.

Polychlorinated bi-phenols (PCBs) were analyzed in three (MW-2B, MW-17 and MW-21) monitoring well locations. Test Results indicate that PCBs were detected at concentrations above the NYSDEC Part 703.5 Standard of 0.09  $\mu$ g/l.in samples from MW-2B (0.36  $\mu$ g/l) and MW-17 (0.15  $\mu$ g/l) as shown in **Table 4.** These detections were slightly less than the concentrations detected during the May 2016 sampling event. The May 2016 results were less than the May 2015 sampling events. A decreasing trend of the PCBs is occurring.

Formaldehyde was analyzed in three (MW-16, MW-27 and OW-10R) monitoring well locations. Test Results indicate that formaldehyde was detected in the three samples at concentrations of 55  $\mu$ g/l, 140  $\mu$ g/l, and 140  $\mu$ g/l, respectively, which is above the NYSDEC Part 703.5 Standard of 8.0  $\mu$ g/l as shown in **Table 4.** These concentrations are all higher than the May 2016 sampling event.

A copy of the analytical data and laboratory report with associated QA/QC are included as **Attachment A**.

#### Continued Monitoring

The next ground water sampling event will occur in November 2017. As per NYSDEC requirements, the November 2017 sampling event will include the sampling locations and analyses as specified for semi-annually in **Table 2**. In addition, the yearly NYSDEC required Period Review Report (PRR) will be completed and data associated with the November 2017 semi-annual groundwater sampling event will be incorporated into the PRR.



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#### Warranty

The information provided in this Semi-Annual Groundwater Sampling Report, prepared by PSI under Project Number 083852-1 is intended exclusively for CRE as they pertain to the Former Borden Facility located in Bainbridge, New York. The professional services provided have been performed in accordance with practices generally accepted by other appropriate environmental professionals, geologists, engineers, and environmental scientists practicing in this field. No other warranty, either expressed or implied, is made.

PSI is not an insurer and makes no guarantee or warranty that the services supplied will avert or mitigate occurrences, or the consequences of occurrences, that the services are designed to prevent or ameliorate. This report is issued with the understanding that the Client is responsible for ensuring that the information contained in this report is brought to the attention of the owner and/or tenants.

#### **Use by Third Parties**

This report was prepared pursuant to the contract PSI has with CRE, and that contractual relationship included an exchange of information about the subject property that was unique and between PSI and its client and serves as the basis upon which this report was prepared. Because of the importance of the communication between PSI and its client, reliance or any use of this report by anyone other than CRE and the State Regulator (the NYSDEC) for whom it was prepared, is prohibited and therefore not foreseeable to PSI.

Please call with any questions you may have regarding this May 2016 Semi-Annual Groundwater Sampling Event.

Respectfully Submitted

PROFESSIONAL SERVICE INDUSTRIES INC.

David W. Myers C. G.

Wand W. Myers

Senior Environmental Scientist

Paul Misiaszek CHMM Principal Consultant & Environmental Specialist

CC: Oliver Pau – Columbus Real Estate

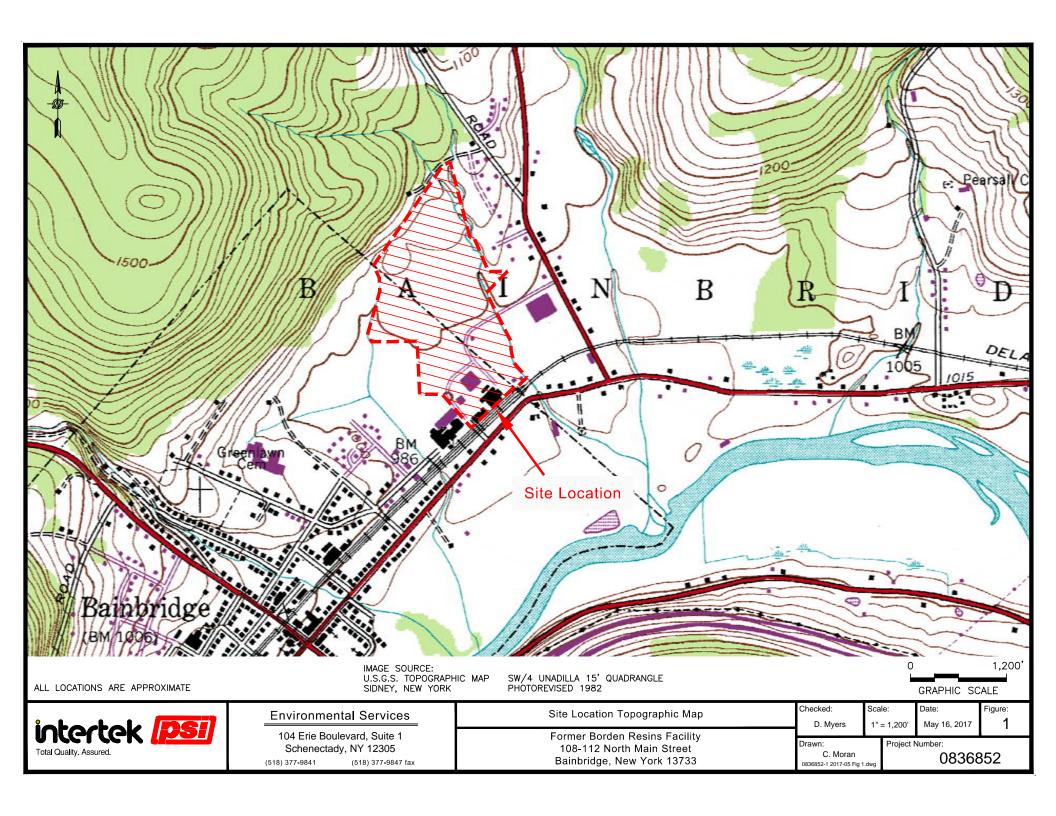
**Enclosures** 

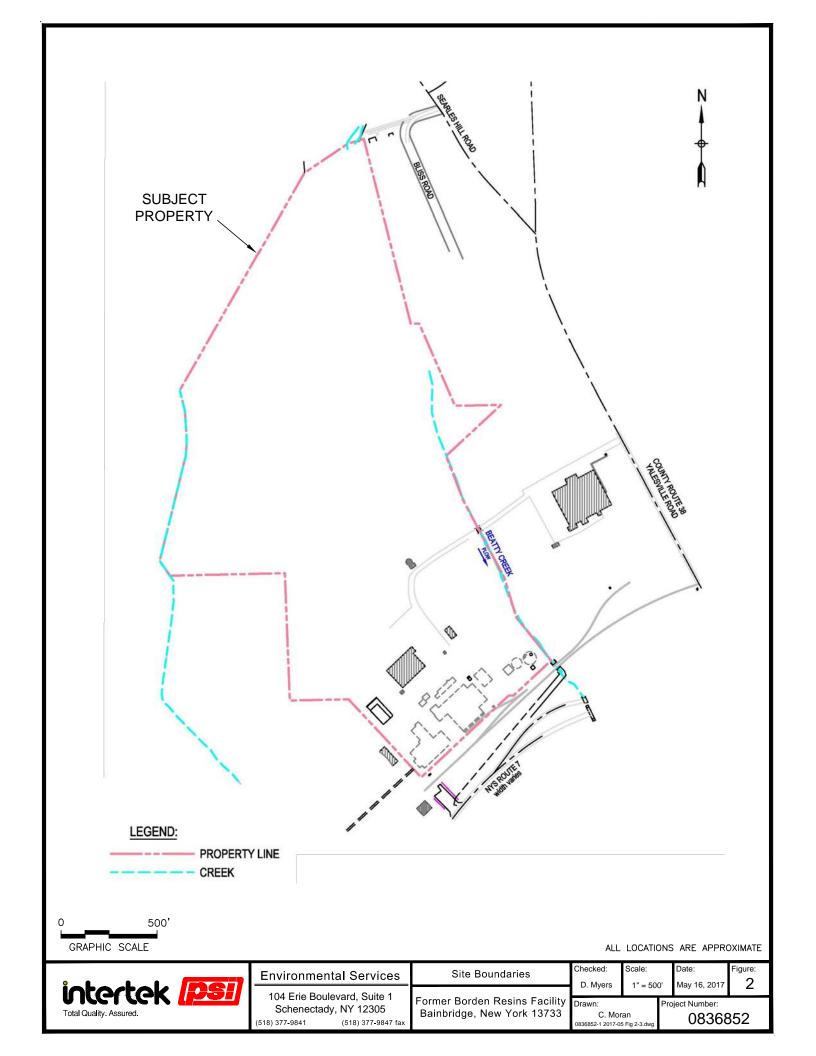
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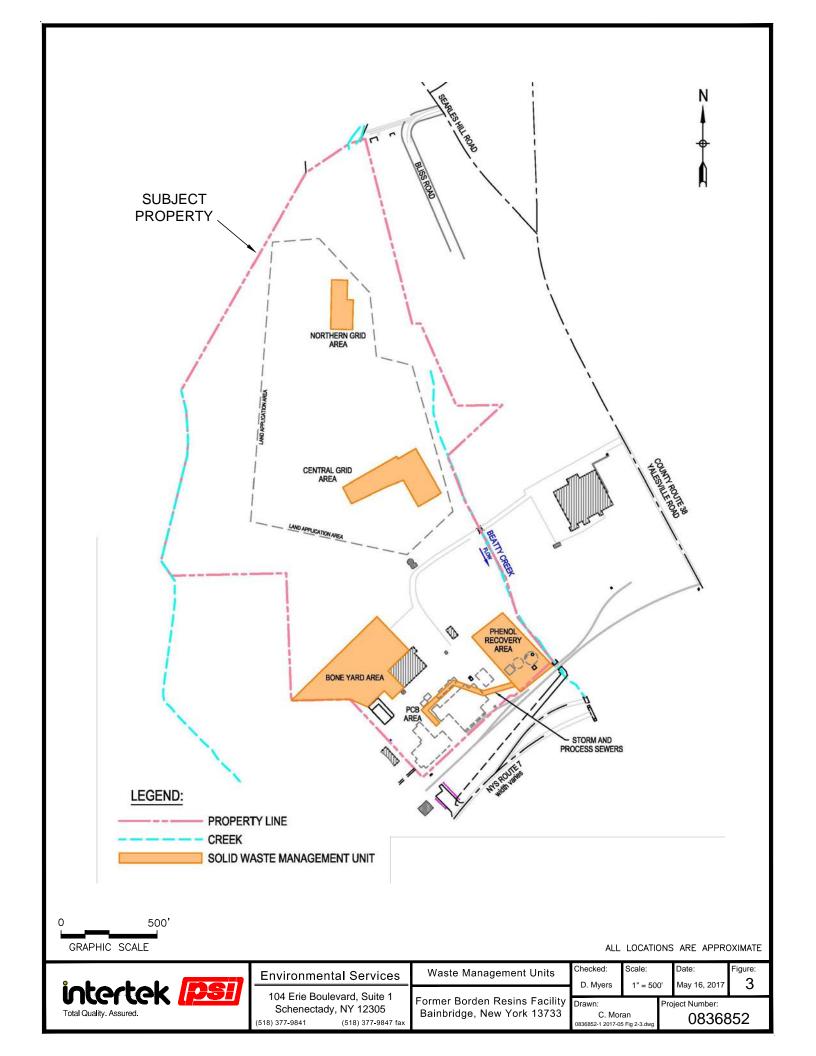
Attachment A

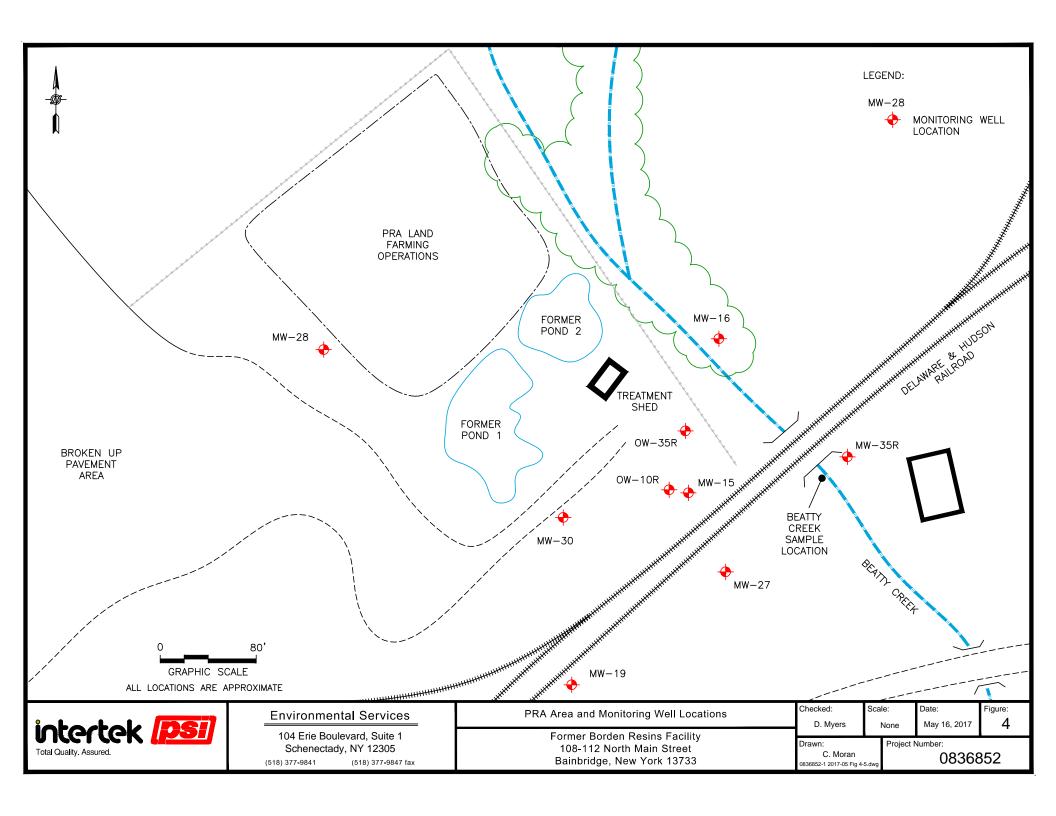


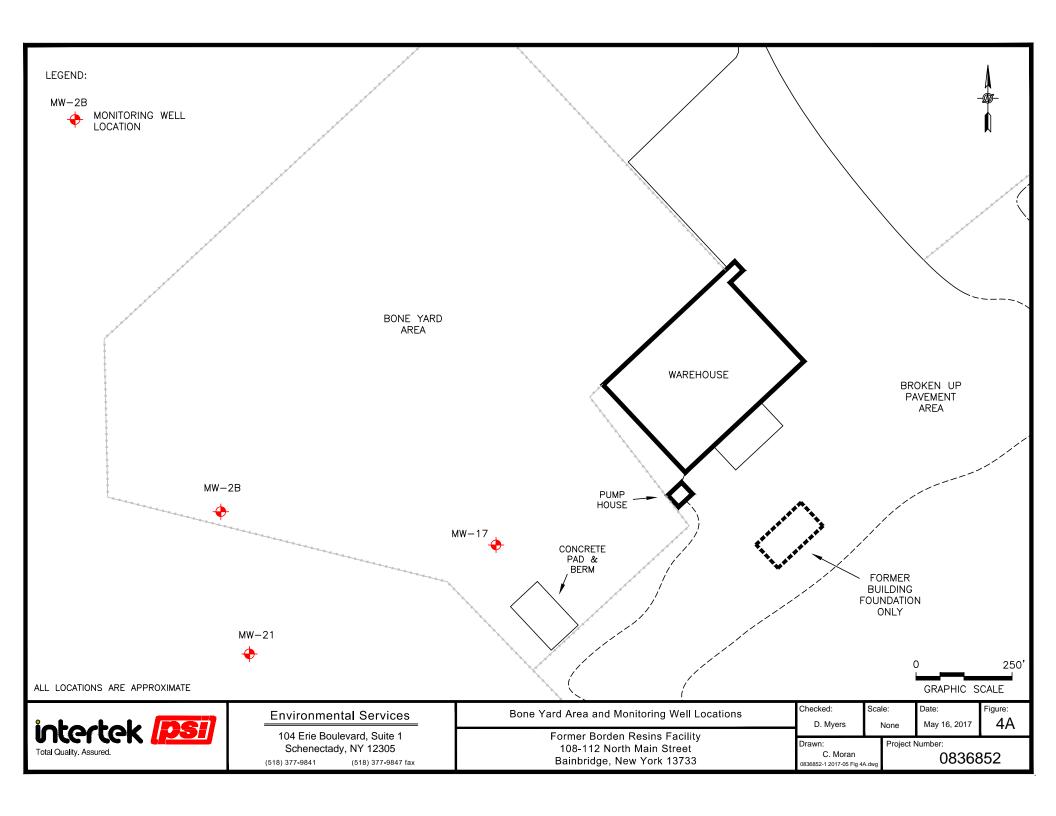
## **FIGURES**

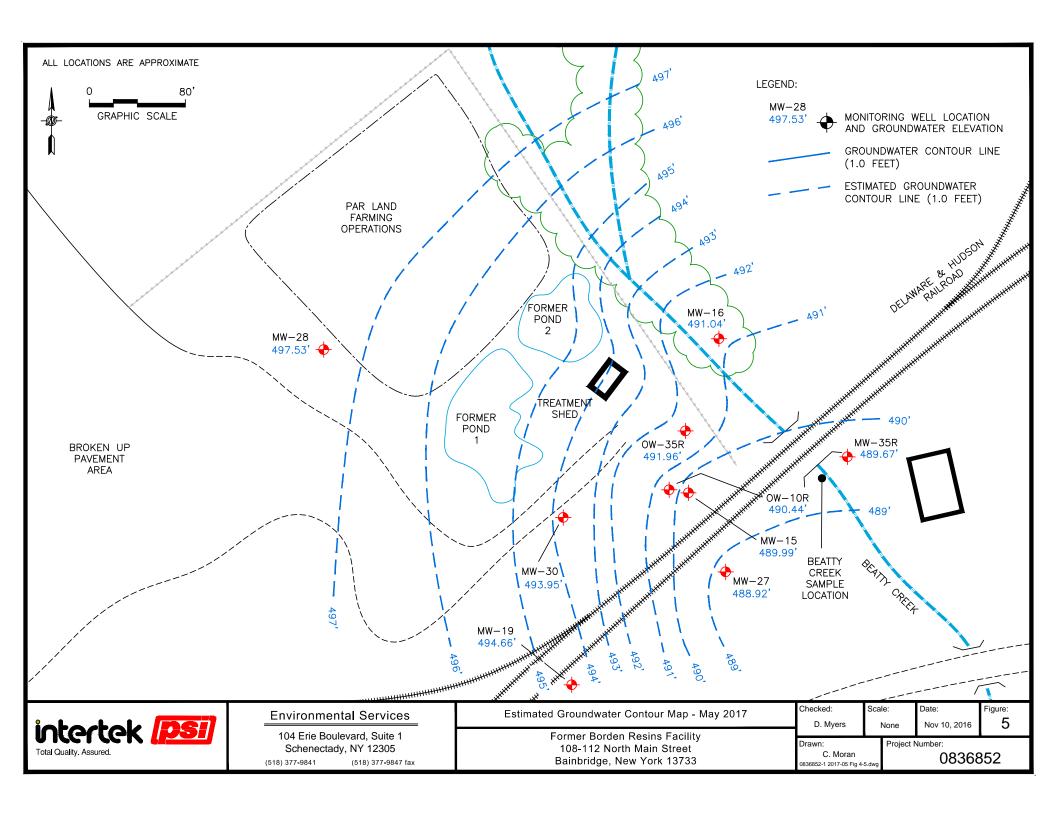












## **TABLES**

#### Table 1 - "Ground Water Elevations - Present and Historic"

Former Borden Resins Facility Bainbridge, New York PSI Project No.: 0836852-1 NYSDEC Site No. 709001

Monitoring	Reference	3-No	ov-15	18-M	ay-16	8-No	ov-16	16-M	ay-17
Well ID	Elevation	Depth to	Water						
	(feet)*	Water	Elevation	Water	Elevation	Water	Elevation	Water	Elevation
MW-2B	505.40	NA	NA	5.02	500.38	NA	NA	4.55	500.85
MW-15	501.02	11.39	489.63	10.9	490.12	11.16	489.86	11.03	489.99
MW-16	496.32	5.48	490.84	5.25	491.07	5.36	490.96	5.28	491.04
MW-17	506.43	NA	NA	5.56	500.87	NA	NA	5.70	500.73
MW-19	504.04	10.69	493.35	9.78	494.26	10.21	493.83	9.38	494.66
MW-21	505.29	NA	NA	6.46	498.83	NA	NA	6.02	499.27
MW-27	493.65	5.11	488.54	4.69	488.96	5.11	488.54	4.73	488.92
MW-28	502.28	6.24	496.04	5.15	497.13	5.40	496.88	4.75	497.53
MW-30	502.29	10.30	491.99	8.46	493.83	9.59	492.70	8.34	493.95
MW-35R	494.44	5.05	489.39	4.65	489.79	4.97	489.47	4.77	489.67
OW-10R	502.49	12.60	489.89	11.96	490.53	12.25	490.24	12.05	490.44
OW-35R	502.04	10.97	491.07	10.53	491.51	10.80	491.24	10.08	491.96

<sup>\* -</sup> Elevations based on new topo obtained from Kaatskill Mountain Surveyors on 28 April 2011.

NA = Not Applicable - Not measured or sampled during the November sampling event

NM = Not Measured

Note - MW-35R re- installed on March 28, 2014. Unable to find original MW-35 monitoring well in November 2013.

## Table 2 - "Sampling Matrix"

Former Borden Resins Facility

Bainbridge, New York PSI Project No.: 0836852-1 NYSDEC Site No. 709001

Well/ Monitoring	Phenols by USEPA Method	BTEX	Formaldehyde	PCBs
Point	8270			
Beatty Creek	Semi-annually	Semi-annually	N/A	N/A
MW-2B	N/A	N/A	N/A	Annually
MW-15	Semi-annually	Semi-annually	N/A	N/A
MW-16	Semi-annually	Semi-annually	Annually	N/A
MW-17	N/A	N/A	N/A	Annually
MW-19	Semi-annually	Semi-annually	N/A	N/A
MW-22	N/A	N/A	N/A	Annually
MW-27	Semi-annually	Semi-annually	Annually	N/A
MW-28	Semi-annually	Semi-annually	N/A	N/A
MW-30	Semi-annually	Semi-annually	N/A	N/A
MW-35R	Semi-annually	Semi-annually	N/A	N/A
OW-10R	Semi-annually	Semi-annually	Annually	N/A
OW-35R	Semi-annually	Semi-annually	N/A	N/A

Semi-annually = May and November Annually = May N/A = Not Applicable

#### Table 3 - "Field Results" - Natural Attenuation Parameters

Former Borden Resins Facility Bainbridge, NY PSI Project No.: 0836852-1

			May 16, 2017													
Parameters	NYSDEC Guidance Value or Standard	MW-2B	MW-15	MW-16	MW-17	MW-19	MW-21	MW-27	MW-28	MW-30	MW-35R	OW-10R	OW-35R	Beatty Creek		
Temperature (°C)	NS	8.20	8.86	7.62	10.24	7.60	8.41	8.69	8.02	7.94	10.09	9.30	7.56	NA		
Specific Conductivity																
(µS/cm)	NS	316	581	181	387	358	374	414	402	315	91	558	540	NA		
DO (mg/l)	NS	0.61	0.20	3.98	0.46	3.71	1.37	0.35	1.55	5.02	4.30	0.19	1.37	NA		
рН	NS	6.08	7.45	6.98	7.29	6.31	6.41	6.99	6.66	6.58	6.85	7.28	6.51	NA		
Turbidity (NTUs)	NS	1.8	19.30	9.20	6.2	50.20	17.9	2.50	0.00	0.90	3.70	2.40	4.90	NA		
ORP (mV)	NS	31.6	-154.0	-181	-131.6	-20.3	19.9	-143.0	0.6	57.0	-56.1	-126.9	-78.1	NA		

#### Note:

NS: no standard NA: not analyzed -

Note: MW-35R re- installed March 28, 2014.

## Table 4 - "Analytical Results - BTEX-Formaldehyde-Phenols-PCBs"

Former Borden Resins Facility Bainbridge, NY PSI Project No.: 0836852-1

			May 16, 2017												
Analyte (μg/L)	NYSDEC Standards TOGS 1.1.1 (µg/L)	MW-2B	MW-15	MW-16	MW-17	MW-19	MW-21	MW-27	MW-28	MW-30	MW-35R	OW-10R	OW-035R	Duplicate	Beatty Creek
Benzene	1	NA	13J	BRL	NA	0.29J	NA	1.2J	4.4J	BRL	BRL	6.3J	2.1J	2.0J	BRL
Ethylbenzene	5	NA	5.1J	BRL	NA	BRL	NA	0.37J	BRL	BRL	BRL	3.3J	0.72J	0.64J	BRL
Toluene	5	NA	980D	BRL	NA	BRL	NA	1.0J	0.59J	0.22J	BRL	530	1.1J	0.91J	BRL
Xylenes - Total	5 <sup>1</sup>	NA	BRL	BRL	NA	BRL	NA	BRL	0.37J	BRL	BRL	BRL	1.19J	1.11J	BRL
Formaldehyde	8	NA	NA	55	NA	NA	NA	140	NA	NA	NA	140	NA	NA	NA
Phenols	1	NA	29,000	BRL	NA	BRL	NA	2.7J	4.8J	BRL	BRL	4,300	3.4J	4.1J	3.9J
PCB 1242*	$0.09^{2}$	0.36	NA	NA	0.15	NA	BRL	NA	NA	NA	NA	NA	NA	NA	NA

#### Note:

BRL: Below Reporting Limit (see analytical report for reporting limits.)

Duplicate - Collected from OW-35R.

J = Estimated value due to either a Tentatively Identified Compound (TIC) or that the concentration is between the Method Reporting Limit (MRL) and the Method Detection Limit (MDL).

D = Concentration is a result of a Dilution.

NA: not analyzed

MW-35R re-installed March 28, 2014.

Phenols analyzed by EPA 8270.

Formaldehyde analyzed by EPA Method 8315A

**Bold:** Above NYSDEC Referenced Standard

<sup>\* -</sup> other PCBs in analysis: 1016, 1221, 1232, 1248, 1254, 1260, 1262 and 1268.

<sup>&</sup>lt;sup>1</sup>:value to total Xylene

<sup>&</sup>lt;sup>2</sup>: Sum of all PCBs

Table 5 - Historic "Analytical Results - Total Phenolics"

Former Borden Resins Facility

Bainbridge, New York PSI Project No.: 0836852-1 NYSDEC Site No. 709001

					т	otal Dhanalias (ua/	r)				
Date	MW-15	MW-16	MW-19	MW-20	MW-27	otal Phenolics (µg/ MW-28	MW-30	MW-35R	OW-10R	OW-35R	Beatty Creek
16-May-17	29,000	BRL	BRL	Destroyed	2.7]	4.8J	BRL	BRL	4,300	3.4]	3.9J
8-Nov-16	42,200	2.8	22.6	Destroyed	2.4	11.3	30.1	BRL	2,620	11.4	BRL
18-May-16	102,452	BRL	11.3	Destroyed	14	1.8	11	1.4	17.9	3.4	BRL
3-Nov-15	121,407	BRL	6.0	Destroyed	BRL	BRL	24.0	BRL	12.0	88.0*	BRL
12-May-15	238,000	BRL	6.36	Destroyed	62.4	46.4	53.4	BRL	6,655	25.14	BRL
12-Nov-14	55,100	BRL	4.43	Destroyed	BRL	39.9	6.46	BRL	1,896	7.79	BRL
21-May-14	69,159	BRL	BRL	Destroyed	12.75	0.891	161	BRL	1.319	BRL	BRL
14-Nov-13	63,240J	BRL	8.1J	Destroyed	BRL	BRL	14	NS	44.3J	2.22J	BRL
28-Jun-13	177,010	BRL	9.46	Destroyed	BRL	BRL	BRL	NS	5,714	BRL	BRL
12-May-11	33,200	BRL	BRL	Destroyed	BRL	BRL	BRL	BRL	1,460	19	BRL
23-Feb-11	118	BRL	NS	Destroyed	BRL	BRL	BRL	BRL	15,700	166	BRL
4-Nov-10	379	BRL	BRL	Destroyed	BRL	BRL	BRL	BRL	3,842	14.1	BRL
26-Aug-10	4,640	BRL	NS	Destroyed	BRL	1.64 J	1.89 J	BRL	6,440	2.19 J	BRL
13-May-10	5,047	BRL	6.5	BRL	BRL	BRL	BRL	BRL	4,099	154	BRL
17-Feb-10	4,095	6.2	NS	BRL	BRL	BRL	BRL	BRL	2,371	2.1	BRL
10-Nov-09	4,657	BRL	BRL	BRL	BRL	BRL	BRL	BRL	8,730	BRL	BRL
4-Aug-09	635.5	BRL	NS	BRL	BRL	BRL	BRL	BRL	1,124	BRL	BRL
5-May-09	4,660	BRL	8.3	5.2	3.4	2.6	BRL	BRL	9,330	17.93	4
10-Feb-09	1,545	BRL	BRL	BRL	BRL	BRL	BRL	BRL	550	10.7	BRL
20-Nov-08	783	BRL	7.94	BRL	BRL	2.51	1.67	1.83	3,416	142.7	BRL
27-Aug-08	9.3	BRL	NS	BRL	BRL	BRL	BRL	BRL	19.8	BRL	BRL
8-May-08	959	BRL	3	BRL	BRL	BRL	BRL	BRL			BRL
26 Feb -08 <sup>1</sup>	42.3	BRL	NS	NS*	BRL	BRL	BRL	BRL			BRL
26-Feb-08	6,600	BRL	NS	NS*	BRL	BRL	BRL	BRL			BRL
20-Nov-07	220	18	25	BRL	150	BRL	BRL	BRL			BRL
15-Aug-07	43	BRL	NS	BRL	BRL	79	BRL	BRL			BRL
17-May-07	329	16	BRL	BRL	32	20	BRL	30			BRL
13-Feb-07	BRL	BRL	NS	BRL	BRL	20	986	BRL			BRL
28-Nov-06	560	NS	NS	NS	NS	NS	NS	NS			NS
23-Aug-06	ND	NS	NS	NS	NS	NS	NS	NS			NS
3-May-06	572	BRL	NS	NS	BRL	BRL	BRL	BRL			BRL

NYSDEC Ambient ground water standard (Part 703.5) for total phenolics is  $1 \mu g/L$ . **Bold** Numbers indicate value is above cleanup standard.

BRL: Below Reporting Limit (see analytical report for reporting limits.)

 $88.0^{\star}$  - Indicates detection in Duplicate Sample but Sample OW-35R was 1.4  $\mu g/L$ 

USEPA Method 8270 used during 26 Feb 08 sampling event and thereafter. Prior to February 2008, all results based on Total Recoverable Phenolics (TRP) analyses.

<sup>&</sup>lt;sup>1</sup> = Samples analyzed by EPA Method 8270 as a comparison to TRP analysis.

<sup>--</sup> Well not installed. NS= Well Not Sampled; NS'=Not Sampled because groundwater in well was "frozen".

J = Estimated value due to either a Tentatively Identified Compound (TIC) or that the concentration is between the Method Reporting Limit (MRL) and the Method Detection Limit (MDL). MW-35R re-installed March 28, 2014.

# ATTACHMENT A LABORATORY ANALYTICAL DATA



Mr. David Myers Professional Service Industries (PSI) 104 Erie Boulevard, Suite 101 Schenectady, NY 12305

Laboratory Results for: Former Borden Facility

Dear Mr. Myers,

Enclosed are the results of the sample(s) submitted to our laboratory May 17, 2017 For your reference, these analyses have been assigned our service request number **R1704476**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Respectfully submitted,

Fredy Kullin

ALS Group USA, Corp. dba ALS Environmental

Brady Kalkman

Project Manager

dba ALS Environmental



# **Narrative Documents**

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com

Service Request:R1704476

Date Received:5/17/17



Client: Professional Service Industries (PSI) Schenectady, NY

Former Borden Facility/0836852-1

Sample Matrix: Water

Project:

#### **CASE NARRATIVE**

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier I data deliverables. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Any parameters that are not included in the lab's NELAC accreditation are identified on a "Non-Certified Analytes" report in the Miscellaneous Forms Section of this report. Individual analytical results requiring further explanation are flagged with qualifiers and/or discussed below. The flags are explained in the Report Qualifiers and Definitions page in the Miscellaneous Forms section of this report.

#### Sample Receipt

Fifteen Water samples were received for analysis at ALS Environmental on 05/17/2017. Any discrepancies noted upon initial sample inspection are noted on the cooler receipt and preservation form included in this data package. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at ≤6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

#### **Volatile Organic Analyses:**

No significant anomalies were noted with this analysis.

#### Semi-Volatile Organic Analyses:

No significant anomalies were noted with this analysis.

Approved by Estady Kullin

Date 5/26/2017



#### **SAMPLE DETECTION SUMMARY**

CLIENT ID: MW-19	Lab ID: R1	Lab ID: R1704476-001							
Analyte	Results	Flag	MDL	PQL	Units	Method			
Benzene	0.29	J	0.20	5.0	ug/L	8260C			
CLIENT ID: MW-16	Lab ID: R1	704476-	002						
Analyte	Results	Flag	MDL	PQL	Units	Method			
Formaldehyde	55		4.0	8.0	ug/L	8315A			
CLIENT ID: MW-27	Lab ID: R1	704476-	004						
Analyte	Results	Flag	MDL	PQL	Units	Method			
Benzene	1.2	J	0.20	5.0	ug/L	8260C			
Ethylbenzene	0.37	J	0.20	5.0	ug/L	8260C			
Toluene	1.0	J	0.20	5.0	ug/L	8260C			
Phenol	2.7	J	1.0	9.4	ug/L	8270D			
Formaldehyde	140		4.0	8.0	ug/L	8315A			
CLIENT ID: Betty Creek	Lab ID: R1	704476-	005						
Analyte	Results	Flag	MDL	PQL	Units	Method			
Phenol	3.9	J	1.0	9.4	ug/L	8270D			
CLIENT ID: OW-35R	Lab ID: R1	704476-	006						
Analyte	Results	Flag	MDL	PQL	Units	Method			
Benzene	2.1	J	0.20	5.0	ug/L	8260C			
Ethylbenzene	0.72	J	0.20	5.0	ug/L	8260C			
Toluene	1.1	J	0.20	5.0	ug/L	8260C			
m,p-Xylenes	0.83	J	0.33	5.0	ug/L	8260C			
o-Xylene	0.36	J	0.20	5.0	ug/L	8260C			
Phenol	3.4	J	1.0	9.4	ug/L	8270D			
CLIENT ID: Duplicate	Lab ID: R1	704476-	007						
Analyte	Results	Flag	MDL	PQL	Units	Method			
Benzene	2.0	J	0.20	5.0	ug/L	8260C			
Ethylbenzene	0.64	J	0.20	5.0	ug/L	8260C			
Toluene	0.91	J	0.20	5.0	ug/L	8260C			
m,p-Xylenes	0.82	J	0.33	5.0	ug/L	8260C			
o-Xylene	0.29	J	0.20	5.0	ug/L	8260C			
Phenol	4.1	J	1.0	9.4	ug/L	8270D			
CLIENT ID: MW-15	Lab ID: R1	704476-	800						
Analyte	Results	Flag	MDL	PQL	Units	Method			
Benzene	13	J	1.0	25	ug/L	8260C			
Ethylbenzene	5.1	J	1.0	25	ug/L	8260C			
Toluene	980	D	2.0	50	ug/L	8260C			
Phenol	29000		200	1900	ug/L	8270D			



ug/L

8260C

#### **SAMPLE DETECTION SUMMARY**

CLIENT ID: MW-28	Lab ID: R1	Lab ID: R1704476-009							
Analyte	Results	Flag	MDL	PQL	Units	Method			
Benzene	4.4	J	0.20	5.0	ug/L	8260C			
Toluene	0.59	J	0.20	5.0	ug/L	8260C			
m,p-Xylenes	0.37	J	0.33	5.0	ug/L	8260C			
Phenol	4.8	J	1.0	9.4	ug/L	8270D			
CLIENT ID: Trip Blank	Lab ID: R1	704476-	010						
Analyte	Results	Flag	MDL	PQL	Units	Method			
Toluene	0.47	J	0.20	5.0	ug/L	8260C			
CLIENT ID: OW-10R	Lab ID: R1	704476-	011						
Analyte	Results	Flag	MDL	PQL	Units	Method			
Benzene	6.3	J	1.0	25	ug/L	8260C			
Ethylbenzene	3.3	J	1.0	25	ug/L	8260C			
Toluene	530		1.0	25	ug/L	8260C			
Phenol	4300		50	470	ug/L	8270D			
Formaldehyde	140		4.0	8.0	ug/L	8315A			
CLIENT ID: MW-30	Lab ID: R1	704476-	015						
Analyte	Results	Flag	MDL	PQL	Units	Method			

0.22

J

0.20

5.0

Toluene



# Sample Receipt Information

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com Professional Service Industries (PSI) Schenectady, NY

Service Request:R1704476

**Project:** Former Borden Facility/0836852-1

Client:

#### **SAMPLE CROSS-REFERENCE**

SAMP	<u>LE #</u>	CLIENT SAMPLE ID	<u>DATE</u>	<u>TIME</u>
R1704	476-001	MW-19	5/16/2017	0920
R1704	476-002	MW-16	5/16/2017	1000
R1704	476-003	MW-35	5/16/2017	1030
R1704	476-004	MW-27	5/16/2017	0940
R1704	476-005	Betty Creek	5/16/2017	1010
R1704	476-006	OW-35R	5/16/2017	1130
R1704	476-007	Duplicate	5/16/2017	
R1704	476-008	MW-15	5/16/2017	1125
R1704	476-009	MW-28	5/16/2017	1225
R1704	476-010	Trip Blank	5/16/2017	
R1704	476-011	OW-10R	5/16/2017	1220
R1704	476-012	MW-17	5/16/2017	1300
R1704	476-013	MW-2B	5/16/2017	1332
R1704	476-014	MW-21	5/16/2017	1310
R1704	476-015	MW-30	5/16/2017	1005



### CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE \ OF

					- رحي يحم																
Project Name  FORMER BORDEN FACULTY  Project Manager  Project Number  OS36 862-1  Project Manager						ANALYSIS REQUESTED (Include Method Number and Container Preservative)															
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BETTY CREEK			10:00	SW	5	1	V														
OW-35R		5/16/17	11:30	40	3	$\overline{V}$															
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mw-15		511619-1	125	AQ	5	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	4														
mw-28		5/40/47	12:25	Aò	5	V	1														
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# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

33901

1565 Jefferson Road, Building 300, Suite 360 • Rochester. NY 14623 | +1 585 283 5380 +1 585 288 8475 (fax) PAGE \_\_\_\_\_OF \_\_\_\_

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# Cooler Receipt and Preservation Check Form

() (122)	_												
Project/Client	Ic			Fold	er Nur	nber			<u> </u>				
Cooler received on 5/	17/17	by:{	An	_	COU	RIER:	ALS	UPS FE	DEX VE	ELOCITY C	LIENT		
1 Were Custody sea		ooler?		Υ Φ?	5a	Perch	lorate sa	mples have	e required	headspace?	Y	N	STA -
2 Custody papers pr	operly completed	l (ink, sig	ned)?	& N	5b	Did V	OA vials	, Alk,or Su	lfide have	sig* bubbles		₩	
3 Did all bottles arriv	e in good condit	ion (unbro	oken)?	EN)	4 6	Where	e did the l	bottles orig	inate?	ALS/ROC	C	LIEN	Γ
4 Circle: Wet Ice	Dry Ice Gel pa	cks pro	esent?	Q N	7	Soil V	OA recei	ived as:	Bulk	Encore 50	)35set	₽ZA	<u> </u>
8. Temperature Reading			Tim	e: 1839(		ID:	IR#7		Fron	n: Temp Blan	nk Sa	mpte	Bottl
Observed Temp (°C)		50		00	113		0196		<u> </u>				
Correction Factor (°C)			±u,	-	±0.0		±0.0						
Corrected Temp (°C)	51	5'	310	•	113		0,9						
Temp from:Type of bo	- 1				<u> </u>					77 37		37	NT -
Within 0-6°C?			8			N			Y N	Y N			$\frac{N}{N}$
If <0°C, were samples		N	Y	N	Y	N			Y N	Y N			IN
If out of Temperat						•		Poorly P		Same I	•		
&Client Approval	to Run Samples	:	Sta	ınding Ap	proval	Clien	t aware at	t drop-off	Client no	otified by:			
All samples held in st			Ju	by offer by		_	7/17-at 1 <sup>&lt;</sup>						
COSC SWALPAGE PARCE											Service Producti	كانتها المتعادين	an · The
<ul><li>10. Did all bot</li><li>11. Were corre</li><li>12. Were 5035</li></ul>	Date: 5-17-17 ottle labels complicte labels and tags oct containers used vials acceptable es: Cassettes / Tu	ete ( <i>i.e.</i> and a sagree with	nalysis th cust tests in labels	tody paper dicated? , not leakin	tion, etc rs? ng)?	by c.)? s Pressu		YES YES YES	NO NO NO NO ar® Bags 1	) ) )	(N)		
pH Lot of		Preserv		Lot Rece		Ex		ple ID	Vol.	Lot Added		Fina	1
paper		Yes	No						Added			pН	
≥12	NaOH					_			1				
<u>≤2</u> ≤2	HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub>	-				_			<del> </del>				
<4	NaHSO <sub>4</sub>	<del>                                     </del>											
Residual Chlorine (-)	For CN Phenol and 522			If +, conta add Na <sub>2</sub> S ascorbic (	2O3 (CN	n),							
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>		-						<u> </u>				
<i></i> .	ZnAcetate	-	-							analysis – p		d and	l
*	HCl	**	**	client la	ibel		recor	rded by V	OAs on a s	separate work	csneet		
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Explain all Discrep	ancies/ Other Co				-								
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* MW-27	17 NOW	VIAI	+140 2 2	. J 1 €		, –				Н	PROD	HGF	В
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Labels secondary reviewed by: \_\_\_\_\_\_\_PC Secondary Review: \_\_\_\_\_\_

10 of 64 \*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

REV

ALS



# Miscellaneous Forms

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com



#### REPORT QUALIFIERS AND DEFINITIONS

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- \* Indicates that a quality control parameter has exceeded laboratory limits. Under the õNotesö column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
- H Analysis was performed out of hold time for tests that have an õimmediateö hold time criteria.
- # Spike was diluted out.

- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% (25% for CLP) difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (×100% Difference between two GC columns).
- X See Case Narrative for discussion.
- MRL Method Reporting Limit. Also known as:
- LOQ Limit of Quantitation (LOQ)

  The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
- MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
- LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.
- ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



#### Rochester Lab ID # for State Certifications<sup>1</sup>

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

<sup>&</sup>lt;sup>1</sup> Analyses were performed according to our laboratory¢s NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <a href="http://www.alsglobal.com/en/Our-Services/Environmental/Downloads/North-America-Downloads">http://www.alsglobal.com/en/Our-Services/Environmental/Downloads/North-America-Downloads</a>

### **ALS Laboratory Group**

#### Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but

greater than or equal to the MDL.

# ALS Group USA, Corp. dba ALS Environmental

Analyst Summary report

Service Request: R1704476

**Date Collected:** 05/16/17

**Date Received:** 05/17/17

Client: Professional Service Industries (PSI) Schenectady, NY

**Project:** Former Borden Facility/0836852-1

Sample Name: MW-19

**Lab Code:** R1704476-001

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

8260C FNAEGLER

8270D DMURPHY JMISIUREWICZ

Sample Name: MW-16 Date Collected: 05/16/17

**Lab Code:** R1704476-002 **Date Received:** 05/17/17

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

8260C FNAEGLER

8270D DMURPHY JMISIUREWICZ

8315A BALLGEIER BALLGEIER

 Sample Name:
 MW-35
 Date Collected: 05/16/17

 Lab Code:
 R1704476-003
 Date Received: 05/17/17

Lab Code: R1704476-003 Date Received: 05/17/17
Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

8260C FNAEGLER 8270D DMURPHY JMISIUREWICZ

DMORITI JMISTORE WICZ

Sample Name: MW-27 Date Collected: 05/16/17

Lab Code:R1704476-004Date Received: 05/17/17Sample Matrix:Water

Analysis Method Extracted/Digested By Analyzed By

8260C FNAEGLER

8270D DMURPHY JMISIUREWICZ 8315A BALLGEIER BALLGEIER

#### ALS Group USA, Corp. dba ALS Environmental

Analyst Summary report

Service Request: R1704476

**Analyzed By** 

**Client:** Professional Service Industries (PSI) Schenectady, NY

**Project:** Former Borden Facility/0836852-1

**Date Collected:** 05/16/17 **Sample Name:** Betty Creek R1704476-005 Lab Code: **Date Received:** 05/17/17

Sample Matrix: Water

**Analyzed By Extracted/Digested By Analysis Method** 

8260C **FNAEGLER** 

8270D **DMURPHY JMISIUREWICZ** 

**Sample Name:** OW-35R **Date Collected:** 05/16/17

Lab Code: R1704476-006 **Date Received:** 05/17/17

**Sample Matrix:** Water

**Analyzed By Extracted/Digested By Analysis Method** 

8260C **FNAEGLER** 

8270D **DMURPHY JMISIUREWICZ** 

Sample Name: Duplicate **Date Collected:** 05/16/17

Lab Code: R1704476-007 **Date Received:** 05/17/17 **Sample Matrix:** Water

**Extracted/Digested By Analysis Method FNAEGLER** 8260C

8270D **DMURPHY JMISIUREWICZ** 

**Sample Name:** MW-15 **Date Collected:** 05/16/17

Lab Code: R1704476-008 **Date Received:** 05/17/17 **Sample Matrix:** Water

**Analysis Method Extracted/Digested By** Analyzed By 8260C **FNAEGLER** 

8270D **DMURPHY JMISIUREWICZ** 

# ALS Group USA, Corp. dba ALS Environmental

Analyst Summary report

Client: Professional Service Industries (PSI) Schenectady, NY

**Project:** Former Borden Facility/0836852-1

Sample Name: MW-28

**Lab Code:** R1704476-009

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

8260C FNAEGLER

8270D DMURPHY JMISIUREWICZ

Sample Name: Trip Blank Date Collected: 05/16/17

Lab Code:R1704476-010Date Received: 05/17/17Sample Matrix:Water

Analysis Method Extracted/Digested By Analyzed By

8260C FNAEGLER

Sample Name: OW-10R Date Collected: 05/16/17

**Lab Code:** R1704476-011 **Date Received:** 05/17/17

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

8260C FNAEGLER

8270D DMURPHY JMISIUREWICZ 8315A BALLGEIER BALLGEIER

Sample Name: MW-17 Date Collected: 05/16/17

**Lab Code:** R1704476-012 **Date Received:** 05/17/17

Sample Matrix: Water

Analysis MethodExtracted/Digested ByAnalyzed By8082ADMURPHYMPEDRO

DMURPHY MPEDRO

Service Request: R1704476

**Date Collected:** 05/16/17

**Date Received:** 05/17/17

# ALS Group USA, Corp. dba ALS Environmental

Analyst Summary report

Client: Professional Service Industries (PSI) Schenectady, NY

**Project:** Former Borden Facility/0836852-1

Sample Name: MW-2B

**Lab Code:** R1704476-013

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

8082A DMURPHY MPEDRO

Sample Name: MW-21 Date Collected: 05/16/17

**Lab Code:** R1704476-014 **Date Received:** 05/17/17

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

8082A DMURPHY MPEDRO

Sample Name: MW-30 Date Collected: 05/16/17

**Lab Code:** R1704476-015 **Date Received:** 05/17/17

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

8260C FNAEGLER

8270D DMURPHY JMISIUREWICZ

Service Request: R1704476

**Date Collected:** 05/16/17

**Date Received:** 05/17/17

### Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid	9030B
Soluble	
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual	SM 4500-CN-G
Cyanide	
SM 4500-CN-E WAD	SM 4500-CN-I
Cyanide	

#### Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation
	Method
6010C	3050B
6020A	3050B
6010C TCLP (1311)	3005A/3010A
extract	
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/	DI extraction
353.2/ SM 2320B/ SM	
5210B/ 9056A Anions	

For analytical methods not listed, the preparation method is the same as the analytical method reference.



# Sample Results

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com



# Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com

Analytical Report

**Client:** Professional Service Industries (PSI) Schenectady, NY

**Date Collected:** 05/16/17 09:20 **Project:** Former Borden Facility/0836852-1

**Sample Matrix:** Water **Date Received:** 05/17/17 18:25

MW-19 **Sample Name:** Units: ug/L Lab Code: R1704476-001

Basis: NA

Service Request: R1704476

#### Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	0.29 ј	5.0	0.20	1	05/19/17 17:27	
Ethylbenzene	0.20 U	5.0	0.20	1	05/19/17 17:27	
Toluene	0.20 U	5.0	0.20	1	05/19/17 17:27	
m,p-Xylenes	0.33 U	5.0	0.33	1	05/19/17 17:27	
o-Xylene	0.20 U	5.0	0.20	1	05/19/17 17:27	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	05/19/17 17:27	
Dibromofluoromethane	93	89 - 119	05/19/17 17:27	
Toluene-d8	96	87 - 121	05/19/17 17:27	

Analytical Report

**Client:** Professional Service Industries (PSI) Schenectady, NY

**Date Collected:** 05/16/17 10:00 **Project:** Former Borden Facility/0836852-1

**Sample Matrix:** Water **Date Received:** 05/17/17 18:25

**Sample Name:** MW-16 Units: ug/L Lab Code:

R1704476-002 Basis: NA

#### Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	0.20 U	5.0	0.20	1	05/19/17 17:49	
Ethylbenzene	0.20 U	5.0	0.20	1	05/19/17 17:49	
Toluene	0.20 U	5.0	0.20	1	05/19/17 17:49	
m,p-Xylenes	0.33 U	5.0	0.33	1	05/19/17 17:49	
o-Xylene	0.20 U	5.0	0.20	1	05/19/17 17:49	

Surrogate Name	% Rec	<b>Control Limits</b>	<b>Date Analyzed</b>	Q
4-Bromofluorobenzene	97	85 - 122	05/19/17 17:49	
Dibromofluoromethane	94	89 - 119	05/19/17 17:49	
Toluene-d8	99	87 - 121	05/19/17 17:49	

Analytical Report

**Client:** Professional Service Industries (PSI) Schenectady, NY

**Date Collected:** 05/16/17 10:30 **Project:** Former Borden Facility/0836852-1

**Sample Matrix:** Water **Date Received:** 05/17/17 18:25

**Sample Name:** MW-35 Units: ug/L Lab Code: R1704476-003

Basis: NA

Service Request: R1704476

#### Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	0.20 U	5.0	0.20	1	05/19/17 18:11	
Ethylbenzene	0.20 U	5.0	0.20	1	05/19/17 18:11	
Toluene	0.20 U	5.0	0.20	1	05/19/17 18:11	
m,p-Xylenes	0.33 U	5.0	0.33	1	05/19/17 18:11	
o-Xylene	0.20 U	5.0	0.20	1	05/19/17 18:11	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	05/19/17 18:11	
Dibromofluoromethane	93	89 - 119	05/19/17 18:11	
Toluene-d8	97	87 - 121	05/19/17 18:11	

Analytical Report

Client: Professional Service Industries (PSI) Schenectady, NY

**Project:** Former Borden Facility/0836852-1 **Date Collected:** 05/16/17 09:40

Sample Matrix: Water Date Received: 05/17/17 18:25

Sample Name: MW-27 Units: ug/L

**Lab Code:** R1704476-004 **Basis:** NA

#### Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	1.2 Ј	5.0	0.20	1	05/19/17 18:33	
Ethylbenzene	0.37 Ј	5.0	0.20	1	05/19/17 18:33	
Toluene	1.0 Ј	5.0	0.20	1	05/19/17 18:33	
m,p-Xylenes	0.33 U	5.0	0.33	1	05/19/17 18:33	
o-Xylene	0.20 U	5.0	0.20	1	05/19/17 18:33	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	05/19/17 18:33	
Dibromofluoromethane	94	89 - 119	05/19/17 18:33	
Toluene-d8	99	87 - 121	05/19/17 18:33	

Analytical Report

Client: Professional Service Industries (PSI) Schenectady, NY

**Project:** Former Borden Facility/0836852-1 **Date Collected:** 05/16/17 10:10

Sample Matrix: Water Date Received: 05/17/17 18:25

 Sample Name:
 Betty Creek
 Units: ug/L

 Lab Code:
 R1704476-005
 Basis: NA

#### Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	0.20 U	5.0	0.20	1	05/19/17 18:55	
Ethylbenzene	0.20 U	5.0	0.20	1	05/19/17 18:55	
Toluene	0.20 U	5.0	0.20	1	05/19/17 18:55	
m,p-Xylenes	0.33 U	5.0	0.33	1	05/19/17 18:55	
o-Xylene	0.20 U	5.0	0.20	1	05/19/17 18:55	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	05/19/17 18:55	
Dibromofluoromethane	92	89 - 119	05/19/17 18:55	
Toluene-d8	95	87 - 121	05/19/17 18:55	

Analytical Report

Client: Professional Service Industries (PSI) Schenectady, NY

**Project:** Former Borden Facility/0836852-1 **Date Collected:** 05/16/17 11:30

Sample Matrix: Water Date Received: 05/17/17 18:25

 Sample Name:
 OW-35R
 Units: ug/L

 Lab Code:
 R1704476-006
 Basis: NA

#### Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	2.1 Ј	5.0	0.20	1	05/19/17 19:16	
Ethylbenzene	0.72 Ј	5.0	0.20	1	05/19/17 19:16	
Toluene	1.1 ј	5.0	0.20	1	05/19/17 19:16	
m,p-Xylenes	0.83 Ј	5.0	0.33	1	05/19/17 19:16	
o-Xylene	0.36 Ј	5.0	0.20	1	05/19/17 19:16	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	05/19/17 19:16	
Dibromofluoromethane	94	89 - 119	05/19/17 19:16	
Toluene-d8	100	87 - 121	05/19/17 19:16	

Analytical Report

**Client:** Professional Service Industries (PSI) Schenectady, NY

Service Request: R1704476 **Date Collected:** 05/16/17 **Project:** Former Borden Facility/0836852-1

**Sample Matrix:** Water **Date Received:** 05/17/17 18:25

**Sample Name:** Duplicate Units: ug/L Lab Code: R1704476-007 Basis: NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C **Prep Method:** EPA 5030C

<b>Analyte Name</b>	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	2.0 Ј	5.0	0.20	1	05/19/17 17:05	
Ethylbenzene	0.64 Ј	5.0	0.20	1	05/19/17 17:05	
Toluene	0.91 ј	5.0	0.20	1	05/19/17 17:05	
m,p-Xylenes	0.82 ј	5.0	0.33	1	05/19/17 17:05	
o-Xylene	0.29 Ј	5.0	0.20	1	05/19/17 17:05	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	05/19/17 17:05	
Dibromofluoromethane	91	89 - 119	05/19/17 17:05	
Toluene-d8	98	87 - 121	05/19/17 17:05	

Analytical Report

Client: Professional Service Industries (PSI) Schenectady, NY

**Project:** Former Borden Facility/0836852-1 **Date Collected:** 05/16/17 11:25

Sample Matrix: Water Date Received: 05/17/17 18:25

Sample Name: MW-15 Units: ug/L

**Lab Code:** R1704476-008 **Basis:** NA

#### Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	13 Ј	25	1.0	5	05/19/17 19:38	
Ethylbenzene	5.1 J	25	1.0	5	05/19/17 19:38	
Toluene	980 D	50	2.0	10	05/21/17 19:23	
m,p-Xylenes	1.7 U	25	1.7	5	05/19/17 19:38	
o-Xylene	1.0 U	25	1.0	5	05/19/17 19:38	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	05/19/17 19:38	
Dibromofluoromethane	96	89 - 119	05/19/17 19:38	
Toluene-d8	98	87 - 121	05/19/17 19:38	

Analytical Report

Client: Professional Service Industries (PSI) Schenectady, NY

**Project:** Former Borden Facility/0836852-1 **Date Collected:** 05/16/17 12:25

Sample Matrix: Water Date Received: 05/17/17 18:25

Sample Name: MW-28 Units: ug/L

**Lab Code:** R1704476-009 **Basis:** NA

#### Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	4.4 J	5.0	0.20	1	05/19/17 20:00	
Ethylbenzene	0.20 U	5.0	0.20	1	05/19/17 20:00	
Toluene	0.59 ј	5.0	0.20	1	05/19/17 20:00	
m,p-Xylenes	0.37 ј	5.0	0.33	1	05/19/17 20:00	
o-Xylene	0.20 U	5.0	0.20	1	05/19/17 20:00	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	05/19/17 20:00	
Dibromofluoromethane	93	89 - 119	05/19/17 20:00	
Toluene-d8	99	87 - 121	05/19/17 20:00	

Analytical Report

**Client:** Professional Service Industries (PSI) Schenectady, NY

Service Request: R1704476 **Date Collected:** 05/16/17 **Project:** Former Borden Facility/0836852-1

**Sample Matrix:** Water **Date Received:** 05/17/17 18:25

**Sample Name:** Trip Blank Units: ug/L Lab Code: R1704476-010 Basis: NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	0.20 U	5.0	0.20	1	05/19/17 16:43	
Ethylbenzene	0.20 U	5.0	0.20	1	05/19/17 16:43	
Toluene	0.47 Ј	5.0	0.20	1	05/19/17 16:43	
m,p-Xylenes	0.33 U	5.0	0.33	1	05/19/17 16:43	
o-Xylene	0.20 U	5.0	0.20	1	05/19/17 16:43	

Surrogate Name	% Rec	<b>Control Limits</b>	<b>Date Analyzed</b>	Q
4-Bromofluorobenzene	98	85 - 122	05/19/17 16:43	
Dibromofluoromethane	95	89 - 119	05/19/17 16:43	
Toluene-d8	100	87 - 121	05/19/17 16:43	

Analytical Report

Client: Professional Service Industries (PSI) Schenectady, NY

**Project:** Former Borden Facility/0836852-1 **Date Collected:** 05/16/17 12:20

Sample Matrix: Water Date Received: 05/17/17 18:25

 Sample Name:
 OW-10R
 Units: ug/L

 Lab Code:
 R1704476-011
 Basis: NA

**Volatile Organic Compounds by GC/MS** 

**Analysis Method:** 8260C **Prep Method:** EPA 5030C

<b>Analyte Name</b>	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	6.3 Ј	25	1.0	5	05/19/17 20:22	
Ethylbenzene	3.3 J	25	1.0	5	05/19/17 20:22	
Toluene	530	25	1.0	5	05/19/17 20:22	
m,p-Xylenes	1.7 U	25	1.7	5	05/19/17 20:22	
o-Xylene	1.0 U	25	1.0	5	05/19/17 20:22	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	05/19/17 20:22	
Dibromofluoromethane	95	89 - 119	05/19/17 20:22	
Toluene-d8	99	87 - 121	05/19/17 20:22	

Analytical Report

**Client:** Professional Service Industries (PSI) Schenectady, NY

**Date Collected:** 05/16/17 10:05 **Project:** Former Borden Facility/0836852-1

**Sample Matrix:** Water **Date Received:** 05/17/17 18:25

**Sample Name:** MW-30 Units: ug/L Lab Code: R1704476-015

Basis: NA

Service Request: R1704476

#### Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	0.20 U	5.0	0.20	1	05/19/17 20:44	
Ethylbenzene	0.20 U	5.0	0.20	1	05/19/17 20:44	
Toluene	0.22 ј	5.0	0.20	1	05/19/17 20:44	
m,p-Xylenes	0.33 U	5.0	0.33	1	05/19/17 20:44	
o-Xylene	0.20 U	5.0	0.20	1	05/19/17 20:44	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	05/19/17 20:44	
Dibromofluoromethane	95	89 - 119	05/19/17 20:44	
Toluene-d8	99	87 - 121	05/19/17 20:44	



## Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com

Analytical Report

Client: Professional Service Industries (PSI) Schenectady, NY

**Project:** Former Borden Facility/0836852-1 **Date Collected:** 05/16/17 09:20

Sample Matrix: Water Date Received: 05/17/17 18:25

 Sample Name:
 MW-19
 Units: ug/L

 Lab Code:
 R1704476-001
 Basis: NA

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D **Prep Method:** EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Phanol	10 H	9.4	1.0	1	05/22/17 14:37	5/18/17	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
2,4,6-Tribromophenol	61	35 - 141	05/22/17 14:37	
2-Fluorophenol	33	10 - 105	05/22/17 14:37	
Phenol-d6	25	10 - 107	05/22/17 14:37	

Analytical Report

**Client:** Professional Service Industries (PSI) Schenectady, NY

**Date Collected:** 05/16/17 10:00

**Project:** Former Borden Facility/0836852-1

**Sample Matrix:** Water **Date Received:** 05/17/17 18:25

**Sample Name:** MW-16 Units: ug/L Lab Code: R1704476-002 Basis: NA

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D **Prep Method:** EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Phenol	1.0 U	9.4	1.0	1	05/22/17 15:06	5/18/17	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
2,4,6-Tribromophenol	60	35 - 141	05/22/17 15:06	
2-Fluorophenol	29	10 - 105	05/22/17 15:06	
Phenol-d6	21	10 - 107	05/22/17 15:06	

Analytical Report

**Client:** Professional Service Industries (PSI) Schenectady, NY

**Date Collected:** 05/16/17 10:30 **Project:** Former Borden Facility/0836852-1

**Sample Matrix:** Water **Date Received:** 05/17/17 18:25

**Sample Name:** MW-35 Units: ug/L

Lab Code: R1704476-003 Basis: NA

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D **Prep Method:** EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q	
Phenol	10 11	9.4	1.0	1	05/22/17 15:35	5/18/17		

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
2,4,6-Tribromophenol	65	35 - 141	05/22/17 15:35	
2-Fluorophenol	35	10 - 105	05/22/17 15:35	
Phenol-d6	26	10 - 107	05/22/17 15:35	

Analytical Report

Client: Professional Service Industries (PSI) Schenectady, NY

Project: Former Borden Facility/0836852-1 Date Collected: 05/16/17 09:40

Sample Matrix: Water Date Received: 05/17/17 18:25

 Sample Name:
 MW-27
 Units: ug/L

 Lab Code:
 R1704476-004
 Basis: NA

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D **Prep Method:** EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Phenol	2.7 ј	9.4	1.0	1	05/22/17 16:04	5/18/17	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
2,4,6-Tribromophenol	65	35 - 141	05/22/17 16:04	
2-Fluorophenol	32	10 - 105	05/22/17 16:04	
Phenol-d6	24	10 - 107	05/22/17 16:04	

Analytical Report

Client: Professional Service Industries (PSI) Schenectady, NY

**Project:** Former Borden Facility/0836852-1 **Date Collected:** 05/16/17 10:10

Sample Matrix: Water Date Received: 05/17/17 18:25

 Sample Name:
 Betty Creek
 Units: ug/L

 Lab Code:
 R1704476-005
 Basis: NA

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D **Prep Method:** EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q	
Phanol	3.9 т	9.4	1.0	1	05/22/17 16:32	5/18/17		

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
2,4,6-Tribromophenol	62	35 - 141	05/22/17 16:32	
2-Fluorophenol	37	10 - 105	05/22/17 16:32	
Phenol-d6	29	10 - 107	05/22/17 16:32	

Analytical Report

Client: Professional Service Industries (PSI) Schenectady, NY

**Project:** Former Borden Facility/0836852-1 **Date Collected:** 05/16/17 11:30

Sample Matrix: Water Date Received: 05/17/17 18:25

 Sample Name:
 OW-35R
 Units: ug/L

 Lab Code:
 R1704476-006
 Basis: NA

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D **Prep Method:** EPA 3510C

 Analyte Name
 Result
 MRL
 MDL
 Dil.
 Date Analyzed
 Date Extracted
 Q

 Phenol
 3.4 J
 9.4
 1.0
 1
 05/22/17 17:01
 5/18/17

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
2,4,6-Tribromophenol	65	35 - 141	05/22/17 17:01	
2-Fluorophenol	35	10 - 105	05/22/17 17:01	
Phenol-d6	26	10 - 107	05/22/17 17:01	

Analytical Report

**Client:** Professional Service Industries (PSI) Schenectady, NY

Service Request: R1704476 **Date Collected:** 05/16/17 **Project:** Former Borden Facility/0836852-1

**Sample Matrix:** Water **Date Received:** 05/17/17 18:25

**Sample Name:** Duplicate Units: ug/L Lab Code: R1704476-007 Basis: NA

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D **Prep Method:** EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Phenol	4.1 J	9.4	1.0	1	05/22/17 17:29	5/18/17	_

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
2,4,6-Tribromophenol	67	35 - 141	05/22/17 17:29	
2-Fluorophenol	34	10 - 105	05/22/17 17:29	
Phenol-d6	24	10 - 107	05/22/17 17:29	

Analytical Report

Client: Professional Service Industries (PSI) Schenectady, NY

**Project:** Former Borden Facility/0836852-1 **Date Collected:** 05/16/17 11:25

Sample Matrix: Water Date Received: 05/17/17 18:25

 Sample Name:
 MW-15
 Units: ug/L

 Lab Code:
 R1704476-008
 Basis: NA

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D **Prep Method:** EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Phenol	29000	1900	200	200	05/23/17 16:01	5/18/17	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
2,4,6-Tribromophenol	0 *	35 - 141	05/23/17 16:01	D
2-Fluorophenol	0 *	10 - 105	05/23/17 16:01	D
Phenol-d6	0 *	10 - 107	05/23/17 16:01	D

Analytical Report

Client: Professional Service Industries (PSI) Schenectady, NY

**Project:** Former Borden Facility/0836852-1 **Date Collected:** 05/16/17 12:25

Sample Matrix: Water Date Received: 05/17/17 18:25

 Sample Name:
 MW-28
 Units: ug/L

 Lab Code:
 R1704476-009
 Basis: NA

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D **Prep Method:** EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Phanol	48 T	9.4	1.0	1	05/22/17 18:27	5/18/17	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
2,4,6-Tribromophenol	68	35 - 141	05/22/17 18:27	
2-Fluorophenol	33	10 - 105	05/22/17 18:27	
Phenol-d6	24	10 - 107	05/22/17 18:27	

Analytical Report

Client: Professional Service Industries (PSI) Schenectady, NY

Former Borden Facility/0836852-1 **Date Collected:** 05/16/17 12:20

Sample Matrix: Water Date Received: 05/17/17 18:25

 Sample Name:
 OW-10R
 Units: ug/L

 Lab Code:
 R1704476-011
 Basis: NA

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D **Prep Method:** EPA 3510C

**Project:** 

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q	
Phenol	4300	470	50	50	05/23/17 16:59	5/18/17		

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
2,4,6-Tribromophenol	0 *	35 - 141	05/23/17 16:59	D
2-Fluorophenol	0 *	10 - 105	05/23/17 16:59	D
Phenol-d6	0 *	10 - 107	05/23/17 16:59	D

Analytical Report

Client: Professional Service Industries (PSI) Schenectady, NY

**Project:** Former Borden Facility/0836852-1 **Date Collected:** 05/16/17 10:05

Sample Matrix: Water Date Received: 05/17/17 18:25

 Sample Name:
 MW-30
 Units: ug/L

 Lab Code:
 R1704476-015
 Basis: NA

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D **Prep Method:** EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q	
Phenol	10 11	9.4	1.0	1	05/23/17 11:49	5/22/17		

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
2,4,6-Tribromophenol	74	35 - 141	05/23/17 11:49	
2-Fluorophenol	34	10 - 105	05/23/17 11:49	
Phenol-d6	24	10 - 107	05/23/17 11:49	



## Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com

Analytical Report

Client: Professional Service Industries (PSI) Schenectady, NY

**Project:** Former Borden Facility/0836852-1 **Date Collected:** 05/16/17 13:00

Sample Matrix: Water Date Received: 05/17/17 18:25

 Sample Name:
 MW-17
 Units: ug/L

 Lab Code:
 R1704476-012
 Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

**Analysis Method:** 8082A **Prep Method:** EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	<b>Date Extracted</b>	Q
Aroclor 1016	0.50 U	0.94	0.50	1	05/23/17 18:19	5/19/17	
Aroclor 1221	1.0 U	1.9	1.0	1	05/23/17 18:19	5/19/17	
Aroclor 1232	0.50 U	0.94	0.50	1	05/23/17 18:19	5/19/17	
Aroclor 1242	0.50 U	0.94	0.50	1	05/23/17 18:19	5/19/17	
Aroclor 1248	0.50 U	0.94	0.50	1	05/23/17 18:19	5/19/17	
Aroclor 1254	0.50 U	0.94	0.50	1	05/23/17 18:19	5/19/17	-
Aroclor 1260	0.50 U	0.94	0.50	1	05/23/17 18:19	5/19/17	

Surrogate Name	% Rec	<b>Control Limits</b>	<b>Date Analyzed</b>	Q
Decachlorobiphenyl	92	10 - 149	05/23/17 18:19	
Tetrachloro-m-xylene	77	15 - 131	05/23/17 18:19	

Analytical Report

**Client:** Professional Service Industries (PSI) Schenectady, NY

**Date Collected:** 05/16/17 13:32 **Project:** Former Borden Facility/0836852-1

**Sample Matrix:** Water **Date Received:** 05/17/17 18:25

**Sample Name:** MW-2B Units: ug/L Lab Code: R1704476-013

Basis: NA

Service Request: R1704476

#### Polychlorinated Biphenyls (PCBs) by GC

**Analysis Method:** 8082A **Prep Method:** EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.50 U	0.94	0.50	1	05/23/17 18:39	5/19/17	_
Aroclor 1221	1.0 U	1.9	1.0	1	05/23/17 18:39	5/19/17	
Aroclor 1232	0.50 U	0.94	0.50	1	05/23/17 18:39	5/19/17	
Aroclor 1242	0.50 U	0.94	0.50	1	05/23/17 18:39	5/19/17	
Aroclor 1248	0.50 U	0.94	0.50	1	05/23/17 18:39	5/19/17	
Aroclor 1254	0.50 U	0.94	0.50	1	05/23/17 18:39	5/19/17	
Aroclor 1260	0.50 U	0.94	0.50	1	05/23/17 18:39	5/19/17	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
Decachlorobiphenyl	79	10 - 149	05/23/17 18:39	
Tetrachloro-m-xylene	63	15 - 131	05/23/17 18:39	

Analytical Report

Client: Professional Service Industries (PSI) Schenectady, NY

**Project:** Former Borden Facility/0836852-1 **Date Collected:** 05/16/17 13:10

Sample Matrix: Water Date Received: 05/17/17 18:25

 Sample Name:
 MW-21
 Units: ug/L

 Lab Code:
 R1704476-014
 Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

**Analysis Method:** 8082A **Prep Method:** EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	<b>Date Analyzed</b>	<b>Date Extracted</b>	Q
Aroclor 1016	0.50 U	0.94	0.50	1	05/23/17 18:58	5/19/17	
Aroclor 1221	1.0 U	1.9	1.0	1	05/23/17 18:58	5/19/17	
Aroclor 1232	0.50 U	0.94	0.50	1	05/23/17 18:58	5/19/17	
Aroclor 1242	0.50 U	0.94	0.50	1	05/23/17 18:58	5/19/17	
Aroclor 1248	0.50 U	0.94	0.50	1	05/23/17 18:58	5/19/17	
Aroclor 1254	0.50 U	0.94	0.50	1	05/23/17 18:58	5/19/17	
Aroclor 1260	0.50 U	0.94	0.50	1	05/23/17 18:58	5/19/17	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
Decachlorobiphenyl	47	10 - 149	05/23/17 18:58	
Tetrachloro-m-xylene	69	15 - 131	05/23/17 18:58	

Analytical Report

Client: Professional Service Industries (PSI) Schenectady, NY Service Request: R1704476

Project: Former Borden Facility/0836852-1 **Date Collected:** 05/16/17 10:00

Sample Matrix: Water Date Received: 05/17/17 18:25

 Sample Name:
 MW-16
 Units: ug/L

 Lab Code:
 R1704476-002
 Basis: NA

Carbonyl Compounds by High Performance Liquid Chromatography (HPLC)

**Analysis Method:** 8315A **Prep Method:** Method

Analyte NameResultMRLMDLDil.Date AnalyzedDate ExtractedQFormaldehyde558.04.0105/22/17 14:405/19/17

Analytical Report

Client: Professional Service Industries (PSI) Schenectady, NY Service Request: R1704476

Project: Former Borden Facility/0836852-1 Date Collected: 05/16/17 09:40

Sample Matrix: Water Date Received: 05/17/17 18:25

 Sample Name:
 MW-27
 Units: ug/L

 Lab Code:
 R1704476-004
 Basis: NA

Carbonyl Compounds by High Performance Liquid Chromatography (HPLC)

**Analysis Method:** 8315A **Prep Method:** Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Formaldehyde	140	8.0	4.0	1	05/22/17 15:02	5/19/17	

Analytical Report

Client: Professional Service Industries (PSI) Schenectady, NY Service Request: R1704476

Project: Former Borden Facility/0836852-1 Date Collected: 05/16/17 12:20

Sample Matrix: Water Date Received: 05/17/17 18:25

 Sample Name:
 OW-10R
 Units: ug/L

 Lab Code:
 R1704476-011
 Basis: NA

Carbonyl Compounds by High Performance Liquid Chromatography (HPLC)

**Analysis Method:** 8315A **Prep Method:** Method

Analyte NameResultMRLMDLDil.Date AnalyzedDate ExtractedQFormaldehyde1408.04.0105/22/17 15:245/19/17



# **QC Summary Forms**

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com



# Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com

QA/QC Report

Client: Professional Service Industries (PSI) Schenectady, NY Service Request: R1704476

**Project:** Former Borden Facility/0836852-1

Sample Matrix: Water

**SURROGATE RECOVERY SUMMARY Volatile Organic Compounds by GC/MS** 

**Analysis Method:** 8260C

**Extraction Method:** EPA 5030C

		4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
Sample Name	Lab Code	85 - 122	89 - 119	87 - 121
MW-19	R1704476-001	96	93	96
MW-16	R1704476-002	97	94	99
MW-35	R1704476-003	96	93	97
MW-27	R1704476-004	98	94	99
Betty Creek	R1704476-005	95	92	95
OW-35R	R1704476-006	99	94	100
Duplicate	R1704476-007	94	91	98
MW-15	R1704476-008	97	96	98
MW-28	R1704476-009	99	93	99
Trip Blank	R1704476-010	98	95	100
OW-10R	R1704476-011	98	95	99
MW-30	R1704476-015	98	95	99
Lab Control Sample	RQ1704656-03	100	96	98
Method Blank	RQ1704656-04	98	93	99
Lab Control Sample	RQ1704704-03	103	97	101
Method Blank	RQ1704704-04	97	94	98
MW-15 MS	RQ1704704-05	102	99	100
MW-15 DMS	RQ1704704-06	99	99	99

Analytical Report

Client: Professional Service Industries (PSI) Schenectady, NY Service Request: R1704476

Project:Former Borden Facility/0836852-1Date Collected:NASample Matrix:WaterDate Received:NA

Sample Name: Method Blank Units: ug/L

Lab Code: RQ1704656-04 Basis: NA

#### **Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	0.20 U	5.0	0.20	1	05/19/17 14:31	
Ethylbenzene	0.20 U	5.0	0.20	1	05/19/17 14:31	
Toluene	0.20 U	5.0	0.20	1	05/19/17 14:31	
m,p-Xylenes	0.33 U	5.0	0.33	1	05/19/17 14:31	
o-Xylene	0.20 U	5.0	0.20	1	05/19/17 14:31	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	05/19/17 14:31	
Dibromofluoromethane	93	89 - 119	05/19/17 14:31	
Toluene-d8	99	87 - 121	05/19/17 14:31	

Analytical Report

Client: Professional Service Industries (PSI) Schenectady, NY Service Request: R1704476

Project:Former Borden Facility/0836852-1Date Collected:NASample Matrix:WaterDate Received:NA

Sample Name:Method BlankUnits: ug/LLab Code:RQ1704704-04Basis: NA

#### **Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	0.20 U	5.0	0.20	1	05/21/17 12:01	
Ethylbenzene	0.20 U	5.0	0.20	1	05/21/17 12:01	
Toluene	0.20 U	5.0	0.20	1	05/21/17 12:01	
m,p-Xylenes	0.33 U	5.0	0.33	1	05/21/17 12:01	
o-Xylene	0.20 U	5.0	0.20	1	05/21/17 12:01	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	05/21/17 12:01	
Dibromofluoromethane	94	89 - 119	05/21/17 12:01	
Toluene-d8	98	87 - 121	05/21/17 12:01	



# Semivolatile Organic Compounds by GC/MS

QA/QC Report

Client: Professional Service Industries (PSI) Schenectady, NY Service Request: R1704476

**Project:** Former Borden Facility/0836852-1

Sample Matrix: Water

#### SURROGATE RECOVERY SUMMARY Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D **Extraction Method:** EPA 3510C

		2,4,6-Tribromophenol	2-Fluorophenol	Phenol-d6	
Sample Name	Lab Code	35 - 141	10 - 105	10 - 107	
MW-19	R1704476-001	61	33	25	
MW-16	R1704476-002	60	29	21	
MW-35	R1704476-003	65	35	26	
MW-27	R1704476-004	65	32	24	
Betty Creek	R1704476-005	62	37	29	
OW-35R	R1704476-006	65	35	26	
Duplicate	R1704476-007	67	34	24	
MW-15	R1704476-008	0 *	0 *	0 *	
MW-28	R1704476-009	68	33	24	
OW-10R	R1704476-011	0 *	0 *	0 *	
MW-30	R1704476-015	74	34	24	
Method Blank	RQ1704451-01	62	39	29	
Lab Control Sample	RQ1704451-02	69	41	31	
Duplicate Lab Control Sample	RQ1704451-03	73	40	30	
Method Blank	RQ1704555-01	80	38	27	
Lab Control Sample	RQ1704555-02	70	42	31	
Duplicate Lab Control Sample	RQ1704555-03	70	41	30	

Analytical Report

Client: Professional Service Industries (PSI) Schenectady, NY Service Request: R1704476

Project:Former Borden Facility/0836852-1Date Collected:NASample Matrix:WaterDate Received:NA

 Sample Name:
 Method Blank
 Units: ug/L

 Lab Code:
 RQ1704451-01
 Basis: NA

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D **Prep Method:** EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Phenol	10 11	10	1.0	1	05/22/17 08:55	5/18/17	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
2,4,6-Tribromophenol	62	35 - 141	05/22/17 08:55	
2-Fluorophenol	39	10 - 105	05/22/17 08:55	
Phenol-d6	29	10 - 107	05/22/17 08:55	

Analytical Report

Client: Professional Service Industries (PSI) Schenectady, NY Service Request: R1704476

Project:Former Borden Facility/0836852-1Date Collected:NASample Matrix:WaterDate Received:NA

Sample Name:Method BlankUnits: ug/LLab Code:RQ1704555-01Basis: NA

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D **Prep Method:** EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q	
Phenol	10 11	10	1.0	1	05/23/17 10:25	5/22/17		

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
2,4,6-Tribromophenol	80	35 - 141	05/23/17 10:25	
2-Fluorophenol	38	10 - 105	05/23/17 10:25	
Phenol-d6	27	10 - 107	05/23/17 10:25	



# Semivolatile Organic Compounds by GC

QA/QC Report

Client: Professional Service Industries (PSI) Schenectady, NY Service Request: R1704476

**Project:** Former Borden Facility/0836852-1

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY Polychlorinated Biphenyls (PCBs) by GC

**Analysis Method:** 8082A **Extraction Method:** EPA 3510C

		Decachlorobiphenyl	Tetrachloro-m-xylene
Sample Name	Lab Code	10 - 149	15 - 131
MW-17	R1704476-012	92	77
MW-2B	R1704476-013	79	63
MW-21	R1704476-014	47	69
Method Blank	RQ1704491-01	84	81
Lab Control Sample	RQ1704491-02	77	80
Duplicate Lab Control Sample	RQ1704491-03	86	86

Analytical Report

Client: Professional Service Industries (PSI) Schenectady, NY Service Request: R1704476

Project:Former Borden Facility/0836852-1Date Collected:NASample Matrix:WaterDate Received:NA

 Sample Name:
 Method Blank
 Units: ug/L

 Lab Code:
 RQ1704491-01
 Basis: NA

#### Polychlorinated Biphenyls (PCBs) by GC

**Analysis Method:** 8082A **Prep Method:** EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	<b>Date Extracted</b>	Q
Aroclor 1016	0.50 U	1.0	0.50	1	05/23/17 14:44	5/19/17	
Aroclor 1221	1.0 U	2.0	1.0	1	05/23/17 14:44	5/19/17	
Aroclor 1232	0.50 U	1.0	0.50	1	05/23/17 14:44	5/19/17	
Aroclor 1242	0.50 U	1.0	0.50	1	05/23/17 14:44	5/19/17	
Aroclor 1248	0.50 U	1.0	0.50	1	05/23/17 14:44	5/19/17	
Aroclor 1254	0.50 U	1.0	0.50	1	05/23/17 14:44	5/19/17	
Aroclor 1260	0.50 U	1.0	0.50	1	05/23/17 14:44	5/19/17	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
Decachlorobiphenyl	84	10 - 149	05/23/17 14:44	
Tetrachloro-m-xylene	81	15 - 131	05/23/17 14:44	

Analytical Report

Client: Professional Service Industries (PSI) Schenectady, NY Service Request: R1704476

Project:Former Borden Facility/0836852-1Date Collected:NASample Matrix:WaterDate Received:NA

Sample Name:Method BlankUnits: ug/LLab Code:RQ1704516-01Basis: NA

Carbonyl Compounds by High Performance Liquid Chromatography (HPLC)

**Analysis Method:** 8315A **Prep Method:** Method

Analyte NameResultMRLMDLDil.Date AnalyzedDate ExtractedQFormaldehyde4.0 U8.04.0105/22/17 12:275/19/17





Mr. David Myers Professional Service Industries (PSI) 104 Erie Boulevard, Suite 101 Schenectady, NY 12305

Laboratory Results for: Former Borden Facility

Dear Mr. Myers,

Enclosed are the results of the sample(s) submitted to our laboratory May 17, 2017 For your reference, these analyses have been assigned our service request number **R1704835**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Respectfully submitted,

Fredy Kullin

ALS Group USA, Corp. dba ALS Environmental

Brady Kalkman Project Manager



# **Narrative Documents**

Service Request:R1704835

Date Received:5/17/17



Client: Professional Service Industries (PSI) Schenectady, NY

Former Borden Facility/0836852-1

Sample Matrix: Water

Project:

#### **CASE NARRATIVE**

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier I data deliverables. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Any parameters that are not included in the lab's NELAC accreditation are identified on a "Non-Certified Analytes" report in the Miscellaneous Forms Section of this report. Individual analytical results requiring further explanation are flagged with qualifiers and/or discussed below. The flags are explained in the Report Qualifiers and Definitions page in the Miscellaneous Forms section of this report.

#### Sample Receipt

Three Water samples were received for analysis at ALS Environmental on 05/17/2017. Any discrepancies noted upon initial sample inspection are noted on the cooler receipt and preservation form included in this data package. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at ≤6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

#### Semi-Volatile Organic Analyses:

No significant anomalies were noted with this analysis.

Approved by Francis Known

Date 6/7/2017

3 of 22



#### **SAMPLE DETECTION SUMMARY**

CLIENT ID: MW-17	Lab ID: R1	D: R1704835-001						
Analyte	Results	Flag	MDL	PQL	Units	Method		
Aroclor 1248	0.15		0.025	0.047	ug/L	8082A		
CLIENT ID: MW-2B	Lab ID: R1	704835-	002					
Analyte	Results	Flag	MDL	PQL	Units	Method		
Aroclor 1248	0.36		0.025	0.047	ug/L	8082A		



# Sample Receipt Information

Client: Professional Service Industries (PSI) Schenectady, NY Service Request:R1704835

**Project:** Former Borden Facility/0836852-1

#### **SAMPLE CROSS-REFERENCE**

SAMPLE #	CLIENT SAMPLE ID	<u>DATE</u>	TIME
R1704835-001	MW-17	5/16/2017	1300
R1704835-002	MW-2B	5/16/2017	1332
R1704835-003	MW-21	5/16/2017	1310

Printed 6/7/2017 8:47:25 AM Sample Summary

#### CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

33901

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 283 5380 +1 585 288 8475 (fax) PAGE \_\_\_\_\_\_OF \_\_\_\_

Project Name Fo? AAZZ DA	Project Num				ANALYSIS REQUESTED (Include Method Numlier and Container Preservative)																
FORMER RORDEN FICIL Project Municiper	Report CC	36852-	<u> </u>			PRESERVATIVE															
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### Cooler Receipt and Preservation Check Form

R1704835 Professional Service Industries (PSI)	5
Borden Facility Supplies (PSI)	

(ALS				ı						• •		
Project/Clier					Fol	der N	um	ber		·		
Cooler received	on_5/17/1	7-	by:_	Dh	_	CC					ELOCITY CLIE	
	tody seals on		oler?		Y 4	5:	- 1			have required		Y N CALA
2 Custody p	papers proper	ly completed	(ink, si	gned)?	& N	5	- 1				sig* bubbles?	Y NA NA
	tles arrive in							Where d	id the bottles	originate?	AL\$ARÓC	CLIENT
4 Circle: V	terfice Dry	Ice Gel pac	ks p	resent?	Q N	7		Soil VO	A received as	s: Bulk	Encore 5035	set NA
8. Temperature	Readings	Date: 5/	17/17	Tim	ie: 183	χ		ID: I	R#7 IK#8°	Fror	m: Temp Blank	Sample Bottle
Observed Ter	np (°C)	5.5	- 6	3,	00		30		0195			
Correction Fa	ctor (°C)	to. u			0'		0		10.0'			
Corrected Ter		515	<b>-</b>	311	) `	1,	3'		०.५			
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Within 0-6°C If <0°C, were		en? Y	N N		N			7	Ø N Y N	YN	YN	YN
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	ere 5035 vial ir Samples: C Lot of test paper	Cassettes / Tub	es Inta		Lot Re	Canis	ters	Pressuriz Exp		Tedlar® Bags Vol. Added	Inflated (	N/A Final pH
≥12	* : *	NaOH										
≤2		HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub>		ļ	<b>-</b>	_						
<u>≤2</u> <4		NaHSO <sub>4</sub>		<del> </del>								-
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	, , ,	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ZnAcetate HCl	**	- **	Client,		60	721	recorded b	ne tested befor by VOAs on a	e analysis – pH separate worksł	tested and neet
Explain all	numbers: <u>U</u> Discrepanci	es/ Other Co	mment.	s:	151B							ри и
* MV	v-27;1	I voa ' Other 2	vial Via	ha 13 i	sal ntact	orok - 181	(er ]	Cap	2. A/344	of lost.	CLF DO HPF HTTI PH SO:	FLDT ROD HGFB LL3541 SUB
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P:\INTRANET\QAQC\Forms Controlled\Cooler Receipt r14.doc

1/9/17



# Miscellaneous Forms



#### REPORT QUALIFIERS AND DEFINITIONS

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- \* Indicates that a quality control parameter has exceeded laboratory limits. Under the õNotesö column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
- H Analysis was performed out of hold time for tests that have an õimmediateö hold time criteria.
- # Spike was diluted out.

- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% (25% for CLP) difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (×100% Difference between two GC columns).
- X See Case Narrative for discussion.
- MRL Method Reporting Limit. Also known as:
- LOQ Limit of Quantitation (LOQ)

  The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
- MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
- LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.
- ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



#### Rochester Lab ID # for State Certifications<sup>1</sup>

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

<sup>&</sup>lt;sup>1</sup> Analyses were performed according to our laboratory¢s NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <a href="http://www.alsglobal.com/en/Our-Services/Environmental/Downloads/North-America-Downloads">http://www.alsglobal.com/en/Our-Services/Environmental/Downloads/North-America-Downloads</a>

#### **ALS Laboratory Group**

#### **Acronyms**

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but

greater than or equal to the MDL.

Analyst Summary report

Client: Professional Service Industries (PSI) Schenectady, NY

**Project:** Former Borden Facility/0836852-1

**Sample Name:** MW-17

**Lab Code:** R1704835-001

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

8082A DMURPHY MPEDRO

Sample Name: MW-2B Date Collected: 05/16/17

**Lab Code:** R1704835-002 **Date Received:** 05/17/17

Sample Matrix: Water

Water

Sample Matrix:

Analysis Method Extracted/Digested By Analyzed By

8082A DMURPHY MPEDRO

Sample Name: MW-21 Date Collected: 05/16/17

**Lab Code:** R1704835-003 **Date Received:** 05/17/17

Analysis Method Extracted/Digested By Analyzed By

8082A DMURPHY MPEDRO

Service Request: R1704835

**Date Collected:** 05/16/17

**Date Received:** 05/17/17



#### **INORGANIC PREPARATION METHODS**

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

#### Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid	9030B
Soluble	
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual	SM 4500-CN-G
Cyanide	
SM 4500-CN-E WAD	SM 4500-CN-I
Cyanide	

#### Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation
	Method
6010C	3050B
6020A	3050B
6010C TCLP (1311)	3005A/3010A
extract	
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/	DI extraction
353.2/ SM 2320B/ SM	
5210B/ 9056A Anions	

For analytical methods not listed, the preparation method is the same as the analytical method reference.



# Sample Results



# Semivolatile Organic Compounds by GC

Analytical Report

Client: Professional Service Industries (PSI) Schenectady, NY

**Project:** Former Borden Facility/0836852-1 **Date Collected:** 05/16/17 13:00

Sample Matrix: Water Date Received: 05/17/17 18:22

Sample Name: MW-17 Units: ug/L

**Lab Code:** R1704835-001 **Basis:** NA

#### Low Level Polychlorinated Biphenyls (PCBs) by GC

**Analysis Method:** 8082A **Prep Method:** EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.047 U	0.047	1	06/06/17 12:21	6/2/17	*
Aroclor 1221	0.047 U	0.047	1	06/06/17 12:21	6/2/17	*
Aroclor 1232	0.047 U	0.047	1	06/06/17 12:21	6/2/17	*
Aroclor 1242	0.047 U	0.047	1	06/06/17 12:21	6/2/17	*
Aroclor 1248	0.15	0.047	1	06/06/17 12:21	6/2/17	*
Aroclor 1254	0.047 U	0.047	1	06/06/17 12:21	6/2/17	*
Aroclor 1260	0.047 U	0.047	1	06/06/17 12:21	6/2/17	*

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q	
Decachlorobiphenyl	68	10 - 125	06/06/17 12:21		
Tetrachloro-m-xylene	69	18 - 126	06/06/17 12:21		

Service Request: R1704835

Analytical Report

**Client:** Professional Service Industries (PSI) Schenectady, NY Service Request: R1704835

**Date Collected:** 05/16/17 13:32 **Project:** Former Borden Facility/0836852-1

**Sample Matrix:** Water **Date Received:** 05/17/17 18:22

**Sample Name:** MW-2B Units: ug/L Lab Code:

R1704835-002 Basis: NA

#### Low Level Polychlorinated Biphenyls (PCBs) by GC

**Analysis Method:** 8082A **Prep Method:** EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	<b>Date Extracted</b>	Q
Aroclor 1016	0.047 U	0.047	1	06/06/17 12:40	6/2/17	*
Aroclor 1221	0.047 U	0.047	1	06/06/17 12:40	6/2/17	*
Aroclor 1232	0.047 U	0.047	1	06/06/17 12:40	6/2/17	*
Aroclor 1242	0.047 U	0.047	1	06/06/17 12:40	6/2/17	*
Aroclor 1248	0.36	0.047	1	06/06/17 12:40	6/2/17	*
Aroclor 1254	0.047 U	0.047	1	06/06/17 12:40	6/2/17	*
Aroclor 1260	0.047 U	0.047	1	06/06/17 12:40	6/2/17	*

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
Decachlorobiphenyl	64	10 - 125	06/06/17 12:40	
Tetrachloro-m-xylene	71	18 - 126	06/06/17 12:40	

Analytical Report

Client: Professional Service Industries (PSI) Schenectady, NY

Project: Former Borden Facility/0836852-1 **Date Collected:** 05/16/17 13:10

Sample Matrix: Water Date Received: 05/17/17 18:22

Sample Name: MW-21 Units: ug/L

**Lab Code:** R1704835-003 **Basis:** NA

#### Low Level Polychlorinated Biphenyls (PCBs) by GC

**Analysis Method:** 8082A **Prep Method:** EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	<b>Date Extracted</b>	Q
Aroclor 1016	0.047 U	0.047	1	06/06/17 13:00	6/2/17	*
Aroclor 1221	0.047 U	0.047	1	06/06/17 13:00	6/2/17	*
Aroclor 1232	0.047 U	0.047	1	06/06/17 13:00	6/2/17	*
Aroclor 1242	0.047 U	0.047	1	06/06/17 13:00	6/2/17	*
Aroclor 1248	0.047 U	0.047	1	06/06/17 13:00	6/2/17	*
Aroclor 1254	0.047 U	0.047	1	06/06/17 13:00	6/2/17	*
Aroclor 1260	0.047 U	0.047	1	06/06/17 13:00	6/2/17	*

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
Decachlorobiphenyl	68	10 - 125	06/06/17 13:00	
Tetrachloro-m-xylene	82	18 - 126	06/06/17 13:00	

Service Request: R1704835



# **QC Summary Forms**



# Semivolatile Organic Compounds by GC

QA/QC Report

Client: Professional Service Industries (PSI) Schenectady, NY Service Request: R1704835

**Project:** Former Borden Facility/0836852-1

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Low Level Polychlorinated Biphenyls (PCBs) by GC

**Analysis Method:** 8082A **Extraction Method:** EPA 3510C

		Decachlorobiphenyl	Tetrachloro-m-xylene	
Sample Name	Lab Code	10 - 125	18 - 126	
MW-17	R1704835-001	68	69	
MW-2B	R1704835-002	64	71	
MW-21	R1704835-003	68	82	
Method Blank	RQ1704994-01	69	70	
Lab Control Sample	RQ1704994-02	77	71	
Duplicate Lab Control Sample	RQ1704994-03	74	77	

Analytical Report

Client: Professional Service Industries (PSI) Schenectady, NY Service Request: R1704835

Project:Former Borden Facility/0836852-1Date Collected:NASample Matrix:WaterDate Received:NA

 Sample Name:
 Method Blank
 Units: ug/L

 Lab Code:
 RQ1704994-01
 Basis: NA

#### Low Level Polychlorinated Biphenyls (PCBs) by GC

**Analysis Method:** 8082A **Prep Method:** EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	<b>Date Extracted</b>	Q
Aroclor 1016	0.050 U	0.050	1	06/06/17 11:03	6/2/17	
Aroclor 1221	0.050 U	0.050	1	06/06/17 11:03	6/2/17	
Aroclor 1232	0.050 U	0.050	1	06/06/17 11:03	6/2/17	
Aroclor 1242	0.050 U	0.050	1	06/06/17 11:03	6/2/17	
Aroclor 1248	0.050 U	0.050	1	06/06/17 11:03	6/2/17	
Aroclor 1254	0.050 U	0.050	1	06/06/17 11:03	6/2/17	
Aroclor 1260	0.050 U	0.050	1	06/06/17 11:03	6/2/17	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
Decachlorobiphenyl	69	10 - 125	06/06/17 11:03	
Tetrachloro-m-xylene	70	18 - 126	06/06/17 11:03	